Subject: RE: DOE FOIA HQ-2019-00571-F and HQ-2019-00572-F 1 of 7 emails with documents
Date: Friday, April 22, 2022 at 8:28:03 AM Eastern Daylight Time
From: Vazquez, Rosa (CONTR)
To: FOIA
CC: Hydle, Lars (CONTR)
Attachments: 2019-10 production.pdf, 2019-11 production optimized.pdf

EXTERNAL SENDER

Good morning,

Enclosed the first of about 7 emails with the 31 production of documents you accepted as response as of now. You will receive previously release as release but your request will be closed administratively as we have mentioned initially in our conversation.

Rosa M. Vazquez, Esq.
FOIA Analyst
Wits Solutions Inc. – Contractor
rosa.vazquez@hq.doe.gov

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR) Document 1

From: Fellow, Laura
Sent: Tuesday, May 08, 2018 4:09 PM
To: Reilly, Thomas; Williams, JoAnn
Subject: RE: Document1
Attachments: Document1 (v1).docx; Document1 (v2).docx

Follow Up Flag: Follow up
Flag Status: Flagged

Two versions attached. v1 shows changes to the initial draft, (b) (5) . (b) (5)
(b) (5)

-----Original Message-----
From: Reilly, Thomas
Sent: Tuesday, May 08, 2018 2:31 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: Document1

Hey!

Thoughts? Thanks!

Tom

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Reilly, Thomas
Sent: Tuesday, May 08, 2018 2:31 PM
To: Fellow, Laura; Williams, JoAnn
Subject: Document1
Attachments: Document1.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Hey!

Thoughts? Thanks!

Tom

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Fellow, Laura
Sent: Monday, May 07, 2018 3:35 PM
To: Reilly, Thomas
Subject: RE: First draft of a paper
Attachments: Draft 1.docx

Follow Up Flag: Follow up
Flag Status: Flagged

With the attachment

-----Original Message-----
From: Fellow, Laura
Sent: Monday, May 07, 2018 3:33 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: First draft of a paper

Tom,

(b) (5) That pushed it to 2 pages, but if that's too long, the background can easily be cut down. I wasn't able to come up with much for options, and (b) (5) , please let me know.

(b) (6) I'll be available all night to work on this though.

Feel free to give me a call after 4 pm (so I'm not talking on the road) - (b) (6)

Laura

Laura Fellow
Attorney-Advisor
Office of the General Counsel
Office for International and National Security Programs
U.S. Department of Energy
1000 Independence Ave. SW
Washington, D.C. 20585
Laura.fellow@hq.doe.gov
(202) 586-9538

AMERICAN OVERSIGHT

(b) (5)

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Reilly, Thomas
Sent: Monday, March 05, 2018 7:59 AM
To: Fellow, Laura
Subject: RE: Checking in

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks Laura. Safe travels.

Tom

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Saturday, Mar 03, 2018, 12:29 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: Checking in

Hi Tom. Hope you have power and are staying safe. Things are snowy in London, which seems to be reacting even more hysterically to the stuff than DC does.

(b) (5)

AMERICAN OVERSIGHT

From: Fellow, Laura
Sent: Saturday, March 03, 2018 11:55 AM
To: Williams, JoAnn
Subject: RE: Are you meeting?

Follow Up Flag: Follow up
Flag Status: Flagged

He did not come. Phoned in.

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Saturday, Mar 03, 2018, 11:52 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: Are you meeting?

(b) (6)

J

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Saturday, Mar 03, 2018, 11:17 AM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: Are you meeting?

(b) (6) . No need for him to take the time/approach he has.

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Saturday, Mar 03, 2018, 9:34 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: Are you meeting?

(b) (6)

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Saturday, Mar 03, 2018, 9:20 AM

AMERICAN OVERSIGHT

To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: Are you meeting?

(b) (5)

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Saturday, Mar 03, 2018, 8:59 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: Are you meeting?

Maybe weather will work improve enough to be enjoyable. Hope so
J

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Saturday, Mar 03, 2018, 8:52 AM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: Are you meeting?

We are meeting. Also a mess here, due to snow and ice. Trains not running, highways closed. Likely coming back very early though - will keep you posted. Unfortunately, hardly seems worth staying since it's near impossible to get around anywhere right now.

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Saturday, Mar 03, 2018, 8:49 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: Are you meeting?

Big mess here. Gov and schools closed hurricane force winds Airports and Amtrak closed.
Keep in touch
J

AMERICAN OVERSIGHT

From: Williams, JoAnn
Sent: Saturday, March 03, 2018 9:25 AM
To: Fellow, Laura
Subject: RE: Are you meeting?

Follow Up Flag: Follow up
Flag Status: Flagged

Very weird

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Saturday, Mar 03, 2018, 9:20 AM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: Are you meeting?

(b) (5)

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Saturday, Mar 03, 2018, 8:59 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: Are you meeting?

Maybe weather will work improve enough to be enjoyable. Hope so
J

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Saturday, Mar 03, 2018, 8:52 AM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: Are you meeting?

We are meeting. Also a mess here, due to snow and ice. Trains not running, highways closed. Likely coming back very early though - will keep you posted. Unfortunately, hardly seems worth staying since it's near impossible to get around anywhere right now.

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Saturday, Mar 03, 2018, 8:49 AM

AMERICAN OVERSIGHT

To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: Are you meeting?

Big mess here. Gov and schools closed hurricane force winds Airports and Amtrak closed.
Keep in touch
J

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR) Document 7

From: Scott, Michelle
Sent: Thursday, April 12, 2018 10:59 AM
To: Markus, Stephen
Cc: Fellow, Laura; Capoferri, Anita; McRae, Ben
Subject: FW: Proposed Draft Talking Points for Engagement with KSA officials regarding (b) (5) and on-going 123 Discussions

Follow Up Flag: Follow up
Flag Status: Flagged

Stephen,

These are the clear points I was referring to this morning after the call.

Michelle

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Hayeslip, Shaun D. EOP/NSC [mailto(b) (6)]
Sent: Thursday, April 12, 2018 9:33 AM
To: Devin Horne ; Oehlbert, Sean ; Richards, Andrew ; Scott, Michelle ; French, Matthew C. ; Sweetnam, Glen ; Warden, James R ; OrndorffS@state.gov; Burkart, Alex R ; eric.stahl@nrc.gov; Habighorst, Peter ; Cameron Dorsey ; KangE@state.gov
Cc: Griffith, Wells ; McGinnis, Edward ; Lennon, Sarah ; Friedel, Loren ; Strangis, Katie ; Cutler, Kirsten B ; CarverMJ@state.gov; Hutchins, Scott (Embassy Riyadh ; Miller, Barry ; Jonathan Chesebro
Subject: RE: Proposed Draft Talking Points for Engagement with KSA officials regarding (b) (5) and on-going 123 Discussions

Thanks for your patience, needed to do some work on process. Don't have a problem with the timing of the call for early next week, and fully support the contents of the points.

Best,
-Shaun

ITA/Commerce Equity

AMERICAN OVERSIGHT

ITA/Commerce Equity

NNSA Equity

AMERICAN OVERSIGHT

From: Richards, Andrew
Sent: Wednesday, April 11, 2018 2:11 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Hayeslip, Shaun D. EOP/NSC (b) (6) >; French, Matthew C. <Matthew.French@hq.doe.gov>; Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Warden, James R <WardenJR@state.gov>; OrndorffS@state.gov; Burkart, Alex R <BurkartAR@state.gov>; eric.stahl@nrc.gov; Habighorst, Peter <Peter.Habighorst@nrc.gov>; Devin Horne (Devin.Horne@trade.gov) <Devin.Horne@trade.gov>; Cameron Dorsey <Cameron.Dorsey@trade.gov>; KangE@state.gov
Cc: Griffith, Wells <Wells.Griffith@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Cutler, Kirsten B <CutlerKB@state.gov>; CarverMJ@state.gov; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Miller, Barry <Barry.Miller@nrc.gov>; Jonathan Chesebro <Jonathan.Chesebro@trade.gov>
Subject: RE: Proposed Draft Talking Points for Engagement with KSA officials regarding (b) (5) and on-going 123 Discussions

Attached are some further revisions to the talking points that reflect conversations Ed McGinnis has had with Ian Steff and Eliot Kang.

Andrew Richards
Deputy Chief of Staff
Office of Nuclear Energy
US Department of Energy

From: Scott, Michelle
Sent: Tuesday, April 10, 2018 2:41 PM
To: Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Hayeslip, Shaun D. EOP/NSC (b) (6) ; French, Matthew C. <Matthew.French@hq.doe.gov>; Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Warden, James R <WardenJR@state.gov>; OrndorffS@state.gov; Burkart, Alex R <BurkartAR@state.gov>; eric.stahl@nrc.gov; Habighorst, Peter <Peter.Habighorst@nrc.gov>; Devin Horne (Devin.Horne@trade.gov) <Devin.Horne@trade.gov>; Cameron Dorsey <Cameron.Dorsey@trade.gov>
Cc: Griffith, Wells <Wells.Griffith@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Cutler, Kirsten B <CutlerKB@state.gov>; CarverMJ@state.gov; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Miller, Barry <Barry.Miller@nrc.gov>; Jonathan Chesebro <Jonathan.Chesebro@trade.gov>
Subject: RE: Proposed Draft Talking Points for Engagement with KSA officials regarding (b) (5) and on-going 123 Discussions

Shaun and Sean,

We currently have a staff to staff call is scheduled for Thursday at 8:30am. We were envisioning the call with Ed, Ian and Alodan to be separate from this call.

Michelle
Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

AMERICAN OVERSIGHT

NNSA Equity

From: Hayeslip, Shaun D. EOP/NSC <(b) (6) >
Date: Tuesday, Apr 10, 2018, 2:23 PM
To: Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>, Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>, French, Matthew C. <Matthew.French@hq.doe.gov>, Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>, Warden, James R <WardenJR@state.gov>, OrndorffS@state.gov <OrndorffS@state.gov>, Burkart, Alex R <BurkartAR@state.gov>, eric.stahl@nrc.gov <eric.stahl@nrc.gov>, Habighorst, Peter <Peter.Habighorst@nrc.gov>, Devin Horne (Devin.Horne@trade.gov) <Devin.Horne@trade.gov>, Cameron Dorsey <Cameron.Dorsey@trade.gov>
Cc: Griffith, Wells <Wells.Griffith@hq.doe.gov>, McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>, Strangis, Katie <Katie.Strangis@nnsa.doe.gov>, Cutler, Kirsten B <CutlerKB@state.gov>, CarverMJ@state.gov <CarverMJ@state.gov>, Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>, Miller, Barry <Barry.Miller@nrc.gov>, Jonathan Chesebro <Jonathan.Chesebro@trade.gov>
Subject: RE: Proposed Draft Talking Points for Engagement with KSA officials regarding (b) (5) and on-going 123 Discussions

What is the timeframe being proposed for this call?
-Shaun

Shaun Hayeslip
Director for Nonproliferation
National Security Council / #WMD
(b) (6)
(b) (6)

AMERICAN OVERSIGHT

NNSA Equity

From: Scott, Michelle
Sent: Tuesday, April 10, 2018 1:23 PM
To: French, Matthew C. <Matthew.French@hq.doe.gov>; Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Warden, James R <WardenJR@state.gov>; OrndorffS@state.gov; Burkart, Alex R <BurkartAR@state.gov>; eric.stahl@nrc.gov; Habighorst, Peter <Peter.Habighorst@nrc.gov>; Devin Horne (Devin.Horne@trade.gov) <Devin.Horne@trade.gov>; Cameron Dorsey <Cameron.Dorsey@trade.gov>
Cc: Griffith, Wells <Wells.Griffith@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>; Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Cutler, Kirsten B <CutlerKB@state.gov>; CarverMJ@state.gov; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Miller, Barry <Barry.Miller@nrc.gov>; Jonathan Chesebro <Jonathan.Chesebro@trade.gov>
Subject: Proposed Draft Talking Points for Engagement with KSA officials regarding (b) (5) and on-going 123 Discussions
Importance: High

All,

(b) (5)

(b) (5)
(b) (5)

. DOE/NE and

AMERICAN OVERSIGHT

Commerce staff recommended having Ed McGinnis and Ian Steff hold a call with Dr. Maher Alodan, for a status update on the recent VTC for Action Plan implementation and to deliver the proposed points. Please provided any comments/clearance on the points and proposed call by COB today.

Thanks
Michelle

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Fellow, Laura
Sent: Thursday, March 22, 2018 1:30 PM
To: Williams, JoAnn
Subject: FW: Letter from Sen Markey to Sec Perry on KSA 123 dated March 21 2018
Attachments: Sen. Markey letter to Sec. Perry on KSA 123 dated March 21 2018.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Sent to Tom, and intended to copy you but got stuck in routine and pressed send before I added you to the CC line. Sorry.

NRC Equity

AMERICAN OVERSIGHT

EDWARD J. MARKEY
MASSACHUSETTS

COMMITTEES:
ENVIRONMENT AND PUBLIC WORKS
FOREIGN RELATIONS
RANKING MEMBER:
SUBCOMMITTEE ON EAST ASIA, THE PACIFIC, AND INTERNATIONAL CYBERSECURITY POLICY
COMMERCE, SCIENCE, AND TRANSPORTATION
RANKING MEMBER:
SUBCOMMITTEE ON SPACE, SCIENCE, AND COMPETITIVENESS
SMALL BUSINESS AND ENTREPRENEURSHIP
CHAIRMAN:
U.S. SENATE CLIMATE CHANGE TASK FORCE

United States Senate

SUITE SD-255
DIRKSEN BUILDING
WASHINGTON, DC 20510-2107
202-224-2742

975 JFK FEDERAL BUILDING
15 NEW SUDBURY STREET
BOSTON, MA 02203
617-565-8519

222 MILLIKEN BOULEVARD, SUITE 312
FALL RIVER, MA 02721
508-677-0523

1550 MAIN STREET, 4TH FLOOR
SPRINGFIELD, MA 01103
413-785-4610

March 21, 2018

The Honorable Rick Perry
U.S. Secretary of Energy
1000 Independence Avenue, S.W.
Washington, DC 20585

Dear Secretary Perry,

I write to reiterate my growing concern that the Trump administration's lack of communication and candor regarding its ongoing discussions with the Kingdom of Saudi Arabia to establish a civil nuclear cooperation agreement — or 123 agreement — is a deliberate effort to keep Congress in the dark about these important negotiations, in potential violation of statutory requirements. Despite my repeated requests for answers to questions enumerated in previous letters to you, Congress and the American people continue to learn more about this sensitive process from the press than from the administration.

For example, according to reports, you were in London in late February to meet with senior officials from Saudi Arabia and discuss this agreement. In testimony today before the Senate Committee on the Environment and Public Works, Nuclear Regulatory Commission (NRC) Chairman Kristine L. Svinicki confirmed this trip, acknowledging that at least one NRC lawyer was present for those negotiations. More recently, on Tuesday, March 20, Saudi Crown Prince Mohammed bin Salman met with both you and President Trump.[1]

Despite confirmation of ongoing talks with Saudi Arabia, I am not aware of any member-level briefings for the Senate Foreign Relations Committee on the status of these discussions. The Atomic Energy Act requires that the president keep the Senate Foreign Relations Committee "fully and currently informed of any initiative or negotiations relating to a new or amended agreement for peaceful nuclear cooperation."[2] As I have made clear before, it is my firm belief that the Trump administration is failing to meet this standard.

[1] Vivian Salama, *Trump meets with Saudi leader amid fears of a new Middle East arms race*, NBC News (Mar. 20, 2018). https://www.nbcnews.com/politics/politics-news/trump-meets-saudi-leader-amid-fears-new-middle-east-arms-n858411.
[2] 41 U.S.C. § 2153(e).

AMERICAN OVERSIGHT

Issues as critical as nuclear nonproliferation require engagement with Congress, given their major implications for U.S. national security. This is especially true in light of recent comments from Saudi Arabia's Crown Prince Mohammed bin Salman that, "Saudi Arabia does not want to acquire any nuclear bomb, but without a doubt if Iran developed a nuclear bomb, we will follow suit as soon as possible."[3] Unfortunately, these comments confirm that Saudi Arabia's nuclear ambitions are about more than simple electricity generation, and may explain why Saudi Arabia has refused to commit to forgo uranium enrichment or spent-fuel reprocessing on its territory — the so-called "gold standard" for 123 agreements during past negotiations.

Taken in tandem with President Trump's repeated threats to pull out of the Joint Comprehensive Plan of Action — the very vehicle by which the international community is ensuring Iran is not pursuing nuclear weapons — the administration's actions could be laying the groundwork for a nuclear arms race in the Middle East.

Therefore, as soon as possible, I respectfully request that you provide a detailed response to my letter dated February 26, 2018 regarding this potential deal. I also request that representatives from your department, as well as the Department of State and the National Security Council, should immediately brief all interested members of the Senate Foreign Relations Committee on the status of negotiations with Saudi Arabia towards a 123 agreement, as required by law.

Should you or your staff have any questions about this request, please do not hesitate to contact Zack Hosford of my staff at 202-224-2742.

Sincerely,

Edward J. Markey

Edward J. Markey
United States Senator

CC:
Secretary of State Rex Tillerson
Nuclear Regulatory Commission Chairman Kristine L. Svinicki

[3] *Saudi crown prince: If Iran develops nuclear bomb, so will we*, CBS News (March 15, 2018), https://www.cbsnews.com/news/saudi-crown-prince-mohammed-bin-salman-iran-nuclear-bomb-saudi-arabia/.

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Williams, JoAnn
Sent: Tuesday, March 20, 2018 5:59 PM
To: Fellow, Laura
Subject: RE: KSA

Follow Up Flag: Follow up
Flag Status: Flagged

It was greeting meeting for crown prince

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Tuesday, Mar 20, 2018, 4:11 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA

(b) (5)

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Tuesday, Mar 20, 2018, 4:10 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: KSA

(b) (5)

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Tuesday, Mar 20, 2018, 4:05 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA

Can't wait to hear about it

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Tuesday, Mar 20, 2018, 4:00 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: KSA

AMERICAN OVERSIGHT

Perry and Trump at meeting

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Tuesday, Mar 20, 2018, 3:59 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA

(b) (5)

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Tuesday, Mar 20, 2018, 3:56 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: KSA

Cable news talked about WH meeting today to discuss 123 agreement. As background, said Saudis will not agree to 123 terms. Did not say what happened at meeting

---

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Tuesday, Mar 20, 2018, 12:56 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>, Rourke, Mariclaire <Mariclaire.Rourke@hq.doe.gov>, Pak, Christina <Christina.Pak@hq.doe.gov>, Williams, JoAnn <JoAnn.Williams@hq.doe.gov>, Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>, Oxman, Elliot <Elliot.Oxman@hq.doe.gov>
Cc: Mills, Valerie <Valerie.Mills@hq.doe.gov>
Subject: Sharepoint Training

Hi all. Given the forecast tomorrow and the fact that it may be difficult for some of us to get in to work, I'm preemptively rescheduling this training to April 4.

AMERICAN OVERSIGHT

From: Williams, JoAnn
Sent: Tuesday, March 20, 2018 4:13 PM
To: Fellow, Laura
Subject: RE: KSA

Follow Up Flag: Follow up
Flag Status: Flagged

Story was vague. Do not know

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Tuesday, Mar 20, 2018, 4:11 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA

(b) (5)

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Tuesday, Mar 20, 2018, 4:10 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: KSA

(b) (5)

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Tuesday, Mar 20, 2018, 4:05 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA

Can't wait to hear about it

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Tuesday, Mar 20, 2018, 4:00 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: KSA

AMERICAN OVERSIGHT

Perry and Trump at meeting

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Tuesday, Mar 20, 2018, 3:59 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA

(b) (5)

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Tuesday, Mar 20, 2018, 3:56 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: KSA

Cable news talked about WH meeting today to discuss 123 agreement. As background, said Saudis will not agree to 123 terms. Did not say what happened at meeting

---

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Tuesday, Mar 20, 2018, 12:56 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>, Rourke, Mariclaire <Mariclaire.Rourke@hq.doe.gov>, Pak, Christina <Christina.Pak@hq.doe.gov>, Williams, JoAnn <JoAnn.Williams@hq.doe.gov>, Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>, Oxman, Elliot <Elliot.Oxman@hq.doe.gov>
Cc: Mills, Valerie <Valerie.Mills@hq.doe.gov>
Subject: Sharepoint Training

Hi all. Given the forecast tomorrow and the fact that it may be difficult for some of us to get in to work, I'm preemptively rescheduling this training to April 4.

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Williams, JoAnn
Sent: Tuesday, March 06, 2018 8:15 AM
To: Fellow, Laura
Subject: FW: nonpaper on benefits to KSA of concluding a 123 agreement
Attachments: 2018-03-02 KSA benefits of a 123 nonpaper.docx

Follow Up Flag: Follow up
Flag Status: Flagged

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

State Equity

AMERICAN OVERSIGHT

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From: Williams, JoAnn
Sent: Tuesday, February 27, 2018 12:04 PM
To: Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>; Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Gergen, Jennifer A <Gergenja@state.gov>; Orndorff, Sarah <OrndorffS@state.gov>; Ferkile, Andrea <Andrea.Ferkile@nrc.gov>; Stratford, Richard J <StratfordRJ@state.gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Doane, Margaret <Margaret.Doane@nrc.gov>; Kron, Arthur S CIV DTSA PD (US) <arthur.s.kron.civ@mail.mil>; Miller, Jennifer J5 <Jennifer.l.miller405.civ@mail.mil>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; (b) (6)

AMERICAN OVERSIGHT

Cc: Maddox, Seth J <MaddoxSJ@state.gov>; Warden, James R <WardenJR@state.gov>; Callery, Allison <CalleryA@state.gov>; Ballerini, Kenneth E. EOP/NSC (b) (6) ; Coburn, Benjamin L <CoburnBL@state.gov>; Turner, Kyler K <TurnerKK@state.gov>; Mayros, Lauren <Lauren.Mayros@nrc.gov>; Quinn, Martin R <QuinnMR@state.gov>; Robbins, Hailey <RobbinsH2@state.gov>; Kang, Eliot <KangE@state.gov>; (b) (6) <(b) (6) >; Ford, Christopher A <FordCA@state.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Norles, Jessica <Jessica.Norles@nnsa.doe.gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Laura and Jo Ann are OK with this version.

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

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Jalloh, Fatmatu H. (CONTR)

From: Williams, JoAnn
Sent: Tuesday, March 06, 2018 8:14 AM
To: Fellow, Laura
Subject: FW: nonpaper on benefits to KSA of concluding a 123 agreement

Follow Up Flag: Follow up
Flag Status: Flagged

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

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Cc: Maddox, Seth J <MaddoxSJ@state.gov<mailto:MaddoxSJ@state.gov>>; Warden, James R <WardenJR@state.gov<mailto:WardenJR@state.gov>>; Callery, Allison <CalleryA@state.gov<mailto:CalleryA@state.gov>>; Ballerini, Kenneth E. EOP/NSC <(b) (6) <mailto (b) (6) >>; Coburn, Benjamin L <CoburnBL@state.gov<mailto:CoburnBL@state.gov>>; Turner, Kyler K <TurnerKK@state.gov<mailto:TurnerKK@state.gov>>; Mayros, Lauren <Lauren.Mayros@nrc.gov<mailto:Lauren.Mayros@nrc.gov>>; Quinn, Martin R <QuinnMR@state.gov<mailto:QuinnMR@state.gov>>; Robbins, Hailey <RobbinsH2@state.gov<mailto:RobbinsH2@state.gov>>; Kang, Eliot <KangE@state.gov<mailto:KangE@state.gov>>; Andrea_G_Hall ((b) (6) <mailto:(b) (6) >) <(b) (6) <mailto:(b) (6) >>; Ford, Christopher A <FordCA@state.gov<mailto:FordCA@state.gov>>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov<mailto:Jac.Goodman@nnsa.Doe.Gov>>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov<mailto:Katie.Strangis@nnsa.doe.gov>>; Norles, Jessica <Jessica.Norles@nnsa.doe.gov<mailto:Jessica.Norles@nnsa.doe.gov>>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Laura and Jo Ann are OK with this version.

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

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Jalloh, Fatmatu H. (CONTR)

From: Williams, JoAnn
Sent: Sunday, March 04, 2018 8:27 AM
To: Fellow, Laura
Subject: RE: Are you meeting?

Follow Up Flag: Follow up
Flag Status: Flagged

Any better today ?
J

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Saturday, Mar 03, 2018, 9:20 AM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: Are you meeting?

(b) (5)

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Saturday, Mar 03, 2018, 8:59 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: Are you meeting?

Maybe weather will work improve enough to be enjoyable. Hope so
J

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Saturday, Mar 03, 2018, 8:52 AM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: Are you meeting?

We are meeting. Also a mess here, due to snow and ice. Trains not running, highways closed. Likely coming back very early though - will keep you posted. Unfortunately, hardly seems worth staying since it's near impossible to get around anywhere right now.

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>

AMERICAN OVERSIGHT

Date: Saturday, Mar 03, 2018, 8:49 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: Are you meeting?

Big mess here. Gov and schools closed hurricane force winds Airports and Amtrak closed.
Keep in touch
J

AMERICAN OVERSIGHT

State Equity

From: Hall, Andrea G. EOP/NSC (b) (6)
Date: March 3, 2018 at 15:25:21 EST
To: Gergen, Jennifer A <Gergenja@state.gov>
Cc: Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>, Orndorff, Sarah <OrndorffS@state.gov>, Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>, Doane, Margaret <Margaret.Doane@nrc.gov>, Ferkile, Andrea <Andrea.Ferkile@nrc.gov>, Ford, Christopher A <FordCA@state.gov>, Griffith, Wells <Wells.Griffith@hq.doe.gov>, Pounds, Timothy J <PoundsTJ@state.gov>, Stratford, Richard J <StratfordRJ@state.gov>, Robbins, Hailey <RobbinsH2@state.gov>, Callery, Allison <CalleryA@state.gov>, Dan Wilmot <Dan.Wilmot@hq.doe.gov>
Subject: Re: Delegation contact list

Team,

Thanks for all your help in getting to a good place over the last few days. It took a whole team of experts to do all the legwork.

(b) (5)

Appreciate your understanding.

Many thanks and see you all soon,

AMERICAN OVERSIGHT

Andrea

Andrea Hall
Senior Director for WMD and Counterproliferation
National Security Council
(b) (6)

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From: Fellow, Laura
<Laura.Fellow@Hq.Doe.Gov<mailto:Laura.Fellow@Hq.Doe.Gov><mailto:Laura.Fellow@Hq.Doe.Gov>>
Date: Saturday, Mar 03, 2018, 4:16 PM
To: Oehlbert, Sean
<Sean.Oehlbert@nnsa.doe.gov<mailto:Sean.Oehlbert@nnsa.doe.gov><mailto:Sean.Oehlbert@nnsa.doe.gov>>, Orndorff, Sarah <OrndorffS@state.gov<mailto:OrndorffS@state.gov><mailto:OrndorffS@state.gov>>, Doane, Margaret <Margaret.Doane@nrc.gov<mailto:Margaret.Doane@nrc.gov><mailto:Margaret.Doane@nrc.gov>>, Ferkile, Andrea <Andrea.Ferkile@nrc.gov<mailto:Andrea.Ferkile@nrc.gov><mailto:Andrea.Ferkile@nrc.gov>>, Ford, Christopher A <FordCA@state.gov<mailto:FordCA@state.gov><mailto:FordCA@state.gov>>, Gergen, Jennifer A <Gergenja@state.gov<mailto:Gergenja@state.gov><mailto:Gergenja@state.gov>>, Griffith, Wells <Wells.Griffith@hq.doe.gov<mailto:Wells.Griffith@hq.doe.gov><mailto:Wells.Griffith@hq.doe.gov>>, Hall, Andrea G. (b) (6) mailto: (b) (6) ><mailto: (b) (6) >, Pounds, Timothy J <PoundsTJ@state.gov<mailto:PoundsTJ@state.gov><mailto:PoundsTJ@state.gov>>, Stratford, Richard J <StratfordRJ@state.gov<mailto:StratfordRJ@state.gov><mailto:StratfordRJ@state.gov>>
Cc: Robbins, Hailey <RobbinsH2@state.gov<mailto:RobbinsH2@state.gov><mailto:RobbinsH2@state.gov>>, Callery, Allison <CalleryA@state.gov<mailto:CalleryA@state.gov><mailto:CalleryA@state.gov>>
Subject: RE: Delegation contact list

That's fine. The Saudi delegation is asking if you are planning to be back here at 4:30. We just finished.

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From: Fellow, Laura
Sent: Saturday, March 3, 2018 11:55 PM
To: Oehlbert, Sean; Orndorff, Sarah; Ferkile, Andrea; Gergen, Jennifer A
Cc: Orndorff, Sarah; Stratford, Richard J; Doane, Margaret; Pounds, Timothy J
Subject: RE: Delegation contact list

Sounds good. See you then.

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Sent from my BlackBerry 10 smartphone

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From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov<mailto:Laura.Fellow@Hq.Doe.Gov>>
Date: Saturday, Mar 03, 2018, 4:16 PM
To: Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov<mailto:Sean.Oehlbert@nnsa.doe.gov>>, Orndorff, Sarah <OrndorffS@state.gov<mailto:OrndorffS@state.gov>>, Doane, Margaret <Margaret.Doane@nrc.gov<mailto:Margaret.Doane@nrc.gov>>, Ferkile, Andrea <Andrea.Ferkile@nrc.gov<mailto:Andrea.Ferkile@nrc.gov>>, Ford, Christopher A <FordCA@state.gov<mailto:FordCA@state.gov>>, Gergen, Jennifer A <Gergenja@state.gov<mailto:Gergenja@state.gov>>, Griffith, Wells <Wells.Griffith@hq.doe.gov<mailto:Wells.Griffith@hq.doe.gov>>, Hall, Andrea G. EOP/NSC (b) (6) mailto (b) (6) >, Pounds, Timothy J <PoundsTJ@state.gov<mailto:PoundsTJ@state.gov>>, Stratford, Richard J <StratfordRJ@state.gov<mailto:StratfordRJ@state.gov>>
Cc: Robbins, Hailey <RobbinsH2@state.gov<mailto:RobbinsH2@state.gov>>, Callery, Allison <CalleryA@state.gov<mailto:CalleryA@state.gov>>
Subject: RE: Delegation contact list

That's fine. The Saudi delegation is asking if you are planning to be back here at 4:30. We just finished.

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From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov<mailto:Laura.Fellow@Hq.Doe.Gov>>
Date: Saturday, Mar 03, 2018, 4:16 PM
To: Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov<mailto:Sean.Oehlbert@nnsa.doe.gov>>, Orndorff, Sarah <OrndorffS@state.gov<mailto:OrndorffS@state.gov>>, Doane, Margaret <Margaret.Doane@nrc.gov<mailto:Margaret.Doane@nrc.gov>>, Ferkile, Andrea <Andrea.Ferkile@nrc.gov<mailto:Andrea.Ferkile@nrc.gov>>, Ford, Christopher A <FordCA@state.gov<mailto:FordCA@state.gov>>, Gergen, Jennifer A <Gergenja@state.gov<mailto:Gergenja@state.gov>>, Griffith, Wells <Wells.Griffith@hq.doe.gov<mailto:Wells.Griffith@hq.doe.gov>>, Hall, Andrea G. EOP/NSC <(b) (6) <mailto:(b) (6) >, Pounds, Timothy J <PoundsTJ@state.gov<mailto:PoundsTJ@state.gov>>, Stratford, Richard J <StratfordRJ@state.gov<mailto:StratfordRJ@state.gov>>
Cc: Robbins, Hailey <RobbinsH2@state.gov<mailto:RobbinsH2@state.gov>>, Callery, Allison <CalleryA@state.gov<mailto:CalleryA@state.gov>>
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Cc: Robbins, Hailey <RobbinsH2@state.gov>, Callery, Allison <CalleryA@state.gov>
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AMERICAN OVERSIGHT

<Andrea.Ferkile@nrc.gov>; Stratford, Richard J <StratfordRJ@state.gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Doane, Margaret <Margaret.Doane@nrc.gov>; Kron, Arthur S CIV DTSA PD (US) <arthur.s.kron.civ@mail.mil>; Miller, Jennifer J5 <Jennifer.l.miller405.civ@mail.mil>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; (b) (6)

Cc: Maddox, Seth J <MaddoxSJ@state.gov>; Warden, James R <WardenJR@state.gov>; Callery, Allison <CalleryA@state.gov>; Ballerini, Kenneth E. EOP/NSC (b) (6) >; Coburn, Benjamin L <CoburnBL@state.gov>; Turner, Kyler K <TurnerKK@state.gov>; Mayros, Lauren <Lauren.Mayros@nrc.gov>; Quinn, Martin R <QuinnMR@state.gov>; Robbins, Hailey <RobbinsH2@state.gov>; Kang, Eliot <KangE@state.gov>; Andrea_G_Hall (b) (6)) (b) (6) >; Ford, Christopher A <FordCA@state.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Norles, Jessica <Jessica.Norles@nnsa.doe.gov>

Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Laura and Jo Ann are OK with this version.

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

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(b) (6) <mailto(b) (6) >
Cc: Maddox, Seth J <MaddoxSJ@state.gov<mailto:MaddoxSJ@state.gov>>; Warden, James R <WardenJR@state.gov<mailto:WardenJR@state.gov>>; Callery, Allison <CalleryA@state.gov<mailto:CalleryA@state.gov>>; Ballerini, Kenneth E. EOP/NSC
(b) (6) <mailto (b) (6) >>; Coburn, Benjamin L <CoburnBL@state.gov<mailto:CoburnBL@state.gov>>; Turner, Kyler K <TurnerKK@state.gov<mailto:TurnerKK@state.gov>>; Mayros, Lauren <Lauren.Mayros@nrc.gov<mailto:Lauren.Mayros@nrc.gov>>; Quinn, Martin R <QuinnMR@state.gov<mailto:QuinnMR@state.gov>>; Robbins, Hailey <RobbinsH2@state.gov<mailto:RobbinsH2@state.gov>>; Kang, Eliot <KangE@state.gov<mailto:KangE@state.gov>>; Andrea_G_Hall ((b) (6) <mailto:(b) (6) >)
<(b) (6) <mailto:(b) (6) >>; Ford, Christopher A <FordCA@state.gov<mailto:FordCA@state.gov>>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov<mailto:Jac.Goodman@nnsa.Doe.Gov>>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov<mailto:Katie.Strangis@nnsa.doe.gov>>; Norles, Jessica <Jessica.Norles@nnsa.doe.gov<mailto:Jessica.Norles@nnsa.doe.gov>>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Laura and Jo Ann are OK with this version.

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

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State Equity

NNSA Equity

NRC Equity

AMERICAN OVERSIGHT

NRC Equity

NNSA Equity

From: Williams, JoAnn
Sent: Tuesday, February 27, 2018 12:04 PM
To: Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>; Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Gergen, Jennifer A <Gergenja@state.gov>; Orndorff, Sarah <OrndorffS@state.gov>; Ferkile, Andrea <Andrea.Ferkile@nrc.gov>; Stratford, Richard J <StratfordRJ@state.gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Doane, Margaret <Margaret.Doane@nrc.gov>; Kron, Arthur S CIV DTSA PD (US) <arthur.s.kron.civ@mail.mil>; Miller, Jennifer J5 <Jennifer.l.miller405.civ@mail.mil>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; (b) (6)
Cc: Maddox, Seth J <MaddoxSJ@state.gov>; Warden, James R <WardenJR@state.gov>; Callery, Allison <CalleryA@state.gov>; Ballerini, Kenneth E. EOP/NSC <(b) (6) >; Coburn, Benjamin L <CoburnBL@state.gov>; Turner, Kyler K <TurnerKK@state.gov>; Mayros, Lauren <Lauren.Mayros@nrc.gov>; Quinn, Martin R <QuinnMR@state.gov>; Robbins, Hailey <RobbinsH2@state.gov>; Kang, Eliot <KangE@state.gov>; Andrea_G_Hall ((b) (6))

AMERICAN OVERSIGHT

<(b) (6) >; Ford, Christopher A <FordCA@state.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Norles, Jessica <Jessica.Norles@nnsa.doe.gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Laura and Jo Ann are OK with this version.

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

NNSA Equity

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

State Equity

NNSA Equity

NRC Equity

AMERICAN OVERSIGHT

NRC Equity

NNSA Equity

AMERICAN OVERSIGHT

From: Williams, JoAnn
Sent: Tuesday, February 27, 2018 12:04 PM
To: Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>; Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Gergen, Jennifer A <Gergenja@state.gov>; Orndorff, Sarah <OrndorffS@state.gov>; Ferkile, Andrea <Andrea.Ferkile@nrc.gov>; Stratford, Richard J <StratfordRJ@state.gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Doane, Margaret <Margaret.Doane@nrc.gov>; Kron, Arthur S CIV DTSA PD (US) <arthur.s.kron.civ@mail.mil>; Miller, Jennifer J5 <Jennifer.l.miller405.civ@mail.mil>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov> (b) (6)
Cc: Maddox, Seth J <MaddoxSJ@state.gov>; Warden, James R <WardenJR@state.gov>; Callery, Allison <CalleryA@state.gov>; Ballerini, Kenneth E. EOP/NSC (b) (6) >; Coburn, Benjamin L <CoburnBL@state.gov>; Turner, Kyler K <TurnerKK@state.gov>; Mayros, Lauren <Lauren.Mayros@nrc.gov>; Quinn, Martin R <QuinnMR@state.gov>; Robbins, Hailey <RobbinsH2@state.gov>; Kang, Eliot <KangE@state.gov>; Andrea_G_Hall ((b) (6)) <(b) (6) >; Ford, Christopher A <FordCA@state.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Norles, Jessica <Jessica.Norles@nnsa.doe.gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Laura and Jo Ann are OK with this version.

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

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-----Original Message-----

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Fellow, Laura
Sent: Thursday, March 01, 2018 12:40 PM
To: Reilly, Thomas
Subject: FW: KSA Teams

Follow Up Flag: Follow up
Flag Status: Flagged

Fysa

State Equity

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

From: Wilmot, Dan
Sent: Wednesday, February 28, 2018 3:48 PM
To: Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Wallwork, Luke <Luke.Wallwork@hq.doe.gov>; Hart, J'Tia P. ; (b) (3) (B)

Subject: KSA Teams
(b) (5)

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Fellow, Laura
Sent: Thursday, March 01, 2018 10:49 AM
To: Williams, JoAnn
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Follow Up Flag: Follow up
Flag Status: Flagged

Yeah

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Thursday, Mar 01, 2018, 10:33 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Were you always leaving tonight ?
Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

From: Fellow, Laura
Sent: Thursday, March 01, 2018 10:31 AM
To: Williams, JoAnn
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh
Thanks. (b) (6)

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Thursday, Mar 01, 2018, 10:29 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh
Good luck with wind
Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

From: Fellow, Laura
Sent: Thursday, March 01, 2018 10:28 AM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh
Jennifer is leaving tonight, as am I. (b) (5) . (b) (5)
(b) (5)

Feel free to send comments.

AMERICAN OVERSIGHT

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Thursday, Mar 01, 2018, 10:22 AM
To: Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>, Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>, Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

I think you should go ahead. Not sure where Laura is.
Jennifer is leaving Friday as far as I know.

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

NNSA Equity

From: Williams, JoAnn
Sent: Thursday, March 01, 2018 9:55 AM
To: Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

I don’t know. Maybe Laura does. Most likely you will need to raise with Jennifer

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

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State Equity

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Jalloh, Fatmatu H. (CONTR) Document 27

From: Williams, JoAnn
Sent: Thursday, March 01, 2018 10:27 AM
To: Stern, Zachary; Fellow, Laura; Figueroa, Jose
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Follow Up Flag: Follow up
Flag Status: Flagged

(b) (5)

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

NNSA Equity

From: Williams, JoAnn
Sent: Thursday, March 01, 2018 9:55 AM
To: Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

I don't know. Maybe Laura does. Most likely you will need to raise with Jennifer

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Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

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Document 29

Jalloh, Fatmatu H. (CONTR)

From: Fellow, Laura
Sent: Wednesday, February 28, 2018 5:19 PM
To: 'Orndorff, Sarah'; Gergen, Jennifer A
Subject: RE: draft KSA 123 side letters

Follow Up Flag: Follow up
Flag Status: Flagged

Re: UK, DOE GC is hoping to clear tonight. Stephen wants a chance to review, but he's at an off-site for a while longer. JoAnn and I are good with it. (b) (5)

State Equity

From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Wednesday, February 28, 2018 5:13 PM
To: Gergen, Jennifer A; Orndorff, Sarah
Subject: RE: draft KSA 123 side letters

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The text looks good to me. (b) (5)

State Equity

From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Wednesday, February 28, 2018 5:09 PM
To: Gergen, Jennifer A; Orndorff, Sarah
Subject: RE: draft KSA 123 side letters

Looking at it now, (b) (5)

State Equity

From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Wednesday, February 28, 2018 4:02 PM
To: Gergen, Jennifer A; Orndorff, Sarah
Subject: RE: draft KSA 123 side letters

A few thoughts:

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(b) (5)

State Equity

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From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Wednesday, February 28, 2018 5:09 PM
To: Gergen, Jennifer A; Orndorff, Sarah
Subject: RE: draft KSA 123 side letters

Looking at it now, (b) (5)

State Equity

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From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Wednesday, February 28, 2018 4:02 PM
To: Gergen, Jennifer A; Orndorff, Sarah
Subject: RE: draft KSA 123 side letters

A few thoughts:

(b) (5)

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From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Wednesday, February 28, 2018 4:02 PM
To: Gergen, Jennifer A; Orndorff, Sarah
Subject: RE: draft KSA 123 side letters

A few thoughts:

(b) (5)

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From: Fellow, Laura
Sent: Tuesday, February 27, 2018 12:01 PM
To: Oehlbert, Sean ; Williams, JoAnn
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

I'm okay with it.

Laura

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From: Fellow, Laura
Sent: Tuesday, February 27, 2018 11:48 AM
To: Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

I was at my desk all morning but had an 11 am that I had to get to. I'm really trying to wrap things up to get back to review. I hope I can get to everything within the next 10 minutes

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From: Williams, JoAnn
Sent: Tuesday, February 27, 2018 11:42 AM
To: Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>
Cc: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Sean
Looks OK to me. Laura has been following this more closely and may have other thoughts

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

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Jalloh, Fatmatu H. (CONTR)

From: Fellow, Laura
Sent: Tuesday, February 27, 2018 11:45 AM
To: Williams, JoAnn
Cc: Oehlbert, Sean E.
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Follow Up Flag: Follow up
Flag Status: Flagged

Ok. Trying hard to get back to my desk quickly so I can review.

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Tuesday, Feb 27, 2018, 11:23 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Cc: Oehlbert, Sean E. <Sean_E_Oehlbert@nsc.eop.gov>
Subject: FW: Draft U.S.-KSA 123 agreement text to send to Riyadh

I am deferring to you

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Jalloh, Fatmatu H. (CONTR)

Document 34

From: Fellow, Laura
Sent: Tuesday, February 27, 2018 9:36 AM
To: Oehlbert, Sean
Subject: FW: Draft U.S.-KSA 123 agreement text to send to Riyadh

Follow Up Flag: Follow up
Flag Status: Flagged

Sean, (b) (5)

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State Equity

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Jalloh, Fatmatu H. (CONTR)

Document 35

From: Fellow, Laura
Sent: Tuesday, February 27, 2018 8:34 AM
To: Kovatch, David (Embassy London)
Subject: RE: Logistics for London 123 agreement negotiation

David,
Apologies for the delay, but I expect that I can get the information I need through others that we're traveling with or through you, so no need for a SIPR account for me.

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Jalloh, Fatmatu H. (CONTR) Document 36

From: Fellow, Laura
Sent: Monday, February 26, 2018 7:02 PM
To: Orndorff, Sarah
Subject: State Equity

Follow Up Flag: Follow up
Flag Status: Flagged

(b) (5)

State Equity

From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Monday, February 26, 2018 6:23 PM
To: Orndorff, Sarah
Subject: State Equity
(b) (5)

State Equity

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State Equity

From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Monday, February 26, 2018 4:27 PM
To: Orndorff, Sarah <OrndorffS@state.gov>
Subject: State Equity
(b) (5)

State Equity

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Williams, JoAnn
Sent: Monday, February 26, 2018 10:59 AM
To: Figueroa, Jose; Oehlbert, Sean; Fellow, Laura; Stern, Zachary; Goodman, Jac; Strangis, Katie; Norles, Jessica
Subject: RE: Draft U.S.-KSA 123 agreement text to send to Riyadh

Follow Up Flag: Follow up
Flag Status: Flagged

(b) (5)
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AMERICAN OVERSIGHT

NNSA Equity

State Equity

AMERICAN OVERSIGHT

State Equity

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

NRC Equity

From: Williams, JoAnn [mailto:JoAnn.Williams@hq.doe.gov]
Sent: Sunday, February 25, 2018 10:50 AM
To: Orndorff, Sarah ; Ferkile, Andrea ; Oehlbert, Sean ; Stratford, Richard J ; Gergen, Jennifer A ; Fellow, Laura ; Doane, Margaret ; Kron, Arthur S CIV DTSA PD (US) ; Miller, Jennifer J5 ; Stern, Zachary ; (b) (6)
Cc: Maddox, Seth J ; Warden, James R ; Callery, Allison ; Ballerini, Kenneth E. EOP/NSC ; Coburn, Benjamin L ; Figueroa, Jose ; Turner, Kyler K ; Mayros, Lauren ; Quinn, Martin R ; Robbins, Hailey ; Kang, Eliot ; Andrea_G_Hall (b) (6)) ; Ford, Christopher A ; Goodman, Jac ; Strangis, Katie ; Norles, Jessica ; Reilly, Thomas ; Brown, Michael ; Lucas, John T.
Subject: [External_Sender] KSA —Washington Post

See Business section of Wash Post today
First article
J

State Equity

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Jalloh, Fatmatu H. (CONTR) Document 39

From: Williams, JoAnn
Sent: Sunday, February 25, 2018 5:18 PM
To: Fellow, Laura
Subject: RE: KSA —Washington Post

Follow Up Flag: Follow up
Flag Status: Flagged

I found on-line what looks like same article written by Mufson published Feb 29. Talks about 123 agreement

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From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Sunday, Feb 25, 2018, 12:36 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA —Washington Post

Would you mind bringing it into the office? Hasn't made it online and I'm not sure I'll have an opportunity to run out and buy one

---

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Sunday, Feb 25, 2018, 10:50 AM
To: Orndorff, Sarah <OrndorffS@state.gov>, Ferkile, Andrea <Andrea.Ferkile@nrc.gov>, Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>, Stratford, Richard J <StratfordRJ@state.gov>, Gergen, Jennifer A <Gergenja@state.gov>, Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>, Doane, Margaret <Margaret.Doane@nrc.gov>, Kron, Arthur S CIV DTSA PD (US) <arthur.s.kron.civ@mail.mil>, Miller, Jennifer J5 <Jennifer.l.miller405.civ@mail.mil>, Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>,(b) (6) (b) (6)
Cc: Maddox, Seth J <MaddoxSJ@state.gov>, Warden, James R <WardenJR@state.gov>, Callery, Allison <CalleryA@state.gov>, Ballerini, Kenneth E. EOP/NSC(b) (6) Coburn, Benjamin L <CoburnBL@state.gov>, Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>, Turner, Kyler K <TurnerKK@state.gov>, 'Mayros, Lauren' <Lauren.Mayros@nrc.gov>, Quinn, Martin R <QuinnMR@state.gov>, Robbins, Hailey <RobbinsH2@state.gov>, Kang, Eliot <KangE@state.gov>, Andrea_G_Hall(b) (6) (b) (6) , Ford, Christopher A <FordCA@state.gov>, Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>, Strangis, Katie <Katie.Strangis@nnsa.doe.gov>, Norles, Jessica <Jessica.Norles@nnsa.doe.gov>, Reilly, Thomas <Thomas.Reilly@hq.doe.gov>, Brown, Michael <Michael.Brown@hq.doe.gov>, Lucas, John T. <John.T.Lucas@hq.doe.gov>
Subject: KSA —Washington Post

See Business section of Wash Post today
First article
J

AMERICAN OVERSIGHT

State Equity

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Jalloh, Fatmatu H. (CONTR)

From: Williams, JoAnn
Sent: Sunday, February 25, 2018 2:45 PM
To: Fellow, Laura
Subject: RE: KSA —Washington Post

Follow Up Flag: Follow up
Flag Status: Flagged

Yes
Jamie's wet paw print makes it priceless

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Sunday, Feb 25, 2018, 2:17 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA —Washington Post

Does that mean the price goes up?

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Sunday, Feb 25, 2018, 1:02 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: KSA —Washington Post

Big article

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Sunday, Feb 25, 2018, 12:36 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA —Washington Post

Would you mind bringing it into the office? Hasn't made it online and I'm not sure I'll have an opportunity to run out and buy one

---

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Sunday, Feb 25, 2018, 10:50 AM

AMERICAN OVERSIGHT

To: Orndorff, Sarah <OrndorffS@state.gov>, Ferkile, Andrea <Andrea.Ferkile@nrc.gov>, Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>, Stratford, Richard J <StratfordRJ@state.gov>, Gergen, Jennifer A <Gergenja@state.gov>, Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>, Doane, Margaret <Margaret.Doane@nrc.gov>, Kron, Arthur S CIV DTSA PD (US) <arthur.s.kron.civ@mail.mil>, Miller, Jennifer J5 <Jennifer.l.miller405.civ@mail.mil>, Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>,(b) (6)
Cc: Maddox, Seth J <MaddoxSJ@state.gov>, Warden, James R <WardenJR@state.gov>, Callery, Allison <CalleryA@state.gov>, Ballerini, Kenneth E. EOP/NSC (b) (6) , Coburn, Benjamin L <CoburnBL@state.gov>, Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>, Turner, Kyler K <TurnerKK@state.gov>, 'Mayros, Lauren' <Lauren.Mayros@nrc.gov>, Quinn, Martin R <QuinnMR@state.gov>, Robbins, Hailey <RobbinsH2@state.gov>, Kang, Eliot <KangE@state.gov>, Andrea_G_Hall (b) (6) (b) (6) , Ford, Christopher A <FordCA@state.gov>, Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>, Strangis, Katie <Katie.Strangis@nnsa.doe.gov>, Norles, Jessica <Jessica.Norles@nnsa.doe.gov>, Reilly, Thomas <Thomas.Reilly@hq.doe.gov>, Brown, Michael <Michael.Brown@hq.doe.gov>, Lucas, John T. <John.T.Lucas@hq.doe.gov>
Subject: KSA —Washington Post

See Business section of Wash Post today
First article
J

State Equity

AMERICAN OVERSIGHT

State Equity

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR) Document 41

From: Williams, JoAnn
Sent: Sunday, February 25, 2018 1:01 PM
To: Fellow, Laura
Subject: RE: KSA —Washington Post

Follow Up Flag: Follow up
Flag Status: Flagged

For the right price !

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Sunday, Feb 25, 2018, 12:36 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: RE: KSA —Washington Post

Would you mind bringing it into the office? Hasn't made it online and I'm not sure I'll have an opportunity to run out and buy one

---

From: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Date: Sunday, Feb 25, 2018, 10:50 AM
To: Orndorff, Sarah <OrndorffS@state.gov>, Ferkile, Andrea <Andrea.Ferkile@nrc.gov>, Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>, Stratford, Richard J <StratfordRJ@state.gov>, Gergen, Jennifer A <Gergenja@state.gov>, Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>, Doane, Margaret <Margaret.Doane@nrc.gov>, Kron, Arthur S CIV DTSA PD (US) <arthur.s.kron.civ@mail.mil>, Miller, Jennifer J5 <Jennifer.l.miller405.civ@mail.mil>, Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>,(b) (6)
Cc: Maddox, Seth J <MaddoxSJ@state.gov>, Warden, James R <WardenJR@state.gov>, Callery, Allison <CalleryA@state.gov>, Ballerini, Kenneth E. EOP/NSC (b) (6) Coburn, Benjamin L <CoburnBL@state.gov>, Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>, Turner, Kyler K <TurnerKK@state.gov>, 'Mayros, Lauren' <Lauren.Mayros@nrc.gov>, Quinn, Martin R <QuinnMR@state.gov>, Robbins, Hailey <RobbinsH2@state.gov>, Kang, Eliot <KangE@state.gov>, Andrea_G_Hall (b) (6) (b) (6) Ford, Christopher A <FordCA@state.gov>, Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>, Strangis, Katie <Katie.Strangis@nnsa.doe.gov>, Norles, Jessica <Jessica.Norles@nnsa.doe.gov>, Reilly, Thomas <Thomas.Reilly@hq.doe.gov>, Brown, Michael <Michael.Brown@hq.doe.gov>, Lucas, John T. <John.T.Lucas@hq.doe.gov>
Subject: KSA —Washington Post

See Business section of Wash Post today
First article
J

AMERICAN OVERSIGHT

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Jalloh, Fatmatu H. (CONTR) Document 42

From: Fellow, Laura
Sent: Friday, February 23, 2018 11:41 AM
To: Goodman, Jac
Subject: RE: Extra seats for KSA mtg at 9

Follow Up Flag: Follow up
Flag Status: Flagged

I'm in the office now.

NNSA Equity

From: Fellow, Laura
Sent: Friday, February 23, 2018 11:39 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>
Subject: RE: Extra seats for KSA mtg at 9

I'm around all day. Sounds like a recipe for disaster.

NNSA Equity

From: Fellow, Laura
Sent: Friday, February 23, 2018 11:23 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>
Subject: RE: Extra seats for KSA mtg at 9

It was a full room of people who knew nothing and had even less to contribute.

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

From: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Date: Friday, Feb 23, 2018, 8:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>
Subject: Extra seats for KSA mtg at 9

Sarah wanted me t let you know in case you wanted to join. There are 3 extra seats in the room.

AMERICAN OVERSIGHT

Jalloh, Fatmatu H. (CONTR)

From: Fellow, Laura
Sent: Friday, February 23, 2018 6:54 AM
To: Kovatch, David (Embassy London)
Subject: RE: Logistics for London 123 agreement negotiation

David,
Thanks for handling all of this for us. I reached out to Sarah yesterday with my travel info, but just to cover bases, I'd be interested in staying with the group at (b) (6) . I arrive the morning of March 2nd and am currently scheduled to depart on March 10.
Laura

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From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Thursday, February 22, 2018 3:38 PM
To: Orndorff, Sarah
Subject: RE: Logistics for London 123 agreement negotiation

Thankfully my travel coordinator is smarter than I am and said she's already on the eCC and passing clearances.

From: Fellow, Laura
Sent: Thursday, February 22, 2018 3:08 PM
To: 'Orndorff, Sarah' <OrndorffS@state.gov>
Subject: RE: Logistics for London 123 agreement negotiation

Sarah,

Thanks for sending. I'd like to get a room at (b) (6) please. I grabbed the same outbound flight as Jennifer (b) (6), (b) (7)(C) March 1, (b) (6), (b) (7)(C) so will expect to check in March 2. Right now I have a flight leaving March 10 as a placeholder.

I'm hoping my travel coordinator knows, but in case she doesn't (and I know I don't) – what is eCC?

Thanks,

Laura

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From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Thursday, February 22, 2018 3:08 PM
To: Orndorff, Sarah
Subject: RE: Logistics for London 123 agreement negotiation

Sarah,

Thanks for sending. I'd like to get a room at (b) (6) please. I grabbed the same outbound flight as Jennifer (b) (6), (b) (7)(C) March 1, (b) (6), (b) (7)(C) so will expect to check in March 2. Right now I have a flight leaving March 10 as a placeholder.

I'm hoping my travel coordinator knows, but in case she doesn't (and I know I don't) – what is eCC?

Thanks,

Laura

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Jalloh, Fatmatu H. (CONTR) Document 46

From: Fellow, Laura
Sent: Thursday, February 22, 2018 3:37 PM
To: Mills, Valerie
Subject: RE: Logistics for London 123 agreement negotiation

NNSA, NA-24 is taking care of the travel. And thank you!

From: Mills, Valerie
Sent: Thursday, February 22, 2018 3:33 PM
To: Fellow, Laura
Subject: RE: Logistics for London 123 agreement negotiation

Laura,

I will take care of the country clearance (eCC) and ask Claude to transfer your clearance. Is GC paying for this travel?

Thanks,

Val

From: Fellow, Laura
Sent: Thursday, February 22, 2018 3:03 PM
To: Mills, Valerie <Valerie.Mills@hq.doe.gov>
Subject: FW: Logistics for London 123 agreement negotiation

Does the reference to eCCs mean anything to you? Also, do you have any thoughts on who I should contact to pass clearances?

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Jalloh, Fatmatu H. (CONTR)

From: Fellow, Laura
Sent: Thursday, February 22, 2018 11:42 AM
To: Orndorff, Sarah
Subject: (b) (5)

Follow Up Flag: Follow up
Flag Status: Flagged

Sarah,

I was wondering if there was any further conversation on Sean's point. I had the same thought, and have been holding off on clearance because of Sean's email.

Thanks,
Laura

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NNSA Equity

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NNSA Equity

State Equity

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

State Equity

AMERICAN OVERSIGHT

State Equity

From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Tuesday, February 13, 2018 11:51 AM
To: Orndorff, Sarah
Subject: State Equity

Eric Fygi is our deputy general counsel. (b) (5)

If you have anything already prepared for higher level briefings that you think might be helpful, we'd be grateful to not have to reinvent the wheel.

State Equity

AMERICAN OVERSIGHT

State Equity

From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Tuesday, February 13, 2018 11:37 AM
To: Orndorff, Sarah <OrndorffS@state.gov>
Subject: RE: State Equity

(b) (6)

(b) (6)

State Equity

AMERICAN OVERSIGHT

From: Fellow, Laura [mailto:Laura.Fellow@Hq.Doe.Gov]
Sent: Tuesday, February 13, 2018 7:44 AM
To: Orndorff, Sarah <OrndorffS@state.gov>
Subject: RE State Equity

I think we've (read: JoAnn) had enough assurances about abilities to make the call from our end, so now we are planning to stay put ☺

From: Fellow, Laura
Sent: Tuesday, February 13, 2018 7:05 AM
To: 'Orndorff, Sarah' <OrndorffS@state.gov>
Subject: RE: State Equity

Sarah,

JoAnn and I are headed your way around 8. If we were not supposed to join you, but to call in from DOE, could you let me know as soon as you get a chance?

Thanks,

Laura

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Thursday, February 15, 2018 10:22 AM
To: Strangis, Katie
Subject: RE: Westinghouse/Brookfield pre-meeting

(b) (6)

NNSA Equity

From: Fellow, Laura
Sent: Thursday, February 15, 2018 10:14 AM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>
Subject: RE: Westinghouse/Brookfield pre-meeting

(b) (6)

NNSA Equity

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NNSA Equity

From: Fellow, Laura
Sent: Thursday, February 15, 2018 9:46 AM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>
Subject: RE: Westinghouse/Brookfield pre-meeting

(b) (6)

NNSA Equity

From: Markus, Stephen
Sent: Thursday, February 15, 2018 9:41 AM
To: Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>

AMERICAN OVERSIGHT

Cc: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>; Postman, Max <Max.Postman@NNSA.DOE.Gov>
Subject: RE: Westinghouse/Brookfield pre-meeting

Good morning, all. Are we still on for a meeting at 10:00? We did not receive a confirmation or location.

Thanks,
Stephen

NNSA Equity

From: Reilly, Thomas
Sent: Wednesday, February 07, 2018 11:30 AM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>
Cc: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>; Postman, Max <Max.Postman@NNSA.DOE.Gov>
Subject: RE: Westinghouse/Brookfield pre-meeting

I defer to Zach and Bruce as well, but 10 works for me and if you are able to come to Forrestal that would be very merry ch appreciated. Thanks.

Tom

NNSA Equity

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From: Reilly, Thomas
Sent: Wednesday, February 07, 2018 11:15 AM
To: Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>
Cc: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>; Postman, Max <Max.Postman@NNSA.DOE.Gov>
Subject: RE: Westinghouse/Brookfield pre-meeting

Hi Katie,

Thanks. I agree. (b) (5)

We're open 2/15, though (b) (6) . (b) (6) but Laura and/or Stephen will be attending.

Tom

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Wednesday, February 07, 2018 11:10 AM
To: Markus, Stephen;Reilly, Thomas
Subject: RE: Westinghouse/Brookfield pre-meeting

Same here.

From: Markus, Stephen
Sent: Wednesday, February 07, 2018 11:03 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: RE: Westinghouse/Brookfield pre-meeting

My schedule is open both days.

Thanks,
Stephen

From: Reilly, Thomas
Sent: Wednesday, February 07, 2018 11:02 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: FW: Westinghouse/Brookfield pre-meeting

Hey,

Well, 2/15 works for me. (b) (6) so, if one or both of you could attend that would be great.

Let me know.

Thanks.

Tom

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Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Wednesday, February 07, 2018 11:02 AM
To: Markus, Stephen;Fellow, Laura
Subject: FW: Westinghouse/Brookfield pre-meeting

Hey,

Well, 2/15 works for me. (b) (6) so, if one or both of you could attend that would be great.

Let me know.

Thanks.

Tom

NNSA Equity

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Friday, April 06, 2018 2:16 PM
To: Strangis, Katie;Sergent, Michael G. (LAB);Stern, Zachary;Postman, Max;Sellen, Joanna (CONTR);margaret@4factorconsulting.com;Figueroa, Jose
Subject: RE: NNSA Equity (Proprietary and Confidential)

In addition to NNSA GC's suggested (b) (5)
(b) (5)

Laura

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Friday, April 06, 2018 1:45 PM
To: Strangis, Katie;Postman, Max
Subject: RE: NNSA Equity (Proprietary and Confidential)

Sure

NNSA Equity

From: Fellow, Laura
Sent: Friday, April 06, 2018 1:33 PM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Postman, Max <Max.Postman@NNSA.DOE.Gov>
Subject: RE: NNSA Equity (Proprietary and Confidential)

Happy to support you however we can.

Do you want me to send a response to the whole group or do you have enough to move forward?

NNSA Equity

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NNSA Equity

From: Fellow, Laura
Sent: Friday, April 06, 2018 10:50 AM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Postman, Max <Max.Postman@NNSA.DOE.Gov>
Subject: RE: NNSA Equity (Proprietary and Confidential)

(b) (5)

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Wednesday, April 04, 2018 2:05 PM
To: Strangis, Katie
Subject: RE: NNSA Equity (Proprietary and Confidential)

(b) (6) I know he's here today, but has been in a meeting for a few hours.

NNSA Equity

From: Fellow, Laura
Sent: Wednesday, April 04, 2018 2:04 PM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>
Subject: RE: NNSA Equity (Proprietary and Confidential)

Oh, sorry – just a very long meeting today.

NNSA Equity

AMERICAN OVERSIGHT

From: Fellow, Laura
Sent: Wednesday, April 04, 2018 1:32 PM

To: Strangis,
Subject: RE: NNSA Equity (Proprietary and Confidential)

<crickets>

He still isn't back yet, but hopefully will be before too long.

NNSA Equity

From: Fellow, Laura
Sent: Wednesday, April 04, 2018 12:31 PM

To: Strangis,
Subject: RE: NNSA Equity (Proprietary and Confidential)

(b) (5)

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Wednesday, April 04, 2018 11:52 AM
To: Postman, Max;Strangis, Katie
Subject: RE: NNSA Equity (Proprietary and Confidential)

Okay, thanks. I'll reach out to him again. (b) (5)

NNSA Equity

NNSA Equity

From: Fellow, Laura
Sent: Wednesday, April 04, 2018 11:49 AM
To: Strangis,
Subject: RE: NNSA Equity (Proprietary and Confidential)

Did Mike Considine ever get in touch with you guys last week?

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Friday, March 23, 2018 3:14 PM
To: Strangis, Katie;Postman, Max;Sellen, Joanna (CONTR)
Subject: FW: Westinghouse Draft Letter (Proprietary and Confidential)

-Zach

Katie, Max and Joanna,

I reached out to Mike Considine regarding the Interim Transaction (b) (5)

Laura

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Greenberg, Craig E. (CONTR)

From: Considine, Michael
Sent: Thursday, March 22, 2018 5:03 PM
To: Fellow, Laura;Telleen, Paul
Subject: RE: Westinghouse Draft Letter (Proprietary and Confidential)

Laura,
(b) (5)

Michael S. Considine
Committee on Foreign Investment in the United States (CFIUS)
Office of International Affairs
U.S. Department of Energy
IA-1 Room 7G-021A (Limited Area)
1000 Independence Ave., SW
Washington, DC 20585
Tel: 202-586-8218 (Unclassified)
Mobile: (b) (6)
michael.considine@hq.doe.gov
SIPRNet: (b) (6)
JWICS: (b) (6)

From: Fellow, Laura
Sent: Thursday, March 22, 2018 2:26 PM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>
Subject: FW: Westinghouse Draft Letter (Proprietary and Confidential)

Gentlemen,
(b) (5)

Thanks,

Laura

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Thursday, March 22, 2018 2:26 PM
To: Considine, Michael;Telleen, Paul
Subject: FW: Westinghouse Draft Letter (Proprietary and Confidential)
Attachments: 2018.03.22 DOE NNSA Letter.docx

Gentlemen,

(b) (5)

Thanks,

Laura

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Thursday, March 22, 2018 2:10 PM
To: Reilly, Thomas
Subject: FW: Westinghouse Draft Letter (Proprietary and Confidential)
Attachments: 2018.03.22 DOE NNSA Letter.docx

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Tuesday, February 06, 2018 3:41 PM
To: Strangis, Katie
Subject: RE: Westinghouse/Brookfield

Emailing for what? Just to get legal support? (b) (5)

NNSA Equity

-----Original Message-----
From: Fellow, Laura
Sent: Tuesday, February 06, 2018 3:39 PM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>
Subject: RE: Westinghouse/Brookfield

Yeah, I'm around. (b) (6) Wednesday before 10 is rough but otherwise I'm flexible. Mike Considine or Paul Telleen should be able to attend and support. They work fairly autonomously so they know way more about the transaction than I do from a CFIUS perspective.

NNSA Equity

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-----Original Message-----
From: Fellow, Laura
Sent: Tuesday, February 06, 2018 3:35 PM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>
Subject: Westinghouse/Brookfield

(b) (5)

Laura Fellow
Office of the General Counsel
Office for International and National Security Programs
U.S. Department of Energy
1000 Independence Ave. SW
Washington, D.C. 20585
Laura.fellow@hq.doe.gov
(202) 586-9538

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Document #2

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Transferred In Full To NNSA For Direct Response To Requestor

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Tuesday, October 10, 2017 1:39 PM
To: Hymer, Christina;McRae, Ben
Subject: RE: Sec. Ross KSA Response language
Attachments: (b) (5) .docx

Hi Ben, Tina,

(b) (5)

Thanks.

Tom

From: Hymer, Christina
Sent: Tuesday, October 10, 2017 1:09 PM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Sec. Ross KSA Response language

Hi Ben,

(b) (5)

Let me know if you have any other concerns.

Tina

From: McRae, Ben
Sent: Tuesday, October 10, 2017 11:04 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: FW: Sec. Ross KSA Response language
Importance: High

Can you review this version. Thanks.

ITA Equity

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ITA Equity

ITA Equity

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ITA Equity

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Greenberg, Craig E. (CONTR)

From: Fellow, Laura
Sent: Tuesday, October 10, 2017 1:22 PM
To: Reilly, Thomas
Subject: RE: Sec. Ross KSA Response language
Attachments: (b) (5) .docx

Tom,

Would a revision like this sit better with you?

Laura

From: Reilly, Thomas
Sent: Tuesday, October 10, 2017 12:21 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: FW: Sec. Ross KSA Response language
Importance: High

Hi Laura,

Can you take a look at the attached?

Thanks.

Tom

From: McRae, Ben
Sent: Tuesday, October 10, 2017 11:04 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: FW: Sec. Ross KSA Response language
Importance: High

Can you review this version. Thanks.

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Document 5

Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Tuesday, October 10, 2017 12:21 PM
To: Fellow, Laura
Subject: FW: Sec. Ross KSA Response language
Attachments: (b) (5) .docx

Importance: High

Hi Laura,

Can you take a look at the attached?

Thanks.

Tom

From: McRae, Ben
Sent: Tuesday, October 10, 2017 11:04 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: FW: Sec. Ross KSA Response language
Importance: High

Can you review this version. Thanks.

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Document 6

Greenberg, Craig E. (CONTR)

From: McRae, Ben
Sent: Tuesday, October 10, 2017 11:02 AM
To: Hymer, Christina;Reilly, Thomas
Subject: FW: Sec. Ross KSA Response language
Attachments: (b) (5) .docx

Importance: High

Thanks for reviewing

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Document 8

Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Thursday, December 14, 2017 3:24 PM
To: Figueroa, Jose
Subject: FW: SA Application NuScale Saudi 810 SA to DOE-GC and NE for first look review
Attachments: LO-0117-57377 Request for Specific Authorization to Engage KA-CARE and KJEU Signed.pdf; 2008 USG KSA MOU.pdf; 11.13.2017-NuScale-Saudi Arabia-NNSA Analysis JMSB MP JMSB.ks.jf GC 53 edits.docx

Hi Jose,

Attached please find our comments on this First Look. (b) (5)
and am happy to discuss further.

Thanks.

Tom

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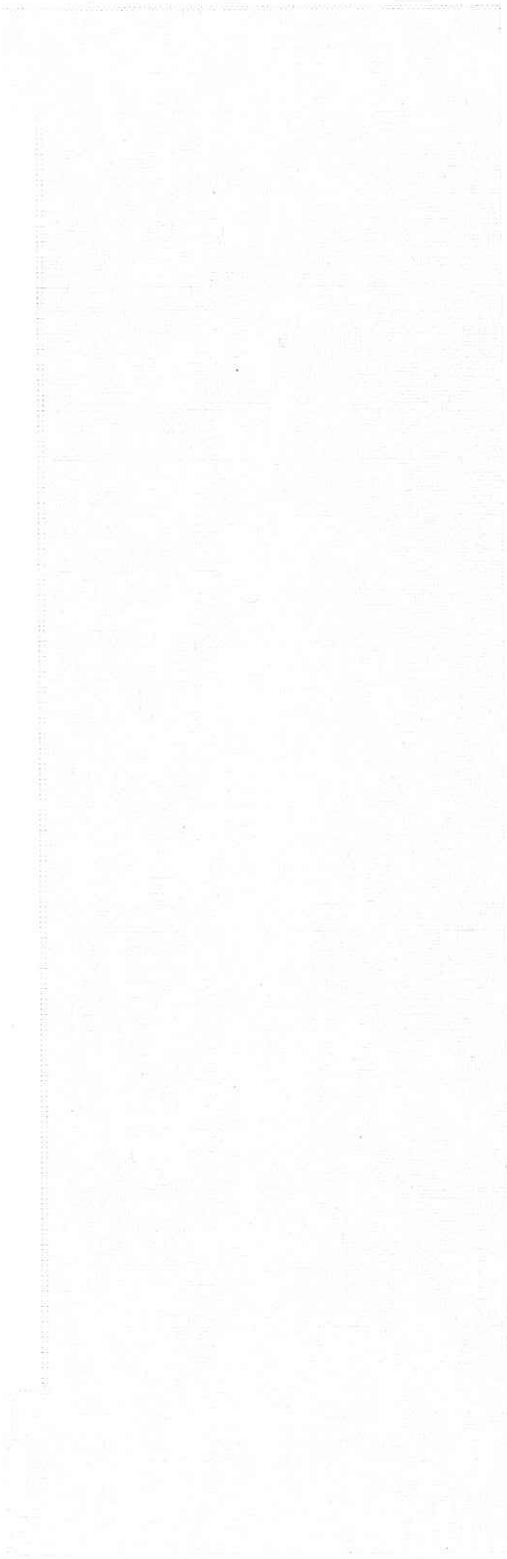

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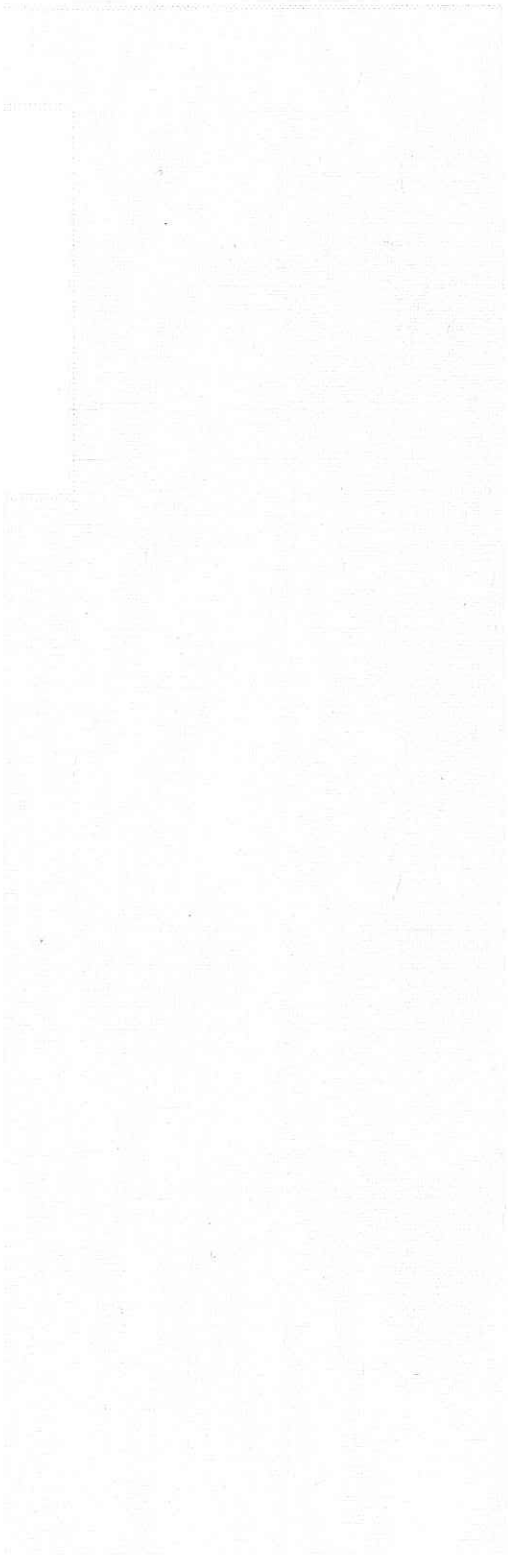

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Document 9

Greenberg, Craig E. (CONTR)

From: Markus, Stephen
Sent: Monday, April 29, 2019 5:22 PM
To: Zogby, Matthew
Subject: Background on Part 810 and nuclear export controls
Attachments: NIA Part 810 Reform report Dec 2017.pdf; NIA Part 810 Reform report Dec 2017 Appendices.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Matt,

(b) (5)

As discussed, the attached paper, (b) (5)

I hope you find this helpful.

Thanks,
Stephen

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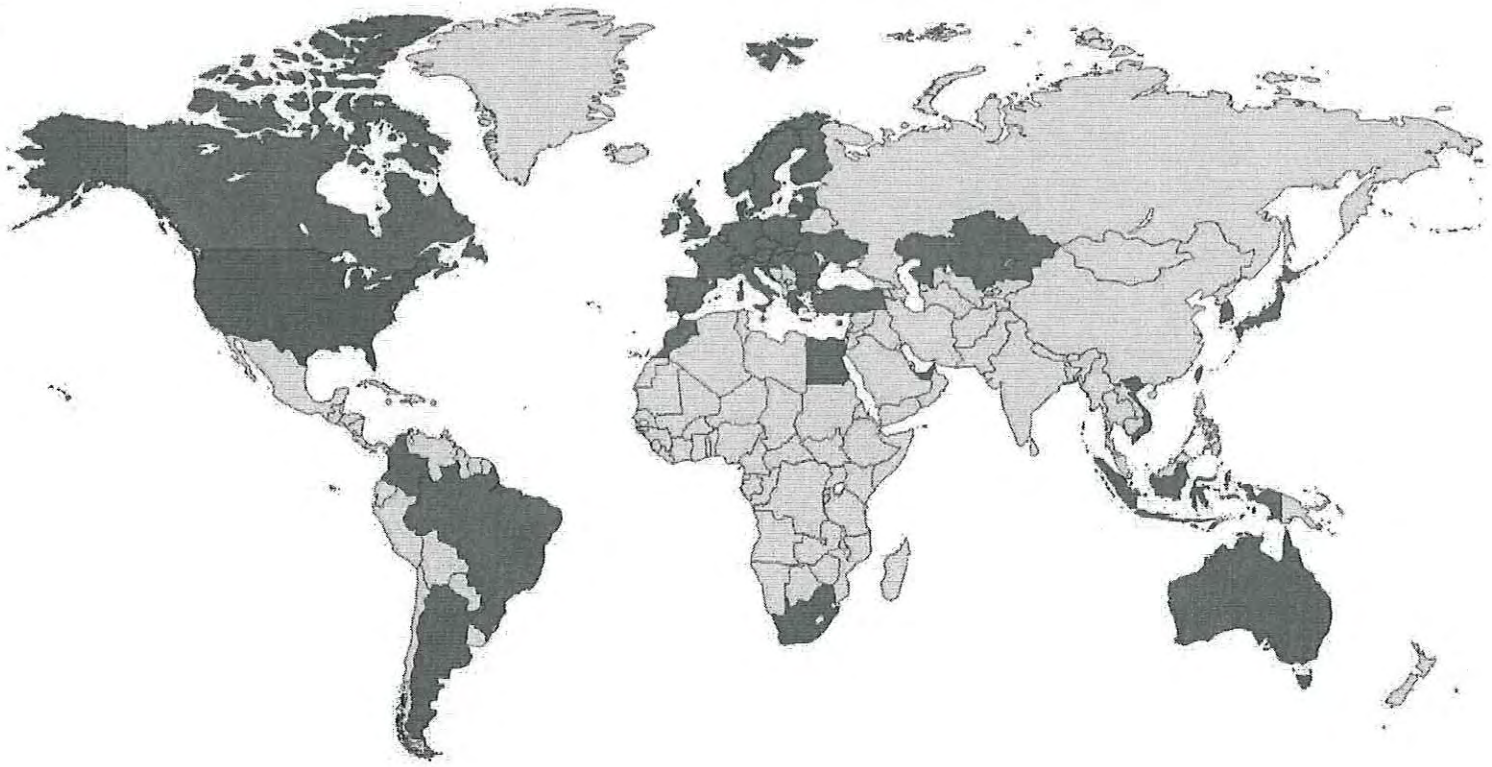
Enabling Nuclear Innovation

Part 810 Reform

Improving the Efficiency of U.S. Export Controls for Nuclear Energy Technologies



A Report by the
Nuclear Innovation Alliance

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Enabling Nuclear Innovation

Part 810 Reform

Improving the Efficiency of U.S. Export Controls for Nuclear Energy Technologies

AUTHOR
Matt Bowen, Ph.D., Nuclear Innovation Alliance



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A Report by the
Nuclear Innovation Alliance

December 2017

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Enabling Nuclear Innovation:
Part 810 Reform
Improving the Efficiency of
U.S. Export Controls for Nuclear
Energy Technologies

December 2017
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This report is available online at:
http://www.nuclearinnovationalliance.org/part810reform

DESIGN
David Gerratt/*NonProfitDesign.com*

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DISCLAIMER

This report does not represent a legal opinion, nor does it offer advice of counsel for the Nuclear Innovation Alliance. Readers should consult with counsel for legal advice and direction, and with the National Nuclear Security Administration, a component of the U.S. Department of Energy, to obtain guidance on activities subject to the regulations discussed in this report.

No individuals were asked to concur with the conclusions or recommendations in this report. All remaining errors are the responsibility of the author alone.

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EXECUTIVE SUMMARY

THE U.S. ENERGY INFORMATION Administration (EIA) projects that by 2050 countries around the world will add almost 200 gigawatts of new nuclear energy capacity.[1] Those construction projects will entail the flow of new nuclear materials, services, and equipment to a number of countries that currently do not possess significant nuclear power programs. A growth in nuclear energy use offers major commercial opportunities for nuclear reactor companies and carries implications for the global nonproliferation regime. As Table 1 shows, most of the expected deployments are projected to take place in countries that are not members of the Organisation for Economic Co-operation and Development (OECD).

In the United States, this intersection of business and national security takes place under the U.S. Department of Energy (DOE) 10 CFR Part 810 (Part 810) regulations.

Before the first reactors are under construction, however, supplier nations typically share proprietary information on their reactor designs with potential customer nations. These transactions may be the first technology transfers where the government of a supplier nation will have to consider the commercial and nonproliferation implications of broader nuclear energy cooperation with a first-time nuclear energy customer nation. Even between countries where nuclear trade has been ongoing for decades, new transactions such as these may pose unique and complex challenges.

In the United States, this intersection of business and national security takes place under the U.S. Department of Energy (DOE) 10 CFR Part 810 (Part 810) regulations, which control the flow of unclassified nuclear energy technology and assistance to foreign atomic energy activities. These regulations and their implementation are the subject of this report.

Activities regulated by Part 810 are largely divided between those that are generally authorized —that is, companies do not have to ask the U.S. government for permission—and those that require specific authorization from the Secretary of Energy. In recent years, U.S. officials have taken longer to process applications for specific authorization (see Figure 1) to the point where industry has stated that it constitutes a "significant competitive disadvantage" for U.S. companies.[2] DOE has recognized this issue and begun a process improvement plan; however there are challenges associated with Part 810 reform that may need assistance from Congress and industry.

In the 1990s, specific authorizations took on average 130 days from receipt of the application by DOE to final approval by the Secretary of Energy. As Figure 1 shows, applications for specific authorization in more recent years are taking an average of close to 400 days to complete the process. One contributing factor to the increased processing time is a change in processing structure at DOE: previous to 2005, specific authorizations were signed by the Secretary of Energy "subject to the receipt of

1 EIA, "International Energy Outlook 2017."

2 Comments of Nuclear Energy Institute, DOE Supplemental Proposed Rule, November 27, 2013. Page 10.

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TABLE 1
EIA Projections for Additional Nuclear Energy Capacity by Region (capacity in gigawatts)

Region	2015	2030	2050	Change from 2015 to 2050
OECD Countries	256	259	200	-56
Non-OECD Europe and Eurasia	42	57	56	+14
Non-OECD Asia	39	124	231	+192
Non-OECD Americas	4	6	5	+1
Africa	2	4	6	+4
Middle East	1	12	17	+16
Total	**343**	**462**	**516**	**+173**

Source: EIA, "International Energy Outlook 2017," Table H5.

assurances" from foreign governments. This allowed the U.S. government to process applications for specific authorization while seeking assurances from foreign governments. The pre-2005 process was more efficient and facilitated a swifter response to U.S. companies whose applications were pending.

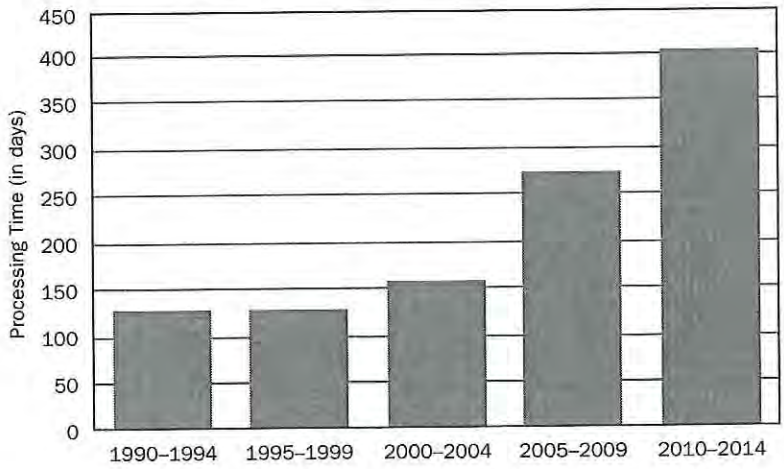
Government to government assurances are requested as part of each specific authorization.[3] The United States is obligated, as part of its adherence to the Nuclear Suppliers Group (NSG) Trigger List Guidelines, to obtain two types of assurances for nuclear technology transfers. These obligations require 1) assurances of peaceful uses for transferred technology and 2) assurances regarding any subsequent retransfer of the supplied technology.[4] The major nuclear supplier nations are also members of the NSG, and thus U.S. competitors have the same obligations to obtain assurances for nuclear energy technology transfers.

The current uncertainty in application processing times is challenging for U.S. companies as the application process may take 200 days or it may take 600 days or longer. One source of that uncertainty is that the U.S. government cannot control the response time of foreign governments supplying the requested assurances regarding peaceful uses and retransfers. In some cases, foreign governments have taken more than two years to supply the requested assurances.

When compared to other major supplier export control regimes, Part 810 is more efficient regarding activities that are generally authorized, but less efficient in some cases regarding specific authorizations. A 2012 report examined the export control regimes of foreign competitors—the Republic of Korea (ROK), Russia, Japan, and France—and noted that the stated periods in which government entities were required to process export control applications were 15 days, 25-45 days, 90 days, and nine months, respectively. If these periods correspond even roughly with actual specific authorization application processing speeds, then these nations are significantly faster than the specific authorization process under Part 810. Furthermore, it is likely that some other major suppliers are able to obtain approvals or denials in a shorter period of time than Part 810 specific authorizations, due to the fact that many suppliers are state-owned.

Other federal regulatory regimes offer potential templates for improving the efficiency of Part 810.

FIGURE 1
Average Processing Times for Specific Authorization Applications



Source: DOE reading room.

3 The one exception is the hiring of foreign nationals by U.S. companies, which is discussed in Chapter III.

4 See *http://www.nuclearsuppliersgroup.org* for the most recent documentation.

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The U.S. Nuclear Regulatory Commission (NRC), for example, regulates the export of nuclear material and equipment under the 10 CFR Part 110 (Part 110) regulations. These regulations have a more risk-informed structure than Part 810 and include many different categories of exports, multiple country lists, processing structures, and levels of review depending on the significance of the proposed export. Some export applications are sent to the NRC commissioners for review, while others are not; likewise, some applications are sent to the Executive Branch for its views, based on a de facto assessment of risk or policy significance, while other applications are not. By contrast, the Secretary of Energy's attention and signature is currently required for even minor applications and amendments under Part 810; this process adds weeks or even months of additional processing time, often with no clear benefit.

The NRC has established a general license for minor reactor components to countries "sharing U.S. nonproliferation goals" and which had supplied the United States with generic assurances—in other words, certain minor exports have been expedited to countries with good nonproliferation credentials.

The NRC has also established a general license for minor reactor components to countries "sharing U.S. nonproliferation goals" and which had supplied the United States with generic assurances. In other words, certain minor exports have been expedited to countries that have demonstrated their nonproliferation credentials. This was done in part to reduce the regulatory burden on U.S. companies and NRC staff, but also to benefit U.S. nonproliferation objectives by demonstrating to other countries the advantages of supporting nonproliferation policies.

Likewise, the U.S. government should establish "fast track" approval pathways under Part 810 for countries that have made and are maintaining significant nonproliferation commitments (see Appendix A for an example list of possible countries and criteria). One criterion for determining which countries qualify for fast track eligibility could be previous authorizations under Part 810, which clearly indicate U.S. intent to cooperate on nuclear energy. Such a criterion would be similar to how the NRC exempts review by the NRC commissioners in some cases for subsequent Part 110 exports to a country or reactor after an initial export. A new "fast track" approval pathway would also need to identify eligible activities: for example, light-water reactor (LWR) technology could be given expedited consideration, considering its widespread deployment and availability from multiple suppliers.

China, India, and Russia are the only countries that have nuclear cooperation agreements in place with the United States, and yet are not generally authorized destinations under Part 810, owing to various geostrategic considerations. U.S. companies have required specific authorization to work with Chinese and Russian entities since the regulations were first issued in 1956, and with Indian entities since 1983. China is projected to build more than half of new global nuclear generation capacity over the next three decades, making it the most attractive market for nuclear companies worldwide to seek business opportunities. The U.S. government is concerned with technology transfers to China, however, for reasons that include: China's nuclear energy cooperation with Pakistan, whether or not China is maintaining its nonproliferation commitments, intellectual property issues, and potential diversions of civil nuclear energy technologies to military activities (e.g., naval reactor programs).

The following actions (discussed in greater detail in Chapter VI) are recommended[5] to improve the efficiency of U.S. export control regarding nuclear technology transfers and other unclassified assistance to foreign nuclear energy programs:

Recommendation 1: *DOE should initiate a rulemaking to establish two fast track authorization pathways for specified activities in countries that have made significant nonproliferation commitments. One authorization should focus on applications that need government to government assurances, and a second should involve applications that do not require such assurances. In both cases, DOE should establish the types of activities that qualify for fast track approval,*

5 This report does not represent a legal opinion, nor does it offer advice of counsel for the Nuclear Innovation Alliance. Readers should consult with counsel for legal advice and direction, and with the National Nuclear Security Administration, a component of the U.S. Department of Energy, to obtain guidance on activities subject to the regulations discussed in this report.

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along with a list of countries eligible for expedited consideration.

The Part 810 regulations already include a type of fast track authorization for operational safety activities in Section 810.6(c)(2). This section provides authorization for furnishing "operational safety information or assistance to existing safeguarded civilian nuclear reactors outside the United States in countries with safeguards agreements with the International Atomic Energy Agency (IAEA) or an equivalent voluntary offer, provided DOE is notified in writing and approves the activity in writing within 45 days of the notice." Given the type of activity (operational safety assistance to IAEA safeguarded reactors) and type of destination (countries with safeguards agreements with the IAEA or an equivalent voluntary offer) the expectation is that a given application will be approved, though the process still affords the U.S. government an opportunity to review and potentially reject the application.

Following the model in Section 810.6(c)(2), the new pathways would allow companies to notify DOE that they are intending to pursue specific activities and if they do not hear back from DOE after a specified amount of time (e.g., 45 days), the activity would be deemed to be approved (pending receipt of assurances for authorizations where they are needed).

Recommendation 2: *The White House should issue an Executive Order that affirms the importance of efficient processing of Part 810 applications to U.S. commercial and national security interests, and directs improvements toward that aim.*

As a model, the new Executive Order should look to Executive Order 12981, which governs the export of dual-use items. Executive Order 12981 set out timelines for agency actions, as well as provisions for handling incomplete applications and establishing mechanisms to resolve interagency disputes.

The Executive Order for Part 810 should state that it is the policy of the U.S. government to continue processing applications for specific authorization while government assurances are being sought (for the cases where assurances are necessary).

Recommendation 3: *For specific authorization applications, DOE should return to the pre-2005 process under which the Secretary of Energy signs determinations subject to the receipt of assurances. At a minimum, DOE should continue to process Part 810 packages while the interagency review process is ongoing and assurances are being sought by the State Department, so that applications are before the Secretary of Energy and ready to be signed as soon as possible upon receipt of the assurances.*

Returning to the pre-2005 policy, under which the Secretary signs determinations subject to the receipt of assurances, would provide U.S. companies an earlier notification that the U.S. government has approved the activity, pending the receipt of foreign government assurances. This would reduce uncertainty for U.S. businesses and accelerate specific authorization approvals without a reduction in nonproliferation controls.

Recommendation 4: *The DOE Offices of Nonproliferation and Arms Control, Nuclear Energy, and Intelligence should prepare a classified report analyzing the risks and benefits of nuclear energy technology transfers with China to provide a framework for future internal U.S. government discussions.*

An assessment of the nuclear energy technologies available and being supplied to China from other countries (e.g., Russia, France, Japan), along with China's own independent R&D progress, would provide additional context for a balanced accounting of the risks and benefits associated with specific authorizations to China.

DOE should return to the pre-2005 process under which the Secretary of Energy signs determinations subject to the receipt of assurances. This would reduce uncertainty for U.S. businesses and accelerate specific authorization approvals without a reduction in nonproliferation controls.

Recommendation 5: *The U.S. Department of State should seek generic assurances from countries, where possible, to cover transfers under Part 810 before applications for export are submitted.*

The U.S. government should seek generic assurances from individual countries for some of the more minor exports under Part 810. DOE could then process applications to countries more quickly, perhaps in combination with a fast track approval process, as the assurances step would already be completed.

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Recommendation 6: *DOE should re-examine its legal position that delegation of authority by the Secretary of Energy for activities under Section 57b is prohibited by Section 161n of the Atomic Energy Act of 1954 (AEA), as amended.*

The Secretary of Energy currently signs off on every new specific authorization, no matter how minor, as well as extensions and minor amendments to existing authorizations, because of DOE's legal interpretation of Section 161n as prohibiting delegation by the Secretary to others. This adds weeks, if not months, to the processing of specific authorization applications with no obvious benefit. It is difficult to see why the Secretary of Energy's attention is needed or useful in any way for approving the hiring of foreign nationals, minor amendments to existing authorizations, renewals of authorizations, or other relatively technical or small-scale activities, such as operational consultations to existing LWRs under IAEA safeguards.

The delegation of minor activities by the Secretary of Energy and an expedited review for activities of lesser significance are both consistent with nuclear export control practices elsewhere in the federal government.

For comparison, the NRC Commissioners do not review most applications for the export of materials and equipment under the NRC's Part 110 regulations, and the NRC does not send most Part 110 applications to the Executive Branch for review. In other words, the delegation of relatively minor activities by the Secretary of Energy and an expedited review for activities of lesser significance, are both consistent with nuclear export control practices elsewhere in the federal government.

Recommendation 7: *If DOE continues in its determination that delegation of authority by the Secretary of Energy for activities under Section 57b is prohibited by Section 161n, Congress should amend Section 161n of the AEA to permit delegation, recognizing the very different global reality today as compared with 1954, as well as the minor activities that are currently being sent to the Secretary of Energy.*

Recommendation 8: *Advanced reactor companies that intend to pursue work with foreign entities should engage DOE on Part 810 early in a similar manner to the pre-application interactions with the NRC on reactor design licensing.*

Early engagement between advanced reactor companies and DOE would familiarize the U.S. government with the technologies involved and also the end users under consideration. These interactions would provide early feedback to U.S. reactor companies on potential challenges with specific destinations and end users, as well as any concerns with the reactor technology itself.

Recommendation 9: *Industry should create a forum to share Part 810 experiences for the purpose of raising the quality of applications that are submitted to DOE.*

Companies that are new to the Part 810 process would especially benefit from hearing more experienced companies explain what information the U.S. government needs to process applications. This should help to cut down on processing times and reduce the resources expended by both private companies and the U.S. government.

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CHAPTER I

INTRODUCTION TO PART 810

THIS INTRODUCTORY CHAPTER explains what types of activities are covered under the Part 810 regulations, though there are cases where this is less clear and DOE is the final arbiter. Companies can request a policy determination from DOE, and may also seek a legally binding view from the General Counsel of the DOE. The regulations themselves, along with federal government processing structures, are subject to change, and individuals and companies should consult DOE for the latest updates.[6]

Part 810 regulates, for example, the transfer of technology associated with steps in the nuclear fuel cycle for uranium and plutonium. The list of activities described in 10 CFR Part 810.2(b), includes (but is not limited to): chemical conversion, fuel fabrication, isotope separation, and reprocessing of irradiated nuclear fuel or targets. Nuclear reactors are also covered, including the "development, production or use of the components within or attached directly to the reactor vessel, the equipment that controls the level of power in the core, and the equipment or components that normally contain or come in direct contact with or control the primary coolant of the reactor core." U.S. companies and individuals working in these areas of technology and with entities from other countries will likely find their work covered by the Part 810 regulations.

Section 810.2(c) describes activities that Part 810 does not apply to, including: transfer of publicly available information or the results of fundamental research, uranium and thorium mining, fusion reactors, and others. Where Part 810 does apply, activities can largely be separated into two groups: those activities that are generally authorized and those that require specific authorization by the Secretary of Energy.

A. General Authorizations and Specific Authorizations

If an activity is generally authorized, a U.S. company does not have to ask the U.S. government for permission to carry out the activity and has only to submit a report to DOE within 30 days of the activity taking place.[7]

To take a specific instance, Canada is a generally authorized destination listed in Appendix A to Part 810, and LWR technology is not listed as requiring specific authorization in Section 810.7(c). Thus, the transfer of a non-public, proprietary U.S. LWR design to Canada would be generally authorized. The same transfer to China, however, would require specific authorization from the Secretary of Energy, as China does not appear in the Part 810 Appendix A country list.

Figure 2 shows a map of the countries that are generally authorized destinations and those that are not. It is current U.S. government policy that having a nuclear cooperation agreement[8] with another country is a necessary, but not sufficient,

6 This report does not represent a legal opinion, nor does it offer advice of counsel for the Nuclear Innovation Alliance. Readers should consult with counsel for legal advice and direction, and with the National Nuclear Security Administration, a component of the U.S. Department of Energy, to obtain guidance on activities subject to the regulations discussed in this report.

7 Reports submitted by companies on generally authorized activities are not publicly available. Appendix B, available online, shows a list of generally authorized activities that were reported in 1981-1982. Data supplied by DOE/NNSA in response to a Freedom of Information Act (FOIA) request by the Clean Air Task Force, and shared with the author, showed 464 general authorization entries in just over a nine-month period (July 20, 2016 to May 8, 2017). The countries with the most general authorization entries during this time period were (in descending order): the UAE, Canada, Japan, the UK, France, Mexico, and the ROK. During the same period, 39 reports for specifically authorized activities were recorded.

8 Appendix C, which is available online, shows existing U.S. nuclear cooperation agreements as of November 2017.

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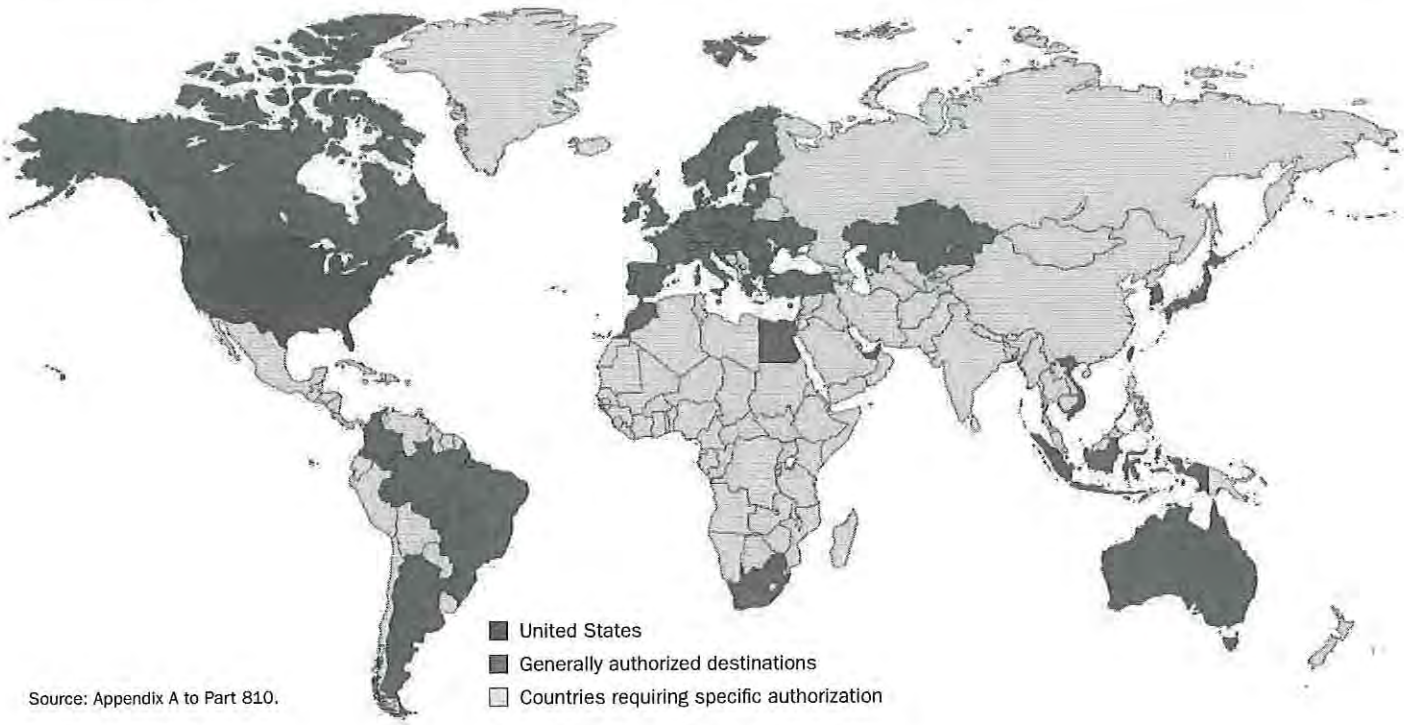
FIGURE 2
Generally Authorized Destinations and Countries Requiring Specific Authorization



Source: Appendix A to Part 810.

condition for the country to be a generally authorized destination. Currently, the only countries with which the United States has a nuclear cooperation agreement in place, but are not generally authorized destinations, are Russia, China, and India. These nations are discussed in greater detail in Chapter V.

Even if a U.S. company is intending to work with an entity from a generally authorized country, it may still need to get specific authorization from the Secretary of Energy if the work involves any of the technology categories described in Section 810.7(c): enrichment, fuel fabrication containing plutonium, heavy-water production, production accelerator-driven subcritical assembly systems, production reactors, and reprocessing.

While U.S. companies will usually require specific authorization from the Secretary of Energy to do work with entities from countries not listed in Appendix A to Part 810, there are exceptions. Sections 810.6(b)-(g) describe activities that would be generally authorized, even if they involve entities from countries that are not generally authorized destinations. For example, Section 810.6(d) authorizes participation in exchange programs approved by the U.S. Department of State in consultation with DOE, and could involve Russian or Chinese individuals.

Figure 3 organizes general authorizations and specific authorizations based on the destination country and the type of activity.

One special case of "technology transfers" under Part 810 involves the hiring of foreign nationals by U.S. companies, even when those individuals are living in the United States. A DOE document describes these "deemed exports" thusly: "The export of controlled information to a foreign country is deemed to have taken place when technology is disclosed to a foreign national of that country, located anywhere. Thus, for example, the disclosure of nuclear reactor technology to a Chinese citizen in the United States is deemed to be an export to China for purposes of the rule."

For activities that require specific authorization from the Secretary of Energy, U.S. persons and companies must submit an application to the DOE that describes the proposed activity and then wait for the U.S. government to grant or deny the authorization. As DOE has noted,[9] the time taken by the U.S. government to process specific authorization applications has been of concern to U.S. companies,

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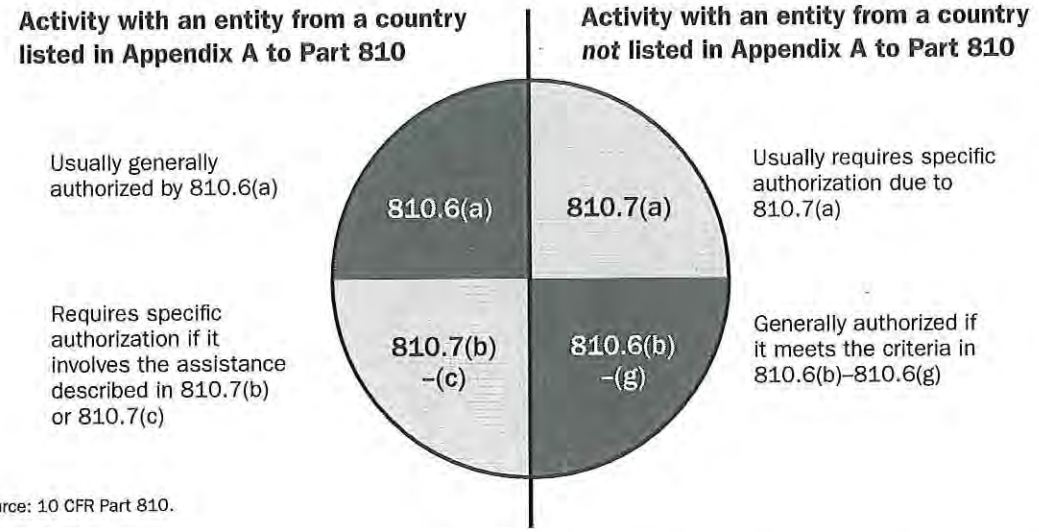
FIGURE 3
Diagram of General Authorizations and Specific Authorizations by Activity



Source: 10 CFR Part 810.

and this worry has been reflected in industry comments on Part 810.[10]

DOE has initiated a process improvement plan to help address the long processing times.[11] Delays in the specific authorization could potentially push customers to other supplier nations, even if a country would otherwise prefer to work with a U.S. company. For that reason, the specific authorization process has received the most public scrutiny in recent years, and much of the rest of this report focuses on reducing the time taken by the U.S. government to give U.S. companies a yes or no answer.

B. Role of Part 810 in Nuclear Energy Commerce and Nonproliferation

DOE's economic analysis from 2015 quoted 72 specific authorizations during the 2009-2012 time period that had dollar values reported, with a combined total worth of $13.6 billion. Nine of those authorizations were for values of at least $1 billion. As the economic analysis states:

> In general, these transactions are associated with power reactor projects either in the planning or construction stages. Once foreign reactors are complete, technology transfer transactions tend to be much smaller in dollar volume.

A slow or inefficient Part 810 application process does not help industry in competing with foreign companies. With the withering of the U.S. domestic market for reactor builds, and the projected large growth in nuclear energy generation in non-OECD countries, shown in Figure 4, U.S. companies will

9 78 Fed. Reg. 46829: "The Department acknowledges commenters' concerns that the timeframe for issuance of specific authorizations can impose business risks for companies seeking to make nuclear exports requiring specific authorization." 80 Fed. Reg. 9359: "... many NOPR commenters were concerned that the part 810 specific authorization process is unduly protracted, and that processing delays put U.S. suppliers at a competitive disadvantage with companies in other countries."

10 From the Nuclear energy Institute comments on the 2011 notice of proposed rulemaking: "Currently, the DOE consumes anywhere from six months to well over one year to process a typical specific authorization. In some cases, application reviews have approached two years."

11 78 Fed. Reg. 46829: "DOE is initiating a process quality improvement program to make the processing of part 810 applications more orderly, expeditious, effective, and transparent." 80 Fed. Reg. 9359: "Anticipated improvements in the processing time of part 810 applications that may come from the PIP [process improvement program] include these recommended actions from commenters: ... Reduce application processing time—This effort will begin by DOE analyzing the authorization case database to determine causes of processing time variation and undue delay. The PIP team will conduct benchmark studies to identify best practices and methods to improve efficiency. The team will work with the DOS to find ways to request and secure foreign governments' nonproliferation assurances more promptly, and make internal DOE and interagency reviews of part 810 specific authorization applications more efficient by reducing unnecessary reviews and approvals."

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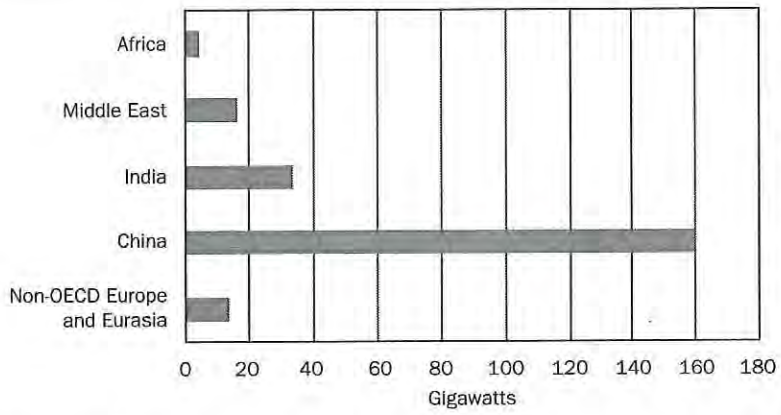
FIGURE 4
Growth of Nuclear Energy in Selected Non-OECD Regions



Projected additions to regional nuclear energy capacity between 2015 and 2050.

Source: EIA, "International Energy Outlook 2017," Table H5.

increasingly depend on business in other countries. This further means that U.S. contributions to the reactor design innovation to improve people's quality of life and reduce air pollution and greenhouse gas emissions will depend in part on efficient access to

While nuclear energy is growing on a global scale, almost all of the projected increases in nuclear generation capacity are expected to take place outside of the United States.

foreign markets. More than 9 GW of new nuclear capacity came online in 2016, the largest annual increase in more than 25 years.[12] While nuclear energy is growing on a global scale, almost all of the projected increases in nuclear generation capacity are expected to take place outside of the United States.

The other major suppliers of nuclear reactors (e.g., Russia, France, Japan, ROK, and China) together possess the full suite of nuclear technologies several times over: conversion, enrichment, fuel fabrication, reactors, and reprocessing. In other words, the United States does not have a monopoly over any aspect of the civil nuclear energy realm.

All of these major suppliers are members of the NSG, a group of countries that "seeks to contribute to the non-proliferation of nuclear weapons through the implementation of two sets of Guidelines for nuclear exports and nuclear-related exports." As a result, they all face the same supplier obligations as the United States, in terms of export control, and the rules in the NSG Trigger List Guidelines make it relatively clear what conditions will qualify countries for the transfer of nuclear reactor technology.[13]

For example, when the UAE released a policy statement in 2008 regarding its plans for a nuclear power program, it had already met the major condition in paragraph 4(a) of the NSG Trigger List Guidelines for the supply of power reactor materials, equipment, and technology.[14] Specifically, it had a comprehensive safeguards agreement with the IAEA in place, after having acceded to the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) in 1995. In the same 2008 policy statement, the UAE also announced its intention to adopt the IAEA's Additional Protocol—to provide even more transparency into its nuclear program—which entered into force in 2010. Following the 2008 policy statement, the UAE entertained power reactor bids from major suppliers, and eventually selected the ROK to build four reactors (totaling 5.6 GW) at a cost of $20B.[15] The UAE clearly had access to reactor technology from multiple supplier nations outside of the United States, even if the United States had ultimately decided not to do business with the UAE. The same will be true for other nations that meet the criteria in the NSG Trigger List Guidelines, if they decide to pursue nuclear power programs in the future.

Part 810 serves a variety of critical functions for the U.S. government. Its implementation fulfills U.S. obligations as a member of the NSG and as a country party to the NPT. Part 810 can prevent U.S. suppliers from unknowingly transferring technology to a foreign entity that could ultimately be diverted to a military purpose. It also serves the strategic function of regulating U.S. engagement

12 World Nuclear Association, "World Nuclear Performance Report 2017."

13 The NSG Trigger List deals with export controls for nuclear-specific items, such as reactors, reprocessing and enrichment facilities, fuel fabrication, conversion, etc. See Chapter II for more details. The NSG Dual-Use List deals with items that have both a nuclear use and a non-nuclear use, and is thus not as relevant for Part 810.

14 *http://www.uae-embassy.org/sites/default/files/UAE_Policy_Peaceful_Nuclear_Energy_English.pdf*

15 *http://www.world-nuclear.org/information-library/country-profiles/countries-t-z/united-arab-emirates.aspx*

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in the development and evolution of the global nuclear energy and nonproliferation regime, along with the NRC and U.S. Department of Commerce (DOC) regulations for the export of nuclear materials, equipment, and dual-use items (discussed in Chapter IV). If the Part 810 process is too slow, however, it can limit U.S. influence by preventing U.S. companies from spreading U.S. safety, security, and nonproliferation culture to other countries' nuclear energy programs. An inefficient process can delay innovative nuclear energy technologies from advancing and thus stall progress in building a low-carbon, clean energy future.

Chapter II will focus on the historical context for and evolution of the Part 810 regulations, along with multilateral commitments the U.S. has made that any reforms to the Part 810 regulations must respect. Chapter III provides an analysis of historical specific authorizations, including estimated processing times in the steps that make up the current specific authorization process. Chapter III also examines a comparison with other major suppliers' analogous export control functions. Chapter IV looks at the nuclear export control regimes of the NRC and the DOC, and in particular what elements of those regulatory regimes could be borrowed to improve the efficiency of Part 810. Chapter V discusses the geostrategic considerations that factor into Part 810 challenges with three major nuclear supplier countries: China, India, and Russia. Finally, Chapter VI presents recommendations to the Executive Branch, Congress, and industry for reforming and improving the Part 810 regulations and their implementation.

An inefficient process can delay innovative nuclear energy technologies from advancing and thus stall progress in building a low-carbon, clean energy future.

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CHAPTER II

HISTORICAL CONTEXT

THE LEGAL BASIS FOR THE PART 810 regulations derives from Section 57 of the AEA, as amended. The Part 810 regulations themselves have changed a great deal over the past 60 years.[16] During that time, the United States has made two principle multilateral commitments that are relevant to the Part 810 regulations: ratifying the NPT and adherence to the NSG Trigger List Guidelines.[17]

A. Statutory Basis and Evolution of Part 810 Regulations

Originally, U.S. persons were prohibited from assisting foreign atomic energy programs by the Atomic Energy Act of 1946. In 1954, President Eisenhower wrote to Congress to request that the Atomic Energy Commission (AEC) be allowed to regulate such assistance.[18] Congress agreed to this request as part of the AEA.[19] Section 57 (a) of the AEA stated:

> It shall be unlawful for any person to—... (3) directly or indirectly engage in the production of any special nuclear material outside of the United States except (A) under an agreement for cooperation made pursuant to section 123, or (B) upon authorization by the Commission after a determination that such activity will not be inimical to the interest of the United States.

This then gave the AEC the authority to regulate the involvement of U.S. entities in foreign atomic energy endeavors. As it was deemed to be an important function, Section 161 of the AEA prohibited the AEC from delegating these functions. Today the Secretary of Energy is still considered by DOE to be prohibited from delegating Part 810 actions on account of the language in Section 161 of the AEA, as amended, even after the abolishment of the AEC and the reorganizations that took place in the 1970s.

In 1956, the AEC published the first regulations for "unclassified activities in foreign atomic energy programs" as the 10 CFR Part 110 regulations (they did not become the 10 CFR Part 810 regulations until 1975).[20] The regulations stated that as long as the assistance involved only unclassified information and was to a region not under Communist control, U.S. companies and persons were generally authorized to conduct their business without having to ask the U.S. government for permission. If a U.S. company wanted to do business in the 15 Communist regions or nations, however, it would have to submit an application to the AEC for specific authorization.

In 1972, the 10 CFR Part 110 regulations added a list of technology-specific activities that would require a specific authorization regardless of which country they were to take place in.[21] Any assistance involving enrichment, reprocessing, and heavy-water technologies to any country would require specific authorization from the U.S. government.

16 The sub-Chapter on the history of the Part 810 regulations is derived from Appendix E, which is available online.

17 The sub-Chapter on the NPT and NSG is derived from Appendix F, which is available online and provides a greater level of detail.

18 Document No. 328, 83rd Congress, 2nd Session. Message from the President of the United States transmitting recommendations relative to the Atomic Energy Act of 1946. February 17, 1954.

19 The Atomic Energy Act of 1954. Public Law 83-703.

20 21 Fed. Reg. 418–419, 1956.

21 37 Fed. Reg. 92, Proposed Rule, 1972; 37 Fed. Reg. 14870, Final Rule, 1972.

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A 1977 rulemaking raised to 19 the number of countries or areas that would require specific authorization to work in. It also added "fabrication of nuclear fuel containing plutonium" to the list of technology-specific activities that would require specific authorization regardless of the country.

The Nuclear Nonproliferation Act of 1978 (NNPA) had several substantial impacts on the Part 810 regulations.[22] The NNPA amended the AEA to require the concurrence of the U.S. Department of State and consultations with the DOC, the NRC, and the U.S. Department of Defense (DOD).

The NNPA also defined a new term—"sensitive nuclear technology" (SNT)—that would appear for the first time in a 1983 Part 810 rulemaking. SNT was defined as information not available to the public and important to the design, construction, fabrication, operation or maintenance of enrichment, reprocessing, or heavy-water facilities. Stringent conditions were imposed on exports of SNT. To cite a recent example, in order to exchange electrochemical recycling technology with ROK, the United States and the ROK entered into an agreement to satisfy the criteria in sections 127 and 128 of the AEA.[23]

The Part 810 rulemaking in 1983 also explained that whether a country was party to the NPT would constitute a new and major criterion for general authorization status. As many countries were still not yet party to the NPT, the final rule listed 62 countries that would then require specific authorization.

The number of countries which would require specific authorization fell to 52 in the 1986 rule "by eliminating a number of non-nuclear weapon states which have become parties to the . . . NPT." The 1986 rulemaking also added "production reactors" to the list of technology-specific activities that would require specific authorization for assistance to any country.

In 1995, a rulemaking recognized the nonproliferation commitments made by Argentina, Brazil, Chile, and South Africa and these four countries became generally authorized destinations.[24]

A 2000 rulemaking[25] added the requirement that NNWS have full-scope safeguards agreements in place with the IAEA to qualify as generally authorized,[26] and so the number of countries requiring specific authorization grew from 48 to 75 (this change followed a change in the NSG described below). The 2000 rulemaking also added "accelerator-driven subcritical assembly systems" to the list of technology-specific activities requiring specific authorization for transfers to all countries.

In 2004, Congress passed the Intelligence Reform and Terrorism Prevention Act of 2004,[27] which changed the relevant language in Section 57 to:

> directly or indirectly engage *or participate* in the *development or* production of any special nuclear material [emphasis added]

TABLE 2
Countries and Technology Categories Requiring Specific Authorization, 1956–2015

Year	The number of countries or regions requiring specific authorization	The number of technology categories mentioned that required specific authorization to transfer to any country
1956	15	0
1972	16	3
1977	19	4
1983	62	4
1986	52	5
1995	48	5
2000	75	6
2015	149	6

Source: See the Federal Register Notices cited in Appendix E, available online.

22 The Nuclear Non-Proliferation Act of 1978. Public Law 95–242.

23 78 Fed. Reg. 32640, 2013.

24 59 Fed. Reg. 44381, Proposed Rule, 1994; 60 Fed. Reg. 43002, Final Rule, 1995.

25 64 Fed. Reg. 35959, Proposed Rule, 1999; 65 Fed. Reg. 16124, Final Rule, 2000.

26 The 1995 NSG change, discussed in the next sub-Chapter, put in place a requirement that to qualify for technology transfers associated with Trigger List items, a receiving country must have brought into force an agreement with the IAEA requiring the application of safeguards on all source and special fissionable material (i.e., a comprehensive safeguards agreement). While the 1999 notice of public rulemaking and 2000 final rule did not explicitly mention this development, the revisions made to the generally authorized list of countries align with this change.

27 The Intelligence Reform and Terrorism Prevention Act of 2004. Public Law 108–458.

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In 2015, DOE published a new rulemaking,which listed 51 countries as generally authorized destinations—inverting the previous paradigm of listing countries that required specific authorization.[28] The 2015 rulemaking effectively added 74 countries to the total number of nations that require specific authorization from the Secretary of Energy.

The number of countries requiring specific authorization, as well as the number of technology-specific activities requiring specific authorization, is shown in Table 2 as a function of year.

Most recently, the National Defense Authorization Act (NDAA) for Fiscal Year 2016 added a new requirement that the Director of National Intelligence be consulted as to the views of the intelligence community for transfers of civil nuclear technology under Part 810 to Russia and China.[29]

B. U.S. Multilateral Commitments: NPT and NSG

There are two principle nonproliferation commitments the United States has made in a multilateral context that are relevant to the Part 810 regulations: ratifying the NPT and adhering to the NSG Trigger List Guidelines. The latter is most useful for understanding several changes to Part 810, as well as the role of government-to-government assurances in the modern Part 810 process.

The NPT that entered into force in 1970 was the embodiment of President Eisenhower's Atoms for Peace bargain. Articles IV and VI gave the non-nuclear weapon states (NNWS) what they wanted: assistance in developing nuclear energy for peaceful purposes and a commitment by the nuclear weapon states to eliminate their nuclear weapons arsenals. Articles II and III gave the nuclear weapon states what they and other nations wanted: a commitment by the NNWS not to develop nuclear weapons and agreement by the NNWS to allow international inspections by the IAEA on their nuclear materials and equipment.

Relevant to Part 810, Article I of the NPT states that nuclear weapon states undertake not to "in any way assist… any non-nuclear-weapon State to manufacture or otherwise acquire nuclear weapons or other nuclear explosive devices." U.S. technology transfers under Part 810 must therefore avoid inadvertently aiding a NNWS in developing nuclear weapons.

Several conditions in the 1970s led to the formation of the NSG. While the NPT contained export control duties for the sales of nuclear materials and equipment to NNWS, there was no multilateral commitment for nuclear technology controls in the NPT or elsewhere. The lack of multilateral control over the transfer of enrichment, reprocessing, and heavy-water technologies was of particular concern. Major suppliers, such as France and Japan, were not members of the NPT in the early 1970s, but wanted to engage in nuclear commerce in a responsible manner. Finally, India's nuclear explosive test in 1974 had been aided by foreign assistance from several countries, and the major suppliers wanted to prevent this from happening again.

These conditions led to the formation of the NSG, which published its first export control documents in 1978 through the IAEA in the INFCIRC/254 series.[30] The publication described a "Trigger List" of materials and equipment, so-named as the export of these items would "trigger" the need for IAEA safeguards in the recipient NNWS. The conditions of supply in the NSG Trigger List Guidelines would then govern the export of those items from the major suppliers.

Relevant to Part 810, paragraphs 6 and 7 of the 1978 NSG Trigger List Guidelines discussed conditions for the export of enrichment, reprocessing, and heavy-water technology. These were the only technology-related export controls in the NSG until the 1990s when the discovery of Iraq's nuclear program prompted a flurry of activity.

Iraq had signed the NPT in 1968, but subsequently pursued a multi-billion dollar nuclear weapons program in violation of that commitment. During that time, major nuclear suppliers had conducted commercial business with Iraq, and IAEA inspections did not detect the illicit weapons program. After the first Persian Gulf War, as the extent of those efforts became more clear, the global nonproliferation community started efforts to not only strengthen IAEA inspections but to raise the standards by which countries would qualify for the transfer of nuclear material, equipment, and technology.

28 80 Fed. Reg. 9359, Final Rule, 2015.

29 Public Law 114-92. November 25, 2015.

30 *https://www.iaea.org/publications/documents/infcircs/communications-received-certain-member-states-regarding-guidelines-export-nuclear-material-equipment-or-technology*

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TABLE 3
Sections of the NSG Trigger List Guidelines Most Relevant to Part 810

Section of NSG Trigger List Guidelines	Relevance to the Part 810 regulations
Paragraph 2 states that supplier nations should only transfer Trigger List technologies upon formal governmental assurances from recipient nations that explicitly exclude uses which would result in any nuclear explosive device.	The reference to "formal government assurances" that the export will not result in a nuclear explosive device corresponds to the step in the specific authorization process of obtaining assurances from a foreign government that technology transfers will be for peaceful purposes.
Paragraph 4 states that supplier nations should only transfer Trigger List technologies to NNWS with full-scope IAEA safeguards (there is a separate exception for India, as discussed below).	NNWS without full-scope safeguards cannot be generally authorized destinations; applications for specific authorization to these countries are not supposed to be approved (with the exception of India).
Paragraph 9 states that supplier nations should only transfer Trigger List technologies to recipient nations upon receipt of assurances regarding any future retransfer of those technologies.	The conditions described in this paragraph correspond with the step in the specific authorization process of obtaining assurances from a foreign government that technology transfers will not be retransferred without prior U.S. government approval.

Source: NSG Trigger List Guidelines.

In 1992, the NSG adopted a policy that for NNWS to qualify for the supply of Trigger List items, they must have IAEA safeguards applied to all of their facilities with nuclear materials and especially designed or prepared equipment.[31] This was a major step forward in strengthening nonproliferation standards and Paragraph 4(a) of the Trigger List Guidelines still contains this requirement.

In 1992, the NSG formed a second control list for items that had non-nuclear commercial uses, but could also be used as part of nuclear programs. This became known as the Dual-Use List and was published as INFCIRC/254 Part 2 (with the Trigger List then published as "Part 1"). The DOC administers the regulations that govern the export of most of the items controlled by the NSG Dual-Use List, as discussed in Chapter IV.

The NSG development most relevant to the Part 810 regulations, however, occurred in 1995. That year the Trigger List Guidelines were amended to add the phrase "or related technology" in several places. As a result, the technology associated with all Trigger List items (e.g., power reactors, conversion facilities, fuel fabrication plants, etc..) acquired nearly the same conditions of supply imposed on the items themselves. Paragraphs 2, 4, and 9 of the NSG Trigger List Guidelines have the most important implications for Part 810 regulations, as explained in Table 3. As a member of the NSG, the United States has committed to obtaining assurances referenced in paragraphs 2 and 9, as have the other major supplier countries (e.g., Russia, ROK, China).

Paragraph 9 is somewhat more complicated than Paragraph 2, however. Paragraph 9a discuss obtaining assurances related to the retransfer of supplied material, equipment or technology and in particular that the country re-transferring obtain the same assurances. Paragraph 9b discusses cases where a supplier's consent should be required for re-transfers. U.S. government policy has been to obtain assurances of no retransfer without U.S. government consent for all Part 810 specific authorizations (deemed exports aside) which is stronger than what is required by paragraph 9 (this is required for enrichment, reprocessing, and heavy-water technology transfers, but not for power reactor transfers, to take one example).

The NSG does not spell out in detail how these conditions of supply are to be implemented by participating governments at a procedural or practical level. For nations with state-owned nuclear entities (e.g., Russia's Rosatom), the employees are government actors and could thus possibly obtain the assurances themselves. In the case of the United States, the companies with nuclear technology are private entities, distinct from the U.S. government, but it is still the U.S. government that obtains the assurances.

There is one exception to the paragraph 4 requirements to transfer Trigger List items only to NNWS with full-scope IAEA safeguards: India. In

31 This is sometimes described as a state having a "comprehensive safeguards agreements" with the IAEA or having "full-scope safeguards." The two terms are used interchangeably in this report.

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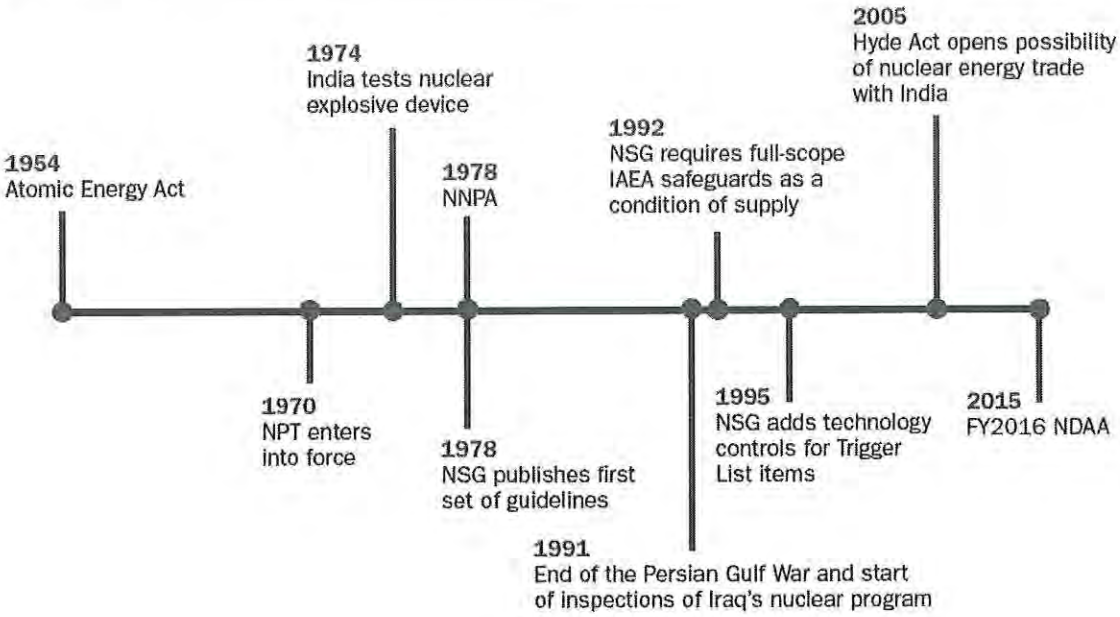
FIGURE 5
Timeline of Selected Events that had Impacts on Part 810



2008, after an intensive lobbying effort by the United States, the NSG agreed to a separate exemption for India from this requirement. This is discussed further in Chapter V.

Paragraphs 6 and 7 of the NSG Trigger List Guidelines still describe the conditions that must be met for the transfer of enrichment, reprocessing, and heavy-water technologies. These are also relevant to Part 810, though enrichment, reprocessing, and heavy water technology transfers constitute a small percentage of specific authorization applications. The criteria described in paragraphs 6 and 7 of the NSG Trigger List Guidelines imply that only a subset of NSG members currently qualify to receive enrichment, reprocessing, and heavy water technology transfers.

Efforts to reform Part 810 regulations and their implementation will need to consider U.S. commitments under the NPT and the NSG, as well as the constraints imposed by the AEA, as amended. A timeline of the developments most relevant to Part 810 is shown in Figure 5.

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CHAPTER III

ANALYSIS OF SPECIFIC AUTHORIZATIONS

As discussed in Chapter I, applications for specific authorization are where U.S. government processing times have grown in the past decade. This Chapter looks at available data sets and reports to provide some insight into the challenges in order to inform recommendations for reform.

A. Historical Trends (1983–2015)

The DOE's public reading room includes a partial cataloging of determinations made by the Secretary of Energy as part of the specific authorization process.[32] The information in the determinations is in some cases very limited, and in other cases incomplete, but they can still be used to illustrate some broad trends.

ASSURANCES

The number of determinations that are available in the DOE reading room from the early 1980s appears to be far less than the numbers described elsewhere.[33] There is a thread of interesting information, however, in the determinations from the 1980s concerning the assurances sought from foreign governments. Some determinations in the 1980s make no mention at all of assurances. This could mean that no assurances were sought or it could mean that they were simply omitted from the determination that the Secretary of Energy signed. In some cases, determinations discussed receiving assurances from foreign governments for peaceful uses, and in others, they discussed obtaining assurances regarding the retransfer of U.S. technology. A few determinations discussed obtaining both types of assurances, though this did not begin to standardize until around 1994.

As discussed in Chapter II, this standardization took place around the same time that the NSG added "or related technology" to its Trigger List Guidelines in several places, including paragraphs 2 and 9, which call for assurances on peaceful uses and retransfers. Subsequently, secretarial determinations (with the exception of deemed exports, where foreign government assurances are not sought) on record in the DOE reading room mention foreign government assurances for peaceful uses and retransfers.

A qualitative change to the specific language used in discussing those assurances occurred around 2005 to 2006, when determinations began to refer to assurances that had been received, as opposed to the determinations being "subject to the receipt of assurances" as in years prior to 2005. This implied change in the processing of non-deemed export specific authorization applications is depicted in Figure 6. Inherently, the change could only have lengthened the time between an application being received and the Secretary of Energy signing a determination, and is likely a contributing cause in the rise of application processing times shown in Figure 7.

Previous to 2005, when the Secretary of Energy signed a determination, the pertinent U.S. company or companies might not have been able to start the

32 Not all determinations are made publicly accessible in the reading room. The GAO report cited later in this Chapter states that there were 89 applications for specific authorization approved from 2008 to 2013, which is greater than the 49 available in the reading room for the same time period.

33 For example, GAO mentions in 1986 testimony: "From 1980 through 1985, DOE authorized 47 exports..." which is well over the 28 listed in DOE reading room documents for that time period.

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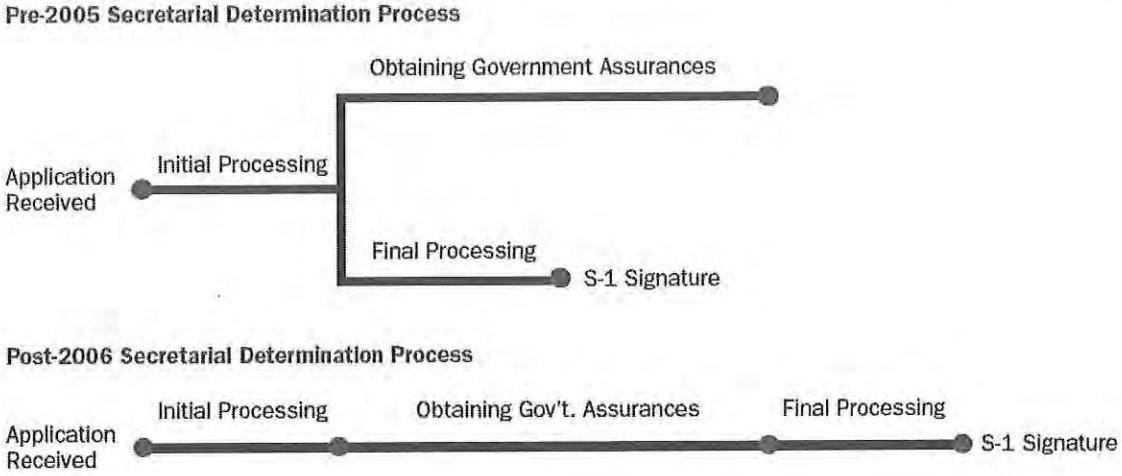
FIGURE 6
Pre-2005 Parallel Processing Structure and Post-2006 Serial Processing Structure

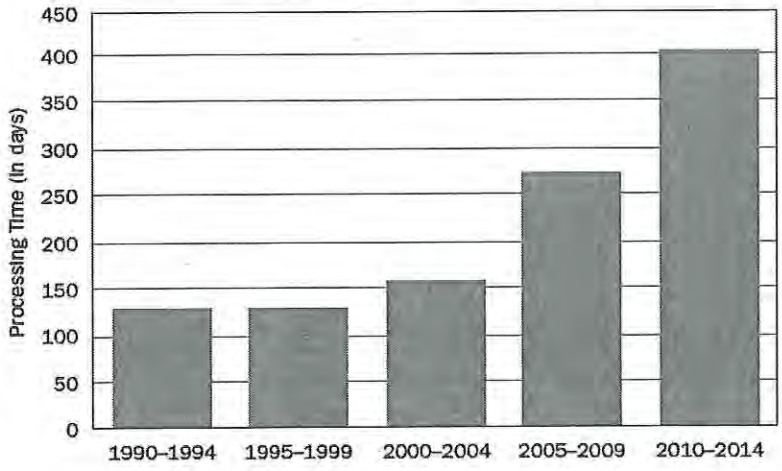


proposed activity if the assurances had not been received. On the other hand, the company would have the certainty of knowing that the U.S. government had approved the export at an earlier point in time.

PART 810 PROCESSING TIMES AND COUNTRY DESTINATIONS

There are other odd irregularities in the data set for the 1980s, such as the group of 19 applications approved to China with one signature in 1985. (Usually, each application was signed individually; this group of authorizations was likely related the 1985 submission of the U.S. nuclear cooperation agreement with China to the U.S. Congress.) There are also applications from the 1980s that involve the transfer of physical parts, which happened occasionally in the 1990s, though does not appear to have happened after 2000.[34] On account of the deficiency of the data and the changing scope of Part 810 regulations, these determinations are less useful to understanding the present; thus, the analysis below will focus on the 1990s and 2000s.

FIGURE 7
Average Processing Times for Specific Authorization Applications



Source: DOE reading room.

Figure 7 shows a histogram of processing times for specific authorizations in the 1990s. The processing times are defined to be the days between when an application is submitted and when the secretarial determination is signed. There is some ambiguity here in that some applications refer to amendments to applications and resubmittals. For consistency, the earliest application date mentioned is used. Also, each signature by the Secretary of Energy is counted as one determination, even if it is for multiple countries and activities. The figure shows a rise in processing times from roughly 130 days in the 1990s to closer to 400 days in more recent years.

Another challenge for U.S. companies working with Part 810 regulations is the uncertainty involved. Figure 8 shows the spread of processing times for specific authorization applications between 2006 and 2015.

34 The types of activities authorized in the 1980s are provided in Appendix D, which is available online.

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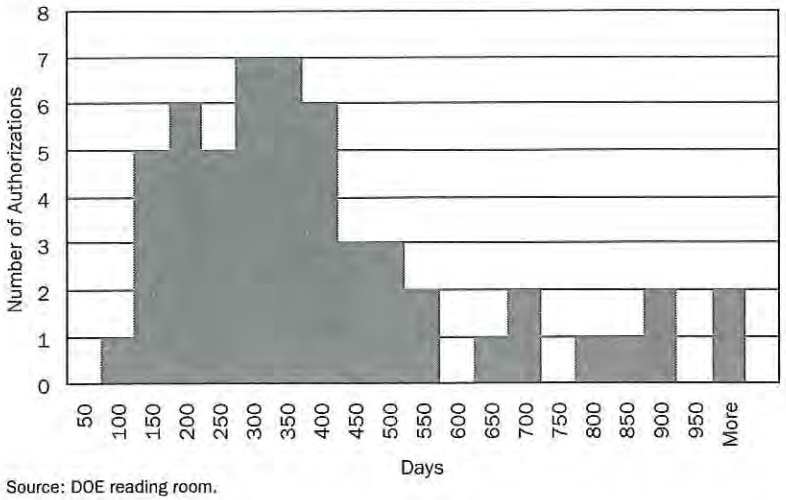
The wide distribution in Figure 8—150 to 550 days or greater—illustrates the uncertainty U.S. companies must contend with. The same distribution looked very different for specific authorization applications in the 1990s, as shown in Figure 9, when the uncertainty was much less.

As Table 4 shows, the application processing times can vary greatly depending on the destination country. This is partly a reflection of the response time of the destination country in providing the requested assurances, but may also be driven by U.S. considerations of the particular country involved, as discussed in Chapter V.

Specific authorizations by country are shown in Figure 10. The 2000–2015 time period is used to give a more representative depiction of where specific authorization applications are targeting, though some changes have already taken place. For example, the UAE became a generally authorized destination in 2015, so activities there will no longer require permission from the U.S. government (unless they involve activities noted in 810.7c). The data set in the reading room is not complete, so this should not be taken as exact. The data set in the public reading room does not, for example, include the same of number of determinations quoted in the 2014 GAO report, as shown in Figure 11. As Figure 11 also shows, the number of specific authorizations each year varies widely—more than 20 determinations in some years, and zero in others.

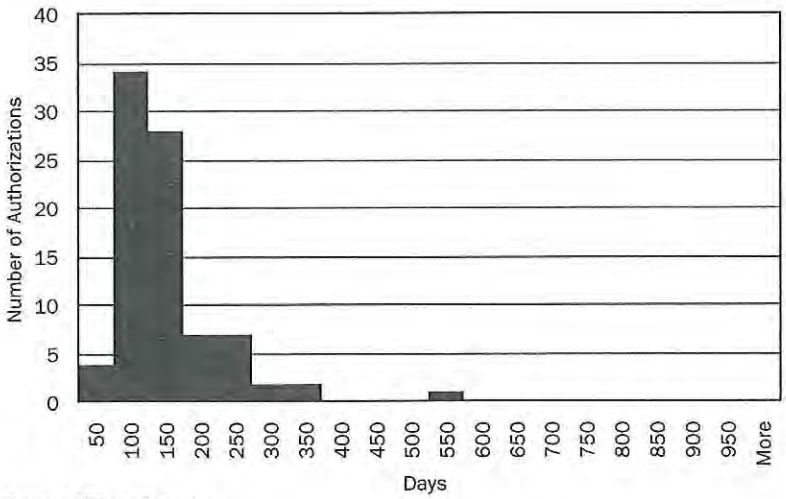
Separate from new applications for specific authorization, U.S. companies must also apply for the renewal of existing specific authorizations. If a U.S. company is granted a specific authorization for five years, then towards the end of that time period, the company must apply for a renewal of the authorization if it wants to continue the work. Also, existing authorizations may sometimes need to be amended within the authorization period. For example, a foreign entity's address or name may change, or a company may wish to hire another foreign national from the same country as an existing authorization. Data provided by DOE/NNSA to the Clean Air Task Force under FOIA, and shared with the author, indicate that between applications for new specific authorizations, authorization renewals, and amendments to existing authorizations, at times DOE receives applications under Part 810 in need of a response on an almost weekly basis.

FIGURE 8
Histogram of Processing Times for Specific Authorization Applications, 2006–2015



Source: DOE reading room.

FIGURE 9
Histogram of Processing Times for Specific Authorization Applications, 1990–1999



Source: DOE reading room.

CATEGORIES

Developing more explicit categories of the types of activities regulated by Part 810 would enable a more risk-informed structure to the regulations. As discussed in Chapter IV, other federal nuclear export control regimes assign different levels of review depending on the significance of the activity in question. The determinations available in the public reading room from 1983 to 2015 encompass a very broad class of activities, however, making this analysis difficult.

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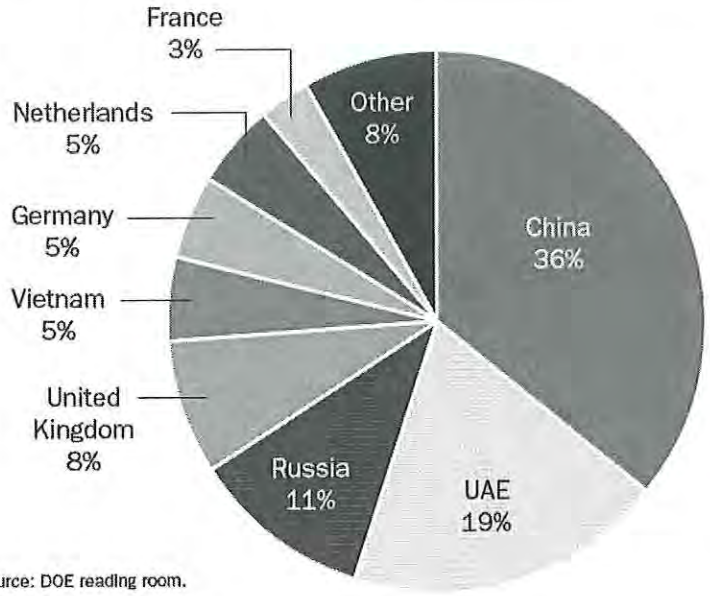
FIGURE 10
Specific Authorizations by Country, 2000–2015



Source: DOE reading room.

TABLE 4
Specific Authorizations to Russia, China, and the UAE, 2007–2015

Country	Number of authorizations	Average processing time (in days)
Russia	6	505
China	18	487
UAE	12	193

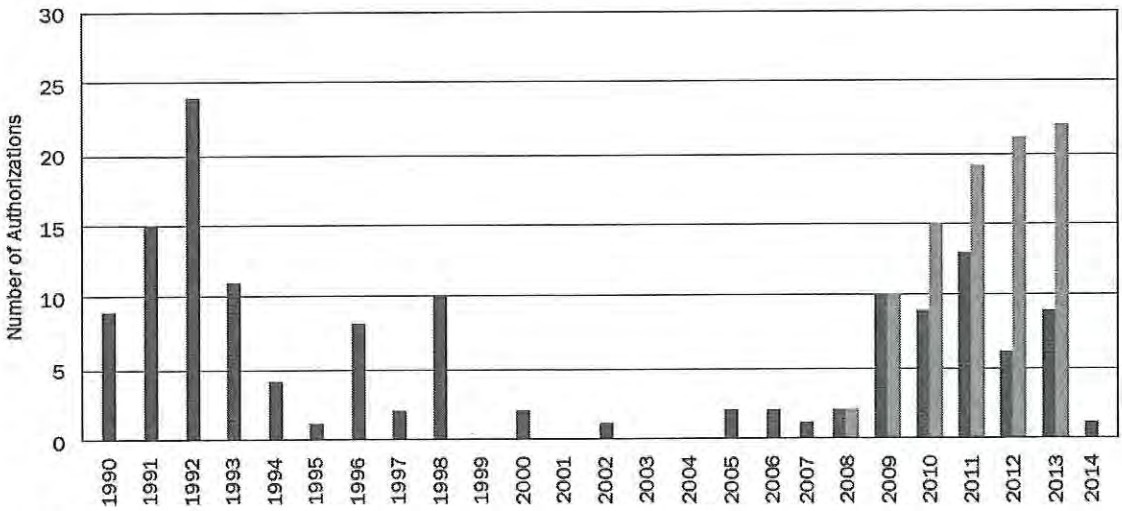
Source: Data supplied by DOE/NNSA in response to a FOIA request by the Clean Air Task Force.

For example, the following are activities that were licensed under Part 810 in the 1980s and early 1990s, according to the determinations available in the DOE reading room:

- to export a copper vapor laser and electron beam supply for use in laser isotope separation research
- to export bellows seals
- to export spare components for nuclear-qualified pressure transmitters
- to ship a tunable diode laser
- to perform decontamination services
- to develop enriched gadolinium production technology jointly
- to permit a subsidiary to sell 3,100 fuel bundles
- to sell and install silicon dioxide insulated cable as part of a safety upgrade
- to jointly develop a thermionic space nuclear power system

Several of these activities would likely be considered outside the scope of Part 810 today. To try to better capture the types of nuclear activities regulated in recent years, this report uses only determinations

FIGURE 11
Number of Specific Authorizations Granted Each Year, 1990–2014



The number of authorizations documented in the DOE reading room is shown in blue, while the estimated number from the 2014 GAO report is shown in orange.

Source: DOE reading room; Figure 4 of GAO, "Additional Actions Needed to Improve DOE's Export Control Process," 2014.

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since the rulemaking in 2000 to construct the following categories of Part 810 activities:

- General consulting services where no non-public, proprietary Trigger List item design is transferred
- Deemed exports (the hiring of foreign nationals by U.S. companies)
- Fuel fabrication (divided into two categories: with or without plutonium in the fuel)
- Software transfers (e.g., RELAP) involved in reactor operational and design consulting (divided by whether source code or only object code is transferred)
- LWRs (divided into three sub-categories: 1) operational and maintenance consulting for existing reactors; 2) design of new LWRs; and 3) transfer of LWR designs to countries that have announced reactor bids)
- Non-light water reactors (e.g., thermal high temperature gas reactors, sodium fast reactors, and molten salt reactors); this could be divided into subcategories by technology type
- Enrichment, reprocessing, and heavy-water technologies

DOE could use this type of categorization in analyzing which types of activities could be expedited. Chapters IV and VI discuss possible fast track authorization pathways making use of both specified activities and limited country destinations.

B. U.S. Government Steps for Processing Specific Authorization Applications

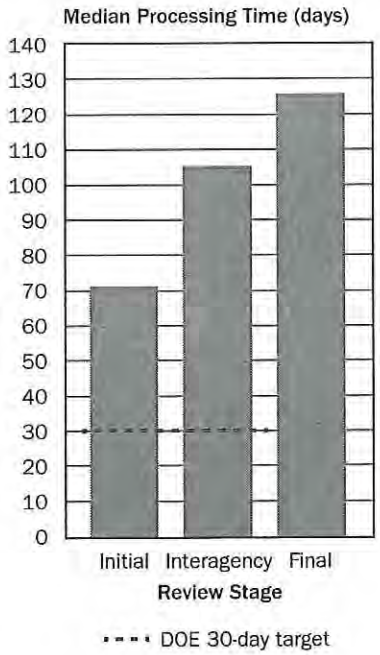
This sub-Chapter describes in greater detail how the U.S. government processes applications for specific authorization. The U.S. Government Accountability Office (GAO) produced a report[35] in 2014 on the Part 810 regulations, and described the specific authorization process as being composed of three stages:[36]

1. Initial review, during which DOE staff writes initial analysis and recommendations before the application and recommendations are sent out for interagency review;
2. Interagency review, during which the State Department may obtain written nonproliferation assurances from host governments and then provide its concurrence or non-concurrence, while the DOC, the NRC, and the DOD provide consultations; and
3. Final review, during which DOE staff drafts authorization approval recommendations which are then reviewed by the proper DOE offices before they go to the Secretary of Energy's desk for signature.

GAO found that DOE consistently missed its 30-day targets for the initial and interagency review stages when processing applications. Figure 12 shows a GAO graph that illustrates how much time is taken in each review stage.

As Figure 12 indicates, GAO calculated that the DOE takes a median of 71 days for initial review, in addition to a median of 105 days for interagency review and obtaining government to government assurances. After interagency review, GAO

FIGURE 12
GAO Estimates for Specific Authorization Processing Times by Stage, 2008–2013



Source: Figure 2 of GAO, "Additional Actions Needed to Improve DOE's Export Control Process," 2014.

35 GAO, "Additional Actions Needed to Improve DOE's Export Control Process," 2014.

36 The 2014 GAO report was done before the NDAA for Fiscal Year 2016 was passed, and therefore did not discuss the added step of the Office of the Director for National Intelligence reviewing specific authorization applications to China and Russia. Given how recently the NDAA passed, and thus how little data is available to analyze any resulting changes to processing times, this report does not focus on that additional step, beyond noting that it adds to the complexity of these types of applications.

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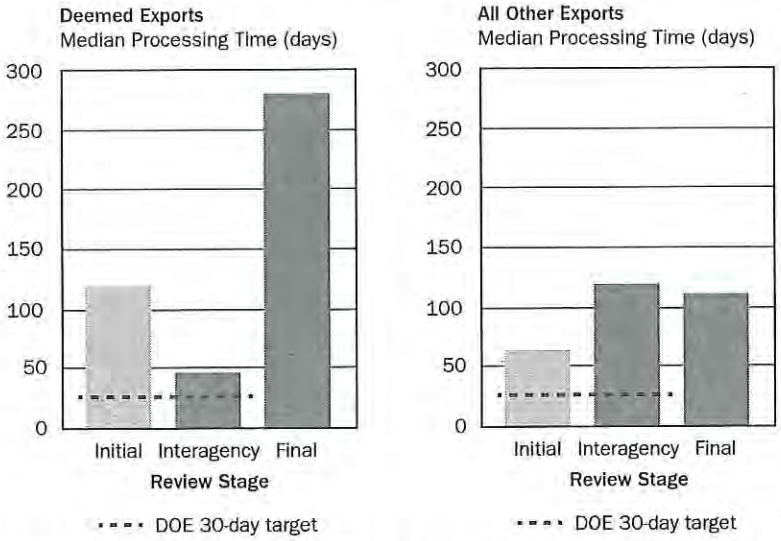
FIGURE 13
GAO Estimates for Deemed Export and Other Exports Processing Times by Stage, 2008–2013



Source: Figure 3 of GAO, "Additional Actions Needed to Improve DOE's Export Control Process," 2014.

calculated that DOE takes a median of 125 days to approve the authorization. GAO further divided the specific authorization data into two categories —deemed exports and non-deemed exports— as shown in Figure 13.

The median time taken for interagency review of deemed export applications is shorter than for other exports. This would appear to make sense, as deemed exports do not require the obtaining of government to government assurances. Less clear is why the median times for initial and final reviews for deemed export applications are so much greater than for non-deemed export applications, though GAO offered some individual explanations.[37]

The 2014 GAO study examined 89 specific authorizations during the years 2008–2013. Data provided by DOE/NNSA to the Clean Air Task Force under FOIA, and shared with the author, documented the processing timeframes for 24 specific authorization applications that were signed by the Secretary of Energy in the years 2014, 2015, 2016, and during the first five months of 2017. The average processing time for these applications was 493 days and for the 10 deemed export applications in this group, the average processing time was 330 days. For applications to China, the average was 812 days, where the average for non-China applications was 386 days.

The 2014–2017 data provide some other processing step data, albeit with very limited statistical precision in some cases. The FOIA data consistently show dates for when an application for specific authorization is submitted to DOE and when either a) the Secretary of Energy provides concurrence or b) a transmittal letter is sent. Dates are sometimes provided for 1) when an application is sent out for initial DOE review; 2) an application is sent out for interagency review; and 3) when an application is submitted for final review in DOE. In some cases, dates are provided for when the other agencies involved (DOC, NRC, State Department, and DOD) send their response (concurrence for State Department, views for the other three) to DOE regarding Part 810 applications.

Based on this limited data set, rough estimates for processing step times in specific authorization applications are shown in Table 5. The first two columns describe two steps that are treated as one stage (the "initial stage") in the 2014 GAO report. The sum of the average processing step times is 446 days, which does not match the overall processing average for the full data set because individual step data are not available for all applications.

The data allow development of estimates for agency response time from when an application is submitted for interagency review to when individual agencies provide responses. The statistics are even more limited in this case, but estimates are shown in Table 6.

However, these response times are for a data set of only 12 applications where half are deemed exports without foreign government assurances. As a result, the average time for State Department is greatly distorted in comparison to non-deemed export specific authorizations; the latter is where the greatest commercial opportunities and non-proliferation considerations are found. For the non-deemed export applications where both a submission date for interagency review and a response time from State Department are provided in the FOIA data set, there are two applications to the UAE where State Department's response times are 29 and 17 days. For the other three cases, State Department's response time was 308 days, 206 days, and 293 days. These longer times may be due to delays in the respective foreign governments in providing assurances, though the data do not include reasons for delays.

37 See pages 14–16 of GAO, "Additional Actions Needed to Improve DOE's Export Control Process," 2014.

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TABLE 5
Average Days to Complete Specific Authorization Application Processing Steps, 2014–2017

Application received to start of DOE initial review	Start of DOE initial review to submission for interagency review	Submission for interagency review to start of DOE final review	Start of DOE final review to Secretary of Energy concurrence (or transmittal letter sent)
86	50	172	138

Source: Data supplied by DOE/NNSA in response to a FOIA request by the Clean Air Task Force.

TABLE 6
Average Days Taken for Agencies to Respond to Specific Authorization Applications, 2014–2017

DOC	NRC	State Department	DOD
19	24	73	66

Source: Data supplied by DOE/NNSA in response to a FOIA request by the Clean Air Task Force.

C. Comparison with Other Major Supplier Export Control Regimes

In 2012, a study on nuclear export controls by Pillsbury Winthrop Shaw Pittman LLP looked at four other major suppliers' export control regimes —Russia, Japan, ROK, and France—and compared them with the U.S. export control system, including Part 810.[38] In general, the study found that the U.S. nuclear export regime, compared to other major suppliers' regimes, is "in many respects, more complex, restrictive and time-consuming to navigate and fulfill." Specific to Part 810, the study found that compared to other technology control regimes, Part 810 created "a more expansive and less predictable scope of jurisdiction." The study also noted that in some instances—particularly, the general authorizations available—the Part 810 system was less burdensome than other export control regimes.

Pillsbury observed that the retransfer assurances the U.S. government seeks from other countries as part of the specific authorization process are typically stronger than what is required in paragraph 9 of the NSG Trigger List Guidelines. Specifically, the NSG requires the supplier's consent for retransfers of enrichment, reprocessing or heavy-water production technologies, but not necessarily for activities involving other technology, such as power reactors (Chapter II discusses paragraph 9 of the NSG Trigger List Guidelines, which deals with retransfer conditions of supply). U.S. government policy is to seek assurances from foreign governments for prior consent for retransfers of all types of technology in Part 810 specific authorizations.

The study observed that ROK and Japan are stricter than the United States in some of the conditions they impose on retransfers of controlled items, and they also go beyond the requirements of the NSG Guidelines with respect to retransfers. ROK regulations require permission from ROK's government before ROK technology can be retransferred to any destination. Similarly, the Japanese government has in the past sought assurances from the U.S. government that specified Japanese-controlled nuclear technologies will not be retransferred from the United States to any country without prior consent from the Japanese government.

In general, the study judged that generally authorized transfers under Part 810 were less burdensome than other countries' export control systems for equivalent transfers.

In addition, the study judged that generally authorized transfers under Part 810 were less burdensome than other countries' export control systems for equivalent transfers. In particular:

> U.S. DOE regulations and practice provide that DOE-controlled technology, once exported to a country not listed on the DOE's 810.8(a) restricted list, cannot be retransferred to countries listed in 10 CFR 810.8(a) (restricted countries) without prior U.S. Government approval. Conversely, as DOE officials have confirmed,

38 Pillsbury Winthrop Shaw Pittman LLP, "Nuclear Export Controls: A Comparative Analysis of National Regimes for the Control of Nuclear Materials, Components and Technology," 2012.

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DOE-controlled technology can be freely retransferred to non-810.8(a) countries.

To take one hypothetical example, power reactor technology transferred from the United States to France could not be retransferred to China without prior U.S. government permission, though it could be retransferred to Japan without obtaining an authorization from DOE.

It is likely that some other major suppliers are able to carry out approvals in a shorter amount of time than Part 810 specific authorizations, in part due to the state-owned nature of those foreign entities.

Another observation from the Pillsbury study was that a number of the regimes appeared to be more favorable to exporters because the suppliers in some countries were primarily, if not exclusively, government-owned vendors. In the Russian regime, for example, the Russian exporter obtains the needed assurances from the appropriate governmental authority of the end user, which helps to streamline the application review process. This is not how assurances are obtained in the United States, where private companies are separate from the U.S. government, and the latter requests assurances from foreign governments. The Pillsbury study further noted that government-owned entities are likely in a better position to understand the export control regimes on account of this government-industry relationship.

As a proxy for application processing time data, the Pillsbury study used the stated periods that governmental entities are supposed to process technology export applications, which they listed as 15 days, 25–45 days, 90 days, and 9 months for ROK, Russia, Japan, and France, respectively. If these stated periods are close to the actual application processing speeds for each country, they are substantially faster than the specific authorization process in Part 810 (though not as fast as the general authorization). An outstanding question is to what extent provisions in these countries' nuclear cooperation agreements may expedite the assurances step. U.S. nuclear cooperation agreements do not cover technology exports, with the exception of the new nuclear cooperation agreement with China, and that particular provision has not yet been implemented.

The increase in processing times for Part 810 applications noted earlier in this Chapter pose a challenge for the U.S. government and the competitiveness of the U.S. nuclear energy industry. If foreign export control regimes had similar processing speeds, the impacts might be blunted, but it is likely that some other major suppliers are able to carry out approvals in a shorter amount of time than Part 810 specific authorizations, in part due to the state-owned nature of those foreign entities. The next Chapter will look at other federal regulations for nuclear export control to see what lessons can be gleaned to improve Part 810.

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CHAPTER IV

OTHER FEDERAL NUCLEAR EXPORT CONTROL REGULATIONS

THE NRC 10 CFR PART 110 (Part 110) regulations cover the export of nuclear materials and equipment. The DOC Export Administration Regulations (EAR) cover dual-use items that are controlled for nonproliferation reasons, as well as other dual-use items that are controlled for different reasons. This Chapter describes elements of those two regulations and what elements could potentially be used to improve the efficiency of Part 810.

A. NRC Part 110 Regulations

Similar to Part 810, NRC-controlled commodities under Part 110 must be authorized by either a general export license or a specific export license. Section 110.2 defines each to be:

> *General license* means an export or import license effective without the filing of a specific application with the Commission or the issuance of licensing documents to a particular person. A general license is a type of license issued through rule-making by the NRC and is not an exemption from the requirements in this part. A general license does not relieve a person from complying with other applicable NRC, Federal, and State requirements.
>
> *Specific license* means an export or import license document issued to a named person and authorizing the export or import of specified nuclear equipment or materials based upon the review and approval of an NRC Form 7 application filed pursuant to this part and other related submittals in support of the application.

For specific licenses, all Form 7 applications are made public and some require Federal Register notices. Processing fees ($1,300 to $17,400) depend on level of review required (proliferation significance of commodity). Most applications require interacting with foreign governments.

These differing levels of review imply a difference in assessed risk: some exports are judged to be less significant than others and are assigned a lower (and faster) level of review.

Section 110.40 describes the conditions wherein applications will be subject to review by NRC Commissioners. For example:

- the export of more than five effective kilograms of high-enriched uranium, plutonium, or uranium-233
- exports involving assistance to end uses related to isotope separation, chemical reprocessing, heavy-water production, advanced reactors, or the fabrication of nuclear fuel containing plutonium
- the initial export to a country since March 10, 1978 of source or special nuclear material for nuclear end use
- An initial export to any country listed in Sections 110.28 or 110.29 involving over:
  - 10 grams of plutonium, uranium-233 or high-enriched uranium
  - one effective kilogram of low-enriched uranium
  - 250 kilograms of source material or heavy water
  - 37 TBq (1,000 curies) of tritium

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- export license applications raising significant policy issues

Section 110.41 describes the conditions whereby applications will be forwarded to the U.S. Department of State to then request Executive Branch views. For example:

- More than one effective kilogram of high-enriched uranium or 10 grams of plutonium or uranium-233
- Nuclear grade graphite for nuclear end use
- An export involving assistance to end uses related to isotope separation, chemical reprocessing, heavy-water production, advanced reactors, or the fabrication of nuclear fuel containing plutonium
- The initial export of nuclear material or equipment to a foreign reactor
- An export to any country listed in Sections 110.28 or 110.29
- An export raising significant policy issues

Apart from deemed exports, Part 810 does not have a substantially different set of authorization pathways for different categories of exports.

These differing levels of review imply a difference in assessed risk: some exports are judged to be less significant than others and are assigned a lower (and faster) level of review. This is to be contrasted with Part 810, where each new specific authorization is judged to require the Secretary of Energy's attention.

In general, the review process for NRC's specific licenses can take anywhere from 40 days to four months or more to coordinate internal and interagency reviews. Applications may be withdrawn or returned without action, and licenses may be issued or denied. The licenses issued are signed by the Office of International Programs Deputy Director and include named parties, identified end users and end uses, and set expiration dates. The licenses can be amended and renewed prior to the expiration date.[39]

Specific license types for exports are broken down into the following categories:

XSNM = export of special nuclear material
XSOU = export of source material
XMAT = export of material (i.e., deuterium)
XB = export of byproduct material
XR = export of reactor (or major components)
XCOM = export of minor components
XW = export of radioactive waste

The criteria for "major" (XSNM, XSOU, XR) exports are that the destination country has an agreement for cooperation (a "123 Agreement") with the United States and full-scope IAEA safeguards in recipient NNWS. Similar to Part 810 and consistent with NSG obligations, the U.S. government obtains assurances from the foreign government on a case-by-case basis that material or equipment will be made subject to the 123 Agreement with respect to:

- No nuclear explosive use or R&D on any nuclear explosive device
- Adequate physical security will be maintained
- No retransfer or alteration in form (reprocessing) without prior U.S. government consent

The criteria for "minor" (XCOM, XMAT) exports are that the U.S. government must obtain assurances from the foreign government on a case-by-case basis that:

- IAEA (full-scope) safeguards will apply in NNWS
- No nuclear explosive use or R&D on such device
- No retransfer without prior U.S. government consent

Again, there is a division between "major" and "minor" exports in that they are subject to differing requirements and processing structures. XMAT and XSOU cases involving the export of materials for non-nuclear end-uses do not require recipient government assurances. Apart from deemed exports, Part 810 does not have a substantially different set of authorization pathways for different categories of exports, with the small exception of Section 810.6(c).

Export licenses consider both the item, material, or technology that is proposed for export as well as the destination. While Part 810 regulations contain

39 In general, this section strongly draws on public NRC presentations on Part 110, such as: *http://www.lanl.gov/projects/export-control-coordinators-org/_assets/docs/2013/2013-steve-baker.pdf* and *https://nnsa.energy.gov/sites/default/files/nnsa/inlinefiles/3_NRC_ExportImport_Updates_Lauren_Mayros.pdf*

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only one list of generally authorized countries, Part 110 regulations incorporate four different country lists:

1. *List of embargoed destinations.* General licenses for exports/imports do not authorize exports to the embargoed destinations listed in Section 110.28: Cuba, North Korea, Iran, Syria, Iraq, and Sudan.
2. *List of restricted destinations.* General licenses authorize only limited exports to the restricted destinations listed in Section 110.29: Afghanistan, Andorra, Angola, Burma (Myanmar), Djibouti, India, Israel, Libya, Pakistan, and South Sudan.
3. *List of NSG members.* Sections 110.21(c) and 110.22(d) grant general licenses for the export of various plutonium, uranium, and thorium isotopes in quantities less than specified amounts to any country listed in Section 110.30, which includes the members of the NSG. The NSG list is also used in Section 110.23 for general licenses related to the export of byproduct material.
4. *Country list in Section 110.26.* Section 110.26 includes a list of countries where general licenses are available for the export of certain reactor components: Austria, Belgium, Bulgaria, Canada, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Indonesia, Ireland, Italy, Japan, Latvia, Lithuania, Luxembourg, Malta, Netherlands, New Zealand, Philippines, Poland, Portugal, Republic of Korea, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Taiwan, and United Kingdom.

This creates a more detailed risk-assessment in the form of country tiers. For example, the NRC has assessed that membership in the NSG justifies expediting certain lower-level exports to those countries. In a different direction, the list of countries on the restricted list was determined based on recommendations from the Executive Branch, as the regulations explain:

> *The term 'restricted destinations'* means countries that are listed in §110.29 based on recommendations from the Executive Branch. These countries may receive exports of certain materials and quantities under a general license, but some exports to restricted destinations will require issuance of a specific license by the NRC including Executive Branch review pursuant to § 110.41.



TRISO fuel particle. Source: Idaho National Laboratory.

Section 110.26 of Part 110 provides an authorization pathway that could serve as a partial template for creating a Part 810 fast track for certain applications. Section 110.26 describes a set of exports—items in paragraphs 5 through 11 of Appendix A to Part 110—eligible for a general license to a group of countries under specific conditions. The items referenced in that appendix include: reactor pressure tubes, zirconium tubes, reactor internals, reactor control rod drive mechanisms, heat exchangers, external thermal shields, and any other component especially designed or prepared for use in a nuclear reactor. The section specifically calls out exports for use "in a light or heavy water-moderated power or research reactor."

Excerpts from the NRC's explanation in announcing the creation of Section 110.26 in a 1984 Federal Register notice are informative:

> These amendments would reduce the number of actions that would require an exporter to apply for and obtain a specific NRC license that would authorize the export of certain types of nuclear equipment and certain quantities of nuclear

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material, thereby reducing the regulatory burden on the public and the administrative burden on the NRC staff.

The new and revised general licenses incorporate for the first time in NRC's regulations the U.S. Government policy of facilitating nuclear cooperation with countries sharing U.S. nonproliferation goals. The Departments of Commerce and Energy have adopted similar general licensing provisions for nuclear-related commodities and technology under their respective export licensing and approval authorities. . . .

The new component general license is further limited to only those countries which, in addition to sharing good nonproliferation credentials, have provided the U.S. with generic assurances that they meet the criteria set out in section 109 of the Atomic Energy Act. . . .

Exports deemed to be of greater significance or headed to destinations of greater concern are subject to correspondingly higher levels of review.

The Commission believes that this new approach to general licenses can benefit U.S. nonproliferation objectives by demonstrating to countries abroad the advantages of supporting effective nonproliferation policies. . . .

The new or revised general licenses are as follows: . . . 10. Section 110.26: New general license for the export of nuclear reactor components to light water- or heavy water-moderated research or power reactors in designated countries which have acceptable nonproliferation credentials and which have also provided the U.S. with generic assurances that they meet the Section 109 criteria of the Atomic Energy Act. Except for France, NPT adherence or acceptance of full-scope IAEA safeguards is a necessary condition for placing a country on the authorized list.

Significantly, Part 110 regulations have different pathways towards licensing exports that depend both on the physical export itself and also the destination. Exports deemed to be of greater significance or headed to destinations of greater concern are subject to correspondingly higher levels of review, while exports of lesser significance or to countries that have made higher nonproliferation commitments or are judged to share U.S. nonproliferation goals are processed in an expedited manner.

B. DOC Export Administration Regulations

The EAR regulate the export of certain nuclear-related items, including most of the items on the NSG Dual-Use List.[40] The EAR also control other types of items, including those related to missile programs and chemical and biological weapons programs. The items controlled under the EAR are commonly referred to as "dual use," as they have both commercial and military or proliferation applications.[41]

The DOC Commerce Control List (CCL) is divided into 10 broad categories and each category is further subdivided into five product groups. The 10 categories are:

0 = Nuclear materials, facilities, and equipment (and miscellaneous items)
1 = Materials, Chemicals, Microorganisms, and Toxins
2 = Materials Processing
3 = Electronics
4 = Computers
5 = Telecommunications and Information Security
6 = Sensors and Lasers
7 = Navigation and Avionics
8 = Marine
9 = Aerospace and Propulsion

The five product groups for each category are:

A. Systems, Equipment and Components
B. Test, Inspection and Production Equipment
C. Material
D. Software
E. Technology

Each item falls under the following identified categories for control: Chemical and Biological Weapons, Nuclear Nonproliferation, National Security, Missile Tech, Regional Stability, Firearms Convention, Crime Control, Anti-Terrorism.

40 The NSG website links to the most recent dual-use list: *http://www.nuclearsuppliersgroup.org/en/guidelines*

41 See page 1 of *https://www.bis.doc.gov/index.php/documents/regulations-docs/142-eccn-pdf/file*

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NuScale Power's full-length helical coil steam generator.
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There is a rigorous and detailed categorization of the exports under the EAR. On the destination side of the equation, the Commerce Country Chart (Supplement No. 1 to Part 738) lists every country and each category for control to which it applies.[42] If a country has an "X" under a specific reason for control (e.g., "Nuclear Nonproliferation") then all EAR-controlled items that are identified as being controlled for that particular reason will require a license for export to that country. Items that appear on the NSG Dual-Use List and appear on the CCL will have "Nuclear Nonproliferation" as a reason for control.

The CCL and the Country Chart together alert companies as to whether a license is needed to export a product to an individual country. For example, dual-use items, such as certain pressure transducers, that are controlled for nuclear nonproliferation reasons will require a license for export to China. This is similar to how the general authorization country list (Appendix A to Part 810) works with the technologies called out in Sections 810.7(b) and (c) to identify whether a specific authorization from the Secretary of Energy is needed.

Virtually all exports to embargoed destinations and countries designated as supporting terrorist activities require a license. 15 CFR Part 746 of the EAR describes embargoed destinations and refers to certain additional controls imposed by the Office of Foreign Assets Control of the Treasury Department. EAR Part 744, Supplement 4 further contains a list of parties whose presence in a transaction can trigger a license requirement under the EAR.

Most pertinent to improving the efficiency of Part 810, the EAR regulations are aided by Executive Order 12981, which serves to ensure timely reviews and dispute resolution among the federal agencies involved in dual-use item licensing. The Executive Order was originally issued in 1995 and describes timelines for each stage of the application processing, as well as procedures to resolve disagreements.

The Executive Order states that within 30 days of the receipt of a license application and all required information a department or agency must provide the Secretary of Commerce with a recommendation either to approve or deny the license application. If a department or agency fails to provide a recommendation within 30 days, it is deemed not to have an objection to the decision of the Secretary of Commerce (in other words, silence is taken for assent).

The EAR regulations are aided by Executive Order 12981, which serves to ensure timely reviews and dispute resolution among the federal agencies involved in dual-use item licensing.

The Executive Order also establishes bodies for resolving disagreements, including an Operating Committee and an Advisory Committee on Export Policy. The Operating Committee—with membership including the U.S. Departments of Commerce, Defense, Energy, and State—reviews all license applications on which the reviewing department and agencies are not in agreement. In FY 2016, 329 cases were escalated to the Operating Committee for dispute resolution. The Chair of the Operating Committee is required to make a decision within 14 days of receiving department and agency recommendations.

If a department or agency disagrees with the licensing determination of the Chair of the Operating Committee, it can appeal the matter to the Advisory Committee on Export Policy. The appeal must be made within five days of the decision, however, or the decision is final. In FY 2016, 36 cases were further escalated to the Assistant Secretary-level Advisory Committee on Export Policy for resolution.

Ultimately, all license applications are to be resolved or referred to the President no later than

42 *https://www.bis.doc.gov/index.php/forms-documents/regulations-docs/14-commerce-country-chart/file*

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90 calendar days after registration of the completed license application.

These detailed timeframes and methods for resolving disagreements have yielded impressive efficiencies. DOC's Annual Report for Fiscal Year 2016 states that the agency processed a total of 33,615 export license applications, with an average processing time to review license applications of 22.4 days, including time for reviews by other agencies.[43] DOC approved 28,761 license applications (85.6 percent), returned 4,552 applications without action (13.5 percent), and denied 302 applications (0.9 percent).

All license applications are to be resolved or referred to the President no later than 90 calendar days after registration of the completed license application.

More specific to nuclear energy-related exports, in FY 2016, DOC approved 2,009 applications, valued at $1.6 billion, for the export or re-export of items controlled for nuclear nonproliferation reasons. In addition, DOC rejected 11 applications valued at $4.6 million and returned without action 92 applications valued at $144.2 million.

The remainder of this Chapter will describe elements from the EAR and Part 110 regulations that could be used to improve the efficiency of Part 810 regulations.

C. Elements that Could Improve Part 810 Efficiency

There are important differences between the regulatory regimes described above and DOE's Part 810 regulations. For example, technology transfer is inherently more nebulous than the physical materials and equipment under NRC's jurisdiction. It can take place via a USB disk, over email, conversations, training or services, and so on. General unclassified assistance can occur at a very early stage in a country's development—well before material and equipment exports—and so the U.S government may not have done previous nonproliferation assessments on a particular country before the first application for specific authorization under Part 810.

In another variation, by statute, the U.S. Department of State is the only agency that provides concurrence to DOE for specific authorizations under Part 810, while DOC, DOD, NRC are "consulting" agencies. In the DOC EAR, on the other hand, all of the involved agencies are equal in licensing deliberations.

With those caveats, there are several useful concepts from the Part 110 regulations:

- Break up exports into categories
- Separate countries by nonproliferation commitments
- Assign a processing structure commensurate with the risk involved, based on the item for export, the destination, and other factors such as assurances provided
- After initial exports to a country, similar exports to the same destination should have a shorter review process

There are several elements from Part 110 and the EAR that could be applied to the Part 810 regulations.

CREATE A FAST TRACK FOR SPECIFIC TECHNOLOGIES AND DESTINATIONS

A fast track authorization could be created in Part 810 based in part on the concept of general licenses in Part 110 to NSG members and the countries listed in Section 110.26. It would not be a general license in the sense that there would still be a chance for the U.S. government to reject the license, but it could be a significantly expedited process along the lines of the procedures outlined in Section 810.6(c)(2). That is, a U.S. company would submit an application matching the fast track criteria—potentially in a standardized format, similar to Form 7 used in NRC's Part 110 regulations—and the U.S. government would process it under the presumption of approval.

Similar to Section 110.26 of Part 110, DOE could create a list of fast track countries and a list of fast track technologies. As current U.S. government policy is that a nuclear cooperation agreement is necessary, but not sufficient, for a country to be generally authorized, such a fast track could focus on countries that have made significant nonproliferation commitments, but still do not have nuclear cooperation agreements in place with the United

43 DOC Bureau of Industry and Security, "Annual Report to Congress for Fiscal Year 2016."

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States. Appendix A to this report shows a list of countries with which the United States does not have a 123 Agreement in place, and are thus not generally authorized destinations. They are NNWS that are party to the NPT with a comprehensive safeguards agreement in place and an Additional Protocol in force with the IAEA. These objective criteria could form the basis for a fast track status, and help to incentivize adoption of the Additional Protocol (a greater IAEA safeguards commitment for NNWS).

There are several criteria that could be used to show that the U.S. government considers a country to have acceptable nonproliferation credentials. For example, the Philippines meets the objective criteria above and is also on the NRC's Section 110.26 country list. As the Federal Register notice cited above stated, the United States clearly considers the Philippines a commercial partner that shares its nonproliferation goals: this could be used as part of the criteria to justify fast track status. Chile has in place a project supply agreement with the United States, and so the United States has on record examined working with Chile from a nonproliferation point of view: this too could be used as rationale for fast track status (the United States also once had a 123 Agreement in force with Chile). Iceland and New Zealand are members of the NSG, a status only granted by consensus, so the U.S. government clearly decided both were like-minded countries on the subject of nonproliferation.

None of the nations noted above currently has a 123 Agreement in place with the United States, and so none of them is generally authorized (except for specific project supply agreement activities). All of these countries are NNWS that are party to the NPT and have a comprehensive safeguards agreement and an Additional Protocol in force with the IAEA.

Another criterion that could be used to qualify for fast track eligibility is previous Part 810 authorizations. For example, Armenia is a country that meets the objective criteria above and has been granted four Part 810 authorizations, from the 1990s to as late as 2010. Thus, the U.S. government has already examined Armenia from a nonproliferation perspective and decided that these U.S. commercial transactions were acceptable. Using previous Part 810 authorizations as criteria for fast track status would imply that initial applications to a country would be processed as usual, with eligibility for fast track status coming subsequent to the U.S. government having completed the assessments involved with the first applications. This approach would proceed much the same way the NRC sends the initial application for export of nuclear material or equipment to a foreign reactor to the Executive Branch for review, or how the Commission sends initial applications for export to a country of source or special nuclear material for nuclear end use to the NRC Commissioners for review; but higher levels of review would no longer be needed for future exports.

Mexico might be the ideal candidate for fast track status because it meets several of the criteria above. In addition to meeting the objective criteria (NNWS party to the NPT, comprehensive safeguards agreement and Additional Protocol in force with the IAEA) described above, Mexico has a project supply agreement in place with the United States for the Laguna Verde reactor, is a member of the NSG, and has already been granted previous specific authorizations by the Secretary of Energy. Mexico has been discussed as a candidate country for a new U.S. nuclear cooperation agreement, in which case it could then become a generally authorized destination.

LWR technology should be one candidate for fast track authority, given the number of suppliers of LWR technology available and the large deployment of LWR technology around the world.

In addition to identifying a list of countries eligible for fast track status, the U.S. government will need to identify activities that qualify for potential fast tracks. There would likely be two fast track pathways divided between applications needing government to government assurances and those that do not. For example, deemed exports do not need assurances, and other activities such as general consulting—where no non-public, proprietary Trigger List design information is transferred—may not either.

LWR technology should be one candidate for fast track status, given the number of suppliers of LWR technology available and the large deployment of LWR technology around the world. At the end of 2016, 347 GW of the total worldwide 391 GW of nuclear generating capacity—89%—came from LWRs.[44] The IAEA has extensive experience

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safeguarding LWR technology in NNWS. Thermal high-temperature gas reactors, and potentially other technologies, could also be eligible.

As the NRC described in 1984 when it announced the general license in Section 110.26, a new fast track under Part 810 could be a way of incentivizing countries to make higher nonproliferation commitments (in this case, an Additional Protocol) by rewarding them with more efficient civil nuclear energy cooperation. A Part 810 fast track would still involve review by the U.S. government before approval (whereas Section 110.26 does not), and it could be modeled on the more efficient procedure outline in Section 810.6(c)(2). When an application is submitted, if no objection has been raised by the U.S. government within a certain period of time (e.g., 45 days), the application is deemed to be approved (subject to the receipt of assurances for activities requiring assurances). Applications for authorization under Section 810.6(c) for operational safety have been successfully processed and approved in recent years, so this framework appears to be viable.

Advanced reactor companies should engage with DOE at an early stage.

SEEK GENERIC ASSURANCES

In addition to the fast track described above, and more similar to Section 110.26, the U.S. government could seek generic assurances from individual countries for some or all exports under Part 810. DOE could then process applications to those countries more quickly, perhaps in combination with a fast track approval process, as the assurances step would already be completed. This approach would be dependent on foreign governments being willing to provide such assurances, however, and there is no guarantee that any countries would be willing to do so. Further exploration of this option would still be useful.

ISSUE AN EXECUTIVE ORDER TO ENFORCE TIMELY PROCESSING OF APPLICATIONS

As discussed earlier in this Chapter, the EAR benefits from Executive Order 12981 in terms of timely processing of applications and adjudicatory mechanisms for resolving disputes. A similar Executive Order could be issued for Part 810, though it would have to take into account the different statutory responsibilities of the relevant federal agencies and the seeking of assurances in some authorizations subject to a foreign government's response. An overriding principle in the Executive Order should be that DOE Offices, the State Department, and the consulting agencies provide their views on applications within a set time period. It should be firmly established in the Executive Order that all agencies understand that the requisite assurances will need to be provided for the activity to go forward, but agencies must independently provide their views within a specific period of time on the merits of proposed activities.

Part 810 would also benefit from a standing body to resolve disagreements about the regulations and provide a forum for agencies to present argument for and against certain applications. The U.S. government could make use of existing export control bodies, such as the Advisory Committee on Export Policy, or establish new ones, potentially housed in the White House or DOE. The objective would be to have regular discussions on Part 810 applications so that disagreements are known earlier in the process and companies can be made aware of problems in a shorter amount of time.

PRE-APPLICATION INTERACTIONS

Though not an export control function from Part 110, one element of NRC's domestic regulation of new reactor construction could be used to help improve the functioning of Part 810. The NRC has a policy of encouraging reactor developers to engage early—in advance of submitting an application for reactor licensing—to identify and resolve potential licensing issues early in the licensing process. Likewise, advanced reactor companies should engage with DOE at an early stage—in advance of submitting an application for specific authorization—to discuss their technology with DOE, and share with DOE the potential foreign entities a company is thinking about working with. These interactions could provide U.S. companies with feedback to use in writing their applications for specific authorization, which could potentially avoid some delays, depending on the proposed technology transfers and end users.

44 Table 2 of IAEA, "Nuclear Power Reactors in the World," 2017 edition.

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CHAPTER V

GEOSTRATEGIC CONSIDERATIONS

As discussed in chapter II, the language in Section 57b of the AEA, as amended, requires the Secretary of Energy to make a determination as to whether a particular activity involving foreign entities will be "inimical" to the interests of the United States. The words "nonproliferation" and "nuclear weapons" are not mentioned in this section, and the criteria that go into determinations are broader than nonproliferation considerations.

For example, in the initial promulgation of the regulations in 1956, the AEC generally authorized all unclassified nuclear energy technology and assistance to non-Communist countries—an inimicality finding rooted in geostrategic considerations rather than nonproliferation assessments. For Communist countries, inimicality findings would be decided on a case-by-case basis through specific authorizations.

The list of countries that are generally authorized destinations has shortened over time, and the list of nuclear technologies requiring specific authorization has grown. But the treatment of certain countries, based on factors beyond nonproliferation concerns, remains. Today, having a nuclear cooperation agreement in place is a necessary, but not sufficient, condition for a country to appear on the generally authorized destination list in Appendix A of Part 810. The three countries with which the United States has a nuclear cooperation agreement but which are not generally authorized destinations, are China, India, and Russia. As Figure 14 shows, these three countries have substantial nuclear power programs and those programs are expected to grow significantly over the next few decades. U.S. exports to these countries can advance innovative nuclear reactor designs, and help to reduce air pollution and greenhouse gas emissions. They are therefore important trading partners for U.S. companies, though with unique challenges that are discussed below.

A. China

U.S. nuclear technology exports to China have required specific authorization since the regulations were first published in 1956. Back then, the basis for requiring specific authorization was that China was a Communist country. Today, the basis for requiring specific authorization is still geostrategic in nature, though not solely derived from considerations of Communism. Vietnam, for example, is a Communist country that had required specific authorization since 1956 (at least, for the Communist-controlled areas) until it became a generally authorized destination in 2015 after the U.S.-Vietnam nuclear cooperation agreement went into force.

Nuclear energy capacity in China is projected to grow at an enormous rate.

As Figure 15 shows, nuclear energy capacity in China is projected to grow at an enormous rate—with China surpassing the United States as home to the world's largest nuclear reactor fleet by 2035, or potentially earlier, depending on the rate of retirements of U.S. nuclear plants and new build rate. As Figure 4 in Chapter I shows, most of the new nuclear generating capacity additions worldwide out to 2040 are projected to take place in China. At the end of 2016, 20 of the 61 power reactors under construction around the world were in China.[45]

China's electricity consumption continues to rise and it remains committed to meeting its

45 Page 4 of World Nuclear Association, "World Nuclear Performance Report," 2017.

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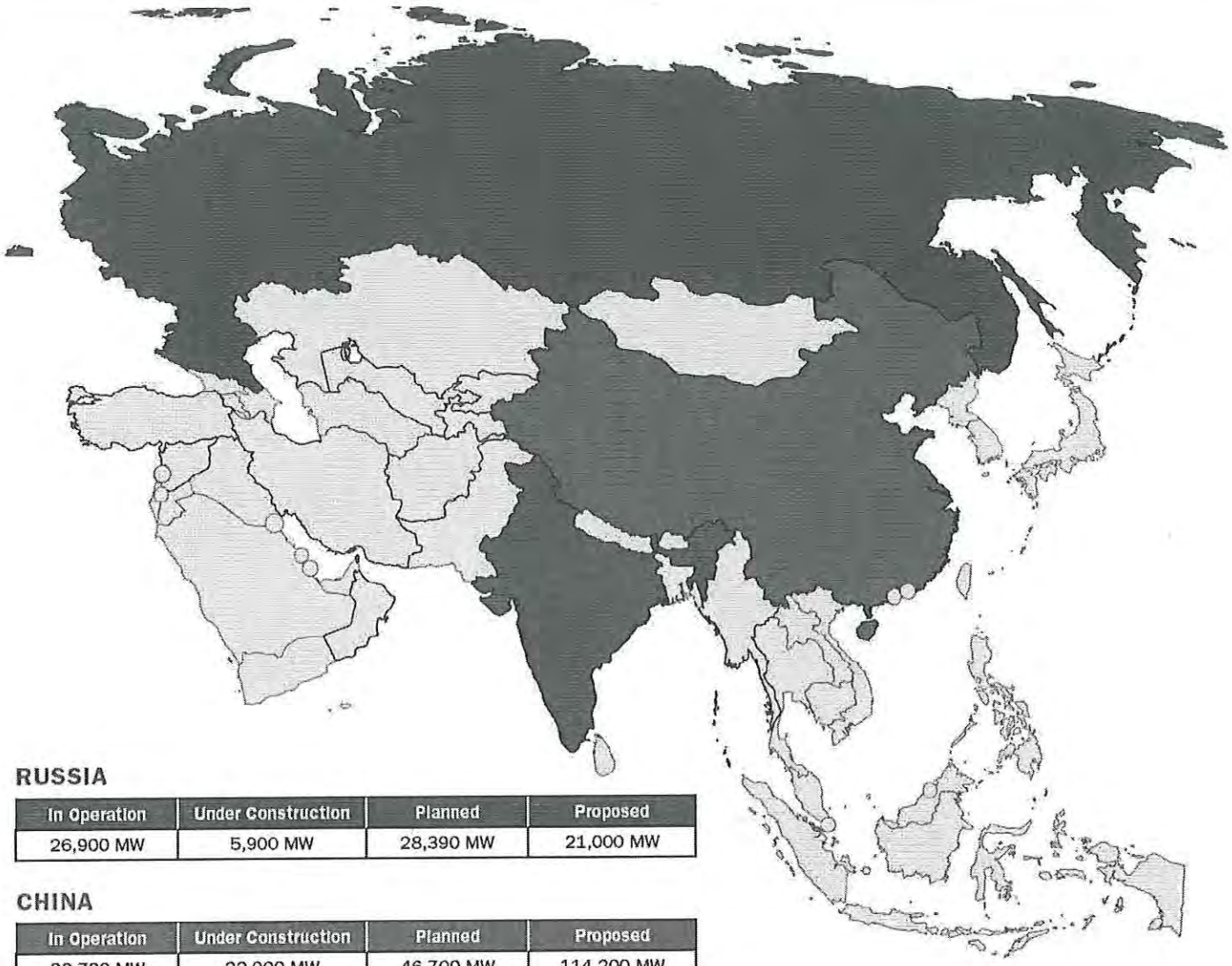
FIGURE 14
Chinese, Russian, and Indian Nuclear Power Programs



RUSSIA

In Operation	Under Construction	Planned	Proposed
26,900 MW	5,900 MW	28,390 MW	21,000 MW

CHINA

In Operation	Under Construction	Planned	Proposed
33,700 MW	22,000 MW	46,700 MW	114,200 MW

INDIA

In Operation	Under Construction	Planned	Proposed
6,200 MW	4,350 MW	17,250 MW	65,000 MW

Source: World Nuclear Association.

greenhouse gas emission reduction goals—it has agreed to halt its rapid rise in carbon dioxide emissions by no later than 2030. Additionally, China pledged to increase its non-fossil fuel energy share to 20% by 2030, which has been estimated to lead to the deployment of an additional 800 to 1000 gigawatts of nuclear, wind, solar, and other zero-emission generation capacity by that year.[46] Current air pollution levels in China are also having significant health impacts on its population.[47]

Given the weak U.S. domestic market, it is not surprising that U.S. companies want to do business in a country that has a vibrant and growing nuclear energy sector. However, when new U.S. reactor

46 CRS, "U.S.-China Nuclear Cooperation Agreement," 2015.

47 *https://www.usatoday.com/story/news/world/2017/09/18/chinas-air-pollution-causing-its-residents-die-early/677099001*

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companies begin establishing business relationships in China, it may be their first interaction with Part 810 regulations, and possibly a frustrating one. If a company's first experience with Part 810 involved a generally authorized destination, such as Canada, their experience would be completely different.

Historically, there have been several instances where specific authorizations to China have been delayed: in the mid-1980s when the Reagan Administration was getting ready to submit a proposed nuclear cooperation agreement with China to Congress,[48] in the late 1990s as the Clinton Administration was getting ready to implement the agreement,[49] and in recent years.[50]

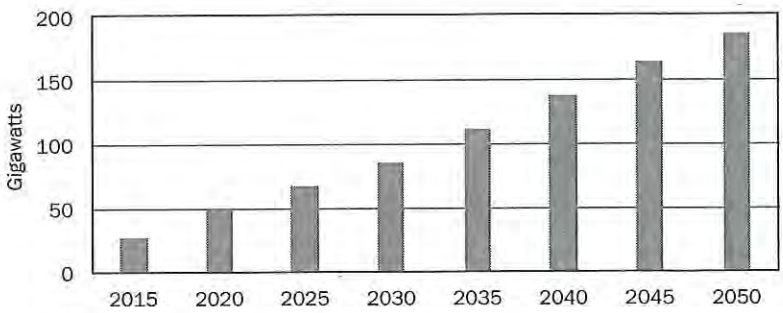
China is simultaneously the largest nuclear reactor market and also possibly the most sensitive country for U.S. companies to work with in the eyes of the U.S. government (an argument could be made for Russia, as discussed below, though the business opportunities in Russia are more limited). The history of U.S. nuclear energy cooperation with China is complicated and not without controversy.

When President Reagan first submitted a nuclear cooperation agreement with China to Congress on July 24, 1985, he noted that it was the first proposed agreement for cooperation with a Communist country and the only agreement with another nuclear weapon state (UK and France were covered under the EURATOM agreement).[51] Members of Congress raised concerns with the agreement, including the lack of a guarantee for prior approval for any reprocessing or enrichment by China of U.S. nuclear materials or material produced by U.S. equipment or technology. Congress went on to pass a bill (PL 99-183), signed by President Reagan, that required the President to submit a one-time certification and a one-time report regarding nuclear cooperation with China, which did not happen until 1998.

After the Tiananmen crackdown in 1989, Congress responded by passing sanctions that suspended nuclear cooperation with China. As the Congressional Research Service (CRS) described it:

> Section 902(a)(6) of P.L. 101-246 suspended nuclear cooperation with China until the President (1) certified to Congress that the PRC "has provided clear and unequivocal assurances to the United States that it is not assisting and will not assist any non-nuclear weapon state, either directly or indirectly, in acquiring nuclear explosive devices or the materials and components for such devices"; (2) makes the certifications and submits the report required by P.L. 99-183; and (3) makes a report under subsection (b)(1) or (2), reporting that the PRC government has made progress in political reforms or that it is "in the national interest" of the United States to terminate a suspension or disapproval.

FIGURE 15
Projected Growth of Nuclear Energy Capacity in China



Source: EIA, "International Energy Outlook 2017," Table H5.

China is simultaneously the largest nuclear reactor market and also possibly the most sensitive country for U.S. companies to work with in the eyes of the U.S. government.

48 The secretarial determinations from the DOE reading room show that 19 determinations were signed on the same day in 1985, where some applications had been submitted two and three years earlier.

49 CRS, "U.S.-China Nuclear Cooperation Agreement," 2015: "According to a reported NRC memorandum of April 4, 2000, DOE officials had held up 16 applications for authorization to export U.S. technology since 1998, due to disagreement about assurances, including a U.S. demand for a blanket assurance and a PRC offer of case-by-case assurances."

50 The recent slowdown, discussed in the previous Chapter, may or may not have something to do with the new nuclear cooperation agreement with China that was submitted and entered into force in 2015. In any case, delays in specific authorizations to China have coincided with nuclear cooperation agreement developments on at least three occasions. The role of the Chinese government in these instances is unclear: long delays in receiving government assurances from China have been cited in part for slow approvals in the 1990s and in recent years, but the publicly available data include no dates for when assurances were requested and when they were received.

51 This sub-Chapter draws greatly on the CRS report, "U.S.-China Nuclear Cooperation Agreement" by Mark Holt and Mary Beth D. Nikitin, 2015. In particular, the CRS report discusses the unclassified nonproliferation assessment statement which accompanied the nuclear cooperation agreement submittal to Congress in 2015.

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Both Presidents Reagan and George H.W. Bush declined to issue the required certifications to implement the U.S.-China 123 Agreement.

In 1992, China joined the NPT and in 1997, before a U.S.-China summit, the PRC joined the NPT Exporters' Committee (also known as the Zangger Committee). China also pledged in a confidential letter to Secretary of State Madeleine Albright that it would not begin new nuclear projects in Iran. On January 12, 1998, partly on the basis of these new nonproliferation commitments, President Clinton signed the required certifications to implement the 1985 agreement for nuclear energy cooperation.

China later brought into force an Additional Protocol to its IAEA safeguards agreement. It joined the NSG in 2004, and has sought membership in the Missile Technology Control Regime, though has not applied to join the Australia Group or Wassenaar Arrangement.[52] China passed the Foreign Trade Law in 1994, which forms the basis for its export control regulations and allows Beijing to control certain goods based on, for example, China's nonproliferation commitments.

China's enforcement of domestic export control policies and regulations targeting proliferation have fallen short in the eyes of the U.S. government, and these shortcomings have raised concerns about China's commitment to nonproliferation. They have also resulted in the United States sanctioning several Chinese entities for proliferation activities. The overriding concern is a lack of willingness by the Chinese government to enforce its own export controls and regulations to combat proliferation. State-owned entities have been sanctioned multiple times by the United States in connection with proliferation activities, including sales of dual-use goods to Iran and North Korea.[53] Li Fangwei, aka "Karl Lee," a Chinese national, has been sanctioned multiple times and charged by the U.S. government with "using a web of front companies to evade U.S. sanctions."[54] The FBI stated that Li Fangwei's companies had, for example, transferred items controlled by the NSG to Iran and assisted Iran's ballistic missile program.

The United States also has industrial espionage concerns when it comes to China. In May 2014, the U.S. indicted five Chinese military hackers for computer hacking, economic espionage and other offenses directed at six American firms in the U.S. nuclear power, metals, and solar products industries.[55] One individual was accused of hacking Westinghouse to steal confidential and proprietary technical and design specification information regarding the AP1000 reactor, as well as emails discussing company strategy for technology transfer negotiations with the Chinese entity that was buying the reactors.

In 2015, the Obama Administration submitted a new nuclear cooperation agreement with China to replace the expiring one. Relevant to Part 810 space, the new agreement is unique among existing U.S. nuclear cooperation agreements in that it includes the possibility to cover nuclear energy technology transfers.[56] These provisions could lead to a different paradigm in providing assurances for technology transfers, where instead of requesting assurances on a case-by-case basis, technology transfers are placed on a list that is regularly updated.[57] To date, however, this type of arrangement has not been put into practice and specific authorizations to China are still being processed under the traditional Part 810 approach of seeking assurances on a case-by-case basis. However, if a new model proves successful, it could provide a template for handling assurances in other countries, such as India.

52 In addition to the NSG, these are the other major multilateral export control groups that deal with missile technology, chemical and biological weapons, and conventional arms.

53 *https://www.voanews.com/a/us-lists-new-iran-sanctions-on-several-chinese-firms/1601679.html*; See *https://www.state.gov/documents/organization/261144.pdf* for a complete list of sanctioned entities.

54 *https://www.fbi.gov/contact-us/field-offices/newyork/news/press-releases/karl-lee-charged-in-manhattan-federal-court-with-using-a-web-of-front-companies-to-evade-u.s.-sanctions*; see also *http://www.newsweek.com/2015/07/31/iran-nuclear-deal-china-karl-lee-353591.html*

55 *https://www.justice.gov/opa/pr/us-charges-five-chinese-military-hackers-cyber-espionage-against-us-corporations-and-labor*

56 CRS, "U.S.-China Nuclear Cooperation Agreement," 2015: "The Agreed Minute includes a section on retransfers and technology exchanges. Retransfers to a third country are still subject to the requirements of the original supplier country and will need to have written consent. The United States and China are to implement a process for "obtaining government assurances needed for certain technology or information transfers." This includes a Pre-Approved Activity and Nuclear Technology List (based on the Nuclear Suppliers Group (NSG) Trigger List) and a Pre-Approved Entity List. For example, if China or the United States authorizes a transfer of a technology on the preapproved list to an entity on the preapproved list, it will notify the other party of this transfer. These lists will be updated on a yearly basis. This transfer will still be subject to transfer conditions. These measures are to give additional assurance for U.S. consent rights on further transfers within and outside of China."

57 This approach utilizes section 57 b. (1) of the AEA, instead of 57 b. (2).

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Accompanying the nuclear cooperation agreement submittal, the Obama Administration also submitted an unclassified nonproliferation assessment statement (NPAS) which identified a number of areas of concern for nuclear energy cooperation with China:

- *Military diversion:* CRS quotes the NPAS as stating: "China's strategy for strengthening its military involves the acquisition of foreign technology as well as greater civil-military integration and both elements have the potential to decrease development costs and to accelerate military modernization. This strategy requires close scrutiny of all end users of U.S. technology under the proposed Agreement." Concerns were also raised in the NPAS regarding domestic manufacturers producing components for both civil nuclear plants and China's naval program.
- *Cooperation with Pakistan:* China and Pakistan have cooperated on nuclear issues dating to 1976. In the 1990s, China supplied unsafeguarded facilities in Pakistan, linked to the Pakistani nuclear weapons program, with dual-use equipment. When China joined the NSG in 2004, it declared the supply of the Chasma 2 reactor as grandfathered (i.e., a pre-existing contract) and thus not subject to the full-scope safeguards condition in the Trigger List Guidelines. However, in 2008, partly in response to the U.S.-India Peaceful Nuclear Cooperation Agreement, China and Pakistan agreed to build two new power reactors, Chasma 3 and 4. As these reactors were not declared to the NSG in 2004, they were not grandfathered under NSG rules and their supply to a country without full-scope safeguards was inconsistent with China's obligations under the NSG.[58] China has discussed supplying two additional reactors to Pakistan in Karachi and potentially three more in Muzaffargarh.[59]

More recently, in 2016, the U.S. Department of Justice unveiled an indictment against a U.S. nuclear engineer, Szuhsiun Ho (aka "Allen Ho"), and one of the large, state-owned nuclear power companies in China, China General Nuclear Power Company (CGNPC).[60] The press release announcing the indictment stated that the two entities were charged with "conspiracy to unlawfully engage and participate in the production and development of special nuclear material outside the United States, without the required authorization from the U.S. Department of Energy."[61] It was the first U.S. indictment based on violations of the Part 810 regulations.[62] Allen Ho was also charged with conspiracy to act in the United States as an agent of a foreign government. In January 2017, Ho pleaded guilty in a plea agreement.[63] He was sentenced to two years in prison in August 2017.[64] A remaining question related to Part 810 for the U.S. government is how to treat entities in China that have relationships of varying degrees with CGNPC, an entity that has been indicted by the U.S. government.

In 2016, the U.S. Department of Justice unveiled an indictment against a U.S. nuclear engineer, Szuhsiun Ho (aka "Allen Ho"), and one of the large, state-owned nuclear power companies in China, China General Nuclear Power Company.

A separate concern is that China will take transferred U.S. intellectual property and subsequently claim that it has "indigenized" the technology. This would mean that China could sell the same technology to other countries without respecting the intellectual property rights and without U.S. government permission. This concern underscores a challenge for the U.S. government and for U.S companies which are faced with two bad options: cross off the Chinese market and potentially perish from lack of business, or sell technology once and risk that it could be altered, branded as "indigenous,"

58 *http://carnegieendowment.org/2010/06/17/china-pakistan-and-nuclear-suppliers-group-pub-41027*

59 *http://www.world-nuclear.org/information-library/country-profiles/countries-o-s/pakistan.aspx*

60 *https://www.justice.gov/opa/file/841036/download*

61 *https://www.justice.gov/opa/pr/us-nuclear-engineer-china-general-nuclear-power-company-and-energy-technology-international*

62 *http://powersource.post-gazette.com/powersource/companies/2016/09/15/Nuclear-secrets-The-ex-Westinghouse-employee-accused-of-helping-a-foreign-power/stories/201609140193*

63 *https://www.documentcloud.org/documents/2819720-Plea-agreement-for-Ching-Ning-Guey-in-nuclear.html*

64 *https://www.justice.gov/opa/pr/us-nuclear-engineer-sentenced-24-months-prison-violating-atomic-energy-act*

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and re-exported in competition with the company's original design.

To take a specific example of the complex considerations at work with nuclear technology transfers to China, consider the transfer of the AP1000 technology and the potential for China to export reactors based on Westinghouse technology. The AP1000 reactor design might not have been developed in the first place without a Chinese customer. Questions have been raised, however, as to what level of control, if any, the United States will have on the export of reactor technology from China that is based on U.S. designs, as well as control over the materials produced in any reactors based on U.S. technology.

The most important discussions for both legal and policy reasons today in Part 810 concern what U.S. government policy should be towards nuclear technology transfers and assistance to China.

CRS writes of the AP1000:

> According to Baker Donelson, the Westinghouse technology transfer agreement for the AP1000 reactor grants the Chinese only a "nonexclusive license to use that technology in China," with Westinghouse retaining all its intellectual property rights. The agreement allows the Chinese to modify the AP1000 design but they cannot export such variants "unless they do so with Westinghouse under a marketing alliance."
>
> However, the Westinghouse agreement does give China the right to export a "large passive plant," essentially a larger version of the AP1000. Such plants could be sold to any country except the United States and Japan, subject to U.S. export control laws, according to Baker Donelson. Westinghouse would have the right to participate in such export projects to the extent that they incorporated AP1000 technology. If China did not include Westinghouse in such exports, then Westinghouse would have to be compensated for any of its technology that was used.

With help from Westinghouse, the Chinese have been developing the CAP1400, the "large passive plant," both for domestic deployment and potential export.[65]

A reduction in nuclear energy technology transfers with China on the basis of previously noted concerns would have some negative impacts on the United States. It would directly reduce U.S. efforts to influence Chinese safety and security culture in a positive manner. It would negatively impact the competitiveness of the U.S. nuclear industry, which would in turn reduce the capacity of the United States to spread its safety, security, and nonproliferation stances elsewhere in the world. Finally, it would negatively impact efforts to reduce air pollution and greenhouse gas emissions in China, and potentially elsewhere.

On a positive note, China has recently worked with the U.S. government (State Department and NNSA) on various nonproliferation and security issues. For example, China committed to a Nuclear Security Center of Excellence at the 2010 Nuclear Security Summit. In 2013, China signed an arrangement with NNSA to cooperate on deterring, detecting, and interdicting smuggling of special nuclear material and other radiological materials.[66]

For the reasons discussed above, the most important discussions for both legal and policy reasons today in Part 810 concern what U.S. government policy should be towards nuclear technology transfers and assistance to China. This continues to be an active area of debate within the U.S. government, and accounts in part for delays in processing specific authorization applications to China.

B. India

Like China, India has growing electricity demand and is projected to build a large number of new reactors, as shown in Figure 14. Unlike in Russia, those nuclear builds could theoretically include U.S. designs. Although India committed to build U.S. reactors during the U.S.-India nuclear cooperation agreement negotiations, it has yet to build any of these reactors, and concerns persist about the potential impact of India's liability laws on U.S. companies.

In contrast to China and Russia, India was originally a generally authorized country. It became

65 *http://www.world-nuclear-news.org/NN-CAP1400-reactor-vessel-passes-pressure-tests-2203174.html*

66 *https://nnsa.energy.gov/mediaroom/pressreleases/china081513*

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a destination requiring specific authorization in 1983. Between 1956 and 1972, all unclassified assistance would have been generally authorized to India, including power reactor, reprocessing, enrichment, and heavy-water technologies.

Canada and the United States provided assistance to India in building the CIRUS (Canada-India-Reactor-United-States) research reactor at Trombay.[67] The IAEA did not exist when the assistance began in 1954, and the reactor was not under IAEA safeguards when it went critical in 1960, nor at any time during the rest of its operations. The United States provided the initial supply of heavy water to operate the reactor, Canada supplied the reactor, and India made pledges to both countries that the CIRUS reactor would only be used for peaceful purposes. Despite these pledges, India took the used nuclear fuel from the CIRUS reactor, reprocessed the material at an unsafeguarded reprocessing facility, and used the plutonium for a nuclear explosive test in 1974. India called the test a "peaceful nuclear explosion," though it was clearly the first test of a nuclear weapons program that continues today, and India tested more nuclear weapons in 1998. The International Panel on Fissile Materials estimates that before it was shut down in 2010, CIRUS produced 165 to 270 kg of plutonium[68] and that by the end of 2014, India possessed 110-120 nuclear warheads.[69]

India's nuclear explosive test in 1974 spurred the passage of the NNPA. As discussed in Chapter II, the NNPA added the requirement of State Department concurrence to Secretarial determinations under Part 810, and consultations with the DOD, DOC, and the NRC. The NNPA also added language to Section 123 of the AEA which included a new requirement that future nuclear cooperation agreements should only be negotiated with NNWS that accept IAEA safeguards on all of its nuclear materials (i.e., "full-scope safeguards"), which would exclude countries like India, Pakistan, and Israel.

India has not signed the NPT and is considered a NNWS under the NPT as it did not test its nuclear weapons prior to 1967. This means that under Article I of the NPT, the United States and other NWS can do nothing that might "in any way assist" India "to manufacture or otherwise acquire nuclear weapons or other nuclear explosive devices." Also, India has made no legally binding commitment to eliminate its nuclear weapons arsenal, as Russia, the UK, China, France, and the United States are all bound to by Article VI of the NPT.

As was also discussed in Chapter II, the nuclear explosive test in 1974 partly led to the formation of the NSG and ultimately international isolation of India from nuclear energy commerce. In 1992, the NSG adopted a stronger nonproliferation stance that required suppliers to authorize transfers of Trigger List items to NNWS only when full-scope safeguards were in place. This followed the policy set out in the NNPA, and meant that the major nuclear suppliers would not trade with countries such as India, Pakistan, and Israel.

In 1995, the NSG added "or related technology," which made the technology associated with Trigger List items subject to the same conditions of supply. As a result, India did not qualify for these additional nuclear energy technology transfers under Part 810.

After the George W. Bush Administration began pushing to open civil nuclear trade with India, Congress passed the Hyde Act in 2006,

India has not signed the NPT and is considered a NNWS under the NPT as it did not test its nuclear weapons prior to 1967.

which put in place several requirements for any such trade. In particular, the President was required to make a determination on several items in order to waive the sections of the AEA, as amended, that would otherwise prevent commercial trade with India.

For example, as discussed above, Section 123 a.(2) of the AEA, as amended, would prohibit nuclear cooperation agreements with NNWS that do not have IAEA safeguards "maintained with respect to all nuclear materials in all peaceful nuclear activities." In order to waive Section 123 a.(2), the Hyde Act required the President to make a determination that several actions had occurred, including:

67 *http://www.nti.org/learn/facilities/832*

68 *http://fissilematerials.org/blog/2010/12/india_shuts_down_cirus_re.html*

69 *http://fissilematerials.org/countries/india.html*

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> (1) India has provided the United States and the IAEA with a credible plan to separate civil and military nuclear facilities, materials, and programs, and has filed a declaration regarding its civil facilities and materials with the IAEA… (7) The NSG has decided by consensus to permit supply to India of nuclear items covered by the guidelines of the NSG.

The conference report to the Hyde Act also stated: "Clause (B)(ii) would require that, with respect to any authorizations issued by the Secretary of Energy pursuant to section 57 b. of the Atomic Energy Act of 1954 (42 U.S.C. 2077(b)): …the nuclear technology identified for transfer will be used only for safeguarded nuclear activities…"

A list of Indian facilities that would be placed under IAEA safeguards was eventually developed.[70] In order to satisfy the provision regarding the NSG, the United States pushed for an exemption to the NSG requirement of full-scope safeguards for civil nuclear energy trade, which was agreed to at an extraordinary plenary session of the NSG in September of 2008.[71] The document describing this exemption, INFCIRC/734, allows nuclear cooperation between NSG-participating governments and India, but treats India as a NNWS: only trade with IAEA-safeguarded facilities is allowed. As the IAEA does not typically safeguard nuclear facilities (e.g., power reactors) in nuclear weapons states, the United States is allowed to, for example, provide materials and equipment to unsafeguarded power reactors in the UK. INFCIRC/734 states:

> Notwithstanding paragraphs 4(a), 4(b) and 4(c) of INFCIRC/254/Rev.9/Part 1, Participating Governments may transfer trigger list items and/or related technology to India for peaceful purposes and *for use in IAEA safeguarded civil nuclear facilities*, provided that the transfer satisfies all other provisions of INFCIRC/254/Part 1, as revised, and provided that transfers of exports remain subject to paragraphs 6 and 7 of the Guidelines. [emphasis added]

That is another reason India cannot be completely designated as a generally authorized destination: technology transfers to unsafeguarded sites would be in violation of U.S. commitments under the NSG Trigger List Guidelines and potentially Article I of the NPT. As noted in INFCIRC/734, paragraphs 6 and 7 still apply to India, and in as much as those paragraphs require NPT membership for the transfer of enrichment, reprocessing and heavy-water equipment and technology, India does not qualify for such technology transfers.

After the exemption for India was agreed to in the NSG, Congress approved the U.S.-India nuclear cooperation agreement, signed by President Bush in October 2008.[72]

C. Russia

Similar to the situation with China, U.S. companies have been required to get specific authorization to do work with Russian entities since 1956. Unlike China and India, however, there is no real prospect for building a U.S.-designed reactor in Russia. The United States does, however, engage in cooperation with Russia in some areas of nuclear energy research and the two nations have a nuclear cooperation agreement in force. For example, the BOR-60 reactor in Russia is used by some U.S. entities for testing purposes. TerraPower is one U.S. company using the BOR-60 reactor for some of its experimental work.[73]

Also similar to China, the nuclear energy cooperation relationship with Russia is complicated and subject to considerations beyond nonproliferation. The United States and Russia originally tried to sign a civil nuclear energy cooperation agreement in 2008, but the agreement was withdrawn later that year in response to Russia's military actions in Georgia. The agreement was then submitted in 2010 and was considered approved by the end of that year.

Following the Russian annexation of Crimea, the United States imposed sanctions on Russia in 2014, and Russia ultimately suspended a 2013 nuclear energy research and development agreement in retaliation.[74] The Russian incursion in Ukraine

70 See INFCIRC/731: *https://www.iaea.org/sites/default/files/publications/documents/infcircs/2008/infcirc731.pdf*

71 *https://www.iaea.org/sites/default/files/publications/documents/infcircs/2008/infcirc734c.pdf*

72 *http://www.nti.org/media/pdfs/india_nuclear.pdf?_=1316466791*

73 *http://terrapower.com/technologies/progress*

74 *http://www.world-nuclear-news.org/NP-Russia-withdraws-from-US-nuclear-cooperation-07101601.html*

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led to a separate section of the Part 810 regulations that exclusively deals with activities there (Section 810.14).

Specifically, the final Part 810 rulemaking in 2015 stated:

> Recent geopolitical developments in Ukraine involving the Russian Federation underlie the U.S. Government's determination to help ensure that Ukraine is able to maintain a stable civil nuclear energy program independent of and without support from the Russian Federation.

In 2017, in response to Russian interference in the 2016 U.S. election, S.94, the "Counteracting Russian Hostilities Act of 2017," was introduced in Congress. Section 209 of the bill would create, among other things, sanctions "with respect to the development of civil nuclear projects by the Russian Federation." As it includes "goods, services, technology, information, or support that could directly and significantly facilitate the maintenance or expansion of the construction, modernization, or repair of civil nuclear plants by the Russian Federation," there could be an impact on specific authorizations.[75] A bill with different sanctions against Russia, H.R. 3364 ("Countering America's Adversaries Through Sanctions Act"), was however passed on August 2, 2017.

Similar to China, the nuclear energy cooperation relationship with Russia is complicated and subject to considerations beyond nonproliferation.

Nuclear energy cooperation between the United States and China, India, and Russia remains complicated and in some cases, deeply frustrating to U.S. nuclear energy companies. Improving the U.S. government processing steps and speed to give U.S. companies an answer—one way or another—would improve the situation to a degree, though delays from government to government assurances from these countries are out of U.S. government control. The next Chapter will recommend ways that the Part 810 regulations and their implementation could be improved.

75 See *https://www.morganlewis.com/blogs/upandatom/2017/03/senate-bill-would-restrict-us-civil-nuclear-cooperation-with-russia* for a discussion of S.94 and potential impacts.

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CHAPTER VI

RECOMMENDATIONS

As previous sections have discussed, the general authorization available under Part 810 provides an efficient way for U.S. companies to do business with specified foreign entities. Current U.S. policy is that countries can only become generally authorized destinations after they have concluded nuclear cooperation agreements with the United States.

The United States should seek to incentivize nonproliferation commitments by providing more efficient and effective access to civil nuclear energy services and products.

This means that U.S. companies will have to use the specific authorization process for both the large existing markets of China and India, as well as emerging opportunities in nations such as Jordan and Saudi Arabia. Providing U.S. companies with an answer—either an approved authorization or a denial—in a shorter and more predictable amount of time, would be helpful in both circumstances. This Chapter focuses on recommendations to achieve this goal, based on the analysis in the preceding Chapters.[76]

When nations step forward to begin new nuclear power programs, as long as they meet the criteria in the NSG Trigger List Guidelines, they will have access to multiple alternate suppliers if the U.S. chooses not to do business with them (or is simply too slow in approving licenses, or is perceived to be too burdensome to work with). This reality should be embedded in the analysis framework of Part 810.

The U.S. government should recognize that NNWS that are party to the NPT and have in place both a comprehensive safeguards agreement and an Additional Protocol with the IAEA have made substantial nonproliferation commitments. The United States should seek to incentivize nonproliferation commitments by providing more efficient and effective access to civil nuclear energy services and products. Using additional criteria that demonstrate U.S. intent to cooperate on nuclear energy matters, including other U.S. regulations (e.g., the multiple country lists in Part 110), membership in the NSG, existing project supply agreements, and previous Part 810 authorizations, DOE should create a set of countries for which Part 810 authorizations can be fast tracked.[77] In addition, DOE should develop categories of activities, similar to the categories proposed in Chapter III, that are eligible to be fast tracked.

This would effectively create new authorization pathways between the general authorization and specific authorization poles of Part 810 to more appropriately process applications based on the significance of the proposed activity. This is schematically illustrated in Figure 16 for fast track activities that need government to government assurances, and those that do not.

For reforms to succeed, the Office of the Secretary of Energy will need to be involved, as two of the offices that are involved in processing applications for specific authorization are outside of NNSA and one of them reports directly to the Secretary (the Office of General Counsel) while the other (the Office of Nuclear Energy) reports to the

76 This report does not represent a legal opinion, nor does it offer advice of counsel for the Nuclear Innovation Alliance.

77 Appendix A to this report shows an example list of countries that meet the objective criteria described above and individual countries are highlighted by various indications of U.S. intent to cooperate on nuclear energy.

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Undersecretary for Energy and Science (who does not sign specific authorization packages). The organization chart for the relevant DOE offices is depicted in Figure 17.

To achieve a more efficient and risk-informed licensing process, the following actions are recommended:

A. Executive Branch

Recommendation 1: *DOE should initiate a new rulemaking to establish two fast track authorization pathways for specified activities in countries that have made significant nonproliferation commitments. One fast track authorization should focus on applications that need government to government assurances, and a second should involve applications that do not require such assurances. In both cases, DOE should establish the types of activities that qualify for fast track approval, along with a list of countries eligible for expedited consideration.*

The Part 810 regulations already have in place a type of fast track authorization for operational safety activities in Section 810.6(c)(2). This section provides authorization for furnishing "operational safety information or assistance to existing safeguarded civilian nuclear reactors outside the United States in countries with safeguards agreements with the IAEA or an equivalent voluntary offer, provided DOE is notified in writing and approves the activity in writing within 45 days of the notice." Given the type of activity (operational safety assistance to IAEA safeguarded reactors) and the type of destination (countries with safeguards agreements with the IAEA or an equivalent voluntary offer) the expectation is that a given application will be approved, though the process still affords the U.S. government an opportunity to review and potentially reject the application.

The first fast track authorization pathway could be modeled on Section 810.6(c)(2), where the identified activities and destinations would not need government-to-government assurances. Following the model in Section 810.6(c)(2), the new pathway would allow companies to notify DOE that they are intending to pursue specific activities and if they do not hear back from DOE after a specified amount of time, e.g., 45 days, that the activity is deemed to be approved. For example, two types of activities could be candidates for this fast track approval: (1) deemed exports and (2) consulting services for LWRs and thermal-spectrum gas-cooled reactors (and perhaps other technologies identified by DOE) that are under IAEA safeguards.

DOE could base its proposal on several objective criteria to begin constructing a list of countries eligible for fast track status. For example, the agency could start with NNWS that are party to the NPT and have a comprehensive safeguards agreement and an Additional Protocol in place with the IAEA. Second, DOE could consider previous indications of U.S. intent to cooperate with countries, in the form of existing project supply agreements,

FIGURE 16
Adding New Fast Track Authorization Pathways to Part 810

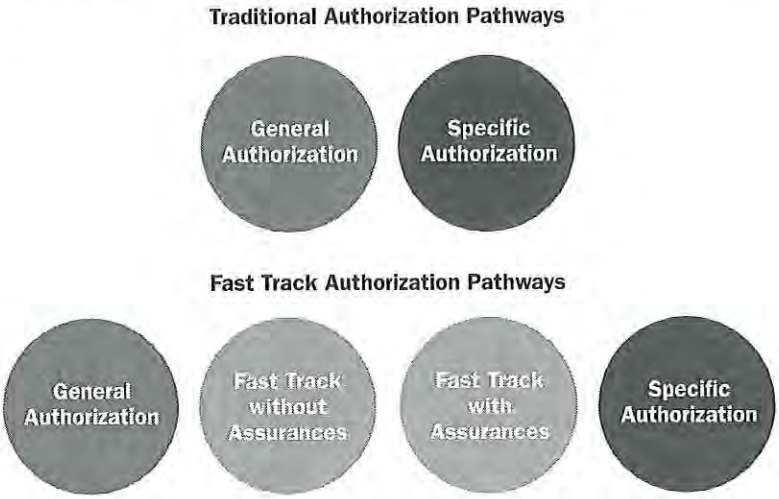
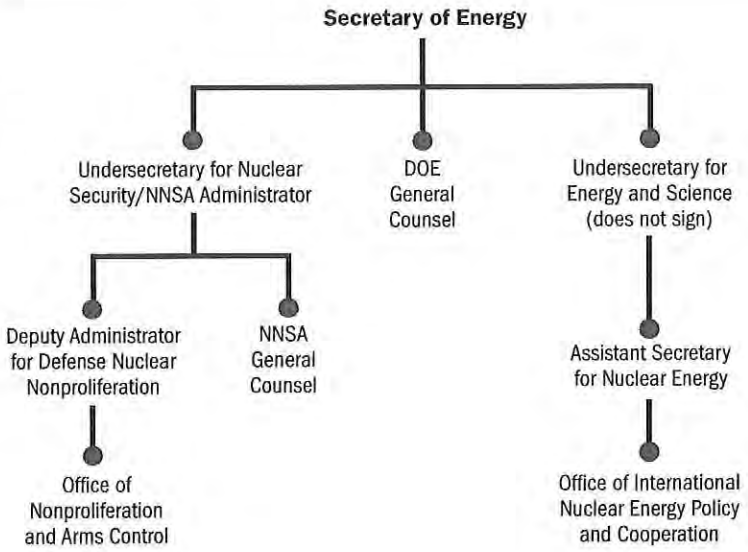


FIGURE 17
DOE Offices Involved in Processing Specific Authorization Applications



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membership in the NSG, the country list in NRC's 10 CFR Part 110.26, and prior Part 810 authorizations. Appendix A to this report shows a list of countries that meet the first set of criteria and highlights some countries that meet elements of the second criteria.

The second fast track authorization pathway should be for activities in which country-to-country assurances are required. For specific technologies (e.g., LWRs, thermal high temperature gas reactors, and perhaps others) DOE's proposed rule should establish an authorization pathway through which applications are immediately sent to the State Department to begin the process of seeking assurances, again with the expectation of approval given the bounded set of activities and destinations. As with the first pathway, if the U.S. government does not object within a set amount of time (e.g., 45 days) the company is notified that their proposed activity is deemed to be approved, and they can begin work upon receipt of the government to government assurances. The destination criteria should be similar to the country criteria described in the first fast track pathway above.

DOE's proposed rule should establish an authorization pathway through which applications are immediately sent to the State Department to begin the process of seeking assurances.

Recommendation 2: *The White House should issue an Executive Order that affirms the importance of efficient processing of Part 810 applications to U.S. commercial and national security interests, and directs improvements toward that aim. The Executive Order should establish timelines for each stage of the specific authorization process, and state that the relevant federal agencies should continue to process applications for specific authorization while government to government assurances are being sought.*

As a model, the new Executive Order should look to Executive Order 12981, which governs the export of dual-use items. That Executive Order set out timelines for agency actions, as well as provisions for handling incomplete applications and establishing mechanisms to resolve interagency disputes.

The Executive Order for Part 810 should state that it is the policy of the U.S. government to continue processing applications for specific authorization while government assurances are being sought (for the cases where assurances are deemed to be needed). Specifically, the Executive Order should direct the consulting agencies to provide their views within a specified amount of time (e.g., 30 days) regardless of whether the assurances for a given application have been received. Similar to Executive Order 12981, silence from any agency after that deadline should not hold up the process. The State Department should also be directed to provide its views in the same amount of time, but may provide its concurrence subject to the receipt of assurances. The Executive Order should direct DOE to continue processing Part 810 applications while government assurances are being sought and while the interagency review is ongoing. It should direct the Secretary of Energy to either issue an authorization, deny an authorization, or issue an authorization subject to the receipt of assurances within 20 days of interagency review completion. The Executive Order should explicitly reflect the understanding among the federal agencies involved that ultimately, for applications that are deemed to require government to government assurances, the proposed activities will not go forward unless the requisite assurances are received; however, the U.S. government will continue to process applications while those assurances are being sought to better ensure a timely response to U.S. companies.

The Executive Order should also direct DOE to transmit applications for specific authorization to the relevant federal agencies within 30 days of receipt. For applications to China and Russia, pursuant to the Fiscal Year 2016 NDAA, the Executive Order should include provisions for the Office of the Director of National Intelligence to provide the views of the intelligence community in a timely manner (e.g., within 30 days).

Separate from application processing timelines, the Executive Order should direct the U.S. Department of State to proactively seek generic assurances from States (as discussed in Recommendation 5 below), where possible, to eliminate the assurance step in the specific authorization process to the maximum extent possible.

Finally, the Executive Order should direct the relevant federal agencies to have regular (e.g., monthly) meetings to discuss specific authorization cases where disputes have arisen. This would be similar to the Operating Committee and Advisory

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The NuScale Power Control Room Simulator is designed to simulate the operation of a 12-module NuScale power plant.

Committee on Export Policy meetings established by Executive Order 12981 for dual-use item licensing. Currently, there is no formal in-person meeting for the involved agencies to discuss specific authorization cases. In-person meetings would improve the efficiency of dispute resolution.

Recommendation 3: *For specific authorization applications, DOE should return to the pre-2005 process under which the Secretary of Energy signs determinations subject to the receipt of assurances. At a minimum, it should continue to process Part 810 packages while the interagency review process is ongoing and assurances are being sought by the State Department, so that applications are before the Secretary of Energy and ready to be signed immediately upon receipt of the assurances.*

As Figure 12 and Table 5 show, after the interagency review has concluded and the assurances have been provided, DOE still takes a long time to complete processing applications for specific authorization. There is no reason, however, that DOE needs to delay its processing of applications until the interagency review stage is finished. Various DOE offices do not need to see the government to government assurances themselves to sign off on specific authorization packages headed to the Secretary's desk for signature. It should be clearly understood that any proposed activity will not go forward without assurances being provided for the activities where they are deemed to be necessary. This procedural change would save potentially months of processing time and give U.S. companies a decision more quickly.

Returning to the pre-2005 policy, under which the Secretary signs determinations subject to the receipt of assurances would provide U.S. companies an earlier notification that the U.S. government has approved the activity, pending the receipt of foreign government assurances. This would reduce uncertainty for U.S. businesses and speed up specific authorization approvals without any reduction in nonproliferation controls.

It should be clearly understood that any proposed activity will not go forward without assurances being provided for the activities where they are deemed to be necessary.

Recommendation 4: *The DOE Offices of Nonproliferation and Arms Control, Nuclear Energy, and Intelligence should prepare a classified report analyzing the risks and benefits of nuclear energy technology transfers with China to provide a framework for future internal U.S. government discussions.*

These offices together have the capabilities to assess the commercial, nonproliferation, and intelligence aspects of nuclear energy technology transfers to

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TerraPower explores the features and performance characteristics of the fuel and fuel assemblies for their sodium-cooled reactor in their Bellevue, WA based laboratory.

China. The report should break nuclear energy technology transfer into categories, such as those listed in Chapter III, and analyze the risks and benefits of transfers to China for each. The study should also discuss the risks and benefits of *not* transferring technologies to China, including potentially slowing down progress on decarbonization and reducing air pollution in East Asia (and elsewhere), adverse impacts on the U.S. nuclear industry and associated national security concerns, as well as other considerations. An assessment of the nuclear energy technologies available and being supplied to China from other countries (e.g., Russia, France, ROK, Japan), along with China's own independent R&D progress, would provide additional context for a balanced accounting of the risks and benefits associated with specific authorizations to China.

Recommendation 5: *The U.S. Department of State should seek generic assurances from countries, where possible, to cover transfers under Part 810 before applications for export are submitted.*

A strategy independent from the fast track described above, and more similar to Section 110.26, is that the U.S. government should seek generic assurances from individual countries for some or all of the exports under Part 810. DOE could then process applications to countries more quickly, perhaps in combination with a fast track approval process, as the assurances step would already be completed. Even without a fast track, this would speed up the conventional specific authorization process. The success of this approach would depend on the willingness of foreign governments to provide such assurances, of course, and there is no guarantee that individual countries would be willing to do so. The scope of what the assurances cover—what types of activities, what projects, etc.—would likely vary from case to case, but could still save the U.S. government and U.S. companies time and resources.

Recommendation 6: *DOE should re-examine its legal position that delegation of authority by the Secretary of Energy for activities under Section 57b is prohibited by Section 161n of the AEA.*

The Secretary of Energy currently signs off on every Part 810 specific authorization, no matter how minor, as well as extensions and relatively minor amendments to existing authorizations, because of the DOE's legal interpretation of Section 161n as prohibiting delegation by the Secretary to others.

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This requirement adds weeks, if not months, to the processing of specific authorization applications, with no obvious benefit. It is difficult to see why the Secretary of Energy's attention is needed or useful in any way for approving the hiring of foreign nationals, minor amendments to existing authorizations, renewals of authorizations, or other relatively technical or small-scale activities, such as operational consultations to existing LWRs under IAEA safeguards.

The other functions listed in Section 161n (Sections 51, 61, 108, 123, 145 b., 145f., and 161a. of the AEA) include, for example, major nuclear energy actions that are infrequent. The negotiation of a nuclear cooperation agreement under Section 123 is rare (perhaps once a year or less) and the AEA requires the President to submit it to Congress—clearly a function of high importance. By contrast, between specific authorization applications, amendments to existing authorizations, and renewals to existing authorizations, there are actions under Part 810 that DOE must sometimes handle on an almost weekly basis, and which are comparatively minor in nature.

In 1954, prohibiting delegation by the AEC made sense: a determination to transfer nuclear technology from the United States could very well mean that a country might have a new nuclear energy program in a substantially shorter amount of time. But that was during a period when the United States was the predominant supplier of nuclear technology and aspiring countries had few alternatives for assistance, if any.

Today, the United States has had a comparatively weak role in new nuclear builds over the past several decades, and other supplier countries are in a better position to provide many of the services that are licensed under Part 810. The long processing times for specific authorizations make it harder for U.S. companies to win competitive bids against foreign suppliers. A more nimble, flexible process is needed to compete in today's marketplace, and moving away from a requirement for the Secretary of Energy to sign off on minor details for Part 810 authorizations is a sensible and appropriate step towards more efficient engagement with the global nuclear market.

By contrast, the NRC Commissioners do not review most applications for the export of materials and equipment under the NRC's Part 110 regulations, and the NRC does not send most Part 110 applications to the Executive Branch for review. In other words, the delegation of relatively minor activities by the Secretary of Energy, and an expedited review for activities of lesser significance, is consistent with nuclear export control practices elsewhere in the federal government.

The long processing times for specific authorizations make it harder for U.S. companies to win competitive bids against foreign suppliers.

B. Congress

Recommendation 7: *If DOE continues in its determination that delegation of authority by the Secretary of Energy for activities under Section 57b is prohibited by Section 161n, Congress should amend Section 161n of the AEA to permit delegation, recognizing the very different global reality today as compared with 1954, as well as the minor activities that are currently being sent to the Secretary of Energy.*

The rationale for this action is the same as that for Recommendation 6.

C. Industry

Recommendation 8: *Advanced reactor companies that intend to pursue work with foreign entities should engage DOE on Part 810 early in a similar manner to the pre-application interactions with the NRC on reactor design licensing.*

The NRC has a policy of encouraging early discussions with potential applicants for reactor design certification to offer licensing guidance and to identify and resolve potential licensing issues early in the process.[78] Similarly, early engagement between advanced reactor companies and DOE would familiarize the U.S. government with the technologies involved and also the potential end users under consideration. These interactions would provide early feedback to U.S. reactor companies on potential challenges with specific destinations and end users, as well as any concerns with the

78 For example, see: *https://www.nrc.gov/reactors/new-reactors/advanced/oklo.html* or *https://www.nrc.gov/reactors/new-reactors/design-cert/nuscale/pre-app.html*

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reactor technology itself. In this way, companies can get a "pre-run" of future exports, and even ask for an official "request for determination" to get a particular statement in writing. Unlike the NRC, DOE does not charge U.S. companies either for pre-application interactions or for the processing of applications for specific authorization.

Recommendation 9: *Industry should create a forum to share Part 810 experiences for the purpose of raising the quality of applications that are submitted to DOE.*

Companies that are new to the Part 810 process would especially benefit from hearing more experienced companies explain what information the U.S. government needs to process applications.

One challenge for the U.S. government in processing Part 810 applications is the submission of incomplete applications where the government deems it necessary to return to the applicant for additional information. Companies that are new to the Part 810 process would especially benefit from hearing more experienced companies explain what information the U.S. government needs to process applications. An industry forum to share successful application approaches would help newer companies understand what information to include in deemed export applications, general consulting services applications, reactor bid competitions, etc. The point is to identify the kinds of information needed by the government in different types of Part 810 applications to facilitate successful processing, and to share knowledge about application structures that have worked well. This should help to cut down on processing times and reduce the resources expended by both private companies and the U.S. government.

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ABBREVIATIONS

AEA	Atomic Energy Act of 1954
AEC	Atomic Energy Commission (U.S.)
CCL	Commerce Control List
CIRUS	Canada-India-Reactor-United-States
CRS	Congressional Research Service
DOC	Department of Commerce (U.S.)
DOD	Department of Defense (U.S.)
DOE	Department of Energy (U.S.)
EAR	Export Administration Regulations
EIA	Energy Information Administration (U.S.)
FOIA	Freedom of Information Act
GAO	Government Accountability Office (U.S.)
IAEA	International Atomic Energy Agency
LWR	Light-water reactor
NDAA	National Defense Authorization Act
NNPA	Nuclear Nonproliferation Act of 1978
NNSA	National Nuclear Security Administration (U.S.)
NNWS	Non-nuclear weapon state
NRC	Nuclear Regulatory Commission (U.S.)
NSG	Nuclear Suppliers Group
OECD	Organisation for Economic Co-operation and Development
Part 110	10 CFR Part 110
Part 810	10 CFR Part 810
ROK	Republic of Korea

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APPENDIX A

Representative countries and criteria for fast track destination list

THE FOLLOWING COUNTRIES ARE NNWS THAT ARE PARTY TO THE NPT, AND have a comprehensive safeguards agreement[79] and an Additional Protocol[80] in force with the IAEA, but are not generally authorized destinations under Part 810. Countries in bold meet at least one of the fast track criteria discussed in Chapter IV.

1. Afghanistan
2. Albania
3. Andorra
4. Angola
5. Antigua and Barbuda
6. **Armenia** – *previous Part 810 authorizations on record*
7. Azerbaijan
8. Bahrain
9. Bangladesh
10. Bosnia and Herzegovina
11. Botswana
12. Burkina Faso
13. Burundi
14. Cambodia
15. Cameroon
16. Central African Republic
17. Chad
18. **Chile** – *project supply agreement in place*
19. Comoros
20. Congo
21. Costa Rica
22. Cote d'Ivoire
23. Cuba
24. D.R. Congo
25. Dominican Republic
26. Ecuador
27. El Salvador
28. Fiji
29. Gabon
30. Gambia
31. Georgia
32. Ghana
33. Guatemala
34. Haiti
35. Holy See
36. **Iceland** – *membership in the NSG*
37. Iraq
38. Jamaica
39. Jordan
40. Kenya
41. Kuwait
42. Kyrgyzstan
43. Lesotho
44. Libya
45. Liechtenstein
46. Madagascar
47. Malawi
48. Mali
49. Marshall Islands
50. Mauritania
51. Mauritius
52. **Mexico** – *project supply agreement in place; membership in the NSG; previous Part 810 authorization on record*
53. Monaco
54. Mongolia
55. Montenegro
56. Mozambique
57. Namibia
58. **New Zealand** – *appears on NRC's 110.26 country list; membership in the NSG*
59. Nicaragua
60. Niger
61. Nigeria
62. Palau
63. Panama
64. Paraguay
65. **Peru** – *project supply agreement in place*
66. **Philippines** – *appears on NRC's 110.26 country list, previous Part 810 authorization on record*
67. Republic of Moldova
68. Rwanda
69. Seychelles
70. **Singapore** – *previous Part 810 authorization on record*
71. St. Kitts and Nevis
72. Swaziland
73. Tajikistan
74. The FYROM
75. Togo
76. Turkmenistan
77. Uganda
78. United Republic of Tanzania
79. Uruguay
80. Uzbekistan
81. Vanuatu

79 As of April 30, 2015: *https://www.iaea.org/publications/factsheets/npt-comprehensive-safeguards-agreements*

80 As of October 7, 2016: *https://www.iaea.org/safeguards/safeguards-legal-framework/additional-protocol/status-of-additional-protocol*

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Enabling Nuclear Innovation
Part 810 Reform

Improving the Efficiency of U.S. Export Controls for Nuclear Energy Technologies

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The purpose of this report is to propose actions for Congress, the Executive Branch, and industry that will provide U.S. companies with either approval or denial of their export applications in a shorter period of time. The current 10 CFR Part 810 (Part 810) specific authorization process has lengthened to the point where industry has stated that it is impacting U.S. commerce. A more efficient process will aid nuclear energy innovation, as the projected growth in nuclear energy use is primarily in developing regions of the world, where U.S. activity is regulated by Part 810. Improving regulatory efficiency will help to reduce greenhouse gas emissions and air pollution, while also improving the quality of life for people around the world and creating U.S. jobs.

Recommendations include an Executive Order to set timelines for the efficient processing of export applications, fast track authorization pathways for specified activities and destinations, changes to the current processing structure for export applications, industry forums to improve application quality, and delegation by the Secretary of Energy of less significant activities under Part 810.

info@nuclearinnovationalliance.org • www.nuclearinnovationalliance.org

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ENABLING NUCLEAR INNOVATION: PART 810 REFORM
Improving the Efficiency of U.S. Export Controls for Nuclear Energy Technologies
SUPPLEMENTAL MATERIAL
December 2017

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APPENDIX B: EXAMPLES OF GENERALLY AUTHORIZED ACTIVITIES 1981-1982

Reports from generally authorized activities are not normally made public. The following is a list of generally authorized activities that were reported during an 18-month period (Feb. 1981 - June 1982). The list was requested by and provided to the House Committee on Foreign Affairs, as part of a hearing on June 24, 1982 entitled "Controls on exports of nuclear-related goods and technology." Since that time, the list of countries that are generally authorized destinations has changed, as has the scope of control for Part 810; thus, some of the following entries will not be representative of generally authorized activities today. They do, however, help to illustrate the broad range of activities that have been reported on under Part 810 in the past.

1. Presentation of general description of BWR to N.E.D. University of Pakistan.
2. Study of radionuclides likely to be released into environment by LMFBR's, types and effectiveness of equipment to reduce releases, for a Japanese organization.
3. Survey of PWR reactor pressure surveillance capsule test data to be performed based on public domain information for a Japanese organization.
4. Survey of U.S. thermal hydraulic test loop facilities for fuel bundle proof testing based on information in the public domain, for a Japanese organization.
5. NRC sponsored visit to a U.S. BWR facility by a PRC State Science and Technology Commission team.
6. Department of Commerce sponsored visit to a U.S. BWR facility by a PRC State Science and Technology Commission team.
7. Request by a Finnish utility to join Core Performance Assessment Group that monitors and assesses nuclear fuel performance in various reactor types.
8. Transfer of proprietary manufacturing information related to manufacture of pressurizers and steam generators for use in nuclear power plants to a Korean company.
9. Training an Israeli engineer in BWR engineering disciplines.
10. List of sales by licensees of a U.S. corporation of nuclear steam supply systems and components.

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11. Technical information exchange agreement between a U.S. corporation and a corporation in the United Kingdom concerning information exchange on the development of fast breeder reactor technology.
12. Literature study on uranium enrichment explicitly limited to open technical literature for a Japanese corporation.
13. Survey of U.S. radwaste technology for a Japanese corporation.
14. Survey of nuclear fuel data of U.S. utilities, including financing arrangements, for a Japanese corporation.
15. Survey of seismic risk assessment in nuclear power plants for a Japanese corporation.
16. Report summarizing methods for storage tank and containment analysis aimed at designing a rational buckling design procedure, prepared for a Japanese corporation.
17. Report for a Japanese corporation on Kemiterm Radwaste Processing Plant operational experience.
18. Report for a Japanese corporation, reviewing analysis and design considerations related to the U.S. BWR Mark I program.
19. Seismic consultation to a Japanese corporation concerning evaluation of structures, improvement of techniques.
20. Seismic engineering practice survey report for a Japanese corporation.
21. Program for transfer of U.S. pressure vessel technology to a Korean corporation.
22. Classroom and on the job training for two Korean engineers in piping analysis and thermal hydraulic analysis.
23. Radwaste solidification systems review for a Taiwan corporation.
24. Development of alternate methods for piping stress analyses for nuclear power plant piping for a Japanese corporation.
25. Provide technical assistance with piping layout for a nuclear power plant in Japan.
26. Provide technical assistance with analysis of flow-induced vibrations for a Japanese corporation.
27. Prepare emergency facility response study for a Swiss nuclear plant operator.
28. Provide analysis and consultative services to a Swedish nuclear power plant operator to improve its safety assessment system.
29. Review existing computer system of a Swiss nuclear power plant and advise the operator on ways to enhance the system.
30. Supply a Japanese corporation with an analysis of its BWR recirculation system.
31. Technical cooperation between a U.S. and a West German corporation to license and manufacture under a reciprocal arrangement BWR steam supply systems, PWR fuel and core components, and PWR steam supply system services.
32. Provide a seminar to two Japanese corporations on decontamination and decommissioning of power plants and parts.
33. Conduct a survey and prepare a report for a Japanese corporation concerning the experience of U.S. power plants with automatic frequency control systems.
34. Supply minicomputer system hardware to a Taiwanese nuclear power plant.

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35. Supply dry cleaning machine, spare parts, manuals, radiation detection package, and training operation to the Korean Government.
36. Assist a Japanese corporation in reviewing the current methods of nuclear power plant aseismic design.
37. Assess needs of a Taiwanese utility for spent nuclear fuel storage and prepare a feasibility study which will address these needs.
38. Collect information for a Japanese corporation on regulations and implementing procedures dealing with disposal of extremely low level radioactive solid waste.
39. Provide technical assistance in planning, construction, and start-up of a BWR nuclear fuel manufacturing facility in Spain.
40. Discussions with representatives of French, Dutch, Belgian, and West German organizations regarding exchange on LMFBRs.
41. Prepare a report for a Japanese corporation on post-accident sampling capabilities and status. The report is oriented toward BWR technology.
42. Prepare an analysis of auxiliary feedwater system reliability for a Brazilian nuclear power plant in various emergency conditions.
43. Provide assistance in the evaluation of seismic factors affecting the design, construction, fabrication and operation of a nuclear power plant in the U.K.
44. Provide publicly available documents on radiological emergency planning in the U.S. for a Japanese corporation.
45. Summarize for a Japanese corporation the system design objectives in a U.S. nuclear power plant, focusing on the steam generator blowdown and recovery steam.
46. Prepare for a Swiss and A British utility two surveys of the nuclear regulatory activities of the U.S. commercial nuclear power plants.
47. Prepare and transmit to a Japanese corporation status reports and related information concerning the development of safety goals for nuclear power plants in the U.S.
48. A week of discussions with Japanese companies of current LMFBR development in the U.S. (information available in open literature).
49. Prepare for a Japanese corporation a survey of users of small scale nuclear simulators to determine goals and results of their use and to contact suppliers of simulators for technical information.
50. Provide to a Taiwanese utility the access to a clearinghouse for exchange of operations, maintenance, technical and management problems and their solution.
51. Prepare for a West German corporation a survey of U.S. R&D, regulations and plant status regarding vessel cracking caused by thermal shock.
52. Prepare for a Japanese corporation a survey of daily and monthly news reports of U.S. activities related to TMI-2 accident.
53. Prepare a report for a Japanese corporation describing C-14 generation, release to environment, control measures and research being undertaken.
54. Provide fifty-three units of reactor general and mechanical maintenance videotape training program to the South African Electricity Supply Commission.

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55. Provide topic 1 (basic Power Plant Operation) of the 20-topic Power Principles Program to the Israel Electric Corporation.
56. Perform a survey for a Japanese corporation of the U.S. nuclear power policy/strategy and the R&D status of nuclear fuel cycle processes/systems.
57. Prepare for a French national a survey of non-proprietary literature on upgrading of nuclear power plant controls rooms.
58. Prepare for a West German corporation a survey of the non-proprietary literature on BWR Core Spray Systems.
59. Provide information and negotiation support services for a Taiwanese utility on various aspects of the fuel cycle excluding enrichment and reprocessing.
60. Prepare a report for a Japanese corporation on the U.S. utility emergency planning status.
61. Prepare for a Japanese corporation a report describing and evaluating U.S. PWR implementation of certain specific TMI-related issues.
62. Collect for a Japanese corporation open literature data on the probabilities of LMFBR accidents.
63. Evaluate for a Spanish utility the safety of one of its power plants.
64. Conduct a study for a West German corporation of relevant safety issues regarding underground siting of nuclear power plants.
65. Conduct a survey for a Japanese corporation of computer programs used in the U.S. for the management and scheduling of outages in nuclear generating stations.
66. Perform a study for a Japanese corporation of capital costs and other economic indices related to U.S. LWRs.
67. Reviewed with a West German affiliate a list of questions concerning the design of fuel handling equipment and facilities for a PWR of West German design.
68. Perform a survey for a Japanese corporation of waste packaging technology and disposal criteria for low and intermediate level wastes in the U.S., Canada, France, Switzerland and West Germany.
69. Perform a survey for a Japanese corporation of the status of seven nuclear plant construction sites. The information will be obtained from public documents. Contact the appropriate utilities to arrange for possible site visits by the Japanese.
70. Perform a study for a Japanese corporation of the experience of various U.S. utilities in repairing and maintaining PWR steam generator tube integrity.
71. Provide to a Japanese corporation publicly available documents and information regarding several current licensing issues of concern to the U.S. commercial nuclear power plants.
72. Perform steam generator chemistry consulting for a Japanese utility.
73. Perform for a Japanese corporation a survey of quality assurance practices used for U.S. nuclear utilities. Arrange visits to three utilities' headquarters.
74. Prepare a report comparing the construction and startup audits performed under earlier contracts, with two Taiwanese nuclear power projects, to aid Taiwan AEC in their licensing process for a new power plant.

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75. Perform a survey for a Japanese corporation for the development of general policy and rules on decommissioning of nuclear power plants.
76. Provide a Netherlands national with a training program for operators/personnel in the nuclear power plants.
77. Review for an Italian corporation of publicly available information on the nuclear regulatory activities of U.S. commercial nuclear power plants.
78. Provide a Yugoslav nuclear power plant with various videotape training programs for its staff.
79. Provide a U.K. utility with access to Nuclear Operations and Maintenance Information Service, clearinghouse for the exchange of operations, maintenance, technical and management problems and their solutions.
80. Provide to a Japanese, a British and a Spanish corporation a source book, which will be updated, describing the current status of each generic unresolved safety issue as described by the NRC.
81. Two employees will visit Taiwan for two weeks to interview clients to establish client objectives, review plant designs, recommend modifications and define scope of work for accepted modifications.
82. Support inservice examination of the selected components including reactor vessel in a Korean power plant.
83. Participate with an Italian corporation in a discussion of technical problems encountered in manufacturing high density storage racks for BWRs.
84. Write SAR for transportation of barrels of low level radwaste from a Taiwanese power plant to the waste storage site. Includes operating and emergency procedures and project management for radwaste transportation.
85. Supply a Canadian corporation with dry cleaning machines with radiation detect systems and manuals.
86. Provide a Japanese corporation with answers to a technical questionnaire on a U.S. power plant analysis, and escort its representatives to a meeting with the representatives of the operating utility.
87. Provide a Spanish utility with design services for new and spent fuel storage racks, plus defective fuel, control rod, and control rod guide tube storage racks.
88. Perform a study for a West German corporation to determine the feasibility and implantation of a graphics package for a power plant process computer system.
89. Prepare for a Japanese corporation a survey of the decontamination techniques and waste disposal method at TMI.
90. Participate with a West German corporation in a review of piping arrangement, piping stress analyses and pipe support design.
91. Design, procurement, installation and testing of a complete advanced core simulator system for a West German nuclear power plant.
92. Assist a Japanese utility in a seismic upgrade study.
93. Transmittal of proprietary conceptual design information concerning improved design of PWR to a Japanese utility and a Belgian consortium.

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94. Provide introductory training in LMFBR technology to a small group of employees of a Taiwanese utility.
95. Transmittal to a Korean corporation of proprietary information related to the manufacture of steam generators and pressurizers for nuclear power plants.
96. Request for technical assistance from a Japanese corporation in the development of LMFBR designs. Fuel fabrication and reprocessing information is not included in this exchange.
97. A British corporation exercised its option under licensing agreement with a U.S. corporation to manufacture, use and sell nuclear steam supply systems for PWR.
98. Technical cooperation agreement with a Japanese corporation to perform work directed at improving the reliability to PWRs.
99. Technical exchange agreement with a Japanese corporation to allow the Japanese to manufacture, use and sell proportional counters, fission counters and ionization chambers for nuclear power plants.
100. Agreement with a Japanese corporation to provide engineering services in its LMFBR program. Information concerning plutonium fuel fabrication and reprocessing is not included.
101. Agreement with a Korean corporation to manufacture use and sell various components for nuclear steam supply systems and PWRs under license from a U.S. corporation.
102. List of sales by a French licensee of a U.S. corporation of PWRs and their components. Also a list of activities of other licensees of the same U.S. corporation.
103. Transmittal of reports and other technical information to the Government of Indonesia in connection with marketing of a nuclear power plant project.
104. Notice of a proposed visit to France and West Germany by representatives of a U.S. corporation for discussion of LMFBR technology and of the completion of generally authorized activities (previously reported) in Japan and the U.K.
105. Notice of a one year training program in construction management of nuclear power plant projects for a Venezuelan engineer in the offices of a U.S. corporation of engineers-constructors.
106. Plans of a U.S. corporation of engineers-constructors to participate in several Japanese nuclear power projects and in cooperative activities of Japanese utilities.
107. Notice of intent to provide technical services to South Africa in connection with nuclear power plant project being built by a French consortium.
108. Assistance to a Spanish utility in determining changes needed in its nuclear power plant to comply with licensing regulations.
109. Agreement between a U.S. corporation and a group of corporations from France, Belgium, Britain, West Germany and the Netherlands, to exchange information on LMFBRs.
110. Assist a Japanese corporation to review design experience of LMFBR facilities and apply it to a prototype FBR containment and auxiliary buildings.
111. Perform quality assurance audits of fuel assemblies manufactured in the U.S. for a Swiss utility.

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112. Perform a design review of a spent nuclear fuel storage facility for a utility corporation in Finland.
113. A U.S. corporation organized a group of foreign and domestic utilities into a Core Performance Assessment Group, to assess nuclear fuel performance of various reactor types.
114. Provide training services in reactor safety and seismic considerations in reactor siting to a team of Korean engineers, and consulting services in reactor safety and reactor operator training to a Mexican research initiative.

Note: All the activities with the PRC involve only publicly available information.

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APPENDIX C: EXISTING U.S. NUCLEAR COOPERATION AGREEMENTS

Sources: Information sheet provided by State Department at the U.S. NIC summit on June 7, 2017; CRS, "Nuclear Cooperation with Other Countries: A Primer," December 27, 2016.

Agreements in force as of January 20, 2017 (dates represent entry into force and expiration)

1. Argentina (October 16, 1997 October 16, 2027)
2. Australia (December 22, 2010 December 22, 2040, with rolling five-year extensions)
3. Brazil (September 15, 1999 September 15, 2029)
4. Canada (December 13, 1999 January 1, 2030, with rolling five-year extensions)
5. China (October 29, 2015 October 29, 2045)
6. Egypt (December 29, 1981 December 29, 2021)
7. European Atomic Energy Community (Euratom)[1] (April 12, 1996 April 12, 2026, with rolling five-year extensions)
8. India (December 6, 2008 December 6, 2048, with rolling 10-year extensions)
9. Indonesia (December 30, 1981 December 30, 2031)
10. Japan (July 30, 1988 July 30, 2018, but remains in force until terminated by a Party)
11. Kazakhstan (November 5, 1999 November 5, 2029)
12. Korea, Republic of (November 25, 2015 November 25, 2040)
13. Morocco (May 16, 1981 May 16, 2021)
14. Norway (January 19, 2017 January 19, 2047)
15. Russian Federation (January 11, 2011 January 11, 2041)
16. South Africa (December 4, 1997 December 4, 2022)
17. Switzerland (June 23, 1998 June 23, 2028, with rolling five-year extensions)
18. Turkey (June 2, 2008 June 2, 2023 with rolling five-year extensions)
19. Ukraine (May 28, 1999 May 28, 2029)
20. United Arab Emirates (December 17, 2009 December 17, 2039)
21. Vietnam (October 3, 2014 October 3, 2044, with rolling five-year extensions)
22. International Atomic Energy Agency (IAEA) (June 6, 2014 June 6, 2054)
23. Taiwan[2] (June 22, 2014 indefinite)

[1] Euratom comprises the following Member States: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, and the United Kingdom.
[2] Pursuant to Sections 4 and 6 of the Taiwan Relations Act, P.L. 96-8, 93 Stat. 14, and Executive Order 13014, 61 F.R. 42963, any international agreement entered into by the United States and the governing authorities on Taiwan prior to January 1, 1979, and in force between them on December 31, 1978, is administered on a nongovernmental basis by the American Institute in Taiwan, a nonprofit District of Columbia corporation, until the agreement's termination.

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APPENDIX D: EXAMPLES OF SPECIFICALLY AUTHORIZED ACTIVITIES 1983-2015

The following is a list of activities that received specific authorization from the Secretary of Energy. The list is derived from the secretarial determinations on record in the DOE public reading room. The list of countries requiring specific authorization has changed during this time period, as has the scope of control; thus, earlier entries may not be representative of activities requiring specific authorization today. This is not a complete list of specific authorizations during this time period, as not all determinations are listed in the DOE reading room.

Date	Country	Activity description
10/17/83	Canada	to give a presentation and discussion on pulse column technology
12/13/83	France	to export a copper vapor laser and electron beam supply for use in laser isotope separation research
2/8/84	Brazil	to amend existing contract at Angra I: field engineering services, consulting, design a high radiation sampling system, low-level waste processing system, O&M info service
5/22/85	Saudi Arabia	to train up to ten Saudi Arabian college students in nuclear reactor engineering and operations
9/4/85	Saudi Arabia	to train up to twelve Saudi Arabians in nuclear reactor-related subjects
9/19/85	China	to conduct technical review of siting and systems and components and provide safety analyses and QA (Qinshan)
9/19/85	China	to provide architect/engineering service (Guangdong)
9/19/85	China	to provide engineering and design service procurement and construction management (Guangdong)
9/19/85	China	to provide engineering and design service procurement and construction management (Guangdong)
9/19/85	China	to provide training on design, development and operation of BWRs (various)
9/19/85	China	to provide engineering and design services, project management, construction and operation services (Guangdong)
9/19/85	China	to provide project planning, requirements analysis, procurement, design, and training (Guangdong)
9/19/85	China	to provide consulting, engineering, procurement, and construction services (Guangdong)
9/19/85	China	to provide consulting and engineering services (Guangdong)

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9/19/85	China	to provide consulting services for plant planning and construction (Guangdong)
9/19/85	China	to provide engineering and design services for nuclear island (Guangdong)
9/19/85	China	to provide engineering design, construction, and general services (Qinshan)
9/19/85	China	to transfer process control instrumentation technology (Qinshan)
9/19/85	China	to review reactor building design concept and documents (Qinshan)
9/19/85	China	to provide licensing, construction, operation, and maintenance support (Guangdong)
9/19/85	China	to transfer manufacturing technology and establish power reactor license relationship (various)
9/19/85	China	to transfer manufacturing technology/containment building penetrations (various)
9/19/85	China	to provide instrumentation relating to reactor primary system (Qinshan)
9/19/85	China	to provide design, consulting, procurement, construction, project management, and operation support services (Guangdong)
2/27/86	France	to export a Model 451 copper vapor laser and spare parts for use in atomic vapor laser isotope separation research
3/11/86	Brazil	to provide technical services and spare parts to the Angra I Power Station
7/29/86	Argentina	to export bellows seals to the Embalse Power Station
7/29/86	China	to permit a foreign licensee to provide a reactor pressure vessel containing U.S.-origin technology for the 728 Project
10/31/86	Brazil	to provide various technical services to the Angra I Nuclear Power Station
2/18/87	Japan	to provide assistance to Japan's mixed-oxide fuel fabrication program
7/2/87	China	to hire a foreign national as an employee of Pacific Atlantic Technical Services Company for 18 months
7/10/87	UK	to provide a computer program for maintenance at the BNFL Pond 5 at Sellafield, England
7/17/87	China	to provide consultancy services for the Quinshan Nuclear Power Station Project, in connection with the start-up of the plant of indigenous PRC design

NUCLEAR INNOVATION ALLIANCE

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-000491

7/21/87	China	to transfer pressurized water reactor technology
7/28/87	Hungary	to provide project management and planning services for the PAKS nuclear power units 5 and 6.
7/28/87	Hungary	to provide project management and planning services for the PAKS nuclear power units 5 and 6.
8/21/87	Japan	to provide construction management consultant services for the construction of a gas centrifuge uranium enrichment plant.
9/15/87	Argentina	to export spare components for nuclear-qualified pressure transmitters to the Embalse Nuclear Power Station
11/3/87	Brazil	to provide proprietary technology and technical assistance for extracting U3O8 from phosphate rock
1/4/88	China	to provide to the Shanghai Nuclear Engineering Research and Design Institute in the PRC the consultancy services described
1/7/88	Multiple	to provide the consulting services described in their application to Romania, Poland, Czechoslovakia, Bulgaria, Hungary, and East Germany for their nuclear power plants
1/15/88	Japan	to provide to Japan Nuclear Fuel Company Ltd the uranium oxide technology described
2/2/88	USSR	to pursue the cooperative program in probabilistic safety assessment with the USSR Ministry of Atomic Energy
3/4/88	Brazil	to perform maintenance on the Angra-1 nuclear power plant
8/8/88	Multiple	to license the Yugoslav firm Djuro Djakovic to manufacture penetrations for sale in Yugoslavia, Hungary, Poland, Romania, Bulgaria, Czechoslovakia, German Democratic Republic, and USSR
2/17/89	Canada	to disclose its catalytic method for concentrating isotopes to Ontario Hydro of Canada and to negotiate a licensing agreement for use of the method for heavy-water production by Ontario Hydro
5/5/89	China	to provide a control room simulator to the Guangdong Nuclear Power Joint Venture Corporation for the Guangdong Nuclear Power Station
5/16/89	Argentina	to perform decontamination services at Atucha-1 nuclear power plant
5/16/89	Czechoslovakia	to provide safety-related diagnostics systems for use at the Jaslovske Bohunice Units 1 and 2 nuclear power plants in Czechoslovakia

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000492

6/14/89	Japan	to provide to Mitsubishi Atomic Power Industries of Japan a survey of probabilistic safety assessment methodologies that could be applied to a nuclear reprocessing facility
8/21/89	Japan	to perform for Ishikawajima-Harima Heavy Industries Company a design study and possible procurement for a remote pipe repair device for use in a reprocessing/vitrification complex
10/20/89	Multiple	to perform seismic civil/structural design review services on civil nuclear power plants in the USSR and Hungary
11/7/89	Canada	to disclose a catalytic method for concentrating isotopes to Atomic Energy of Canada Ltd and to negotiate a licensing agreement for use of the method for heavy-water production by AECL
11/8/89	Japan	to provide assistance in surveying and reporting on the fluoride volatility and Aquafluor reprocessing technologies
1/26/90	USSR	to jointly produce with the Soviet Union two nuclear power plant control room simulators
1/30/90	Japan	to ship a tunable diode laser to the Japan Atomic Energy Research Institute
5/2/90	Yugoslavia	to provide nuclear power reactor steam generator tube plugging equipment
8/9/90	Bulgaria	to provide training for two Bulgarian civilian nuclear power plant engineers
8/9/90	Multiple	to perform seismic safety design assessments on civilian nuclear power plants in Czechoslovakia, Hungary, and German Democratic Republic, Poland, Romania, and the Soviet Union
9/25/90	USSR	to provide civilian nuclear power plant control room simulator technology to a joint venture of S3 Technologies and Scientific Production Corporation of the Soviet Union
10/2/90	Bulgaria	to perform seismic safety design assessments on nuclear power plants
10/2/90	German Democratic Republic	to fabricate and test specimens from the reactor vessel of a nuclear power reactor at Greifswald in the German Democratic Republic
10/23/90	Czech and Slovak Federal Republic	to transfer civilian nuclear power pressurized water reactor and PWR fuel technology
2/25/91	Multiple	to provide Digital Metal Impact Monitoring System and Sensor Highway System to civil nuclear plants in the Czech and Slovak

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000493

		Federal Republic and in Bulgaria, Hungary, Poland, and Romania
4/23/91	Argentina	to perform decontamination services at Atucha-1 nuclear power plant
5/9/91	Czech and Slovak Federal Republic	to determine whether the Mohovce nuclear power station in the Czech and Slovak Federal Republic can be completed on an accelerated schedule and if so, to assist in the expedited completion of the station
5/30/91	Hungary	to provide probabilistic risk assessment software programs and services for Hungarian civilian nuclear power plants
7/12/91	USSR	to develop enriched gadolinium production technology jointly
7/26/91	Czech and Slovak Federal Republic	to provide to SKODA Concern Plzaen Ltd in the Czech and Slovak Federal Republic technology for the manufacture of electrical penetrations for use in the civilian nuclear power plants in the CSFR, Bulgaria, Hungary, Poland, Romania, and the Soviet Union
7/26/91	Hungary	to exchange technology with the Atomic Energy Research Institute of Hungary on the effects of neutron irradiation on nuclear power reactor pressure vessels
7/26/91	Multiple	to provide valve diagnostic services for civilian nuclear power reactors in Hungary, Bulgaria, Czechoslovakia, Poland, Romania, and the Soviet Union
9/11/91	Czech and Slovak Federal Republic	to collaborate with the enterprise Orgrez of the Czech and Slovak Federal Republic in the design development and construction of a control room training simulator for the Temelin nuclear power plant
9/13/91	Japan	to assess feasibility and benefits of nuclear waste partitioning and transmutation to reduce requirements for the geologic disposal of high-level waste in Japan
9/24/91	Yugoslavia	to provide nuclear power reactor steam generator tube plugging equipment to the Yugoslav firm INETEC
10/21/91	UK	to transfer certain mixed-oxide fuel models to the British Nuclear Fuels Ltd of the UK to perform computer calculations and compare the results with those obtained using existing BNFL fuel models
11/4/91	Multiple	to provide program management and consulting services to the Bulgarian civil nuclear power industry and to the civil nuclear power industries of other East European countries

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000494

11/22/91	Argentina	to permit a subsidiary to sell 3,100 CANDU fuel bundles to Argentina's Commision Nacional de Energia Atomica for use in the Embalse nuclear power plant
12/11/91	Bulgaria	to fabricate and test 16 reactor vessel specimens for Association Energetika, owner/operator of Bulgaria's Kozloduy nuclear power plant, and to evaluate the excavated region of the RV
2/7/92	South Africa	to provide chemistry training services for personnel of the Koeberg Nuclear Power Station
3/9/92	Multiple	to participate in the construction of four nuclear power plant control room simulators to train operators for the RBMK nuclear power plants at Kursk (Russia), Smolensk (Russia), Chernobyl (Ukraine), and Ignalina (Lithuania)
3/9/92	Russia	to assist in development of a training program in Russia for operators of VVER-1000 nuclear power plants and to provide personal computers and software for initial operator training
4/3/92	Russia	to assist Russia's Research and Development Institute of Power Engineering in phase 1 of an effort to design, manufacture, install, and test a modernized RBMK reactor instrumentation and control system
5/7/92	Multiple	to perform fracture mechanics assessments at civil nuclear power plants in Bulgaria, Armenia, the Czech and Slovak Federal Republic, Hungary, Lithuania, Poland, Romania, Russia, and Ukraine
5/13/92	Japan	to provide uranium fuel fabrication technology to Japan Nuclear Fuel Company Ltd for use in Japan's mixed oxide fuel fabrication program
5/15/92	Multiple	to provide safety-related program support to nuclear power plants in Bulgaria, other East European countries, Russia, Ukraine, Armenia, and Lithuania
5/19/92	Czech and Slovak Federal Republic	to provide the Czechoslovak Atomic Energy Commission with technical assistance with regard to nuclear power plants and nuclear waste facilities
5/19/92	South Africa	to provide Nuclear Operations and Maintenance Information Service for South Africa's Koeberg Nuclear Power Station
6/3/92	Czech and Slovak Federal Republic	to participate in a joint venture to manufacture uranium fuel for civilian nuclear power reactors in Eastern and Western Europe

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000495

6/11/92	Czech and Slovak Federal Republic	to assist the power utility Ceske Energeticke Zavody in completing the Temelin Nuclear Power Station
6/11/92	Russia	to supply simulator input/output systems to the All Union Institute for Nuclear Power Plant Operations of Russia for the project Kalininskaya VVER-1000 nuclear power plant control room simulator
6/11/92	Russia	to conduct the design, development, and construction of a control room training simulator for Russia's 1000 MWe nuclear power plant at Sosnovy Bor
6/22/92	Japan	to perform a confinement system risk assessment for Japan's Rokkasho nuclear fuel reprocessing facility
9/6/92	Argentina	to transmit to Investigaciones Aplicadas certain information limited to its TRIGA fuel technology and TRIGA microprocessor-based control and instrumentation systems
9/6/92	Bulgaria	to participate in providing a three-phase simulator program for the Kozloduy nuclear power plant
9/6/92	Czech and Slovak Federal Republic	to sell valve diagnostic systems for nuclear power plants to the ARPO-Research Institute for Valves and Piping
9/6/92	Multiple	to transfer to Poland and Bulgaria technology related to a nuclear power reactor, similar advanced pressurized water reactors, and fuel for such reactors
9/15/92	Russia	to sell and install silicon dioxide insulated cable as part of a safety upgrade at Russia's Kalinin Nuclear Power Station
10/9/92	Czech and Slovak Federal Republic	to participate in providing a VVER-440 nuclear power plant sull-scope simulator and a VVER-1000 analytical simulator to the Slovak Energy Company for the Mochovce nuclear power plant
11/12/92	Brazil	to lease its nuclear power plant simulator for training operators of Brazil's Angra I nuclear power plant
11/12/92	Bulgaria	to provide a nuclear power plant training system, including two simulators, for the Kozloduy nuclear power station
11/23/92	Argentina	to provide RETRAN computer program for the design of nuclear power reactors
12/10/92	Multiple	to transfer to Latvia and Lithuania civilian nuclear power pressurized water reactor and fuel technology

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000496

1/12/93	Japan	to provide its report on flowsheet simulation and the accompanying software to Power Reactor and Nuclear Development Corporation of Japan
2/22/93	Russia	to explore jointly with Russia's Research and Development Institute of Power Engineering areas of mutual interest pertaining to thermal nuclear propulsion of space vehicles
2/22/93	Russia	to jointly develop a thermionic space nuclear power system with Krasnaya Zvezda
6/8/93	Russia	to use test reactor facilities at the Research Institute for Atomic Reactors in Dimitrovgrad to test materials and study water chemistry for GE nuclear power reactors
6/25/93	Brazil	to provide to the Brazilian utility Furnas Centrais Electricas SA several nuclear power reactor fuel management computer codes and support information and training in how to use the codes at the Angra I NPP
7/13/93	Argentina	to transfer technology for pressurized water nuclear power reactors and fuel
9/21/93	Russia	to provide nuclear fuel fabrication technology to the Russian organization Concern TVEL for the manufacture of nuclear fuel and components for U.S and other nuclear power plants
10/4/93	Argentina	to provide zirconium fabrication machine tools and services
11/4/93	Japan	to provide consulting services to Japan's Power Reactor and Nuclear Fuel Development Corporation in assessing certain technical nuclear fuel cycle issues
11/4/93	Japan	to provide Ishikawajima-Harima Heavy Industries Co. Ltd for the treatment of radioactive and mixed nuclear wastes
12/28/93	Russia	to provide computers and software for an analytical simulator and a full-scope simulator for the RBT-10 research reactor at Russia's Scientific Research Institute of Atomic Reactors in Dimitrovgrad
4/28/94	Multiple	to transfer certain mixed-oxide fuel rod drawings and information to British Nuclear Fuels Limited of the UK for the manufacture of fuel for Switzerland's Beznau 1 NPP and to the Swiss utility Nordostoschweizerische Kraftwerek, to ensure that the fuel meets Swiss safety and regulatory requirements
6/21/94	South Africa	to provide to the South African Electricity Supply Commission assistance for the operation, maintenance, repair, and servicing of civilian PWRs and fuel at the Koeberg NPP
7/26/93	Argentina	to provide zirconium fabrication consulting services

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000497

7/26/94	Russia	to transfer technology for the conversion of uranium hexafluoride to uranium dioxide
7/26/94	Ukraine	to transfer technology for safety analysis of VVER nuclear power plants and for Instrumentation and Control systems for VVER plants
9/15/95	France	to transfer its technology for the manufacture of TRIGA nuclear fuel to a joint venture with Compagnie Pour L'Etude et la Realisation de Combustibles Atomiques
1/16/96	Ukraine	to transfer technology for PWRs and fuel
4/8/96	Ukraine	to transfer to a joint venture with the Ukrainian firm P.A. Monolit technology for advanced instrumentation and control systems for NPPs and other industrial facilities
5/6/96	DPRK	to provide technology, equipment, and services for the design, construction, operation, and maintenance of two light-water nuclear power reactors
5/6/96	DPRK	to provide technology, equipment, and services for the design, construction, operation, and maintenance of two light-water nuclear power reactors
8/15/96	DPRK	to provide technology, equipment, and services for the design, construction, operation, and maintenance of two light-water nuclear power reactors
8/15/96	DPRK	to provide technology, equipment, and services for the design, construction, operation, and maintenance of two light-water nuclear power reactors
9/6/96	DPRK	to provide technology, equipment, and services for the design, construction, operation, and maintenance of two light-water nuclear power reactors
9/13/96	Russia	to cooperate with Russia's Ministry of Atomic Energy in design and development of a plutonium-burning gas turbine modular helium reactor and fuel for such nuclear power plants
6/4/97	Australia	to evaluate the commercial viability of the laser-based SILEX uranium enrichment technology developed by Silex Systems Ltd of Sydney, Australia
9/12/97	Armenia	to transfer the full range of PWR and PWR fuel technology
6/26/98	China	to provide nuclear power reactor technology and services to the People's Republic of China
6/26/98	China	to provide nuclear power reactor technology and services

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000498

6/26/98	China	to provide nuclear power reactor technology and services
6/26/98	China	to provide nuclear power reactor technology and services
6/26/98	China	to provide nuclear power reactor technology and services
7/22/98	China	to provide its process control instrumentation and services to the civilian nuclear power program of the People's Republic of China
9/10/98	Japan	to transfer design specifications and drawings for mixed oxide fuel for a MOX fuel utilization study by several Japanese utilities
9/16/98	China	to provide nuclear simulation technology and services for the civilian nuclear power program
9/16/98	China	to provide the full range of nuclear power reactor technologies and services
12/15/98	China	to provide equipment, technology, and services for the civilian nuclear power program
2/16/00	Multiple	to include Framatome of France and Fuji Electric of Japan as partners in a joint venture with Russia's Ministry of Atomic Energy (MINIATOM) to design and build a gas turbine modular helium reactor to consume plutonium from dismantled Russian nuclear weapons
3/2/00	China	to collaborate with the development of a conceptual design for a modular high temperature pebble bed gas nuclear power reactor
8/30/02	China	to provide safety-related environmental/hazard protection equipment and technology for the Jiangsu Nuclear Power Corporation's Tianwan nuclear power plant
8/15/05	China	to provide technology, technical assistance, training, and related equipment to civil nuclear power facilities
8/15/05	China	to provide technology and services to civil nuclear power facilities
10/2/06	Netherlands	to provide certain business proprietary information to Metaflex Isosystems BV
10/13/06	Multiple	to transfer certain information pertaining to the proposed LES gas centrifuge uranium enrichment facility to be constructed in New Mexico to URENCO Limited and its subsidiaries ETC and UEC
7/9/07	Russia	to provide certain nuclear specifications and requirements of U.S. utilities to TVEL

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000499

9/23/08	Germany	to provide certain procurement specifications to Maschinenbau Scholz, Oerlikon Leybold, and Pfeiffer Vacuum
11/26/08	UAE	to provide certain information and assistance to the UAE civil nuclear power program
3/3/09	China	to provide technical support for proposed leak-before-break design changes to China Guangdong Nuclear Power Holding Ltd
3/3/09	China	to provide the current executable-only version of RELAP5 and TRACE computer codes
3/17/09	China	to provide certain digital control and instrumentation technologies and training to China Nuclear Power Engineering
5/10/09	UAE	to provide certain information and assistance to the UAE civil nuclear power program
7/20/09	UAE	to transfer the full range of nuclear power technology for the deployment of a boiling water reactor
7/20/09	UAE	to provide nuclear engineering and services
7/20/09	UAE	to provide technology associated with the European Pressurized Reactor (EPR)
8/21/09	China	to provide technology associated with thermal nuclear insulation systems
11/3/09	UK	to provide technical assistance to the UK Nuclear Decommissioning Authority
12/9/09	Ukraine	to provide its RELAP5-R/T (Real-time) model of the South Ukraine NPP Unit 3 in South Ukraine. (only object code not source code)
2/4/10	Kazakhstan	to provide pressurized water reactor nuclear fuel technology to Kazatomprom's Ulba Metallurgical Institute, an enterprise wholly owned by the Government of Kazakhstan
2/18/10	China	to provide RELAP5 R/T object code software to China Nuclear Power (Bei Jing) Simulation Technology Co. Ltd (CNPSC)
3/3/10	Armenia	to transfer management-related services to a new nuclear reactor to be built at Metsamor in the Republic of Armenia
9/2/10	Russia	to provide certain nuclear fuel specifications and requirements of U.S. utilities to TVEL
9/2/10	China	to provide technology associated with advanced digital safety/protection systems and related services to nuclear power plants

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000500

10/19/10	China	to provide technology associated with the safe operation of nuclear power plants
11/10/10	Norway	to provide technology associated with the development of thorium-plutonium nuclear fuel
12/21/10	Multiple	to provide technology associated with uranium gas centrifuge enrichment technology to four group entities in the UK, Germany, and the Netherlands
12/21/10	France	to provide technology associated with the transfer of plutonium-thorium fuel technology to Areva
3/31/11	Russia	to transfer nuclear fuel manufacturing technology to OJSC Mashinostroitelny Zavod, located in the Russian Federation via its German affiliate REAVA NP GmbH
11/21/11	Russia	to provide RELAP5-RT code (executable only) to the All-Russian Research Institute for NPP Operation (VNIIAES) for improved operator training
8/25/11	China	to provide RELAP5 RT (also known as RELAP5 RT 3D) object code (executable only) embedded in simulator program technology to an authorized professor at the Harbin Engineering University (Harbin) for research and educational purposes
3/18/11	UAE	to transfer PWR technology to the Emirates Nuclear Energy Corporation (ENEC)
9/28/11	UAE	to transfer nuclear reactor technology to ENEC and FANR and transfer technical reports and software related to plant safety, maintenance, and enhanced performance
11/4/11	Russia	to transfer nuclear fuel manufacturing technology to DATAVISION NN located in the Russian Federation, either directly or through its German affiliate AREVA NP GmbH and French affiliate AREVA NP SAS
4/29/11	UAE	to assist FANR and ENEC with the review of licensing and construction application documentation submitted for the Emirates Nuclear Plants Projects
3/18/11	UAE	to assist FANR and ENEC with the review of licensing and construction application documentation submitted for the Emirates Nuclear Plants Projects
10/21/11	China	to transfer software, technology, and services to the China Institute of Atomic Energy
11/21/11	China	to transfer fuel fabrication equipment technology to China Baotou Nuclear Fuel and the State Nuclear Power Technology Corporation

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000501

3/4/11	UAE	to provide project management and engineering services for the construction of two nuclear power plants to ENEC
3/4/11	UAE	to transfer nuclear power plant information services to ENEC
2/2/11	China	to provide training in the safe and efficient operation of nuclear reactors to the Daya Bay Nuclear Power Operation and Management Company, China Guangdong Nuclear Power Holding Company, and state-owned Assets Supervision and Administration Commission
2/24/12	China	to provide nuclear power plant technology consulting services to the China Nuclear Power Engineering Corporation
5/18/12	UK	to provide fuel fabrication technology, design, and construction information to the UK DECC and NDA
6/29/12	Russia	to transfer software technology and services to the Joint Stock Company TVEL and TVEL's sub-licensee Afrikantov Experimental Machine Building Design Bureau
9/28/12	China	to provide mechanical engineering services to China Nuclear Power Design Co. Ltd
10/4/12	China	to cooperate with SNPTC and its subsidiary SNERDI to jointly develop a large passive plant capable of producing up to 1700 MWe
10/24/12	China	to provide entities in China access to EPRI's entire portfolio of technical reports and software relating to commercial nuclear plant safety and Chinese membership in the Material Ageing Institute
1/18/13	South Korea	to provide assistance to KAERI under which ANL and KAERI will jointly design a prototype SFR and LEU fuel therefor; ANL will also help develop safety design criteria and conduct safety analysis and assist in KAERI's effort to license the SFR in the ROK
7/27/13	Ukraine	to provide RELAP5-3D object code (executable only) to the OJSC Kyiv Research and Design Institute
8/27/13	China	to provide nuclear power plant technical experience and information to the Shandong Nuclear Power Company
9/6/13	Vietnam	to provide consulting services, including training, engineering, technical assistance, and project management, to Electricity of Vietnam
9/6/13	Vietnam	to provide engineering consulting services to Electricity of Vietnam

NUCLEAR INNOVATION ALLIANCE
AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-000502

9/13/13	UK	to provide the reports and analyses related to the NDA's potential development of a U.K. mixed-oxide fuel fabrication facility
9/18/13	Russia	to provide Rosenergoatom and VNIIAES with NPP technology by transferring EPRI nuclear technology and analyses related to material aging through the Material Ageing Institute
9/20/13	China	to perform sensitivity studies for and provide associated services to SNERDI
10/10/13	Vietnam	to provide Vietnam's Electricity of Vietnam Group the full range of boiling water reactor nuclear technology related to units Ninh Thuan 1 and 2
9/25/14	UAE	to provide engineering services, including RETRAN-3D training, related to nuclear operational safety technology to ENEC
11/12/15	China	to provide nuclear power plant software, technology, and services to the China Nuclear Power Engineering Corporation

NUCLEAR INNOVATION ALLIANCE

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-000503

APPENDIX E: HISTORICAL DEVELOPMENT OF THE PART 810 REGULATIONS

A. Legislative origins

The origins of the 10 CFR Part 810 regulations lie in the Atomic Energy Acts of 1946 and 1954. Originally, U.S. persons were prohibited from assisting foreign atomic energy programs. Section 5 (a) (3) of the Atomic Energy Act of 1946 stated:

> It shall be unlawful for any person, after sixty days from the effective date of this Act to… directly or indirectly engage in the production of any fissionable material outside of the United States.[3]

In 1951, Section 5 (a) (3) was amended to allow the U.S. Atomic Energy Commission (AEC) to authorize an activity following a determination from the President:

> It shall be unlawful for any person to… directly or indirectly engage in the production of any fissionable material outside of the United States, except, subject to the limitations and conditions contained in section 10 (a) (3), as authorized by the Commission upon a determination by the President that the common defense and security will not be adversely affected thereby.[4]

In 1954, President Eisenhower wrote to Congress and said

> In a related area, present law prevents United States citizens or corporations from engaging directly or indirectly in the production of fissionable material outside the United States, except upon determination by the President that the proposed activity will not adversely affect the common defense and security. Matters that have arisen under this provision have been ordinary business or commercial activities which nevertheless fall within the broad statutory prohibition because they might contribute in some degree, however minor, to foreign atomic-energy programs. The President should be enabled to authorize the Atomic Energy Commission to make future determinations of this nature. This amendment is related also to the above amendment concerning the exchange of information with other countries, as arrangement for authorized exchanges of information with friendly foreign governments may involve participation by American citizens or firms in work in foreign countries. The proposed amendment would permit the Atomic Energy Commission also to authorize such participation.[5]

The Atomic Energy Act of 1954 removed the requirement for a determination by the President, and left the determination up to the AEC.[6] Section 57 (a) still retained, however, the phrase "directly or indirectly":

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[3] The Atomic Energy Act of 1946. Public Law 79-585.
[4] An Act to amend the Atomic Energy Act of 1946, as amended. Public Law 82-235.
[5] Document No. 328, 83rd Congress, 2nd Session. Message from the President of the United States transmitting recommendations relative to the Atomic Energy Act of 1946. February 17, 1954.
[6] The Atomic Energy Act of 1954. Public Law 83-703.

NUCLEAR INNOVATION ALLIANCE
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DOE-19-0315, 19-0316, 19-0318-A-000504

> It shall be unlawful for any person to—… (3) directly or indirectly engage in the production of any special nuclear material outside of the United States except (A) under an agreement for cooperation made pursuant to section 123, or (B) upon authorization by the Commission after a determination that such activity will not be inimical to the interest of the United States.

The broad wording of Section 57 (a) (3) of the Atomic Energy Act of 1954 and the potential challenges associated with its implementation, were apparent in the years following the passage of the AEA. A law review article from 1956, written by a lawyer formerly with the Office of the General Counsel at the AEC, observed:

> Thus, a college physics professor who accepts a visiting professorship at a foreign institution might require AEC authorization since, presumably, he would assist in the training of nationals of that country who might ultimately participate in production of special nuclear material in the atomic energy program of that country. Authorization might also be required for an American consultant who advises a foreign government or firm on matters relating to its atomic energy program. Indeed, the provision could conceivably be interpreted as extending to the sale of cement or nails by American firms for use in construction of atomic energy facilities abroad. In the light of the above-quoted statements about the meaning of section 57 (a) (3) its potential scope would appear to be of almost infinite breadth. This would place a most substantial burden upon American business to obtain prior authorization before engaging in any activities which might assist foreign atomic energy programs.[7]

Another relevant section from the 1954 Act was Section 161, which read:

> In the performance of its functions the Commission is authorized to—… (o) delegate to the General Manager or other officers of the Commission any of those functions assigned to it under this Act except those specified in sections 51, 57 a. (3) , 61…

The wording in Section 161 (o) prohibited the AEC from delegating the authorities in 57 (a) (3). In 2017, the prohibition on delegation of the non-inimicality determination remains and is codified in Section 161 (n).

In 1978, Congress passed the Nuclear Nonproliferation Act (NNPA).[8] As a 1988 Government Accountability Office (GAO) report stated:

> The Atomic Energy Commission declassified reprocessing technology and information in 1959 because it viewed reprocessing as an integral part of the optimistic future for nuclear power. By the mid- to late-1970s, however, commercial nuclear power played a much smaller role than previously projected, and the expected need for commercial reprocessing capability in this country has not materialized. During that time, concerns over the proliferation risks associated with reprocessing

[7] Harold P. Green, American Participation in Foreign Atomic Energy Activities: The Statutory Framework, 1 Vill. L. Rev. 9 (1956) at page 19.
[8] The Nuclear Non-Proliferation Act of 1978. Public Law 95-242.

NUCLEAR INNOVATION ALLIANCE
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> increased. As a result, the Congress passed the NNPA and established as the act's overall objective the efficient and effective control over the proliferation of nuclear explosive capability.[9]

The NNPA amended Section 57 (b) (2) which at that point contained the language that was originally in Section 57 (a) (3) of the Atomic Energy Act of 1954, as amended, to require the concurrence of the Department of State and consultations with DOC, NRC, and DOD:

> It shall be unlawful for any person to directly or indirectly engage in the production of special nuclear material outside of the United States except (1) as specifically authorized under an agreement for cooperation made pursuant to section 123, including a specific authorization in a subsequence arrangement under section 131 of this Act, or (2) upon authorization by the Secretary of Energy after a determination that such activity will not be inimical to the interest of the United States: *Provided*, That any such determination by the Secretary of Energy shall be made only with the concurrence of the Department of State and after consultation with the Arms Control and Disarmament Agency, the Nuclear Regulatory Commission, the Department of Commerce, and the Department of Defense…

Section 4 (a) (6) of the NNPA defined a new term, "sensitive nuclear technology" (SNT):

> "sensitive nuclear technology" means any information (including information incorporated in a production or utilization facility or important component part thereof) which is not available to the public and which is important to the design, construction, fabrication, operation or maintenance of a uranium enrichment or nuclear fuel reprocessing facility or a facility for the production of heavy water, but shall not include Restricted Data controlled pursuant to chapter 12 of the 1954 Act;

The NNPA also added language to sections 123, 127, 128, 129, and 131 of the Atomic Energy Act of 1954, as amended, that described how sensitive nuclear technology was to be treated. Sections 127 and 128 in particular imposed stringent additional conditions on any exports that involved the transfer of SNT. As summarized by a 1986 GAO report:

> … no SNT can be exported to any country… unless the recipient country agrees that any nuclear material produced or nuclear facility constructed through the use of such SNT will (1) be subject to IAEA facility safeguards, (2) not be used for any explosive device, (3) be protected by adequate physical security measures, (4) not be retransferred to another nation without prior approval of the United States, and (5) not be reprocessed or altered without prior U.S. approval. In addition, nonweapons countries must accept full-scope safeguards before they can receive SNT from the United States.[10]

To take a recent example, in order to exchange electrochemical recycling technology with the Republic of Korea (ROK), the United States and the ROK entered into an agreement to satisfy the criteria in sections 127 and 128 of the AEA.[11] Box E-1 discusses SNT further.

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[9] GAO, "Nuclear Nonproliferation: Department of Energy Needs Tighter Controls Over Reprocessing Information," GAO/RCED-87-150, August 17, 1987.
[10] GAO, "Nuclear Nonproliferation: DOE Has Insufficient Control Over Nuclear Technology Exports," GAO/RCED-86-144, May 1, 1986.
[11] 78 Fed. Reg. 32640, 2013.

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Box E-1: Sensitive Nuclear Technology

The definition of SNT from the NNPA is still carried forward today in 10 CFR Part 810.3 with an added clarification that explains

> The information may take a tangible form such as a model, prototype, blueprint, or operation manual or an intangible form such as assistance.

In other words, sensitive nuclear technology must be unclassified, not available in the public domain, and important to the design, construction, operation or maintenance of an enrichment, reprocessing or heavy-water production plant.

Reprocessing and heavy-water production technology was once classified "Restricted Data" (RD) but was declassified in the late 1950s and early 1960s. A declassification determination/action means that, according to language in the AEA, it can be declassified and published without undue risk to the common defense and security of the United States. Information on reprocessing and heavy-water technology that has not been published is candidate technical information to be considered SNT, subject to the "important" criteria.

RD boundaries on enrichment technology are now explicitly specified by detailed classification guidance issued by the DOE's Classification Office. EMIS technology was declassified in the late 1950s and much on gaseous diffusion technology has been declassified over the years, although some key aspects (e.g., barrier technology) have not. There has been significant declassification in the gas centrifuge area over the years, although detailed technical information of the core of the gas centrifuge machine remain RD. Many balance of plant systems (e.g., the feed and withdrawal systems) are unclassified, except for aspects which would reveal other RD information.

To take a specific gas centrifuge example:

- The detailed design of a UF6 feed autoclave and associated systems for a gas centrifuge facility is unclassified, but might be considered SNT going to a specific foreign party.
- The detailed design of a gas centrifuge end cap or a rotor tube is RD.

In a rulemaking from 1986, DOE noted the factors that go into determining what is considered SNT:

> DOE has used the definition of the Nuclear Non-Proliferation Act and believes that Congress drafted the definition in full knowledge that making SNT determinations called for technical expertise, experience and judgment applied on a case-by-case basis. In making SNT determinations, DOE considers many factors, such as the activity's relationship to the actual process of producing SNM, the activity's effect

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> on the success of a project, and the technical capability of the recipient country in the fuel cycle area of concern.
>
> In other words, the destination country may affect whether a particular activity constitutes the transfer of SNT: the transfer of a specific gas centrifuge design information, for example, may be SNT when going to one country, but not to another.[12]

In 2004, Congress passed the Intelligence Reform and Terrorism Prevention Act of 2004.[13] This law changed the language in Section 57 (b) (2) to:

> directly or indirectly engage *or participate* in the *development or* production of any special nuclear material [emphasis added]

Most recently, the National Defense Authorization Act for Fiscal Year 2016 added a new requirement that the Director of National Intelligence be consulted as to the views of the intelligence community for transfers of civil nuclear technology under Part 810 to Russia and China.[14]

B. Evolution of the Part 810 regulations

In response to the passage of the Atomic Energy Act of 1954, the AEC first published a general authorization for certain activities in the Federal Register in 1955:

> … the Atomic Energy Commission has determined that any activity which:
> (a) Constitutes directly or indirectly engaging in the production of any special nuclear material in any foreign country other than countries or areas now or hereafter listed as Subgroup A countries or destinations in Section 371.3 of the Comprehensive Export Schedule of the United States Department of Commerce; and
> (b) Does not involve the communication of Restricted Data or other classified defense information; and
> (c) Is not in violation of other provisions of law; will not be inimical to the interest of the United States and is authorized by the Atomic Energy Commission.[15]

The language established the first general authorization for activities that would constitute directly or indirectly engaging in the production of special nuclear material in a foreign country and also indicated that the U.S. government would be asking for reports on certain activities from U.S. persons. The general authorization did not mention any specific types of technology, but simply prohibited the transfer of "Restricted Data or other classified defense information." The Atomic Energy Act of 1946 had classified as "restricted data"

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[12] 60 Fed. Reg. 38220, 1995.
[13] The Intelligence Reform and Terrorism Prevention Act of 2004. Public Law 108-458.
[14] Public Law 114-92. November 25, 2015.
[15] 20 Fed. Reg. 7399-7400, 1955.

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> all data concerning the manufacture or utilization of atomic weapons, the production of fissionable material, or the use of fissionable material in the production of power, but shall not include any data which the Commission from time to time determines may be published without adversely affecting the common defense and security

As a result, the types of nuclear technologies that are part of the U.S. commercial industry today, such as power reactors, were all originally classified. However, in the 1950s and early 1960s, the AEC declassified reactors for civilian purposes, chemical processing of irradiated fuel and materials (i.e., reprocessing), a limited set of enrichment technologies (e.g., electromagnetic isotope separation), and heavy-water production technology.[16] These declassification actions allowed U.S. persons to participate in the corresponding types of unclassified nuclear activities with foreign partners.

The general authorization from 1955 used a list maintained by the Department of Commerce (DOC) to identify the countries or areas in which U.S. activities would not be generally authorized:

> Albania, Bulgaria, China, including Manchuria (and excluding Taiwan (Formosa)) (includes Inner Mongolia; the provinces of Tsinghai and Sikang; Sinkiang; Tibet; the former Kwantung Leased Territory, the present Port Arthur Naval Base Area and Liaoning Province), Communist-controlled area of Viet Nam and Communist-controlled area of Laos, Czechoslovakia, East Germany (Soviet Zone of Germany and the Soviet Sector of Berlin), Estonia, Hungary, Latvia, Lithuania, North Korea, Outer Mongolia, Poland and Danzig, Rumania, Union of Soviet Socialist Republics.

The 1955 Federal Register notice also stated that the Commission intended to soon "promulgate regulations incorporating the foregoing determination and authorization" and "it is planned that such regulations will include provisions requiring persons who have engaged in certain activities pursuant to the authorization set forth in paragraph 1 on this Notice to submit a report to the Commission concerning such activity."

As the 1955 Federal Register notice indicated, the AEC went on to publish the first complete regulations implementing Section 57 (a) (3) of the Atomic Energy Act in 1956.[17] These regulations were codified at 10 CFR Part 110 (they did not become the Part 810 regulations until 1975). The regulations contained the same language on generally authorized activities from the 1955 Federal Register notice, as well as sections discussing the purpose of the regulations and their scope. As the 1955 notice mentioned, the regulations also detailed reporting requirements for U.S. persons engaging in activities that were generally authorized. Most notably, the 1956 regulations contained sections ("Application for specific authorization" and "Contents of

[16] Restricted Data Declassification Decisions 1946 to the Present (RDD-8). U.S. Department of Energy, January 1, 2002. www.osti.gov/opennet/policy.jsp
[17] 21 Fed. Reg. 418-419, 1956.

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applications") that explained how U.S. persons would go about applying for specific authorization to engage in activities that were not generally authorized.

After these regulations were promulgated, U.S. companies were authorized to transmit to other countries design details related to, for example, power reactors, enrichment plants, reprocessing facilities, and heavy-water production facilities without asking for permission from the AEC as long as the information was not classified and the destination countries were not on the DOC list. The companies were required only to provide a report of their activities to the AEC within 30 days of the activities taking place. If a U.S. company wanted to do business in a country that was on the DOC list, however, it would need to submit an application to the AEC for a specific authorization.

In 1962, an amendment to the 10 CFR Part 110 regulations was published that for the first time established a list of countries requiring specific authorizations independent of other lists maintained by the U.S. government:

> Albania, Bulgaria, China including Manchuria (and excluding Taiwan (Formosa)) (includes Inner Mongolia; the provinces of Tsinghai and Sikang; Sinkiang; Tibet; the former Kwantung Leased Territory, the present Port Arthur Naval Base Area and Liaoning Province), Communist-controlled area of Viet Nam, Cuba, Czechoslovakia, East Germany, Estonia, Hungary, Latvia, Lithuania, North Korea, Outer Mongolia, Poland, Rumania, and the Union of Soviet Socialist Republics.[18]

The regulations still did not mention any specific types of nuclear technologies that would require a specific authorization to export, but a number of factors would eventually change this:

> From 1954 to 1972, U.S. policy and regulations permitted considerable amounts of unclassified nuclear and nuclear-related technology to be transferred through private industry and the scientific community to the Free World. During this period, the Atomic Energy Commission granted a general authorization under 10 CFR Part 110 for unclassified activities by U.S. citizens in atomic energy programs in Free World countries. However, due to the rising proliferation concerns (prompted by the Chinese and French development of nuclear weapons and the Indian nuclear program), the AEC in 1972 withdrew the general authorization for U.S. exports to the Free World of technology related to uranium enrichment, spent fuel reprocessing and heavy water production.[19]

For example, a U.S. company, Vitro International, reportedly transferred reprocessing technology to India.[20] Assuming any such transfer or assistance was provided before 1972 and

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[18] 27 Fed. Reg. 6826, 1962.
[19] Technology Security Volume II, U.S. Department of Energy, Office of International Security Affairs, March 1988. Appendix A, page 5.
[20] From George Perkovich's, "India's Nuclear Bomb: The Impact on Global Proliferation," on page 28: "While the CIRUS reactor was being constructed, Bhabha decided in 1958 to build a plant at Trombay to extract plutonium from spent fuel. Construction of that plant, named Phoenix, began in April 1961, based on the Purex (plutonium-uranium extraction) reprocessing technique developed by the United States and made known internationally through the Atoms for Peace program's declassification of such know-how. An American firm, Vitro International, was contracted to prepare blueprints for the Indian plant, although Indian engineers subsequently modified the plans in

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involved only unclassified material, it would have been generally authorized under the regulations in place at the time. In 1972, the 10 CFR Part 110 regulations added a list of technology-specific activities (essentially, those involving enrichment, reprocessing, and heavy-water technologies) that would require a specific authorization regardless of which country they were to take place in.[21] The list read:

> (i) Designing or assisting in the design of facilities for the chemical processing of irradiated special nuclear material, facilities for the production of heavy water, facilities for the separation of isotopes of uranium, or equipment or components especially designed for any of the foregoing; or
> (ii) Constructing, fabricating or operating such facilities; or
> (iii) Constructing, fabricating or furnishing equipment or components especially designed for use in such facilities; or
> (iv) Training foreign personnel in the design, construction, fabrication, or operation of such facilities or equipment or components especially designed therefore; or
> (v) Furnishing information not available to the public in published form for use in the design, construction, fabrication or operation of such facilities or equipment or components especially designed therefor

The Energy Reorganization Act of 1974 abolished the AEC and created the Energy Research and Development Administration (ERDA) and the Nuclear Regulatory Commission (NRC). In 1975, ERDA published revised regulations under 10 CFR Part 810.[22]

A rulemaking in 1977 broadened the isotope separation language to include, "isotopes of any source or special nuclear material" (i.e., not just uranium) and also added the "fabrication of nuclear fuel containing plutonium" to the list of activities requiring a specific authorization independent of the foreign entity involved.[23] Nineteen countries required specific authorization in the 1977 rulemaking.

Following the passage of the NNPA, the content of the 10 CFR part 810 regulations was substantially revised in 1983 and 1986 as were the associated procedures for processing applications for specific authorization.[24] The final rule from 1983 listed 62 countries in 810.7 (a) that would require specific authorization, explaining that whether a country was party to the NPT or not would be a new criterion:

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the actual construction of the plant. The Phoenix plant, paired with CIRU, provided India with its first weapons-grade plutonium in 1964." See also page 52 of http://fissilematerials.org/library/rr14.pdf, which describes the interactions with Vitro International somewhat differently.

[21] 37 Fed. Reg. 92, Proposed Rule, 1972; 37 Fed. Reg. 14870, Final Rule, 1972.

[22] 40 Fed. Reg. 44826, 1975.

[23] 42 Fed. Reg. 52390, 1977.

[24] 47 Fed. Reg. 41320, Proposed Rule, 1982; 48 Fed. Reg. 5218, Final Rule, 1983. 51 Fed. Reg. 19218, Proposed Rule, 1986; 51 Fed. Reg. 44570, Final Rule, 1986. 43 Fed. Reg. 25326, 1978; 49 Fed. Reg. 20780, 1984.

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> The amended regulations update the list of countries to which the general authorization contained in 810.7(a) does not apply. Added to the listed countries are all non-nuclear weapon states that are not parties to the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) (except for those that accept fullscope safeguards or for which the Treaty of Tlatelolco is currently in force) and certain countries in regions of particular volatility and sensitivity. Withdrawal of the general authorization to these countries will assure that authorizations by the Secretary of Energy under 10 CFR Part 810 involving these countries are consistent with other U.S. export licensing requirements under the NNPA.

The number of countries which would require specific authorization fell to 52 countries in the 1986 rule "by eliminating a number of non-nuclear weapon states which have become parties to the… NPT."

Structurally, the final rule in 1986 split section 810.7 into two sections: one section that described generally authorized activities (810.7) and another section that described activities requiring specific authorization (810.8). The list of technology-specific activities that would require a specific authorization in 810.8 (b) and(c) of the 1986 rulemaking explicitly included "providing sensitive nuclear technology" and added language to cover production reactors:

> (b) Providing sensitive nuclear technology for an activity in any foreign country;
> (c) Engaging in or providing assistance in any of the following activities with respect to any foreign country:
>
> (1) Designing production reactors or facilities for the separation of isotopes of source or special nuclear material (enrichment), chemical processing of irradiated special nuclear material (reprocessing), fabrication of nuclear fuel containing plutonium, or the production of heavy water;
> (2) Constructing, fabricating, operating, or maintaining such reactors or facilities;
> (3) Designing, constructing, fabricating, operating, or maintaining components specially designed, modified, or adapted for use in such reactors or facilities;
> (4) Designing, constructing, fabricating, operating or maintaining major critical components for use in such reactors or production-scale facilities; or
> (5) Training in the activities of paragraphs (c) (1) to (4) of this section.

In 1993, a new rulemaking established a general authorization for assistance that would enhance the operational safety of existing civilian nuclear power reactors in countries that were on the list in 810.8.[25] The total number of countries listed in section 810.8 remained at 52, though only through 13 additions and an equal number of deletions:

> …the list of countries requiring specific authorization even for nuclear power-reactor related activities has been modified to reflect the vast changes in the world since the list was last published in 1986. Deleted from the list are countries that no longer exist, some countries that have become party to the Nuclear Non-Proliferation Treaty (NPT) and completed full-scope safeguards agreements with the International Atomic Energy Agency (IAEA), and East European countries that had been listed solely for national security reasons that vanished with the disintegration of the Warsaw pact. Added to the list are the republics of the former Soviet Union.

[25] 58 Fed. Reg. 13427, Proposed Rule, 1993; 58 Fed. Reg. 39635, Final Rule, 1993.

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Section 810.8 was also modified by the 1993 rule to include "Designing, constructing, fabricating, operating or maintaining research or test reactors capable of continuous operation above 5 Megawatts Thermal." The final rule stated that "the intent is to require specific authorization for assistance to the kinds of reactors that have figured in the clandestine programs of would-be proliferants."

In 1995, a rulemaking recognized the nonproliferation commitments made by Argentina, Brazil, Chile, and South Africa and removed them from the list of countries in 810.8.[26] A rulemaking in 2000 added "accelerator-driven subcritical assembly systems" to the list of technology-specific activities requiring specific authorization.[27] The 2000 rulemaking also added the requirement that countries have full-scope safeguards agreements in place to be generally authorized,[28] and so the number of countries listed in 810.8 grew from 48 to 75:

> The section 810.8 list of countries has been revised to include all non-nuclear weapon states that do not have full-scope safeguards agreements with the International Atomic Energy Agency (IAEA) and to reflect changes in world conditions since the last time the list was updated.

In 2011, DOE published a notice of proposed rulemaking, followed by a supplemental notice in 2013, and a final rule in 2015.[29] The final rule listed 51 countries as generally authorized destinations, inverting the previous paradigm of listing countries that require specific authorization. The 2015 rulemaking effectively added 74 countries to the total number that require specific authorization from the Secretary of Energy.

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[26] 59 Fed. Reg. 44381, Proposed Rule, 1994; 60 Fed. Reg. 43002, Final Rule, 1995.
[27] 64 Fed. Reg. 35959, Proposed Rule, 1999; 65 Fed. Reg. 16124, Final Rule, 2000.
[28] While the 1999 notice of public rulemaking and 2000 final rule did not explicitly say so, the 1995 change to the NSG Trigger List Guidelines adding "or related technology" to paragraph 4 seems likely to have influenced this change. The 1995 NSG change, discussed in the next sub-Chapter, put in place a requirement that to qualify for technology transfers associated with Trigger List items, a receiving country must have brought into force an agreement with the IAEA requiring the application of safeguards on all source and special fissionable material (i.e., a comprehensive safeguards agreement).
[29] 76 Fed. Reg. 55278, Notice of Proposed Rulemaking, 2011. 78 Fed. Reg. 46829, Supplemental Notice of Proposed Rulemaking and Public Meetings, 2013. 80 Fed. Reg. 9359, Final Rule, 2015.

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APPENDIX F: U.S. MULTILATERAL COMMITMENTS RELEVANT TO PART 810: THE NPT AND THE NSG

There are two principle nonproliferation commitments the United States has made in a multilateral context that are relevant to Part 810. The Treaty on the Non-proliferation of nuclear weapons (NPT) and the Nuclear Suppliers Group (NSG) both provide context for understanding Part 810, as well as the role of government assurances in the modern Part 810 process.

The NPT that entered force in 1970 was the embodiment of President Eisenhower's Atoms for Peace bargain. Articles IV and VI gave the non-nuclear weapon states what they wanted: assistance in the peaceful uses of nuclear energy and a commitment by the nuclear weapon states to eliminate their nuclear weapons arsenals. Articles II and III gave the nuclear weapon states what they (and various NNWS) wanted: a commitment by the NNWS not to develop nuclear weapons and agreement by the NNWS to allow international inspections by the IAEA on their nuclear materials and equipment.

Relevant to export control, Article I of the NPT states that nuclear weapon states undertake not to "in any way assist… any non-nuclear-weapon State to manufacture or otherwise acquire nuclear weapons or other nuclear explosive devices." Article III, paragraph 2 of the NPT contained the following provision:

> Each State Party to the Treaty undertakes not to provide: (a) source or special fissionable material, or (b) equipment or material especially designed or prepared for the processing, use or production of special fissionable material, to any non-nuclear-weapon State for peaceful purposes, unless the source or special fissionable material shall be subject to the safeguards required by this Article.

This language implied an export control duty for countries to administer: do not export the material or equipment specified to a NNWS unless IAEA safeguards will be administered. However, the phrase "especially designed or prepared" was not defined in the NPT.

In an effort to harmonize the interpretation of this phrase across the major suppliers, the NPT Exporter's Committee was formed in 1971 to serve as an interpreter and thus harmonize nuclear export control policies for NPT Parties. The first Chairman of the NPT Exporter's Committee was Professor Claude Zangger, and for this reason it is commonly referred to as the "Zangger Committee."

As of November 3, 2017, the Zangger website states:

> The Committee has been focussing on what is meant in Article III.2 of the Treaty by "especially designed or prepared equipment or material for the processing, use or production of special fissionable material." The Zangger Committee maintains a Trigger List (triggering safeguards as a condition of supply) of nuclear-

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related strategic goods to assist NPT Parties in identifying equipment and materials subject to export controls.[30]

The Zangger "Trigger List" is published by the IAEA as the INFCIRC/209 series. It is a list of nuclear materials and equipment that member states are expected to subject to specific conditions of supply, and the export of which "triggers" the need for IAEA safeguards. Even in the very first publishing of INFCIRC/209 there is the condition that a participating government "will require satisfactory assurances that the items will not be re-exported" unless various criteria are met. The concept of assurances was thus an original element of the first multilateral nuclear export control body.

In 1974, India set off a nuclear explosive using plutonium from an un-safeguarded Canadian reactor that was employing U.S.-supplied heavy water. The used nuclear fuel had been reprocessed at a separate site that was also not under IAEA safeguards to produce the plutonium used in the explosion. Both the Canadian reactor and the United States heavy water had been supplied with assurances of peaceful uses, and India claimed that it was a "peaceful nuclear explosion".

In response to India's nuclear explosive test, a series of meetings were held in London between 1975 and 1978 and attended by Canada, France, Japan, the Soviet Union, the United Kingdom, the United States, and West Germany to discuss nuclear export control arrangements.[31] The group was known as the "London Club" and later as the Nuclear Suppliers Group. There were several reasons for the formation of a separate group from Zangger.

First, although France and Japan had major nuclear programs, neither was party to the NPT in 1974 (Japan ratified the NPT in 1976; France not until 1992). As such, neither country was a member of the NPT Exporter's Committee in 1974.

Second, Article III.2 of the NPT notes only material and equipment it makes no mention of nuclear technology. As a result, there was no export control in Zangger for nuclear technology (this remains true today). The lack of control over the transfer of enrichment, reprocessing, and heavy-water technology was of particular concern.

The NSG first published its set of guidelines in 1978 through the IAEA in the INFCIRC/254 series.[32] It followed the formulation of Zangger in describing a "Trigger List" of controlled items and including guidelines that would govern the export of those items.

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[30] http://zanggercommittee.org/
[31] This section draws broadly from INFCIRC/539: "The Nuclear Suppliers Group: Its origins, role and activities", as well as Chapter 28 "Nonproliferation Export Controls" written by Carlton E. Thorne, in "Nuclear Safeguards, Security, and Nonproliferation", editor James Doyle, 2008.
[32] https://www.iaea.org/publications/documents/infcircs/communications-received-certain-member-states-regarding-guidelines-export-nuclear-material-equipment-or-technology

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Paragraphs 6 and 7 of the NSG guidelines in 1978 discussed conditions for the export of enrichment, reprocessing and heavy-water technology a departure from Zangger. The NSG Trigger List and associated Guidelines remained unchanged until the early 1990s, when the discovery of Iraq's nuclear program prompted a flurry of activity.

In 1992, the NSG adopted a policy of denying Trigger List items to countries that did not have full-scope safeguards in place that is, only countries with IAEA safeguards applied to all facilities with nuclear materials and especially designed and prepared equipment. This signaled a major step forward in strengthening nuclear supplier standards from a nonproliferation point of view and Paragraph 4(a) of the Trigger List Guidelines still contains this requirement.

In 1992, the NSG also formed a second control list for items that had non-nuclear commercial uses, but could also be used as part of nuclear programs. This became known as the Dual Use List and was published as INFCIRC/254 Part 2 (with the original set of guidelines and trigger list published as "Part 1"). Similarly, as dual-use items are not discussed by Article III.2 of the NPT, there is no dual-use list in Zangger. The U.S. Department of Commerce administers the export control regulations that govern the export of most of the dual-use items controlled by the NSG.

The NSG development that was most relevant for the Part 810 regulations, however, took place in 1995, when the Trigger List Guidelines were amended to add the phrase "or related technology" in several places. As a result, the technology associated with Trigger List items acquired nearly the same conditions of supply imposed on the materials and equipment. The phrase "related technology" appears many times in the paragraphs of the NSG Trigger List Guidelines. However, paragraphs 2, 4, and 9 are the most relevant for Part 810 considerations.

Paragraph 2 of the NSG Trigger List Guidelines reads:

> Suppliers should authorise transfer of items or related technology identified in the trigger list only upon formal governmental assurances from recipients explicitly excluding uses which would result in any nuclear explosive device.

The reference to "formal government assurances" that the export will not result in a nuclear explosive device corresponds to the step in the Part 810 process of obtaining assurances from a foreign government that technology transfers will be for peaceful purposes. As a member of the NSG, the United States has committed to obtaining assurances, as have the other major supplier countries (e.g., Russia, Korea, China).

Paragraph 4 of the NSG Trigger List Guidelines reads:

> Suppliers should transfer trigger list items or related technology to a non-nuclear weapon State only when the receiving State has brought into force an agreement with the IAEA requiring the application of safeguards on all source and special fissionable material in its current and future peaceful activities.

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In other words, unless a non-nuclear weapon state has agreed to place all of its nuclear materials and equipment under IAEA safeguards, supplier countries adhering to the NSG guidelines including the United States are not to transfer to any non-nuclear weapon state the technology associated with any Trigger List item. India is the one exception. In 2008, after an intensive lobbying effort by the U.S. government, the NSG agreed to an exemption for India from this requirement.

Paragraph 9 of the NSG Trigger List Guidelines reads:

> (a) Suppliers should transfer trigger list items or related technology only upon the recipient's assurance that in the case of:
> (1) retransfer of such items or related technology, or
> (2) transfer of trigger list items derived from facilities originally transferred by the supplier, or with the help of equipment or technology originally transferred by the supplier;
>
> the recipient of the retransfer or transfer will have provided the same assurances as those required by the supplier for the original transfer.
>
> (b) In addition the supplier's consent should be required for:
>
> (1) any retransfer of trigger list items or related technology and any transfer referred to under paragraph 9(a) (2) from any State which does not require full scope safeguards, in accordance with paragraph 4(a) of these Guidelines, as a condition of supply;
> (2) any retransfer of enrichment, reprocessing or heavy water production facilities, equipment or related technology, and for any transfer of facilities or equipment of the same type derived from items originally transferred by the supplier;
> (3) any retransfer of heavy water or material usable for nuclear weapons or other nuclear explosive devices.
>
> (c) To ensure the consent right as defined under paragraph 9(b), government to government assurances will be required for any relevant original transfer.
>
> (d) Suppliers should consider restraint in the transfer of items and related technology identified in the trigger list if there is a risk of retransfers contrary to the assurances given under paragraph 9(a) and (c) as a result of a failure by the recipient to develop and maintain appropriate, effective national export and transshipment controls, as identified by UNSCR1540.

Paragraph 9a discuss obtaining assurances related to the retransfer of supplied material, equipment or technology and in particular that the country re-transferring will obtain the same assurances. Paragraph 9b discusses cases where a supplier's consent should be required for re-transfers. As with paragraph 2, this is the NSG connection with the Part 810 process step of obtaining assurances from a foreign government that after a technology is supplied, it will not be retransferred without the consent of the U.S. government. U.S. government policy is to obtain assurances of no retransfer without U.S. government consent for all Part 810 cases (deemed exports aside), which is stronger than what is actually required by paragraph 9.

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The NSG does not spell out in detail how these conditions of supply are to be implemented by participating governments. In particular, for nations with state-run nuclear entities, such as Russia and Rosatom, the employees are government actors and thus they could obtain the assurances themselves. In the case of the United States, the companies with nuclear technology are private entities, distinct from the U.S. government, but the U.S. government still obtains the assurances.

In the Trigger List itself, there is further discussion of technology controls:

> The transfer of "technology" directly associated with any item in the List will be subject to as great a degree of scrutiny and control as will the item itself, to the extent permitted by national legislation.
>
> Controls on "technology" transfer do not apply to information "in the public domain" or to "basic scientific research".

This is consistent with Section 810.2(c), which asserts that Part 810 does not apply to "transfers of publicly available information, publicly available technology, or the results of fundamental research." There is also acknowledgment in the NSG Trigger List ("to the extent permitted by national legislation") that States' national legislation may differ, producing some level of variation in the control of technology.

As the 2015 Final Notice of Public Rulemaking in the Federal Register noted:

> The NSG Guidelines are adopted by the NSG by unanimous approval; thus, in some important instances the part 810 regulation will not conform to the NSG Guidelines but instead reflects U.S. law.[33]

[33] Federal Register. Vol. 80, No. 35. Monday, February 23, 2015. 9370.

NUCLEAR INNOVATION ALLIANCE

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-000518

Greenberg, Craig E. (CONTR)

Subject: FW: Westinghouse Update
Location: Tel: +1(b) (6)

Start: Fri 3/1/2019 10:00 AM
End: Fri 3/1/2019 11:00 AM
Show Time As: Tentative

Recurrence: (none)

Meeting Status: Not yet responded

Organizer: Harsch, Nathan R

-----Original Appointment-----
From: Harsch, Nathan R [mailto:harschnr@westinghouse.com]
Sent: Sunday, February 24, 2019 8:25 PM
To: Harsch, Nathan R; Strangis, Katie; Jones, Sean J; White, Thomas J.; Corletti, Michael M; Lopatto, Jeanne T.; Durham, David C; Kuyler, Ray; Zorzi, Julia M
Subject: [EXTERNAL] Westinghouse Update
When: Occurs every Friday effective 3/1/2019 from 10:00 AM to 11:00 AM Eastern Standard Time.
Where: Tel: +1 (b) (6)

1(b) (6)

Passcode: (b) (6)

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Use caution if this message contains attachments, links or requests for information.
****

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Markus, Stephen
Sent: Tuesday, January 23, 2018 4:28 PM
To: Reilly, Thomas
Subject: RE: GC guidance on Westinghouse engagement

Sure- I'll come by. Thanks.

-----Original Message-----
From: Reilly, Thomas
Sent: Tuesday, January 23, 2018 4:28 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Subject: RE: GC guidance on Westinghouse engagement

Now good?

-----Original Message-----
From: Markus, Stephen
Sent: Tuesday, January 23, 2018 4:27 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: GC guidance on Westinghouse engagement

Thanks, Tom. Glad to discuss at your convenience.

Stephen

-----Original Message-----
From: Reilly, Thomas
Sent: Tuesday, January 23, 2018 4:26 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Subject: RE: GC guidance on Westinghouse engagement

Thanks Stephen. b(5)

Tom

-----Original Message-----
From: Markus, Stephen
Sent: Tuesday, January 23, 2018 4:25 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: FW: GC guidance on Westinghouse engagement

Hi Tom,

b(5) Please let me know if you would like any assistance.

Thanks,

AMERICAN OVERSIGHT

Stephen

-----Original Message-----
From: Yu, Alan
Sent: Monday, January 22, 2018 2:02 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Urbanas, Elizabeth <Elizabeth.Urbanas@Hq.Doe.Gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>
Subject: GC guidance on Westinghouse engagement

Stephen--

b(5)

Thanks,
Alan

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McRae, Ben
Sent: Tuesday, March 28, 2017 1:52 PM
To: Lucas, John T.;Beard, Susan;Reilly, Thomas;Hymer, Christina
Subject: FW: FOR REVIEW TODAY: Vogtle/Westinghouse QA
Attachments: Vogtle-Westinghouse QA DRAFT v3 3 28 17.docx

Importance: High

Any comments

From: Geisler, Lindsey
Sent: Tuesday, March 28, 2017 11:58 AM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Urbanas, Elizabeth <Elizabeth.Urbanas@Hq.Doe.Gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Peery, Kathy <Kathy.Peery@hq.doe.gov>
Cc: Mahar, Brian (CONTR) <Brian.Mahar@Hq.Doe.Gov>; Larson, Seth <Seth.Larson@nuclear.energy.gov>; Davenport, Shari <Shari.Davenport@hq.doe.gov>
Subject: FOR REVIEW TODAY: Vogtle/Westinghouse QA
Importance: High

Hey everyone – Some of you have seen this, some haven't, but I want to make sure everyone is on the same page. (b) (5)
(b) (5)

If there are others in your office that need to review, please loop them or work through your channels as appropriate.
(b) (5)

Lindsey Geisler
Office of Public Affairs
U.S. Department of Energy

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U.S. Department of Energy
Loan Programs Office
Plant Vogtle Units 3&4

PROJECT SUMMARY

(b) (5)

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Q&A

(b) (5)

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(b) (5)

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(b) (5)

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(b) (5)

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Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Tuesday, March 28, 2017 2:39 PM
To: McRae, Ben;Lucas, John T.;Beard, Susan;Hymer, Christina
Subject: RE: FOR REVIEW TODAY: Vogtle/Westinghouse QA
Attachments: Vogtle-Westinghouse QA DRAFT v3 3 28 17 GC 53.docx

b(5)

Thanks.

Tom

From: McRae, Ben
Sent: Tuesday, March 28, 2017 1:52 PM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Beard, Susan <Susan.Beard@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>
Subject: FW: FOR REVIEW TODAY: Vogtle/Westinghouse QA
Importance: High

Any comments

From: Geisler, Lindsey
Sent: Tuesday, March 28, 2017 11:58 AM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Urbanas, Elizabeth <Elizabeth.Urbanas@Hq.Doe.Gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Peery, Kathy <Kathy.Peery@hq.doe.gov>
Cc: Mahar, Brian (CONTR) <Brian.Mahar@Hq.Doe.Gov>; Larson, Seth <Seth.Larson@nuclear.energy.gov>; Davenport, Shari <Shari.Davenport@hq.doe.gov>
Subject: FOR REVIEW TODAY: Vogtle/Westinghouse QA
Importance: High

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(b) (5)

Lindsey Geisler

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Plant Vogtle Units 3&4

PROJECT SUMMARY

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Q&A

(b) (5)

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(b) (5)

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(b) (5)

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(b) (5)

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Greenberg, Craig E. (CONTR)

From: Hymer, Christina
Sent: Tuesday, March 28, 2017 4:15 PM
To: Reilly, Thomas;McRae, Ben;Lucas, John T.;Beard, Susan
Subject: RE: FOR REVIEW TODAY: Vogtle/Westinghouse QA

GC-56 has no additional suggested edits.

From: Reilly, Thomas
Sent: Tuesday, March 28, 2017 2:39 PM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Lucas, John T. <John.T.Lucas@hq.doe.gov>; Beard, Susan <Susan.Beard@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>
Subject: RE: FOR REVIEW TODAY: Vogtle/Westinghouse QA

b(5)

Thanks.

Tom

From: McRae, Ben
Sent: Tuesday, March 28, 2017 1:52 PM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Beard, Susan <Susan.Beard@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>
Subject: FW: FOR REVIEW TODAY: Vogtle/Westinghouse QA
Importance: High

Any comments

From: Geisler, Lindsey
Sent: Tuesday, March 28, 2017 11:58 AM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Urbanas, Elizabeth <Elizabeth.Urbanas@Hq.Doe.Gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Peery, Kathy <Kathy.Peery@hq.doe.gov>
Cc: Mahar, Brian (CONTR) <Brian.Mahar@Hq.Doe.Gov>; Larson, Seth <Seth.Larson@nuclear.energy.gov>; Davenport, Shari <Shari.Davenport@hq.doe.gov>
Subject: FOR REVIEW TODAY: Vogtle/Westinghouse QA
Importance: High

Hey everyone – Some of you have seen this, some haven't, but I want to make sure everyone is on the same page. (b) (5)
(b) (5)

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If there are others in your office that need to review, please loop them or work through your channels as appropriate.
(b) (5)

Lindsey Geisler
Office of Public Affairs
U.S. Department of Energy

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Meikle, Grace K. (CONTR)
Sent: Sunday, June 25, 2017 12:19 PM
To: Richards, Andrew
Subject: U.S. nuclear exports paper
Attachments: US Nuclear Exports_clean.docx; US Nuclear Exports_marked.docx

Andrew,

Not sure if you sent this to Ed yet but I found a few small grammar errors that I've corrected for the final version to be sent up to S1's office.

Grace

From: Meikle, Grace K <grace.meikle@inl.gov>
Sent: Sunday, June 25, 2017 12:16:30 PM
To: Meikle, Grace K. (CONTR)
Subject: nuclear exports

AMERICAN OVERSIGHT

Status of U.S. Nuclear Reactor Exports

Overview of Global Nuclear Market

(b) (5)

Summary of U.S. Top Markets for Civil Nuclear Exports

(b) (5)

Commercial Advocacy for U.S. Companies Abroad

(b) (5)

Major U.S. Nuclear Exporters

(b) (5)

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(b) (5)

Westinghouse (WEC): (b) (5)
(b) (5)

General Electric (GE): (b) (5)
(b) (5)

Challenges for U.S. Nuclear Exporters
(b) (5)

AMERICAN OVERSIGHT

Status of U.S. Nuclear Reactor Exports

(b) (5) **Overview of Global Nuclear Market**

(b) (5) **Summary of U.S. Top Markets for Civil Nuclear Exports**

(b) (5) **Commercial Advocacy for U.S. Companies Abroad**

(b) (5) **Major U.S. Nuclear Exporters**

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(b) (5)

Westinghouse (WEC): (b) (5)
(b) (5)

General Electric (GE): (b) (5)
(b) (5)

Challenges for U.S. Nuclear Exporters
(b) (5)

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Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Tuesday, January 09, 2018 2:01 PM
To: Scott, Michelle
Cc: Richards, Andrew; Lennon, Sarah
Subject: RE: S2/Saudi: Saudi Electricity Company Memo and TPs - 3PM tomorrow please

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks, Michelle. b(5)
b(5)

Best, Ed

b(5)

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Tuesday, Jan 09, 2018, 1:45 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: S2/Saudi: Saudi Electricity Company Memo and TPs - 3PM tomorrow please

Ed,

Attached are the suggested edits from State and NNSA for the 123 agreement section. Also to note and attached is the draft memo IA is pulling together for a b(5)

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
b(6) ***(cell)***

AMERICAN OVERSIGHT

NNSA Equity

From: McKearin, Josh
Sent: Friday, January 05, 2018 5:41 PM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Pasalic, Blair <Blair.Pasalic@hq.doe.gov>; Jewell, James <James.Jewell@hq.doe.gov>; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Hutchins, Scott <Scott.Hutchins@NNSA.DOE.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>
Subject: RE: S2/Saudi: Saudi Electricity Company Memo and TPs - 3PM tomorrow please

Jac,

Any idea as to an ETA?

Thanks,
Josh

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

From: McKearin, Josh
Sent: Friday, January 05, 2018 4:03 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Pasalic, Blair <Blair.Pasalic@hq.doe.gov>; Jewell, James <James.Jewell@hq.doe.gov>; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Hutchins, Scott <Scott.Hutchins@NNSA.DOE.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>
Subject: RE: S2/Saudi: Saudi Electricity Company Memo and TPs - 3PM tomorrow please

Circling back around on this. Any chance the SEC input is ready? If not, ETA?

Thanks,
Josh

From: Scott, Michelle
Sent: Thursday, January 04, 2018 8:53 PM
To: McKearin, Josh <Josh.Mckearin@Hq.Doe.Gov>
Cc: Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Pasalic, Blair <Blair.Pasalic@hq.doe.gov>; Jewell, James <James.Jewell@hq.doe.gov>; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Hutchins, Scott <Scott.Hutchins@NNSA.DOE.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>
Subject: RE: S2/Saudi: Saudi Electricity Company Memo and TPs - 3PM tomorrow please
Importance: High

Josh,

Attached are the updated docs that reflect yesterday's discussion. Please note that the Issue Paper's sections were reorganized to make the document flow and read better. Wrt the 123 input, Jac reached out to Sarah Orndorff at State today to have State update the 123 language and points. She's should get something to Jac by tomorrow.

I will the input for the SEC memo in the am.

Michelle

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<< File: 2018-01-03 06a - S2 Bilat with KACARE Alodanv2 - NE edits bpawl MLS_JC JHG SL.docx >> << File: 2018-01-3 06b - S2 Bilat with KACARE Alodan TPsv2 - NE editsawl MLS_JC_DH JHG SL.docx >> << File: 2018-01-04 10 - Bkgrd Paper - Nuclearv2 gs bp mls JC DH JG SL.docx >>

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: McKearin, Josh
Sent: Thursday, January 04, 2018 4:48 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Hutchins, Scott <Scott.Hutchins@NNSA.DOE.Gov>; Paladino, Joseph (HQ) <Joseph.Paladino@hq.doe.gov>; Gay, Carolyn <Carolyn.Gay@hq.doe.gov>
Cc: Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Pasalic, Blair <Blair.Pasalic@hq.doe.gov>; Jewell, James <James.Jewell@hq.doe.gov>
Subject: S2/Saudi: Saudi Electricity Company Memo and TPs - 3PM tomorrow please
Importance: High

Michelle, Scott, Joe, and Carolyn,

Sorry for the last minute, short-turn around request, but we have been asked to have the papers ready for IA front office review by tomorrow so we can get them ready for the Dep Sec on Monday (he leaves Wednesday, but our deadline is Monday).

As such, could you please send me your input by ***3PM, Friday, January 5***? Earlier is always appreciated.

All edits are welcome, but specifically:

b(5)

b(5)

As you heard previously, we had an opportunity to talk with Embassy/Scott this morning (evening in Riyadh), and since Friday/Saturday is the Saudi weekend, the Saudis are not yet aware of the request (Embassy will start knocking on doors ASAP).

If there are any questions, please get in touch.

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Thanks,
Josh

Josh McKearin
International Affairs
U.S. Department of Energy
O: 202-586-3149
M: b(6)

<< File: XX - S2 Bilat with SEC Awaji TP.docx >> << File: XX - S2 Bilat with SEC Awaji.docx >>

AMERICAN OVERSIGHT

Document 3

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Monday, September 10, 2018 6:52 PM
To: Scott, Michelle
Cc: Richards, Andrew
Subject: RE: Industry Engagement with Saudi in Vienna, Austria

Follow Up Flag: Follow up
Flag Status: Flagged

Thanks and very good to know.

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Monday, Sep 10, 2018, 6:39 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: Industry Engagement with Saudi in Vienna, Austria

Ed,

NEI
Just a quick update, Dan Lipman of NEI will send to KACARE; the industry proposed 21-day HR study tour immediate before the GC conference or deliver it at the GC next week. He is also seeking a meeting with KACARE officials to further discuss the study tour the while at the GC.

Westinghouse
WEC's President and CEO, Jose Gutierrez will be in Vienna, Austria next week but will not be part of the US Industry delegation hosted by DOC. Gutierrez along with David Durham and Jeanne Lopatto (David and Jeanne are part of the DOC's industry del) are seeking meetings with Saudi – KACARE-Dr. Al Sultan and Dr. Al Odan, Chief Atomic Energy Officer
Dr. Aldoan, India – DEA Dr. Basu and perhaps with his replacement (unclear if his replacement is attending the GC), and possibly with Poland – Min. of Energy - Jozef Sobolewski

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Please let me know if you have any questions.

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
b(6) ***(cell)***

AMERICAN OVERSIGHT

Document 4

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Friday, January 12, 2018 11:06 AM
To: Scott, Michelle
Cc: Richards, Andrew; Furstenau, Raymond (HQ)
Subject: FW: FW: Toshiba/Westinghouse update

Follow Up Flag: Follow up
Flag Status: Flagged

Michelle, I will look to you to be the new custodian of this summary and to keep it up to date.

Thanks!

From: Meikle, Grace K [mailto:grace.meikle@inl.gov]
Sent: Friday, January 12, 2018 10:00 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Subject: Re: FW: Toshiba/Westinghouse update

Thank you! I will add this to the summary. FYI, I have updated the fact sheet and background paper with all of the recent developments. They are currently undergoing review by LPO and NNSA. I will sent his to the front office prior to my departure. Ed, I also b(6)

On Fri, Jan 12, 2018 at 9:48 AM, McGinnis, Edward <Edward.McGinnis@nuclear.energy.gov> wrote:

For summary

From: Kim, Dong <Dong.Kim@hq.doe.gov>
Date: Friday, Jan 12, 2018, 9:26 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>, Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: FW: Toshiba/Westinghouse update

-----Original Message-----
From: Pollog, Thomas
Sent: Friday, January 12, 2018 8:24 AM
To: Sneed, John <John.Sneed@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Reed, Michael <Michael.Reed@hq.doe.gov>; Marcum, Robert <Robert.Marcum@Hq.Doe.Gov>; Cortes, Hernan <Hernan.Cortes@Hq.Doe.Gov>
Cc: Smith, Melissa <Melissa.Smith@Hq.Doe.Gov>; Genova, Nicholas <Nicholas.Genova@Hq.Doe.Gov>; Pickering, Marc (CONTR) <Marc.Pickering@hq.doe.gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Harris, Ronald <Ronald.Harris@hq.doe.gov>; Higgins, Mark <Mark.Higgins@hq.doe.gov>; Bullinger, Edward <Edward.Bullinger@Hq.Doe.Gov>; Hulihan, Terrence <Terry.Hulihan@hq.doe.gov>; Tobin, Daniel <Daniel.Tobin@hq.doe.gov>; Klos, Chris <Chris.Klos@Hq.Doe.Gov>; Hill, Stephen T. <Stephen.Hill@hq.doe.gov>; Stevens, Woody <Woody.Stevens@Hq.Doe.Gov>; Reid, Donald <Donald.Reid@hq.doe.gov>; Ratliffe, Jerome <Jerome.Ratliffe@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Moore, Karen

AMERICAN OVERSIGHT

<Karen.Moore@hq.doe.gov>; Kania, Edward <Edward.Kania@hq.doe.gov>; Trebules, Victor (CONTR) <Victor.Trebules@hq.doe.gov>; Ed Davis <edavis@pegasusgroup.us>
Subject: Toshiba/Westinghouse update

All,

The latest overnight news from DOE Tokyo is below.

Toshiba Completes Full and Early Payment of Guarantee Obligations for the V.C. Summer Nuclear Power Plant Project in South Carolina, U.S.A.
Toshiba, January 12
Toshiba Corporation today announced that it has completed early payment of the full amount of the parent company guarantee obligation in respect of the construction of Westinghouse AP1000 reactors at Units 2 and 3 of the V.C. Summer Nuclear Station in South Carolina, U.S.A. (the "Payment"), as per agreements made between Toshiba and the two owners of the V.C. Summer project: South Carolina Electric & Gas Company (SCE&G), the principal and wholly-owned subsidiary of SCANA Corporation and Santee Cooper, and subsequently with Citigroup Financial Products Inc. (Citigroup), now the holder of the rights to the claim of parent company guarantee payment after purchasing them from the two owners of the project.
As Toshiba announced on July 28 2017 in "Toshiba Settles Its Parent Company Guarantee Obligations and Payment Schedule for U.S. Nuclear Power Plant Construction Projects," Toshiba entered into an agreement with the two owners of the project that set the maximum limit of Toshiba's guarantee obligations at US$2.168 billion (approx. 245.0 billion yen*), with payments to be made in installments during the period October 2017 to September 2022. Under the terms of this agreement, Toshiba previously made payments totaling US$ 247.5 million (approx. 28.0 billion yen).
Today's payment was made to Citigroup in the amount of US$1,860.5 million (approx. 210.2 billion yen). This constitutes the outstanding amount of the parent company guarantee obligation, adjusted to deduct US$60 million (approx. 6.8 billion yen) related to the mechanic's lien*1, a guarantee of payment to builders, contractors and construction firms for their work.
With the Payment, Toshiba obtains the right to pursue claims against Westinghouse for the amount paid for the parent company guarantee obligation for the V.C. Summer project, while eliminating future risk of foreign currency exchange fluctuations.
As Toshiba announced on December 14, 2017 in "Toshiba Completes Full and Early Payment of Guarantee Obligations for the Vogtle Nuclear Power Plant Project in Georgia, U.S.A.," Toshiba has also completed early payment of the parent company guarantee obligation to the owners, including Georgia Power, a wholly-owned subsidiary of Southern Company, of the construction project for Westinghouse AP1000 reactors at Units 3 and 4 of Plant Vogtle in Georgia. In that announcement, Toshiba also stated that it was in discussions with the owners of the V.C. Summer claims about the terms and conditions required for full payment of the guaranteed amount.
With today's payment, Toshiba has completed early payments in full to the maximum limit of its parent company guarantee obligations for Westinghouse AP1000 reactor construction projects in the U.S.
As announced on November 19, 2017, in "Toshiba to Explore Alternatives to Sell its Westinghouse Related Assets," Toshiba plans to reduce the internal resources that it must allocate to Westinghouse's rehabilitation proceedings by selling the claims to a third party, along with assets that include debt Toshiba holds against Westinghouse and other Westinghouse-related companies that filed for Chapter 11 bankruptcy protection*2 (the "Assets"). Toshiba plans to sell the rights to pursue claims against Westinghouse for the amount paid for the parent company guarantee obligations for both Plant Vogtle and V.C. Summer Nuclear Power Plant projects (the "Claims"), and the Assets by the end of March 2018. If the sale of the Claims and Assets are completed by that date, Toshiba expects to see an increase in its shareholders' equity by the end of FY2017, ending March 31, 2018, due to the income from the sale and the tax impact.
Notes:
*1 A mechanic's lien is the U.S. system for construction projects that guarantees payment to builders, contractors and construction firms for their work. When those builders, contractors and construction firms who register a mechanics' lien are guaranteed a certain amount as a result of Westinghouse's rehabilitation proceedings, it has the effect of reducing Westinghouse's debt held by Toshiba through the parent company guarantee obligations by the same amount. Today's payment to Citigroup reflects the projected impact of the reduction in the mechanic's lien.
*2 Companies that filed a voluntary petition under Chapter 11 of the U.S. Bankruptcy Code include Westinghouse Electric Company ("WEC"), certain of WEC's U.S. subsidiaries and affiliates, and Toshiba Nuclear Energy Holdings (UK) Limited, the holding company for Westinghouse Group operating companies outside the U.S.
* For convenience only, all U.S. dollar figures in this announcement are valued at 113 yen to the dollar

AMERICAN OVERSIGHT

And from Global Atlanta

Public Service Commissioner Tim Echols Upbeat About Georgia's Nuclear Future
The Canadian investment firm Brookfield Business Partners has entered into an agreement to acquire Westinghouse Electric Co. which went bankrupt while building Georgia's nuclear plants.

JANUARY 11, 2018 | PHIL BOLTON

Georgia Public Service Commissioner Tim Echols campaigning.
The decision by the Georgia Public Service Commission in the closing days of 2017 to allow the Georgia Power Co. and its partners to continue constructing two new nuclear reactors at Plant Vogtle may have the greatest impact on the state's future of any it made during the year.

All five members of the commission, which is to exercise its authority and influence to ensure that consumers receive safe, reliable and reasonably priced telecommunications, electric and natural gas services from financially viable and technically competent companies, approved the decision.

The project had been plagued by delays and escalating costs for years. Georgia Power estimates the reactors will cost $12.2 billion and won't be finished until 2021 and 2022 with Georgians having to assume the costs.

The new reactors on the Savannah River near Waynesboro were initially expected to cost the company about $6 billion and be completed last year. The cost has ballooned to about $4.3 billion for construction and capital costs with $2 billon in financing costs.

With the project only about 40 percent complete, the original contractor, Westinghouse Electric Co., declared bankruptcy in March 2017 after its parent company, Toshiba Corp., wrote off more than $6 billion in losses from its nuclear business including the V.C. Summer plant in South Carolina. Westinghouse also was responsible for that new reactor project, which was dropped by its owners in July due to its high costs of completion.

Tim Echols, who won reelection as a member of the Georgia Public Service Commission to another six year term in 2016, has been in the middle of the decision concerning the Georgia reactors and responded to Global Atlanta's inquiries about the future of the project as well as the recent announcement that the Canadian investment firm Brookfield Business Partners has entered into an agreement with Toshiba to purchase Westinghouse. The purchase for $4.6 billion marks Brookfield's first investment in the nuclear industry.

According to published reports, the transaction is subject to bankruptcy court approval, and is expected to close in the third quarter of this year.

Global Atlanta: As a member of the Georgia Public Service Commission, you were in the middle of the decision to allow Georgia Power to continue building two new nuclear reactors at Plant Vogtle. For this reason, we wonder what is your reaction to the announcement that the Canadian investment firm Brookfield Business Partners has entered into an agreement with Toshiba Corp. to purchase Westinghouse Electric Co.

Tim Echols: Having Westinghouse a part of a North American firm is exciting to me. Canada is a great partner for the United States in so many ways, and I believe this acquisition will help more Westinghouse reactors eventually be built throughout our country."

Global Atlanta: Since Georgia Power has hired Southern Nuclear to take over construction and management at the plant could there be some confusion as to the future development of the plants.

Commissioner Echols: Westinghouse is still vital to our work at Vogtle because they own the technology. We want to see them robust and financially healthy so that they have the resources and staff to honor their existing agreements.

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Global Atlanta: What is interesting to us is that Brookfield has no other nuclear businesses and that it would invest more than $4 billion at a time when new nuclear power plants globally are being built at the lowest level in a decade following renewed safety concerns after the Fukushima disaster in Japan in 2011.

Commissioner Echols: Brookfield is acquiring Westinghouse at a bargain price, so I understand their speculation. With our commission giving a new expanded cost and schedule, Brookfield probably believes the Georgia reactors will get built which will in turn spur more states to follow Georgia's lead. I only wish we had negotiated some sort of royalty where Georgia ratepayers would benefit from future builds across the continent.

Global Atlanta: What were the main reasons for all the cost overruns and delays in the completion of the reactors?

Commissioner Echols: First, I think it was a mistake to have three large nuclear-oriented jobs going simultaneously as we did at the Summer Plant, Vogtle Plant and the Savannah River Site. The new Westinghouse AP1000 design had an enormous learning curve–especially in the condensed nuclear island–and concrete and welding issues threw the schedule behind, therefore interest costs were much higher than anticipated because of the delays.

Global Atlanta: What is your opinion of the competence of the Westinghouse managers and engineers involved in the project?

Commissioner Echols: Westinghouse has been building nuclear reactors for a long time and have the smartest engineers and scientists on staff anyone could ask for. I am very confident that we can finish this new design.

Global Atlanta: Brookfield has operations around the world in projects such as pipelines, wireless towers, power generation, ports and toll roads. Some explain its business as shoring up the backbone of the global economy. The company's focus on infrastructure projects has been praised as being especially smart because of the long-term need for these investments. But they haven't been involved in nuclear.

Commissioner Echols: Canada has been a world leader in public-private partnerships as a way to build infrastructure, so I do believe Brookfield brings a unique perspective. Their experience and patience will be valuable as we move forward to finish our project by 2022.

Global Atlanta: Is it your view that nuclear generation will be a global phenomenon in the future and that Brookfield is being farsighted and financially astute in its support of Westinghouse? In short, do you think that Brookfield in making a wise purchase by acquiring Westinghouse?

Commissioner Echols: The Nuclear Renaissance that so many of us had hoped would happen is on life support–at least here in the United States. Brookfield is strategically stepping in after seeing Georgia commissioners give their unanimous support to not only finishing the Georgia project, but granting a new cost and schedule that will enable Southern Nuclear to realistically be able to finish it.

Global Atlanta: Is it possible that Westinghouse could reclaim that project in view of this change in ownership?

Commissioner Echols: Westinghouse stands to benefit if we finish our reactors. In 2022 when our plant comes on-line, other states who were looking skeptically about the project will probably decide to build new nuclear–especially in light of the constraints we are seeing with natural gas during extreme weather events like we have experienced recently.

Global Atlanta: Will the Brookfield purchase have any implications for the development of the new Vogtle reactors?

Commissioner Echols: Brookfield's purchase of Westinghouse can only help us here in Georgia. Their focus on infrastructure is exactly what Westinghouse needs to finish this project–which the whole world is watching.

Global Atlanta: You have stated that the development of nuclear reactors in Russia and China will enable these countries to develop technologies that they will sell around the world. Meanwhile the U.S., by limiting its commitment to nuclear, will find itself behind in these technological developments. Do you continue to feel this way?

Commissioner Echols: China is building several types of reactors including one of their own–which I understand they

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would like to market worldwide eventually. Russia is doing the same in Belarus, just to name one instance. The success of these projects can be parlayed into other projects with other nations who desperately need reliable base-load power.

https://www.pri.org/stories/2017-11-07/lithuania-worries-russia-funded-nuclear-reactor-belarus-part-push-more-power

Global Atlanta: What sort of research did the Georgia Public Service Commission undertake before making its final decision concerning the go-ahead for the new reactors?

Commissioner Echols: We conduct lengthy and detailed hearings every six months on our nuclear project looking at mostly financial scenarios. Clearly, this was the first hearing where our staff believed that the project had become uneconomic. Obviously, commissioners believed that there were other reasons to move forward despite that forecast.

Global Atlanta: What kind of response from Georgia Power customers who will be billed for the development of the two new reactors has the Georgia Public Service Commission received?

Commissioner Echols: From a grid perspective, Georgia ratepayers have enjoyed high reliability and low rates for many years, and that has manifested itself as a certain degree of trust. If we are wrong and these reactors don't get built, we certainly risk losing that trust and confidence.

Global Atlanta: Please provide the time-frame in which you foresee the two nuclear reactors being completed?

Commissioner Echols: With our new cost and schedule, I expect we'll see one unit come online in 2021, and the other in 2022. Brookfield obviously has a lot riding on this now and I expect we'll see increased productivity with them at the helm of Westinghouse.

Global Atlanta: Once they are completed, how will the state and Georgians benefit generally?

Commissioner Echols: These reactors are enormous producing 1100 megawatts of power each. We expect them to be in service for 80 years providing some of the cheapest electricity in the state.

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Greenberg, Craig E. (CONTR)

From: Grace Meikle (b) (6)
Sent: Friday, January 19, 2018 5:00 PM
To: Richards, Andrew
Subject: Re: FW: Toshiba WEC Papers

Follow Up Flag: Follow up
Flag Status: Flagged

(b) (6)

On Jan 19, 2018 3:12 PM, "Grace Meikle" (b) (6) wrote:
Lol... Thanks!

On Jan 19, 2018 3:08 PM, "Richards, Andrew" <Andrew.Richards@nuclear.energy.gov> wrote:
And one more!

-----Original Message-----
From: McGinnis, Edward
Sent: Friday, January 19, 2018 3:06 PM
To: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Goff, Michael (CONTR) <mike.goff@nuclear.energy.gov>; Williams, Bradley <Bradley.Williams@Nuclear.Energy.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Goff, Michael (CONTR) <mike.goff@nuclear.energy.gov>; Benahmed, Farah (CONTR) <Farah.Benahmed@nuclear.energy.gov>; Shannon, Jasmine (CONTR) <Jasmine.Shannon@nuclear.energy.gov>
Subject: RE: Toshiba WEC Papers

Thank you very much, Grace! You have done a fantastic job covering the Toshiba/Westinghouse and related issues. Your papers have, and continue to be, very important and highly useful. Thanks again for sending me these revised papers (b) (6) . Another example of your top-notch professionalism and dedication to the NE mission.

Very best,

Ed

-----Original Message-----
From: Meikle, Grace K. (CONTR)
Sent: Friday, January 19, 2018 2:22 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Goff, Michael (CONTR) <mike.goff@nuclear.energy.gov>; Williams, Bradley <Bradley.Williams@Nuclear.Energy.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Goff, Michael (CONTR) <mike.goff@nuclear.energy.gov>; Benahmed, Farah (CONTR) <Farah.Benahmed@nuclear.energy.gov>; Shannon, Jasmine (CONTR) <Jasmine.Shannon@nuclear.energy.gov>

AMERICAN OVERSIGHT

Subject: Toshiba WEC Papers

Hi Ed,

As promised, here are some final WEC papers reviewed by LPO and NNSA. The first is a fact sheet which presents the most up to date situation regarding WEC, Toshiba, and the projects. The second is a paper which chronicles the history of the bankruptcy and is quite long but I thought it would be good to have on record and be trimmed as needed.

Thank you,

Grace

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Greenberg, Craig E. (CONTR)

From: Furstenau, Raymond (HQ)
Sent: Thursday, August 03, 2017 5:16 AM
To: McGinnis, Edward; Richards, Andrew
Subject: RE: (b) (5)

Follow Up Flag: Follow up
Flag Status: Flagged

(b) (5)

Ray

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Wednesday, Aug 02, 2017, 7:11 PM
To: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: (b) (5)

(b) (5)

Best,

Ed

From: Glaser, Herbert <Herbert.Glaser@hq.doe.gov>
Date: Wednesday, Aug 02, 2017, 6:57 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>, Sneed, John <John.Sneed@hq.doe.gov>
Cc: Kim, Dong <Dong.Kim@hq.doe.gov>, Reed, Michael <Michael.Reed@hq.doe.gov>, Marcum, Robert <Robert.Marcum@Hq.Doe.Gov>
Subject: RE: (b) (5)

Ed,

(b) (5)
(b) (5)

Best, Herb

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>

AMERICAN OVERSIGHT

Date: Wednesday, Aug 02, 2017, 6:21 PM
To: Glaser, Herbert <Herbert.Glaser@hq.doe.gov>, Sneed, John <John.Sneed@hq.doe.gov>
Cc: Kim, Dong <Dong.Kim@hq.doe.gov>, Reed, Michael <Michael.Reed@hq.doe.gov>, Marcum, Robert <Robert.Marcum@Hq.Doe.Gov>
Subject: RE: (b) (5)

(b) (5)

Best,

Ed

From: Glaser, Herbert <Herbert.Glaser@hq.doe.gov>
Date: Wednesday, Aug 02, 2017, 6:15 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>, Sneed, John <John.Sneed@hq.doe.gov>
Cc: Kim, Dong <Dong.Kim@hq.doe.gov>, Reed, Michael <Michael.Reed@hq.doe.gov>, Marcum, Robert <Robert.Marcum@Hq.Doe.Gov>
Subject: RE: (b) (5)

(b) (5)

Ed and John,

(b) (5)

Thanks, Herb

Herbert A. Glaser
Chief Counsel | Loan Programs Office
DEPARTMENT OF ENERGY
Forrestal 4B-122 | 1000 Independence Avenue, SW
Washington, DC 20585 | T 202.586.4852

From: Meikle, Grace K. (CONTR)
Sent: Wednesday, August 02, 2017 5:56 PM
To: Glaser, Herbert <Herbert.Glaser@hq.doe.gov>; Smith, Melissa <Melissa.Smith@Hq.Doe.Gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Marcum, Robert <Robert.Marcum@Hq.Doe.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Moore, Karen <Karen.Moore@hq.doe.gov>; Reed, Michael <Michael.Reed@hq.doe.gov>; Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Higgins, Mark <Mark.Higgins@hq.doe.gov>; Sneed, John <John.Sneed@hq.doe.gov>
Subject: RE: (b) (5)

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(b) (5)

Thank you,
Grace

From: Glaser, Herbert
Sent: Wednesday, August 02, 2017 5:51 PM
To: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>; Smith, Melissa <Melissa.Smith@Hq.Doe.Gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Marcum, Robert <Robert.Marcum@Hq.Doe.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Moore, Karen <Karen.Moore@hq.doe.gov>; Reed, Michael <Michael.Reed@hq.doe.gov>; Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Higgins, Mark <Mark.Higgins@hq.doe.gov>; Sneed, John <John.Sneed@hq.doe.gov>
Subject: RE: (b) (5)

+(b) (5)

Herbert A. Glaser
Chief Counsel | Loan Programs Office
DEPARTMENT OF ENERGY
Forrestal 4B-122 | 1000 Independence Avenue, SW
Washington, DC 20585 | T 202.586.4852

From: Meikle, Grace K. (CONTR)
Sent: Wednesday, August 02, 2017 5:44 PM
To: Smith, Melissa <Melissa.Smith@Hq.Doe.Gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Marcum, Robert <Robert.Marcum@Hq.Doe.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Moore, Karen <Karen.Moore@hq.doe.gov>; Reed, Michael <Michael.Reed@hq.doe.gov>; Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Higgins, Mark <Mark.Higgins@hq.doe.gov>; Glaser, Herbert <Herbert.Glaser@hq.doe.gov>
Subject: (b) (5)
Importance: High

Hi all,

(b) (5)

Thank you,
Grace

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Document 7

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Friday, December 15, 2017 1:37 PM
To: Meikle, Grace K. (CONTR);Jaworowski, Suzanne;Williams, Bradley;Scott, Michelle;Richards, Andrew;Lennon, Sarah
Subject: RE: (b) (5)

(b) (5)

From: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Date: Friday, Dec 15, 2017, 1:06 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>, Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Williams, Bradley <Bradley.Williams@Nuclear.Energy.gov>, Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: Fwd: (b) (5)

(b) (5)

From: "Moore, Karen" <Karen.Moore@hq.doe.gov>
Sent: Dec 15, 2017 8:38 AM
To: "Meikle, Grace K. (CONTR)" <Grace.Meikle@Nuclear.Energy.Gov>
Subject: FW: (b) (5)

(b) (5)

From: Moore, Karen
Sent: Thursday, December 14, 2017 10:45 AM
To: Smith, Melissa <Melissa.Smith@Hq.Doe.Gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Kania, Edward <Edward.Kania@hq.doe.gov>; Pickering, Marc (CONTR) <Marc.Pickering@hq.doe.gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov>
Subject: RE: (b) (5)

(b) (5)

From: Smith, Melissa
Sent: Thursday, December 14, 2017 10:36 AM
To: Moore, Karen <Karen.Moore@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Kania, Edward

AMERICAN OVERSIGHT

<Edward.Kania@hq.doe.gov>; Pickering, Marc (CONTR) <Marc.Pickering@hq.doe.gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov>
Subject: RE: (b) (5)

(b) (5)

Melissa M. Smith
Loan Programs Office
U.S. Department of Energy | 1000 Independence Ave., SW | Washington, DC 20585
Office: 202.287.5619 | Mobile: (b) (6) | Fax: 202.287.6967 | Melissa.Smith@hq.doe.gov

---

From: Moore, Karen
Sent: Thursday, December 14, 2017 10:00 AM
To: Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Kania, Edward <Edward.Kania@hq.doe.gov>; Smith, Melissa <Melissa.Smith@Hq.Doe.Gov>; Pickering, Marc (CONTR) <Marc.Pickering@hq.doe.gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov>
Subject: FW: (b) (5)

(b) (5)

From: Rivera, Christy [mailto:christy.rivera@nortonrosefulbright.com]
Sent: Thursday, December 14, 2017 9:47 AM
To: Moore, Karen <Karen.Moore@hq.doe.gov>
Subject: Fwd: (b) (5)

(b) (5)

Christy Rivera | Partner
Norton Rose Fulbright US LLP
1301 Avenue of the Americas
New York, NY 10019-6022
tel: + 1 212 408 5530 Fax: + 1 646 710 5530
christy.rivera@nortonrosefulbright.com

Begin forwarded message:

> **From:** Reorg Research Alert <dockets@reorg-research.com>
> **Date:** December 13, 2017 at 3:59:18 PM EST
> **To:** <crivera@chadbourne.com>
> **Subject:** (b) (5)

Reorg Research
December 13, 2017 15:58

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Westinghouse Electric Company LLC

(b) (4)

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DOE-19-0315, 19-0316, 19-0318-A-000561

(b) (4)

See on Reorg Research

[redacted]

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Document 8

Greenberg, Craig E. (CONTR)

From: Jaworowski, Suzanne
Sent: Wednesday, March 29, 2017 3:13 PM
To: Richards, Andrew
Subject: RE: House Energy and Commerce Committee press release: Walden & Upton Comment on Westinghouse Bankruptcy Announcement

Follow Up Flag: Follow up
Flag Status: Flagged

Thank you Andrew.

Suzanne Jaworowski
Assistant to the Secretary
U.S. Department of Energy | Contract Support
(240) 474-7363 | suzanne.jaworowski@hq.doe.gov

From: Richards, Andrew
Sent: Wednesday, March 29, 2017 2:44 PM
To: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: FW: House Energy and Commerce Committee press release: Walden & Upton Comment on Westinghouse Bankruptcy Announcement

FYI

Walden & Upton Comment on Westinghouse Bankruptcy Announcement
Mar 29, 2017

WASHINGTON, DC – Energy and Commerce Committee Chairman Greg Walden (R-OR) and Subcommittee on Energy Chairman Fred Upton (R-MI), today issued the following statement after Westinghouse announced this morning that they were filing for Chapter 11 bankruptcy protection.

"Nuclear is and must remain a vital component of a reliable, affordable, and diverse electricity portfolio. Despite today's news, we remain confident that progress on the new reactors under construction at the Vogtle site in Georgia and V.C. Summer site in South Carolina will continue," said Walden and Upton. "We believe a robust domestic nuclear industry is critical for the United States to remain a leader in the global market. The committee will continue to monitor the situation as it progresses."

###

https://energycommerce.house.gov/news-center/press-releases/walden-upton-comment-westinghouse-bankruptcy-announcement

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Your Voice Matters:
Take Action For Nuclear Energy

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Sent through www.intermedia.com

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Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Wednesday, March 29, 2017 2:45 PM
To: Richards, Andrew;Jaworowski, Suzanne
Subject: RE: House Energy and Commerce Committee press release: Walden & Upton Comment on Westinghouse Bankruptcy Announcement

Follow Up Flag: Follow up
Flag Status: Flagged

Good words. Thanks for forwarding, Andrew.

From: Richards, Andrew
Sent: Wednesday, March 29, 2017 2:44:13 PM
To: Jaworowski, Suzanne; McGinnis, Edward
Subject: FW: House Energy and Commerce Committee press release: Walden & Upton Comment on Westinghouse Bankruptcy Announcement

FYI

Walden & Upton Comment on Westinghouse Bankruptcy Announcement
Mar 29, 2017

WASHINGTON, DC – Energy and Commerce Committee Chairman Greg Walden (R-OR) and Subcommittee on Energy Chairman Fred Upton (R-MI), today issued the following statement after Westinghouse announced this morning that they were filing for Chapter 11 bankruptcy protection.

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###

https://energycommerce.house.gov/news-center/press-releases/walden-upton-comment-westinghouse-bankruptcy-announcement

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Sent through www.intermedia com

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Richards, Andrew
Sent: Wednesday, March 29, 2017 2:45 PM
To: BERRIGAN, Carol
Subject: RE: House Energy and Commerce Committee press release: Walden & Upton Comment on Westinghouse Bankruptcy Announcement

Follow Up Flag: Follow up
Flag Status: Flagged

As always, very much appreciated.

From: BERRIGAN, Carol [mailto:clb@nei.org]
Sent: Wednesday, March 29, 2017 2:43 PM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: House Energy and Commerce Committee press release: Walden & Upton Comment on Westinghouse Bankruptcy Announcement

As info.

Walden & Upton Comment on Westinghouse Bankruptcy Announcement
Mar 29, 2017

WASHINGTON, DC – Energy and Commerce Committee Chairman Greg Walden (R-OR) and Subcommittee on Energy Chairman Fred Upton (R-MI), today issued the following statement after Westinghouse announced this morning that they were filing for Chapter 11 bankruptcy protection.

"Nuclear is and must remain a vital component of a reliable, affordable, and diverse electricity portfolio. Despite today's news, we remain confident that progress on the new reactors under construction at the Vogtle site in Georgia and V.C. Summer site in South Carolina will continue," said Walden and Upton. "We believe a robust domestic nuclear industry is critical for the United States to remain a leader in the global market. The committee will continue to monitor the situation as it progresses."

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https://energycommerce.house.gov/news-center/press-releases/walden-upton-comment-westinghouse-bankruptcy-announcement

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Sent through www.intermedia com

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From:	Richards, Andrew
Sent:	Tuesday, April 16, 2019 8:45 AM
To:	Scott, Michelle;Valderrama, Billy (CONTR);Crosland, Armando (LAB);Schneir, Sydney;Postman, Max;Strangis, Katie
Cc:	Lennon, Sarah;Kim, Dong;Gross, John;Lefton, Madeline K.;Nicholas, Kyle;Oehlbert, Sean
Subject:	S1 Meeting with CEO of Westinghouse
Attachments:	2018.02.02 - Talking Points - S1 Meeting with WEC.docx; 2018.02.06 - Memo - S1 Meeting with Westinghouse.docx
Follow Up Flag:	Follow up
Flag Status:	Flagged

Good morning,

The Secretary is meeting with the CEO of Westinghouse, Jose Gutierrez, next week. We've been tasked with pulling together a briefing memo. NE has the lead. We've developed the attached list of topics that might be raised during the meeting.

(b) (5)

I've attached the last briefing memo and talking points that we all put together. Can you please work with your team to provide me input on these topics, with talking points, by noon on Friday? I will compile the sections and talking points into one large briefing memo. Additionally, if we missed a topic, please feel free to include it. Thank you!

Andrew

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

S1 BRIEFING

EVENT: (b) (5)

DATE: (b) (5)
TIME:
LOCATION:

PURPOSE: (b) (5)

PRESS: (b) (5)

SCENARIO: (b) (5)

PARTICIPANTS:

(b) (5)

BACKGROUND: (b) (5)

(b) (5)

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

(b) (5)

MEETING/ REQUESTED BY: (b) (5)

BRIEFING PREPARED BY:

ATTACHMENTS:
(b) (5)

AMERICAN OVERSIGHT

José Emeterio Gutiérrez
President and Chief Executive Officer
Westinghouse Electric Company



José Emeterio Gutiérrez was named president and chief executive officer in June 2017.

Prior to being named to the company's highest leadership role, Mr. Gutiérrez led the Westinghouse global Nuclear Fuel and Components Manufacturing (NF&CM) organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and global nuclear supply chain services to a global customer base.

Mr. Gutiérrez, who also had been a member of the Westinghouse Board of Directors, will retain his role on the board as the president and CEO.

Prior to serving as senior vice president of NF&CM, which he assumed in April 2012, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States.

He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st (continuous improvement) Green Belt.

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

NNSA Equity

From: Richards, Andrew
Sent: Tuesday, April 16, 2019 8:45 AM
To: Scott, Michelle <michelle.scott@nuclear.energy.gov>; Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>; Schneir, Sydney <sydney.schneir@hq.doe.gov>; Postman, Max <max.postman@nnsa.doe.gov>; Strangis, Katie <katie.strangis@nnsa.doe.gov>
Cc: Lennon, Sarah <sarah.lennon@nuclear.energy.gov>; Kim, Dong <dong.kim@hq.doe.gov>; Gross, John <john.gross@nuclear.energy.gov>; Lefton, Madeline K. <madeline.lefton@nuclear.energy.gov>; Nicholas, Kyle <kyle.nicholas@hq.doe.gov>; Oehlbert, Sean <sean.oehlbert@nnsa.doe.gov>
Subject: S1 Meeting with CEO of Westinghouse

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AMERICAN OVERSIGHT

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S1 BRIEFING

(b) (5)

AMERICAN OVERSIGHT

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S1 BRIEFING

AMERICAN OVERSIGHT

Document 13

Greenberg, Craig E. (CONTR)

From:	Schneir, Sydney
Sent:	Friday, April 19, 2019 11:02 AM
To:	Richards, Andrew
Cc:	Kim, Dong;Mahar, Brian (CONTR)
Subject:	RE: S1 Meeting with CEO of Westinghouse
Attachments:	2018.02.06 - Memo - S1 Meeting with Westinghouse_LPO clean.docx; 2018.02.06 - Memo - S1 Meeting with Westinghouse_LPO tracked changes.docx

Good morning,
Attached please find the tracked changes and clean versions of the S1 memo for the sections relevant to LPO. (b) (6) , but I've cc'd my colleague Brian Mahar who will be able to answer any questions you may have today.
Thank you,
--Sydney

From: Richards, Andrew
Sent: Tuesday, April 16, 2019 8:45 AM
To: Scott, Michelle <michelle.scott@nuclear.energy.gov>; Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>; Schneir, Sydney <sydney.schneir@hq.doe.gov>; Postman, Max <max.postman@nnsa.doe.gov>; Strangis, Katie <katie.strangis@nnsa.doe.gov>
Cc: Lennon, Sarah <sarah.lennon@nuclear.energy.gov>; Kim, Dong <dong.kim@hq.doe.gov>; Gross, John <john.gross@nuclear.energy.gov>; Lefton, Madeline K. <madeline.lefton@nuclear.energy.gov>; Nicholas, Kyle <kyle.nicholas@hq.doe.gov>; Oehlbert, Sean <sean.oehlbert@nnsa.doe.gov>
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AMERICAN OVERSIGHT

S1 BRIEFING

EVENT: (b) (5)

DATE: (b) (5)
TIME:
LOCATION:

PURPOSE: (b) (5)

PRESS: (b) (5)

SCENARIO: (b) (5)

PARTICIPANTS:

(b) (5)

BACKGROUND: (b) (5)

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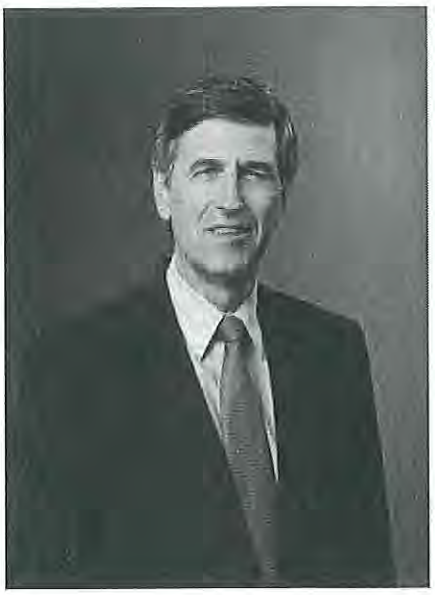
MEETING/ REQUESTED BY: (b) (5)

BRIEFING PREPARED BY:

ATTACHMENTS:
(b) (5)

AMERICAN OVERSIGHT

José Emeterio Gutiérrez
President and Chief Executive Officer
Westinghouse Electric Company



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MEETING/ REQUESTED BY: (b) (5)

BRIEFING PREPARED BY:

ATTACHMENTS:
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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Document 14

Greenberg, Craig E. (CONTR)

From:	Scott, Michelle
Sent:	Monday, February 11, 2019 12:24 PM
To:	Williams, Bradley;Carmack, Jon (CONTR);Lennon, Sarah;Gross, John;Crosland, Armando (LAB);Valderrama, Billy (CONTR);Baham, Michael (CONTR);Brown, Colette;Milton, Ingrid;Nelson, Cynthia;Tyson, Sean;Gillespie, Mary;Duskas, Andrea
Cc:	Nolan, Kelly M. (INTERN);Richards, Andrew
Subject:	OUO: WEC Backgrounder - Update
Attachments:	2019-02-11 Backgrounder - WEC Updatev1.docx

All,

Attached is the latest version of the Westinghouse backgrounder update. Kelly Nolan, one of the FO interns and works directly with me will be the keeper of this backgrounder. She will send out periodic requests for updates by countries to the responsible desk officer(s) and SMEs through May.

From the collected input, the FO will send out a monthly update of this document. The target audience for this document is for both NE and DOE leadership.

Thanks
Michelle

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

AMERICAN OVERSIGHT

OFFICIAL USE ONLY
February 11, 2019

Westinghouse Paper Update

In March 2017, Westinghouse Electric Company (WEC) filed for Chapter 11 Bankruptcy due to cost overruns associated with construction in the United States at the V.C. Summer (South Carolina) and Vogtle (Georgia) nuclear projects. (b) (5)

WEC has exited the construction business and is now refocused on its core traditional business lines of design and engineering. (b) (5)

On January 4, 2018, Canada's Brookfield Business Partners (Brookfield) announced they had reached agreement to purchase 100% of WEC for a sum of $4.6 billion, (b) (5)

WEC emerged from bankruptcy and completed its sale to Brookfield on August 1, 2018.

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Document 15

Greenberg, Craig E. (CONTR)

From: Glaser, Herbert
Sent: Tuesday, January 29, 2019 2:44 PM
To: Garrish, Theodore
Cc: Fygi, Eric;Cestari, Kenneth;Kania, Edward
Subject: (b) (5)
Attachments:

Ted,

(b) (5)

Thanks, Herb

Herbert A. Glaser
Chief Counsel | Loan Programs Office
DEPARTMENT OF ENERGY
Forrestal 4B-122 | 1000 Independence Avenue, SW
Washington, DC 20585 | T 202.586.4852

AMERICAN OVERSIGHT

DOE Draft
01.29.19
Attorney-Client Communication
Attorney Work Product
Deliberative Process Privilege Asserted

Department of Energy
Washington, DC 20585

January •, 2019

MEMORANDUM FOR JOHN SNEED, EXECUTIVE DIRECTOR, LOAN PROGRAMS OFFICE

FROM: Eric J. Fygi
Deputy General Counsel

SUBJECT: (b) (5)

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AMERICAN OVERSIGHT

Document 16

Greenberg, Craig E. (CONTR)

From: Fygi, Eric
Sent: Monday, February 04, 2019 1:10 PM
To: Garrish, Theodore
Cc: Capoferri, Anita
Subject: (b) (5)
Attachments:

Ted,

(b) (5)

Eric

From: Fygi, Eric
Sent: Tuesday, January 29, 2019 3:00 PM
To: Capoferri, Anita <Anita.Capoferri@hq.doe.gov>
Subject: (b) (5)

(b) (5)

From: Glaser, Herbert
Sent: Tuesday, January 29, 2019 2:44 PM
To: Garrish, Theodore <Theodore.Garrish@hq.doe.gov>
Cc: Fygi, Eric <Eric.Fygi@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Kania, Edward <Edward.Kania@hq.doe.gov>
Subject: (b) (5)

Ted,

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AMERICAN OVERSIGHT

(b) (5)

Thanks, Herb

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Document 17

Greenberg, Craig E. (CONTR)

From: Fygi, Eric
Sent: Tuesday, February 05, 2019 4:08 PM
To: Glaser, Herbert
Cc: Garrish, Theodore;Cestari, Kenneth;Kania, Edward;Fygi, Eric
Subject: (b) (5)
Attachments:

Herb,

(b) (5)

Eric

From: Glaser, Herbert
Sent: Tuesday, January 29, 2019 2:44 PM
To: Garrish, Theodore <Theodore.Garrish@hq.doe.gov>
Cc: Fygi, Eric <Eric.Fygi@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Kania, Edward <Edward.Kania@hq.doe.gov>
Subject: (b) (5)

Ted,

(b) (5)

Thanks, Herb

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Exhibit A

TITLE XVII INNOVATIVE TECHNOLOGY LOAN GUARANTEE PROGRAM[19]

(b) (5)

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Document 18

Greenberg, Craig E. (CONTR)

From:	Richards, Andrew
Sent:	Wednesday, October 17, 2018 9:45 AM
To:	Scott, Michelle
Subject:	Update Backgrounders
Attachments:	The Bankruptcy of Westinghouse.docx; Nuclear Power in Saudi Arabia.docx; The Status of Vogtle Electric Generating Plant.docx

Hi Michelle,

I know I said one, but can you look at all three of these?

I very much appreciate it.

AMERICAN OVERSIGHT

The Bankruptcy of Westinghouse

(b) (5)

AMERICAN OVERSIGHT

Nuclear Power in Saudi Arabia

(b) (5)

AMERICAN OVERSIGHT

The Status of Vogtle Electric Generating Plant

(b) (5)

AMERICAN OVERSIGHT

Document 19

Greenberg, Craig E. (CONTR)

From:	Scott, Michelle
Sent:	Friday, October 19, 2018 7:31 AM
To:	Richards, Andrew
Subject:	RE: Update Backgrounders
Attachments:	2018-10-19 The Status of Vogtle Electric Generating Plant.docx; 2018-10-19 Nuclear Power in Saudi Arabia.docx; 2018-10-19 The Bankruptcy of Westinghouse.docx

Pls see my edits

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

-----Original Message-----
From: Richards, Andrew
Sent: Wednesday, October 17, 2018 9:45 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: Update Backgrounders

Hi Michelle,

I know I said one, but can you look at all three of these?

I very much appreciate it.

AMERICAN OVERSIGHT

The Status of Vogtle Electric Generating Plant

(b) (5)

AMERICAN OVERSIGHT

Nuclear Power in Saudi Arabia

(b) (5)

AMERICAN OVERSIGHT

The Bankruptcy of Westinghouse

(b) (5)

(b) (5)

AMERICAN OVERSIGHT

Document 1

Greenberg, Craig E. (CONTR)

From: Williams, Bradley
Sent: Wednesday, October 25, 2017 5:19 PM
To: Jaworowski, Suzanne
Subject: Engagement.pptx
Attachments: Engagement.pptx

Current draft for discussion with Ed. Will call you in a few.

AMERICAN OVERSIGHT

U.S. DEPARTMENT OF ENERGY | Office of Nuclear Energy

Nuclear Energy Engagement: Domestic and International

Ed McGinnis

Acting Assistant Secretary

Office of Nuclear Energy

U.S. Department of Energy

October 26, 2017

AMERICAN OVERSIGHT

U.S. Civil Nuclear Status & Projected Outcomes

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AMERICAN OVERSIGHT

Office of Nuclear Energy Mission Pillars

Existing Fleet



Advanced Reactor Pipeline



Fuel Cycle Infrastructure



AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-000647

Existing Fleet

- Extending the life through LWRS – joint R&D program with EPRI
- Improving Economics of the Current Fleet
  - Accident Tolerant fuel – cost-shared program with Industry
    - Westinghouse/General Atomics
    - General Electric
    - AREVA
  - NEI-led Delivering the Nuclear Promise
  - State and Local Technical Assistance
    - Provide technical assistance via participation in meetings, workshops, webinars, etc. focused on state and local nuclear policy issues
- Nuclear Cyber-security

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Advanced Reactor Pipeline - SMRs

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Advanced Reactor Pipeline – GAIN

GAIN Gateway for Accelerated Innovation in Nuclear

U.S.NRC

Building effective Private-Public Partnerships

Mission:
Provide the nuclear energy industry with access to technical, regulatory and financial support necessary to move innovative nuclear energy technologies toward *commercialization* in an accelerated and cost-effective fashion

GAIN is the organizing principle for relevant, federally-funded nuclear energy RD&D programs.

OKLO

Xe

TerraPower

ARC ADVANCED REACTOR CONCEPTS, LLC

SOUTHERN COMPANY

TRANSATOMIC

US Women in Nuclear



NSUF Nuclear Science User Facilities

arpa·e CHANGING WHAT'S POSSIBLE

AMERICAN NUCLEAR SOCIETY

CSIS CENTER FOR STRATEGIC & INTERNATIONAL STUDIES

TERRESTRIAL ENERGY

third way fresh thinking

NAYGN NORTH AMERICAN YOUNG GENERATION IN NUCLEAR

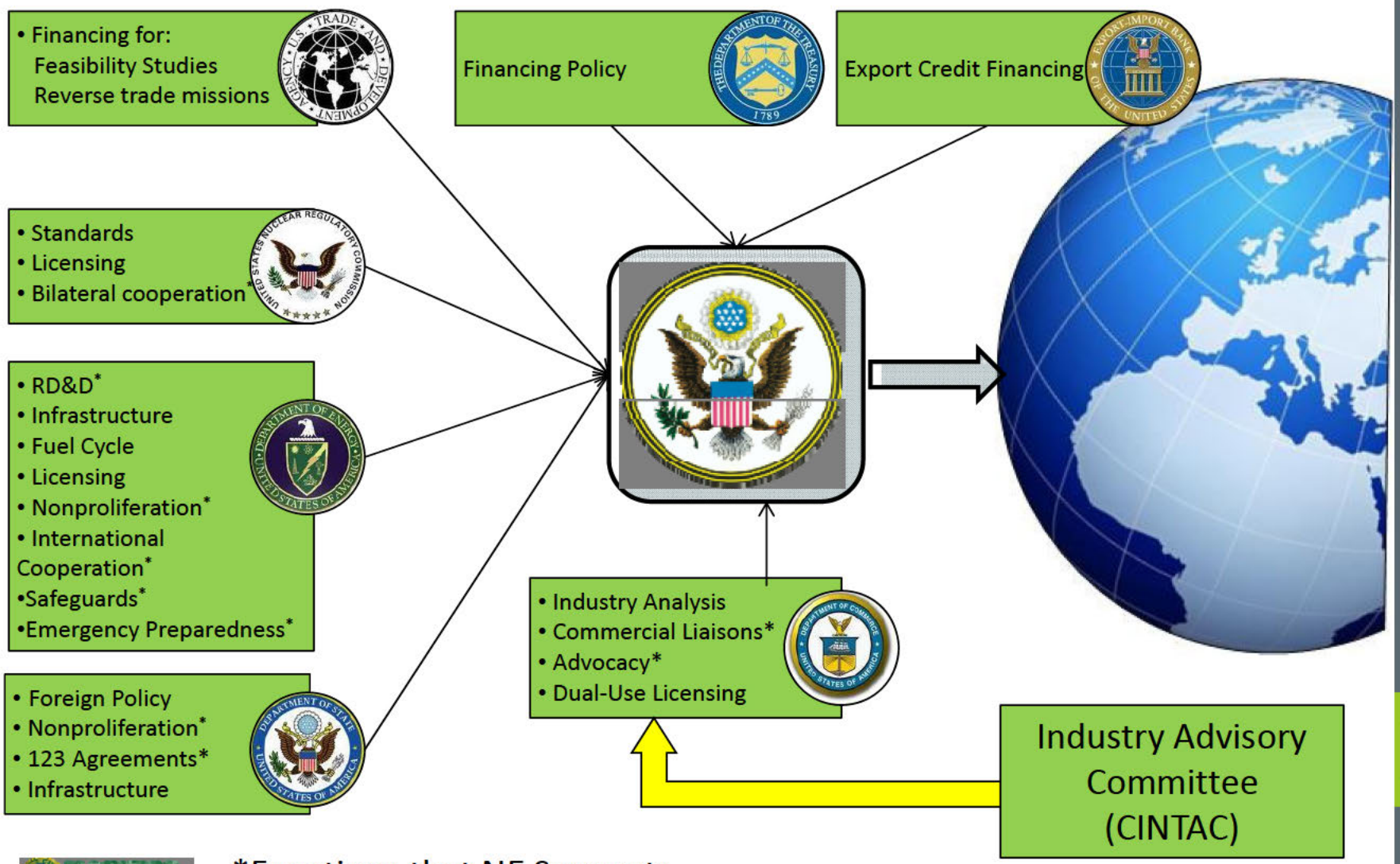
EPRI ELECTRIC POWER RESEARCH INSTITUTE

CLEARPATH

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-000650

Whole-of-Government Strategic Approach for Civil Nuclear Energy



*Functions that NE Supports

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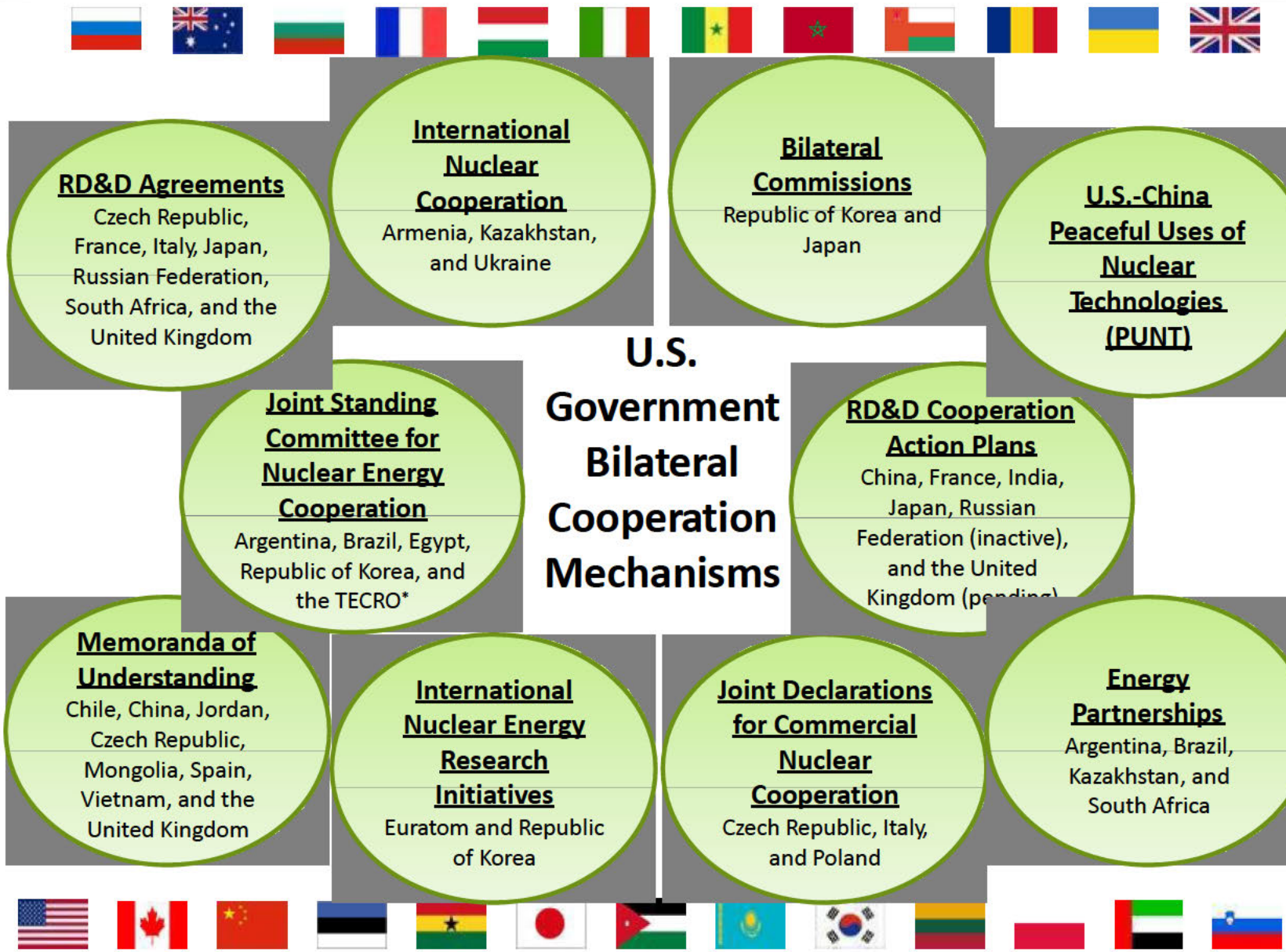
Types of Bilateral Cooperation Mechanisms Supported by INEC



*TECRO = Taipei Economic and Cultural Representative Office in the U.S.

AMERICAN OVERSIGHT

Clean Energy Ministerial (CEM) Nuclear Work Stream

BACKGROUND

- Secretary Perry proposed a CEM nuclear work stream at CEM8 in June 2017 in Beijing.
- Canada and Japan joined the United States to co-lead.
- Canada hosted a September 2017 IAEA General Conference side event on this topic.
- Next steps: build a strong coalition, gather resources, and lay the groundwork for launch at CEM9 in May 2018 .

WHY NUCLEAR IN CEM?

- CEM is the only regular meeting of energy ministers exclusively focused on clean energy, yet it did not include nuclear.
- Nuclear is 24/7, clean air energy, and must be a part of the discussion.
- Nuclear produces nearly 11% of the world's electricity and nearly one-third of the world's non-greenhouse gas emitting electricity.

GOAL: Provide reliable clean energy to the global market by making available multiple nuclear energy options for both electric and non-electric applications including small modular reactors and other advanced reactors.

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Fuel Cycle Infrastructure – Fuel Cycle R&D

- Enrichment
- Recycling

AMERICAN OVERSIGHT

Fuel Cycle Infrastructure - Waste Management

- Cooperative Agreements with Tribes and States
  - Funding to support engagement with DOE in transportation planning efforts
- DOE's National Transportation Stakeholders Forum
  - Informational Webinars
  - Ad Hoc Working Groups
    - Route selection and safety inspections
    - Training program for emergency personnel (Section 180(c))
    - Information and communicatio
- NE's Transportation Core Group
  - State and tribal representatives
  - Meets twice a year
- Federal Agency Coordination
- Industry Coordination

US Department of Energy
National Transportation Stakeholders Forum

ASSOCIATION OF AMERICAN RAILROADS

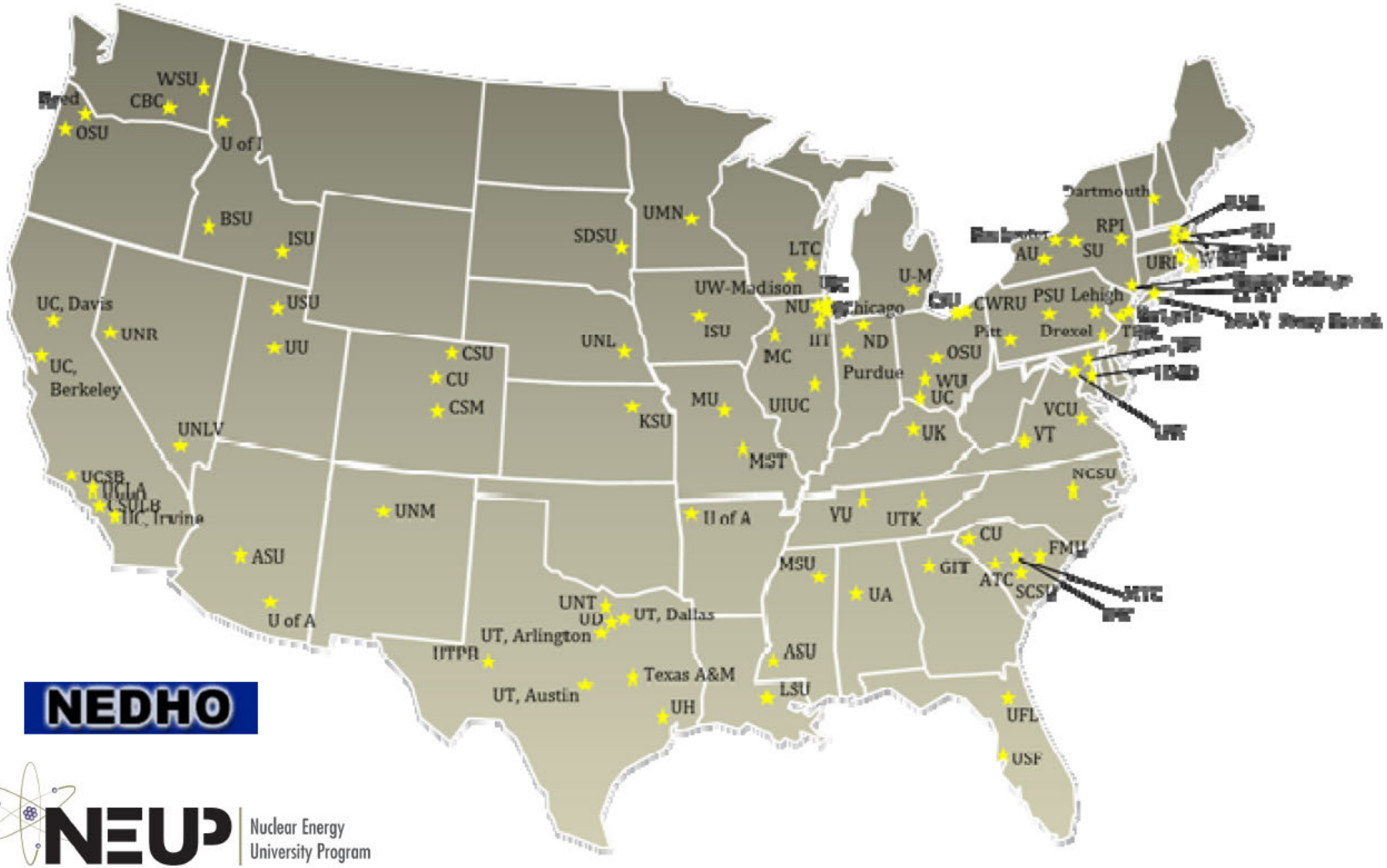
U.S.NRC

U.S. Department of Transportation



AMERICAN OVERSIGHT

University Programs



NEDHO

NEUP Nuclear Energy University Program

U.S. Department of Energy

Since FY09, NEUP and IUP have awarded $401 million to 104 schools in 39 states and the District of Columbia.

AMERICAN OVERSIGHT

Education & Outreach

Goal

Shift perceptions to make nuclear cool again

Strategy

Position NE as the innovative technology for clean, resilient power 24/7

Priority Tactics

-Benchmark attitudes & messaging

-Millennial Nuclear Caucus

-Media Campaign

-Industry Tool Kit

-K-12





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K-12 Nuclear Education

- Goal:
  - To increase knowledge about and appreciation for nuclear energy among elementary and secondary grade students, teachers, and students' parents.

- Objectives:
  - Science educators have accurate nuclear energy materials and training to use them
  - K-12 students learn about nuclear energy in a manner that is accurate, engaging, and has the potential to interest them in nuclear careers
  - Parents have accurate and accessible information tied to what their children are learning
  - General public provided with accurate, easily understood information about nuclear energy

Partnership with the American Nuclear Society's Center for Nuclear Science and Technology Information

Discovery EDUCATION

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Smith, Kyle <kyle.smith@emcbc.doe.gov>
Sent: Friday, May 19, 2017 3:10 PM
To: 'ralph.detwiler@netl.doe.gov';'Lansen.Barrow@spr.doe.gov';'lucy.knowles@srs.gov';Thress, Don Frederick;Trznadel, Reesha;Schroeder, Joseph B;Hinman, Peggy B.;Eva (ID) Auman;'james.durant@science.doe.gov';Roy, Mell;''Katharine.Dickerson@hq.doe.gov';Cox, Kathy L.;Lucas, John T.;Jones, Brady;Jones, Brady L.;Aug, Thomas;Lucarelli, Scott;McFarland, Laurie A
Subject: GC Report Ending May 15, 2017
Attachments: GC Report Ending May 15, 2017.doc

Categories: Green Category

Good Afternoon,

Attached is the GC Report ending on May 15, 2017. Thank you.

Kind regards,

Kyle A. Smith
Paralegal Specialist
U.S. Department of Energy
Office of Chief Counsel
Environmental Management
Consolidated Business Center
250 East Fifth Street, Suite 500
Cincinnati, OH 45202
Telephone: (513) 246-0561
Facsimile: (513) 246-0524
Email: kyle.smith@emcbc.doe.gov

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Environmental Management Consolidated Business Center
Office of Chief Counsel
GC-1 Report for Period Ending May 15, 2017

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(b) (5)

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From:	Scott, Michelle
Sent:	Saturday, October 28, 2017 5:40 PM
To:	McGinnis, Edward
Cc:	Furstenau, Raymond (HQ);Richards, Andrew;Lennon, Sarah;Jaworowski, Suzanne
Subject:	RE: time line for Saudi
Attachments:	2017-10-28 Status of USG Engagement with KSA - Clean.docx; 2017-10-28 Status of USG Engagement with KSA - Tracked.docx

Ed,

Attached is the latest (in track and clean) versions with your add incorporated. I also updated a couples sections to make them clearer.

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: McGinnis, Edward
Sent: Saturday, October 28, 2017 4:34 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: RE: time line for Saudi

Michele, additional input from me to ensure accuracy of what has occurred and led to the opportunity that the US has with the Saudi market due to Secretary Perry's intervention. Please resend as final and I will then distribute further. Thanks again for your quick response! Ed

As of 10/27/2017

Saudi Arabia RFI Procurement Process for the LNPP

Date	**Action**
July 24, 2017	Government of KSA's Cabinet of Ministers announced its intention to launch a dedicated program for the construction of the Large Nuclear Power Plant (LNPP) project.
August-October	Press reporting KSA was expected to send a Request for Information to nuclear suppliers in China, France, Japan, Russia and South Korea, thus initiating the "tender process" for the Large Nuclear Power Plant (LNPP) project.

AMERICAN OVERSIGHT

October – December	As part of the CD process, K.A.CARE intends to conduct a process called FEED (Front End Engineering Design) in cooperation with selected Vendors/Supplier candidates. The FEED designed into two stages. The first phase (FEED A) to be carried out with all interested Supplier candidates and the second phase (Phase B) with selected Supplier candidates based on separate Project Development Agreements (PDAs) to be negotiated on mutually agreeable terms and conditions. FEED A is to receive and answer the Request For Information (RFI) by interested Supplier candidates. Interested Supplier candidates have approximately 2 months to respond to K.A.CARE.

US- KSA Other Nuclear Engagement Activities

Date	**Action**
September 19, 2017	IAEA General Conference, Secretary Perry secured agreement with Saudi's K.A.CARE President Yamani to include the US nuclear energy export sector in the full breadth of Saudi civil nuclear deployment plants, including large and small modular reactors as well as other US nuclear industry products and services. AA/S of Nuclear Energy McGinnis held follow-up meetings subsequently secured agreement with Saudi's Chief Nuclear Energy Officer responsible for Saudi nuclear energy procurement actions, resulting in a formal letters from Saudi Arabia to Secretaries Perry and Ross formally inviting US nuclear industry to participate in the full breath of Saudi's nuclear market tender processes.
October 3, 2017	DOE/NE held an interagency discussion on Saudi Arabia EOI/RFI.(DOE/NE, NNSA, GC, IA, DOC/Adv Ctr, State, NSC, Embassy Riyadh).
October 18, 2017	DOC drafted the response letter back to Dr. Alodan on behave of Secretary Ross and Perry. Secretary signed on October 16, 2017
October 13, 2017	DOE/NNSA drafted a Cable to demarche to KSA on Part 810 Assurances to support U.S. companies' participation in the RFI. State issued the cable on 10/27/2017. NNSA suggested when Ed meets with Dr. Alodanto confirm receipt and encourage response asap and offer to connect them with NNSA staff if they have questions regarding the specifics of an umbrella assurance for the LNPP CD process.
October 6, 2017	DOC reached out to both GE and Westinghouse regarding their interest in participating in the LNPP RFI and provided them NDA.
October 13, 2017	Westinghouse and GE submitted their NDAs to K.A. CARE.
October 18, 2017	(b) (5)
October 20, 2017	Westinghouse received the RFI and estimates that their deadline to submit their information back to K.A.CARE by December 20, 2017.
October 24, 2017	Embassy Riyadh Delivery of the USG Response for the RFI. Post FCS sent response letter via WhatsApp to Dr. Alodan and will send out the response officially via dipnote.
October 24, 2017	DOE/NE led an interagency update regarding the call that Acting A/S McGinnis and KACARE Dr. Alodan. Dr. Alodan confirmed receipt of the response letter and discussed the approach Dr. Alodan planned to respond to the USG proposal to hold an industry focused Roundtable on advanced reactor (SMR, HTGR, SFR) and other nuclear-related products and services.
October 25, 2017	NNSA circulated Westinghouse's 810 application and analysis for internal DOE (NE and GC) clearance. NE cleared the package. NNSA expects when the 810 package is sent out for interagency it will be turned around fairly quickly EXCEPT for State, which will not concur without gov-to-gov assurances. But, the entire package will be ready to go to S-1 as soon as we receive assurances. NNSA is anticipating to receive GE's 810 application early next week.

AMERICAN OVERSIGHT

October 30–31, 2017	Acting A/S McGinnis will lead USG delegation to the IAEA Nuclear Power Ministerial in Abu Dhabi, UAE.
October 31–November 1, 2017	NEI led Industry delegation to participate in the IAEA Nuclear Power Ministerial in Abu Dhabi, UAE. Industry senior executives will promote US nuclear products and services at the ministerial, will meet with 10-12 key country markets, and hold a reception inviting key market officials.
November 2-4, 2017	Dan Lipman, NEI will lead the NEI industry delegation at the IAEA Nuclear Power Ministerial in Abu Dhabi, UAE and go to Riyadh to meet with KSA officials and deliver an industry letter.
November 1 - 2, 2017	Director Sweetnam and staff's trip to Riyadh to advance the upcoming S1 trip to Riyadh in December for the Bilateral Energy Dialogue (BED).
November 14-17, 2017	DAS Lockwood to attend the IEF Executive Board meeting and hold other bilateral meetings.
December 3-4, 2017	Secretary Perry will travel to Riyadh to co-host the annual BED with Saudi Energy Minister Al-Falih.

Saudi Arabia RFI/CD and Advanced Reactors and Other Nuclear Activities Decision Points

Date	Action
On-going	Receive KSA Assurances for the KSA LNPP Commercial Dialogue process. NNSA pushing to messaging to KSA to get them ASAP.
Mid-December 2017 or January 2018 [pending additional guidance]	Roundtable Discussion: Roundtable objective is for USG to organize an US industry contingent to go Riyadh to meet with K.A.CARE and other KSA government officials to discuss US technologies, products and services to develop potential commercial partnerships. • USG proposed holding a jointly organized roundtable discussion in Riyadh within the next two to three months. • Interagency needs to determine the process necessary to invite industry companies to participate.
TBD	Receive KSA Assurances for the Advanced Reactors and other Nuclear Related Products and Services.
1st Quarter of 2018	Industry-led Trade Mission: The Nuclear Energy Institute (NEI), a leading U.S. civil nuclear trade association, is coordinating with ITA to organize a civil nuclear trade mission to the KSA that would include member and non-member companies.

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Saturday, Oct 28, 2017, 11:21 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: RE: time line for Saudi

I meant your emails not comments. Attached is the updated version.

Michelle

Michelle L. Scott

AMERICAN OVERSIGHT

Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: Scott, Michelle
Sent: Saturday, October 28, 2017 3:01 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: time line for Saudi

All of your comments came in at the same time this morning while I was at (b) (6)

I will update and resend now.

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Saturday, Oct 28, 2017, 1:31 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: time line for Saudi

Did you see my input I sent to you? Please include. Thanks

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Saturday, Oct 28, 2017, 3:53 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: time line for Saudi

Ed,

(b) (5)

Let know if you need anything else.

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

-----Original Message-----
From: McGinnis, Edward
Sent: Friday, October 27, 2017 12:32 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>

AMERICAN OVERSIGHT

Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: time line for Saudi

(b) (5)

(b) (5) Please send to me preferably by COB today. If you cannot, I will ask Sarah to do.

Thanks,

Ed

Ed McGinnis
Assistant Secretary (Acting) for Nuclear Energy
U.S. Department of Energy
Washington, D.C. 20585
202 586-2240 (office/main)
(b) (6) (cell)

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

October 20, 2017	Westinghouse received the RFI and estimates that their deadline to submit their information back to K.A.CARE by December 20, 2017. DOC/DOE staff to follow up with GE on their submittal timeline.
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Saudi Arabia RFI/CD and Advanced Reactors and Other Nuclear Activities Decision Points

Date	**Action**
On-going	Receive KSA Assurances soonest for the LNPP Commercial Dialogue process. NNSA/State pushing to message to KSA to send them ASAP.
Mid-December 2017 or January 2018 [pending additional guidance]	<u>Roundtable Discussion:</u> Roundtable objective is for USG to organize an US industry contingent to go to Riyadh to meet with K.A.CARE and other KSA government officials to discuss US technologies, products and services to develop potential commercial partnerships. • USG proposed holding a jointly organized roundtable in Riyadh within the next two to three months. • Interagency needs to determine the process necessary to invite industry companies to participate.

AMERICAN OVERSIGHT

TBD	NNSA and U.S. companies need to determine all the equipment, products and services would need to be covered under assurances for NNSA/State to work toward getting the necessary assurances from KSA for the Advanced Reactors and other Nuclear Related Products and Services.
1st Quarter of 2018	Industry-led Trade Mission: The Nuclear Energy Institute (NEI), a leading U.S. civil nuclear trade association, is coordinating with ITA to organize a civil nuclear trade mission to the KSA that would include member and non-member companies.

AMERICAN OVERSIGHT

As of 10/27/2017

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October 3, 2017	DOE/NE held an interagency discussion on Saudi Arabia EOI/RFI -(DOE/NE, NNSA, GC, IA, DOC/Adv Ctr, State, NSC, Embassy Riyadh).
October 18, 2017	DOC drafted the response letter back to Dr. Alodan on behave of Secretary Ross and Perry. Secretary signed on October 16, 2017
October 13, 2017	DOE/NNSA drafted a Cable to demarche to KSA on Part 810 Assurances to support U.S. companies' participation in the RFI. State issued the cable on 10/27/2017. NNSA suggested when AA/S McGinnis ~~Ed~~ meets with Dr. Alodan to confirm receipt and encourage response asap and offer to connect them with NNSA staff if they have questions regarding the specifics of an umbrella assurance for the LNPP CD process.
October 6, 2017	DOC reached out to both GE and Westinghouse regarding their interest in participating in the LNPP RFI and provided them NDA.
October 13, 2017	Westinghouse and GE submitted their NDAs to K.A.-CARE.

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As of 10/27/2017

(b) (5)

October 18, 2017	
October 20, 2017	Westinghouse received the RFI and estimates that their deadline to submit their information back to K A.CARE by December 20, 2017. DOC/DOE staff to follow up with GE on their submittal timeline.
October 24, 2017	Embassy Riyadh Delivery of the USG Response for the RFI. Post FCS sent response letter via WhatsApp to Dr. Alodan and will send out the response officially via dipnote.
October 24, 2017	DOE/NE led an interagency update regarding the call that Acting AA/S McGinnis and KACARE's Dr. Alodan. Dr. Alodan confirmed receipt of the response letter and discussed the approach Dr. Alodan planned to respond to the USG proposal to hold an industry focused Roundtable on advanced reactor (SMR, HTGR, SFR) and other nuclear-related products and services.
October 25, 2017	NNSA circulated Westinghouse's 810 application and analysis for internal DOE (NE and GC) clearance. NE cleared the package. NNSA expects when the 810 package is sent out for interagency it will be turned around fairly quickly EXCEPT for State, which will not concur without gov-to-gov assurances. But, the entire package will be ready to go to S-1 as soon as the ~~we receive~~ assurances are received. NNSA ~~is~~ anticipates ~~ing to~~ receiving GE's~~e GE~~'s Part 810 application early next week.
October 30–31, 2017	A~~cting~~ A/S McGinnis will lead USG delegation to the IAEA Nuclear Power Ministerial in Abu Dhabi, UAE.
October 31–November 1, 2017	NEI led Industry delegation to participate in the IAEA Nuclear Power Ministerial in Abu Dhabi, UAE. Industry senior executives will promote US nuclear products and services at the ministerial, will meet with 10-12 key country markets, and hold a reception inviting key market officials.
November 2-4, 2017	Dan Lipman, NEI will lead the NEI industry delegation at the IAEA Nuclear Power Ministerial in Abu Dhabi, UAE and go to Riyadh to meet with KSA officials and deliver an industry letter.
November 1 - 2, 2017	Director Sweetnam and staff's trip to Riyadh to advance the upcoming S1 trip to Riyadh in December for the Bilateral Energy Dialogue (BED).
November 14-17, 2017	DAS Lockwood to attend the IEF Executive Board meeting and hold other bilateral meetings.
December 3-4, 2017	Secretary Perry will travel to Riyadh to co-host the annual BED with Saudi Energy Minister Al-Falih.

Saudi Arabia RFI/CD and Advanced Reactors and Other Nuclear Activities Decision Points

Date	Action
On-going	RR~~eceive~~ KSA Assurances soonest for the ~~KSA~~ LNPP Commercial Dialogue process. NNSA/State pushing to message~~cing~~ to KSA to send ~~get~~ them ASAP.
Mid-December 2017 or January 2018 [pending additional guidance]	Roundtable Discussion: Roundtable objective is for USG to organize an US industry contingent to go to Riyadh to meet with K A.CARE and other KSA government officials to discuss US technologies, products and services to develop potential commercial partnerships. • USG proposed holding a jointly organized roundtable ~~discussion~~ in Riyadh within the next two to three months. • Interagency needs to determine the process necessary to invite industry companies to participate.

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As of 10/27/2017

TBD	NNSA and U.S. companies need to determine all the equipment, products and services would need to be covered under assurances for NNSA/State to work toward getting the necessary ~~Receive KSA A~~assurances f~~r~~om KSA for the Advanced Reactors and other Nuclear Related Products and Services.
1st Quarter of 2018	Industry-led Trade Mission: The Nuclear Energy Institute (NEI), a leading U.S. civil nuclear trade association, is coordinating with ITA to organize a civil nuclear trade mission to the KSA that would include member and non-member companies.

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Greenberg, Craig E. (CONTR)

From: Jaworowski, Suzanne
Sent: Saturday, October 28, 2017 1:03 PM
To: McGinnis, Edward;Scott, Michelle
Subject: RE: time line for Saudi

Thanks.

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Saturday, Oct 28, 2017, 12:56 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: FW: time line for Saudi

Thanks very much, Nice work. Michelle. See my UPPER CASE COMMENTS. Please resend when done. Thanks again! Ed

- START TIME-LINE FROM IAEA GC S1 BILATERAL MEETING WITH SAUDI AND MY/NE1 FOLLOW UP MEETING AND DISCUSSIONS WITH KSA AND INTERAGENCY JOINTLY WITH COMMERCE.

As of 10/27/2017

Saudi Arabia RFI Procurement Process for the LNPP

Date	Action
July 24, 2017	Government of KSA's Cabinet of Ministers announced its intention to launch a dedicated program for the construction of the Large Nuclear Power Plant (LNPP) project.
August-October	Press reporting KSA was expected to send a Request for Information to nuclear suppliers in China, France, Japan, Russia and South Korea, thus initiating the "tender process" for the Large Nuclear Power Plant (LNPP) project.
October – December	K.A.CARE's goal is to conduct a process called FEED (Front End Engineering Design) in cooperation with selected Vendors/Supplier candidates for adapting a Standard Plant Design to the KSA conditions and requirements. K.A.CARE aims to achieve readiness to enter into contract negotiations regarding the LNPP implementation and other related items and after that, to continue developing the country and site specific design for licensing and construction in the KSA. Therefore, the FEED process will be divided in two stages. The first phase (FEED A) to be carried out with all interested Supplier candidates and the second phase (Phase B) with selected Supplier candidates based on separate Project Development Agreements (PDAs) to be negotiated on mutually agreeable terms and conditions. The essential contents of FEED A is a Request For Information (RFI) to be submitted by K.A.CARE to the interested Supplier candidates and the answers to RF! by the candidates. The time for answering the RFI is approximately 2 months. Upon receipt of the RFI, Suppliers have 60 days to address requested information in the RFI.

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US- KSA Other Nuclear Engagement Activities

Date	Action
October 3, 2017	DOE/NE HELD an interagency discussion on Saudi Arabia EOI/RFI (DOE/NE, NNSA, GC, IA, DOC/Adv Ctr, State, NSC, Embassy Riyadh).
October 18, 2017	DOC/DOE draft response letter back to Dr. Alodan FROM SECRETARY ROSS AND ON BEHALF OF Perry.
October 27, 2017	Cable PREPARED BY DOE/NNSA SENT TO KSA on Part 810 Assurances and offer to connect them with DOE/NNSA staff if they have questions regarding the specifics of then PROPOSED umbrella assurance for the LNPP RFI process IN ORDER to support A STREAMLINED PART 810 PROCESS FOR U.S. companies PARTICIPATING THIS TIME SENSITIVE BIDDING PROCESS. (AA/S MCGINNIS WILL CONFIRM DURING A BILATERAL MEETING OCTOBER 30 IN ABU DHABI WITH SAUDI KACARE CNEO RECEIPT OF THE PART 810 DEMARCHE AND ENCOURAGE A QUICK SAUDI RESPONSE).
October 13, 2017	Westinghouse and GE submitted their NDAs to K.A. CARE.
October 18, 2017	(b) (5)
October 20, 2017	Westinghouse received the RFI and estimates that their deadline to submit their information by December 20, 2017.
October 23, 2017	COMMERCE U/S Hernandez was scheduled to meet with Dr. Maher Alodan, Chief Atomic Energy Officer at K.A.CARE, to deliver the original response letter and to discuss the upcoming tender and to advocate for U.S. companies. The meeting did not materialize. A-AS MCGINNIS INTERVENED AND FACILITATED DELIVER OF LETTER VIA POST RIYADH TO DR. ALADON.
October 24, 2017	Embassy Riyadh Delivery of the USG Response for the RFI. Post FCS sent response letter via WhatsApp to Dr. Alodan and will send out the response officially via dipnote.
October 24, 2017	DOE/NE HELD an interagency update MEETING regarding a call that Acting AA/S McGinnis and KACARE Dr. Alodan. Dr. Alodan confirmed receipt of the response letter and discussed the approach THAT Dr. Alodan planned to respond to the USG WARMLY ACCEPTING THE US PROPOSAL TO hold an USG/US industry focused PARTNERING Roundtable on advanced reactor (SMR, HTGR, SFR) and other nuclear related products and services.
October 25, 2017	NNSA circulated Westinghouse's 810 application and analysis for internal DOE (NE and GC) clearance. NE cleared the package. NNSA expects when the 810 package is sent out for interagency it will be turned around fairly quickly EXCEPT for State, which will not concur without gov-to-gov assurances. But, the entire package will be ready to go to S-1 as soon as we receive assurances. NNSA is anticipating to receive GE's 810 application early next week.
October 30–31, 2017	AA/S McGinnis will lead USG delegation to the IAEA Nuclear Power Ministerial in Abu Dhabi, UAE, AND USE OPPORTUNITY TO MEET WITH SAUDI TO ADVANCE ACTIONS THAT CAME OUT OF SECRETARY PERRY'S ENGAGEMENT WITH THE SAUDI'S AT THE IAEA GC.
October 31–November 1, 2017	NEI-led Industry delegation to participate in the IAEA Nuclear Power Ministerial in Abu Dhabi, UAE. Industry senior executives will promote US nuclear products and services at the ministerial, will meet with 10-12 key country markets, and hold a reception inviting key market officials.

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November 2-4, 2017	Dan Lipman, NEI will lead the NEI industry delegation at the IAEA Nuclear Power Ministerial in Abu Dhabi, UAE and go to Riyadh to meet with KSA officials and deliver an industry letter.
November 1 - 2, 2017	Director Sweetnam and staff's trip to Riyadh to advance the upcoming S1 trip to Riyadh in December for the Bilateral Energy Dialogue (BED).
November 14-17, 2017	DAS Lockwood to attend the IEF Executive Board meeting and hold other bilateral meetings.
December 3-4, 2017	Secretary Perry will travel to Riyadh to co-host the annual BED with Saudi Energy Minister Al-Falih.
December (2nd or 3rd week)	USG (JOINT COMMERCE/DOE NE PLUS OTHER AGENCY REPS) WITH US INDUSTRY PLAN TO HOLD FIRST UA-KSA NUCLEAR INDUSTRY PARTNERING ROUND TABLE IN RIYADH ON SMRS, OTHER ADVANCED REACTOS, AND US NUCLEAR PRODUCTS AND SERVICES. DATES TBD.

Saudi Arabia RFI/CD and Advanced Reactors and Other Nuclear Activities

Decision Points

Date	**Action**
On-going	Receive KSA Assurances for the KSA LNPP Commercial Dialogue process. NNSA pushing to messaging to KSA to get them ASAP.
Mid-December 2017 or January 2018 [pending additional guidance]	Roundtable Discussion • USG proposed holding a jointly organized roundtable discussion in Riyadh within the next two to three months. KACARE PROPOSED THE THE MONTH OF DECEMBER. FACTOR IN SECRETARY PERRY'S EARLY DECEMBER RIYAD VISIT TO ENSURE DECONSTRUCTION AND SUPPORT FOR VISIT AND OUTCOMES AS APPROPRIATE. The purpose of the roundtable would be for the DOC and DOE to organize a US industry contingent to go Riyadh to meet with K.A.CARE and other KSA government officials to discuss US technologies, products and services to develop potential commercial partnerships in the areas of small and advanced reactor technologies and complementary nuclear infrastructure services. • Interagency needs to determine the process to invite industry companies to participate in the Roundtable event complementary nuclear infrastructure services.
TBD	Receive KSA Assurances for the Advanced Reactors and other Nuclear Related Products and Services.
1st Quarter of 2018	Industry-led Trade Mission The Nuclear Energy Institute (NEI), a leading U.S. civil nuclear trade association, is coordinating with ITA to organize a civil nuclear trade mission to the KSA that would include member and non-member companies.

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Saturday, Oct 28, 2017, 8:08 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: time line for Saudi

Ed,

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Attached is the document you requested for the KSA RFI/CD process as I understand it based on the information I have gleaned. Also, I have listed every USG/US to date that I'm aware of. The document ended up being 3 page as oppose to a one pager.

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: McGinnis, Edward
Sent: Friday, October 27, 2017 1:46 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: RE: time line for Saudi

Thanks!

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Friday, Oct 27, 2017, 1:30 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: RE: time line for Saudi

(b) (5)

I'm still doing some (b) (6) , so I will send something out to you by this evening.

(b) (5)

Michelle

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Friday, Oct 27, 2017, 12:31 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>

AMERICAN OVERSIGHT

Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: time line for Saudi

(b) (5)

(b) (5) Please send to me preferably by COB today. If you cannot, I will ask Sarah to do.

Thanks,

Ed

Ed McGinnis
Assistant Secretary (Acting) for Nuclear Energy
U.S. Department of Energy
Washington, D.C. 20585
202 586-2240 (office/main)
(b) (6) (cell)

AMERICAN OVERSIGHT

Document 5

Greenberg, Craig E. (CONTR)

From: Scott, Michelle
Sent: Thursday, February 22, 2018 6:35 PM
To: Hutchins, Scott
Subject: RE: Tag Up?
Attachments: FW: Roadmap transmittal; RE: Trade Mission from US to KSA; 2018-01 US-KSA Action Plan - Signed by KACARE and DOE.pdf; 2013-05-03 At-A-Glance Schedule - Vietnam and China Itinerary.doc

Scott,

Attached are the docs I promised. Action Plan signed by KACARE and DOE, I still have not receive the final from Commerce yet. The emails and attachments for the Roadmap and the proposed agenda for the trade mission. Also, attached is the agenda for the 2013 trade mission for Vietnam and China.

Have fun packing!!!!

Michelle
Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Hutchins, Scott
Sent: Thursday, February 22, 2018 5:59 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: Tag Up?

No worries. Andrew saw me waiting out front, I will be back in Forrestal Tuesday - Thursday. We'll try again next week.

Scott G. Hutchins
Energy Attache
U.S. DOE - Riyadh

From: "Scott, Michelle" <MICHELLE.SCOTT@nuclear.energy.gov>
Sent: Feb 22, 2018 16:15
To: "Hutchins, Scott" <Scott.Hutchins@NNSA.DOE.Gov>
Subject: RE: Tag Up?

Had to have a discussion in the ground floor secure area. I'm heading over to Josh's office now. We can connect tomorrow if you have time while packing. I'm waiting to get email from NEI before sending you documents.

AMERICAN OVERSIGHT

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Hutchins, Scott
Sent: Thursday, February 22, 2018 3:58 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: Tag Up?

Want me to just stop in to chat with Ed?

Scott G. Hutchins
Energy Attache
U.S. DOE - Riyadh

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Greenberg, Craig E. (CONTR)

From: JONES, Ted <thj@nei.org>
Sent: Thursday, February 22, 2018 3:16 PM
To: Scott, Michelle
Subject: FW: Roadmap transmittal
Attachments: Roadmap0131 US-KSA Commercial Engagement - Implementation 2018-2019 v7.docx

---

From: LIPMAN, Daniel
Sent: Wednesday, January 31, 2018 4:47 PM
To: JONES, Ted
Subject: FW: Roadmap transmittal

From: LIPMAN, Daniel
Sent: Wednesday, January 31, 2018 4:24 PM
To: 'm.dosari@energy.gov.sa'; 'm.odan@energy.gov.sa'; 'm.garwan@energy.gov.sa'
Cc: LIPMAN, Daniel
Subject: Roadmap transmittal

To:
Mr. Mishari Al Dosari
Senior Energy Engineer & Nuclear Technology
Deputy Director of Large Nuclear Power Plants, Atomic Energy Sector, KA-CARE
m.dosari@energy.gov.sa

cc:
Dr. Maher Alodan
Chief Atomic Energy Officer, KA-CARE
m.odan@energy.gov.sa

Dr. Mohammed Garwan
Chief Strategy & Sustainability Officer, KA-CARE
m.garwan@energy.gov.sa

Dear Dr. Alodan,

It was a pleasure to meet with you again at last month's roundtable in Riyadh. At that meeting, I took an action to convene a representative group of U.S. firms to develop a "road map" for broad-based U.S.-Saudi commercial nuclear engagement during 2018-2019. Specifically, we agreed to collaborate on a U.S. nuclear trade mission to Saudi Arabia in the April timeframe. I am writing to follow-up on these two projects.

Road map. In Riyadh, you will recall that we developed a list of areas for U.S.-Saudi commercial nuclear collaboration. During the past month, NEI and a group of companies from across the U.S. nuclear supply chain has expanded that document to offer specific activities in each area for U.S.-Saudi collaboration. Could I propose that you

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review these activities and indicate to us your priorities? We can then begin the tasks of scheduling and planning for those activities.

Trade mission. In Riyadh, we agreed to organize a trade mission to Saudi Arabia of U.S. nuclear energy executives during April 8-10. During the past month, we have met with our U.S. Government partners to sketch a notional agenda and identify the alternative dates of April 23-25. Our notional plan is to begin the mission in Riyadh with meetings with K.A.CARE and other relevant entities, including the Ministry of Energy, Industry, and Natural Resources, the Saudi Basic Industries Corporation, the Saudi Electricity Company, the Saudi Water Conversion Corporation, and the Saudi Water Conversion Corporation. After two days in Riyadh, we would like to travel to Dhahran to meet with local supply chain, discuss potential partnerships and perhaps visit one of the proposed sites. Could I ask that you confirm a date for this mission? We can then make an announcement and begin to recruit the delegation.

As I have been invited by Westinghouse to participate in the meeting at K.A.CARE next month, I will look forward to seeing you soon. In the meantime, please contact me if you have any questions or if there is anything the Nuclear Energy Institute can do to support your efforts to develop a Saudi nuclear energy program.

Best Regards
Dan

DANIEL S. LIPMAN | *Vice President, Suppliers, New Reactors and International Programs*
1201 F Street, NW, Suite 1100 | Washington, DC 20004
P: 202.739.8115 M: (b) (6) E: dsl@nei.org nei.org

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Sent through www.intermedia com

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United States – Kingdom of Saudi Arabia
Commercial Civil Nuclear Engagement Road Map for 2018-2019

Updated: January 31, 2017 (v7)

Large Light Water Nuclear Project		
Area for Cooperation	**Activity**	**Location**
Site Characterization	Meetings with Rizzo, ENERCON to discuss site characterization capabilities. Meeting with NEI to discuss co-location of power plant with load centers.	Washington, DC Washington, DC
Applicable Codes and Standards	Meetings with ASME, IEEE, EPRI and ANS to discuss nuclear codes and standards.	Washington, DC
Local Saudi Business Partnering (i.e. equipment, components) and technology transfer	Forum(s) with U.S. suppliers to discuss potential areas for Saudi localization and U.S. nuclear industry experience with technology transfer and localization in other countries. Commerce Department certified U.S. Nuclear Executive Mission to Saudi Arabia to discuss potential areas of partnership with local businesses.	Washington, DC (or Atlanta, GA alongside NEA in May 2018) Riyadh, Saudi Arabia
Plant Security	Briefing with Nuclear Energy Institute (NEI) experts on physical and plant security. Visit to SAFER Center to discuss emergency preparedness.	Washington, DC (NEI) Phoenix, AZ or Memphis, TN

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DOE-19-0315, 19-0316, 19-0318-A-000685

Grid Code Modification and Integration	Meeting with EPRI to discuss grid integration technologies for large power systems. Visits to Duke Energy and/or Dominion energy to discuss integration of power generation and distribution systems.	Charlotte, NC Charlotte, NC (Duke) Richmond, VA (Dominion)
Construction	Meeting with EPRI to discuss construction methods and lessons learned.	Charlotte, NC
Fuel Fabrication	Visit to WEC to discuss fuel fabrication and tour fuel fabrication facility.	Columbia, SC
Operational Excellence and Training	Visit to Institute of Nuclear Power Operations (INPO) to discuss industry practices to maintain operational readiness and excellence. Meeting with EPRI to discuss training.	Atlanta, GA
Energy Dispatch and Energy Trading	Visits to Duke Energy and Exelon Corporation to discuss energy dispatch and trading and to tour facility.	Charlotte, NC (Duke) Chicago, IL (Exelon)
Plant tours	Visit to Vogtle NPP to tour construction site of units 2 & 3 and operating unit.	Waynesboro, GA
Other facility tours	TBD	TBD

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Small Modular and Advanced Reactors		
Area for Cooperation	**Activity**	**Location**
Co-gen and desalination applications	Visit to NuScale Power to discuss latest applications of nuclear energy technology for co-generation and desalination.	Portland, OR
Co-gen and desalination applications	Visit to Idaho National Laboratory to discuss latest applications of nuclear energy technology for co-generation and desalination.	Idaho Falls, ID
SMR component manufacturing and testing	Visit to company facilities to discuss SMR design and manufacturing: NuScale Power Holtec International	 Corvallis, OR Camden, NJ
Small and advanced reactor technologies	Meetings/visits to discuss advanced reactor technologies: Advanced Reactor Concepts GE Hitachi Nuclear Energy NuScale Power Terrapower Terrestrial X-energy Holtec International	 Chevy Chase, MD Wilmington, NC Portland and Corvallis, OR Bellevue, WA Mississauga, ON or New York, NY Greenbelt, MD Camden, NJ
Fuel fabrication	Visit to Oak Ridge National Laboratory to discuss fuel fabrication for small and advanced reactor technologies.	Oak Ridge, TN

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Test facilities	TBD	TBD
Advanced manufacturing methods	Meet with EPRI to discuss advanced manufacturing methods for small and advanced reactor technologies.	Charlotte, NC

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Uranium mining/processing to yellowcake form		
Area for Cooperation	**Activity**	**Location**
Visit by uranium mining and conversion companies	Mining: visit to Cameco mine to discuss uranium production and tour facility. Meetings with Uranium Producers of America (UPA), Uranium Energy Corporation (UEC) to discuss uranium exploration and production. Processing: possible meetings with Centrus, Cameco Port Hope to discuss uranium conversion and enrichment.	Locations TBD

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Human capital development to support a successful, sustainable nuclear industry		
Area for Cooperation	**Activity**	**Location**
Education and R&D Infrastructure	Promote university collaboration and cooperation through ▪ U.S. faculty visit to KSA universities ▪ KSA faculty visit to U.S. universities ▪ Partner university program (e.g. joint teams for senior design projects) ▪ Distance learning ▪ Industry collaborative programs with universities (e.g. NuScale and OSU) Student engagement through student exchanges and ANS student conference Promote community college programs through Nuclear Uniform Curriculum Program (NUCP) visit to KSA (TVTC), program development workshops, internship development workshops Promote high school collaboration through teacher workshops, teacher exchanges, and E-learning opportunities Promote educational outreach through benchmarking best practices and K-12 program sharing.	Locations TBD
National Laboratory Cooperation	Promote world-class facility access through ▪ Facility tour of ORNL to view high flux isotope reactor	Locations TBD

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	and hot cells; high-performance computing and CASL; advanced/additive manufacturing R&D; spallation neutron source and historical graphite reactor; and molten salt reactor test loops. ▪ Facility tour of Idaho National Laboratory (INL) to view fast reactors; high temperature gas reactors; advanced test reactor; transient reactor test facility and hot cells; versatile neutron test reactor; high performance computing and Nuclear Energy Advanced Modeling and Simulation (NEAMS); and hybrid energy systems. ▪ Visit to Argonne National Laboratory (ANL) to discuss high-performance computing facilities and NEAMS, sodium coolant test loop and sodium-cooled fast reactor. ▪ Meeting at Pacific Northwest National Laboratory (PNNL) to discuss non-proliferation and safeguards development. Student internships, co-ops, practicums, fellowships International researchers: Post-doctoral research, joint appointments, academic visitors, faculty exchanges Workforce development and training K-12 programs and tools	
Incumbent Employee Training & Qualification	Engagement with nuclear suppliers, nuclear constructors and nuclear operators to discuss development of training and qualification programs.	Locations TBD

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	Meetings to discuss accreditation of programs, oversight and assessment models Meeting with EPRI to discuss job-specific technical training Meetings with NuScale, Westinghouse and other technology-specific training providers to discuss technology-specific training Engagement with U.S. utility, e.g., Exelon, to discuss mid-career job shadowing.	
Advanced Talent Development	Meetings with INPO to discuss leadership development and organizational development. Exchanges to promote executive development with MIT, Texas A&M, and NEI/INPO. Participation in NPI Emergency Preparedness and Response Course to promote policymaker and stakeholder development Meetings to discuss operational readiness, nuclear culture.	Locations TBD

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Creation of an appropriate regulatory environment and agency		
Area for Cooperation	**Activity**	**Location**
Creation of appropriate regulatory agency	Meetings with former NRC chairmen, e.g. Richard Meserve and Dale Klein, to gather additional perspectives on appropriate regulatory development. Meeting with NEI to gather additional perspective on appropriate regulatory development.	Washington, DC Washington, DC
Creation of appropriate regulatory environment	Visit to Institute of Nuclear Power Operations (INPO) to discuss industry practices to maintain operational readiness and excellence (see "Operational Excellence," above).	Atlanta, GA

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Greenberg, Craig E. (CONTR)

From: Jaworowski, Suzanne
Sent: Friday, April 21, 2017 8:16 AM
To: McCormack, Brian;McGinnis, Edward
Subject: RE: Memo on security/Westhinghouse
Attachments: 2017.04.21 - 01 - Attachment - Talking Points - S1 WEC Bankruptcy PC Call.docx; 2017.04.21 - Memo - S1 WEC Bankruptcy PC Call.docx

Categories: Yellow Category

Hi Brian,

(b) (5)

Enclosed is our most recent update sent Wednesday to S1 for today's PC.
(b) (5)

Suzie
Suzanne Jaworowski
Chief of Staff & Senior Advisor, Office of Nuclear Energy
U.S. Department of Energy
(240) 474-7363 | suzanne.jaworowski@hq.doe.gov

-----Original Message-----
From: McCormack, Brian
Sent: Friday, April 21, 2017 8:00 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: Memo on security/Westhinghouse

Ed, Suzie,

(b) (5)

(b) (5)

Thanks.

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ATTACHMENT 1: TALKING POINTS

Westinghouse Summer (South Carolina) & Vogtle (Georgia) Nuclear Power Plants

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Westinghouse Bankruptcy

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Westinghouse Sale

(b) (5)

Toshiba

(b) (5)

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(b) (5)

Westinghouse Project in India

(b) (5)

AMERICAN OVERSIGHT

S1 BRIEFING

EVENT: **Principals Committee Call to Discuss Westinghouse Bankruptcy**
DATE: April 21, 2017
TIME: 1:30 PM
LOCATION: Call-in

PURPOSE: (b) (5)

PRESS: **NO**

LOGISTICS: 1:30 PM phone call; other logistics TBD

ATTENDEES: SRP

BACKGROUND:

WEC Summer (South Carolina) & Vogtle (Georgia) Nuclear Power Plants: (b) (5)
(b) (5)

WEC Bankruptcy: (b) (5)

AMERICAN OVERSIGHT

(b) (5)

WEC Sale: (b) (5)
(b) (5)

Toshiba: (b) (5)
(b) (5)

AMERICAN OVERSIGHT

(b) (5)

WEC Project in India: (b) (5)
(b) (5)

(b) (5)

MEETING/ REQUESTED BY:

BRIEFING PREPARED BY: Grace Meikle (DOE/NE-61)

BRIEFING REVIEWED BY: Ray Furstenau (DOE/NE-1), Suzanne Jaworowski (DOE/NE-1), Ed McGinnis (DOE/NE-6), Michelle Scott (DOE/NE-6), Karen Moore (LPO), Herb Glaser (LPO)

ATTACHMENTS:

1. Talking Points

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Jaworowski, Suzanne
Sent: Friday, April 21, 2017 10:31 AM
To: Goorevich, Richard
Subject: RE: Memo on security/Westhinghouse

Categories: Yellow Category

Perfect! Thank you.

From: Goorevich, Richard
Sent: Friday, April 21, 2017 10:30:08 AM
To: Jaworowski, Suzanne
Subject: RE: Memo on security/Westhinghouse

Hi. Give me a few to take a look and get back to you.

From: Jaworowski, Suzanne
Sent: Friday, April 21, 2017 10:28:45 AM
To: Goorevich, Richard
Subject: FW: Memo on security/Westhinghouse

Hi Rich,

Please see Brian McCormick's email below. (b) (5)

(b) (5)

Please get back to me ASAP. Thank you

Suzie

From: McCormack, Brian
Sent: Friday, April 21, 2017 8:58:03 AM
To: Jaworowski, Suzanne; McGinnis, Edward
Subject: RE: Memo on security/Westhinghouse

Ok. Please check with them. Need anything you/they got by 11 am

-----Original Message-----
From: Jaworowski, Suzanne
Sent: Friday, April 21, 2017 8:16 AM
To: McCormack, Brian <Brian.Mccormack@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE: Memo on security/Westhinghouse

Hi Brian,

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

Suzie
Suzanne Jaworowski
Chief of Staff & Senior Advisor, Office of Nuclear Energy
U.S. Department of Energy
(240) 474-7363 | suzanne.jaworowski@hq.doe.gov

-----Original Message-----
From: McCormack, Brian
Sent: Friday, April 21, 2017 8:00 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: Memo on security/Westhinghouse

Ed, Suzie,

(b) (5)

Thanks.

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

NNSA Equity

From: Jaworowski, Suzanne
Sent: Friday, April 21, 2017 10:29 AM
To: Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>
Subject: FW: Memo on security/Westhinghouse

Hi Rich,

Please see Brian McCormick's email below. (b) (5)
(b) (5) Thank you

Suzie

From: McCormack, Brian
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Hi Brian,

AMERICAN OVERSIGHT

(b) (5)

Suzie
Suzanne Jaworowski
Chief of Staff & Senior Advisor, Office of Nuclear Energy
U.S. Department of Energy
(240) 474-7363 | suzanne.jaworowski@hq.doe.gov

-----Original Message-----
From: McCormack, Brian
Sent: Friday, April 21, 2017 8:00 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: Memo on security/Westhinghouse

Ed, Suzie,

(b) (5)

(b) (5) Thanks.

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Abbey, Tristan
Sent: Friday, April 14, 2017 1:11 PM
To: McCormack, Brian
Subject: Memo on Mideast nuclear proposals
Attachments: 2017.04.17 Memo - Chief of State Middle Eastern Nuclear Fantasia.docx

Categories: Yellow Category

Brian,

(b) (5)

Tristan

AMERICAN OVERSIGHT

Department of Energy
Washington, DC 20585

March 3, 2020

MEMORANDUM FOR THE CHIEF OF STAFF

FROM: Tristan Abbey
Assistant to the Secretary

SUBJECT: Middle Eastern Nuclear Fantasia

MEMO TYPE: Informational

SUMMARY:

(b) (5)

ANALYSIS:

(b) (5)

(b) (5)

AMERICAN OVERSIGHT

Printed with soy ink on recycled paper

Greenberg, Craig E. (CONTR)

From: Abbey, Tristan
Sent: Friday, April 14, 2017 1:30 PM
To: Jaworowski, Suzanne;Greene, William;Wilmot, Dan
Subject: FW: Memo on Mideast nuclear proposals
Attachments: 2017.04.17 Memo - Chief of State Middle Eastern Nuclear Fantasia.docx

Categories: Yellow Category

(b) (5)

Tristan

AMERICAN OVERSIGHT

Department of Energy
Washington, DC 20585

March 3, 2020

MEMORANDUM FOR THE CHIEF OF STAFF

FROM: Tristan Abbey
Assistant to the Secretary

SUBJECT: Middle Eastern Nuclear Fantasia

MEMO TYPE: Informational

SUMMARY:

(b) (5)

ANALYSIS:

(b) (5)

(b) (5)

AMERICAN OVERSIGHT

Printed with soy ink on recycled paper

Greenberg, Craig E. (CONTR)

From: Abbey, Tristan
Sent: Monday, April 17, 2017 10:51 AM
To: McCormack, Brian
Subject: RE: Memo on Mideast nuclear proposals

Categories: Yellow Category

Roger that, will get you a page today

From: McCormack, Brian
Sent: Saturday, April 15, 2017 3:07 PM
To: Abbey, Tristan <Tristan.Abbey@hq.doe.gov>
Subject: RE: Memo on Mideast nuclear proposals

Thanks.

(b) (5)

From: Abbey, Tristan
Sent: Friday, April 14, 2017 1:10:45 PM
To: McCormack, Brian
Subject: Memo on Mideast nuclear proposals

Brian,

(b) (5)

Tristan

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Abbey, Tristan
Sent: Monday, April 17, 2017 4:41 PM
To: McCormack, Brian
Subject: RE: Memo on Mideast nuclear proposals
Attachments: draft MENA nuclear questions.pdf

Categories: Yellow Category

attached

From: McCormack, Brian
Sent: Saturday, April 15, 2017 3:07 PM
To: Abbey, Tristan <Tristan.Abbey@hq.doe.gov>
Subject: RE: Memo on Mideast nuclear proposals

Thanks.

(b) (5)

From: Abbey, Tristan
Sent: Friday, April 14, 2017 1:10:45 PM
To: McCormack, Brian
Subject: Memo on Mideast nuclear proposals

Brian,

(b) (5)

Tristan

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DELIBERATIVE PRE-DECISIONAL

PROGRAM TO ENHANCE US-MENA NUCLEAR ENERGY COOPERATION

Available Tools	Legal Requirements	Operational Questions

(b) (5)

DOE-19-0315, 19-0316, 19-0318-A-000711

Greenberg, Craig E. (CONTR)

From: Jaworowski, Suzanne
Sent: Tuesday, April 18, 2017 9:54 AM
To: Abbey, Tristan
Subject: RE: Memo on Mideast nuclear proposals

Categories: Yellow Category

Lol – I understand. Have had my name misspelled a few times.

Duly noted.

Suzie

Suzanne Jaworowski
Chief of Staff & Senior Advisor, Office of Nucler Energy
U.S. Department of Energy
(240) 474-7363 | suzanne.jaworowski@hq.doe.gov

From: Abbey, Tristan
Sent: Friday, April 14, 2017 5:32 PM
To: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: RE: Memo on Mideast nuclear proposals

Who is his Tristin you speak of?! Happy Easter! ;-)

From: Jaworowski, Suzanne
Sent: Friday, April 14, 2017 3:32:35 PM
To: Abbey, Tristan
Subject: RE: Memo on Mideast nuclear proposals

Thank you Tristin.
(b) (5)

We can talk more next week. I had an email from Tom today suggesting a meeting next week but I won't be able to do it till the week after. It would be great if you could attend that meeting.

Thanks. Have a nice weekend!
Suzie

From: Abbey, Tristan
Sent: Friday, April 14, 2017 1:29:37 PM
To: Jaworowski, Suzanne; Greene, William; Wilmot, Dan
Subject: FW: Memo on Mideast nuclear proposals

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

Tristan

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Wednesday, January 10, 2018 7:11 AM
To: Durham, David C
Subject: RE: Team USA Feb 11 Riyadh Presentation for LNPP Opportunity

Categories: Yellow Category

US

From: Durham, David C <durhamdc@westinghouse.com>
Date: Wednesday, Jan 10, 2018, 6:59 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: Re: Team USA Feb 11 Riyadh Presentation for LNPP Opportunity

Thanks for everything you all do to support the industry, Ed.

D.

Sent from my iPhone

On Jan 10, 2018, at 6:50 AM, McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov> wrote:

> Thank you very much, David. It's great to see things are progressing with the Saudi RFI. And we are very glad to see that our advocacy and engagement more broadly has been beneficial. We certainly appreciate just how challenging it is to compete with large, determined state owned enterprises. We also appreciate the kind invitation to join your RFI presentation. I am also copying Post Riyadh for their awareness. I and/or my colleagues will get back with you as soon as possible, once we've had a chance to discuss further.
>
> Again, congratulations on the progress you have already made. We wish you all the very best with your RFI presentation and broader compete.
>
> Very best regards,
>
> Ed

From: Durham, David C <durhamdc@westinghouse.com>
Date: Monday, Jan 08, 2018, 2:21 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>, Ian Steff <Ian.Steff@trade.gov>, Aaron Thomas-DuRussel Weston <aaron.weston@inl.gov>

AMERICAN OVERSIGHT

Cc: Jonathan Chesebro <Jonathan.Chesebro@trade.gov>, Devin Horne <Devin.Horne@trade.gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lopatto, Jeanne T. <lopattjt@westinghouse.com>, Weir, Thomas J. <weirtj@westinghouse.com>, Ralph Hunter <Ralph.Hunter@exeloncorp.com>, Brad Porlier <Brad.Porlier@fluor.com>
Subject: Team USA Feb 11 Riyadh Presentation for LNPP Opportunity

Dear Ed, Ian and Aaron,

First, let me thank you on behalf of Westinghouse Electric Company and all of our "Team USA" team members for your and your staff's outstanding support to our team's efforts pursuing the Saudi large nuclear power plant (LNPP) opportunity to-date (as well as for the SMR-specific opportunity, the subject of our recent mutual efforts in Riyadh).

As you may be aware, our team submitted our LNPP RFI response to KA-CARE on December 30, 2017. Our team, led by Westinghouse, Exelon and Fluor, includes approximately 80 U.S. companies, across the full fuel cycle to meet KA-cARE program and project development needs. We are targeting a very aggressive total U.S. content of 50% in our offering. This project will support many thousands of American jobs.

There are two near-term steps in the KA-CARE LNPP selection process:

1) A KA-CARE delegation tour of our two AP1000 units at the Haiyang site on January 26, 2018, and
2) Our team's RFI response presentation in Riyadh on Sunday, February 11, 2018.

This latter meeting is a critically important event; this will be our final substantive opportunity to communicate with KA-CARE in advance of its planned down selection at the end of February to two LNPP teams. KA-CARE intends to then award project development agreements with the two selected offerors and then undertake an approximate year-long competitive dialogue process with these two teams. We must therefore pull out all the stops to assure we are down selected over the next six weeks or so.

This email is to request your participation in our the Team USA presentation in Riyadh on February 11. As you are aware, we are competing in this opportunity against nation-state competitors, fully supported, if not directed, by their national governments. The U.S. Government's support and involvement in the development of the KA-CARE nuclear development program will be critically important if Team USA is to succeed.

Our objective is to demonstrate in this all day meeting the breadth of the Team USA approach, including various primary and supporting private and public sector team members (including key U.S. Government entities).

U.S. EX-IM have already reached out to us with an offer to support this meeting. Ideally, we would like NRC and State to also participate in this presentation, along with Energy, Commerce, the WH and our Riyadh embassy. Could you please assist us to coordinate with the appropriate folks at NRC and State?

Thank you very much for considering this requested participation in the Team USA Riyadh presentation.

If you are able to support this presentation, I suggest we plan to hold a coordination / preparation meeting next week in D.C.

Please do not hesitate to contact me should you have any questions.

With best regards,

David Durham

AMERICAN OVERSIGHT

Senior Vice President
New Projects Business
(Mobile) (b) (6)
Sent from my iPad

This e-mail may contain proprietary information of the sending organization. Any unauthorized or improper disclosure, copying, distribution, or use of the contents of this e-mail and attached document(s) is prohibited. The information contained in this e-mail and attached document(s) is intended only for the personal and private use of the recipient(s) named above. If you have received this communication in error, please notify the sender immediately by email and delete the original e-mail and attached document(s).

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Monday, September 11, 2017 1:19 PM
To: Tuck, John
Subject: RE: The worm keeps turning

Categories: Yellow Category

Wow. Indeed, it is still turning! Hope we see a conclusion to this soon!

From: Tuck, John [mailto:jtuck@bakerdonelson.com]
Sent: Monday, September 11, 2017 11:31 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: The worm keeps turning



Just over a week ago, Western Digital looked like they had sown up an unlikely deal for Toshiba's chip unit. However, a week is a long time in business, especially where Toshiba is concerned. Failing to come to an agreement before the end of August, Western Digital regrouped to come back with a new proposal. However, in that time, a consortium lead by Bain and SK Hynix convinced Apple to get on board and have now reportedly tabled an improved $22 billion for Toshiba's valuable NAND arm.

The offer by the consortium, which is led by the U.S. private equity group and the South Korean chipmaker as well as Japanese state-backed investors, was higher than an initial offer of around $18 billion, according to Reuters.

The move comes after a bid from Western Digital stalled in the final stages of talks. Some sources claim that Western Digital were unhappy with the terms of the agreement, while others suggest Toshiba were reluctant to put the deal through as it could lead to prolonged antitrust reviews due to their existing partnership with Western Digital.

Either way, the deal fell at the final hurdle and now Bain are back in the hunt and are again favourites to tie up the deal. Under their latest offer, Bain and SK Hynix offered to provide a combined total of around 567.5 billion yen, while Apple Inc would provide 335 billion yen, according to sources. Toshiba would keep 250 billion yen in the business, they said. Toshiba's board is expected to make a decision on the bid on Wednesday.

Advertisement

Failure to clinch a deal soon, could result in Toshiba being delisted in March, with a six month window needed to get its finances in order. All of this comes in an effort to make up the $18 billion it needs pay off huge loans it

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has accrued. The nature of the sale has seen the Japanese government heavily involved, with emphasis being placed on keeping the firm within the country.

Toshiba's financial woes are largely connected to its failed nuclear unit Westinghouse. Acquired in 2006, an ill-advised purchase in 2015 has led to massive scandal and loses for its parent company. Last month Westinghouse filed for a Chapter 11 bankruptcy and Toshiba is attempting to split from the company. Since revealing its financial turmoil a number of investors have shown an interest in Toshiba's technology businesses.

Toshiba/WEC Talking Points – September 2017

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Ed…Please see the latest on the Toshiba sale of its memory chip business in the article above. Also, Please see our official talking points as well. We have a conference call on Thursday to update the gang and learn how the Toshiba board decides on the latest offer from Bain et al. I will try to reach you during the week to ascertain if there is any news on
the additional loan guarantee front. All the best. Tuck

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Under requirements imposed by the IRS, we inform you that, if any advice concerning one or more U.S. federal tax issues is contained in this communication (including in any attachments and, if this communication is by email, then in any part of the same series of emails), such advice was not intended or written by the sender or by Baker, Donelson, Bearman, Caldwell & Berkowitz, PC to be used, and cannot be used, for the purpose of (1) avoiding penalties under the Internal Revenue Code or (2) promoting, marketing or recommending to another party any transaction or tax-related matter addressed herein.

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Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Monday, September 11, 2017 1:24 PM
To: Meikle, Grace K. (CONTR)
Subject: RE: The worm keeps turning

Categories: Yellow Category

yes

From: Meikle, Grace K. (CONTR)
Sent: Monday, September 11, 2017 1:23 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE: The worm keeps turning

Thanks Ed! Will do. Are the talking points from Toshiba?

From: McGinnis, Edward
Sent: Monday, September 11, 2017 1:20 PM
To: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Sneed, John <John.Sneed@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>
Subject: FW: The worm keeps turning

FYI! Can you reflect in our summary and include in my IAEA GC trip book?

Thanks!



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Toshiba/WEC Talking Points – September 2017

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Tuesday, September 12, 2017 2:00 PM
To: Meikle, Grace K. (CONTR)
Cc: Jaworowski, Suzanne;Lennon, Sarah;Richards, Andrew;Benahmed, Farah (CONTR)
Subject: RE: The worm keeps turning

Categories: Yellow Category

Great. Thanks, Grace!

From: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Date: Tuesday, Sep 12, 2017, 1:56 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Benahmed, Farah (CONTR) <Farah.Benahmed@nuclear.energy.gov>
Subject: RE: The worm keeps turning

Ed, here's an updated version of the paper. It's also in your GC briefing materials.

Thanks,
Grace

From: McGinnis, Edward
Sent: Monday, September 11, 2017 1:20 PM
To: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Sneed, John <John.Sneed@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>
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Toshiba/WEC Talking Points – September 2017

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Tuesday, September 12, 2017 2:00 PM
To: Benahmed, Farah (CONTR);Hill, Janette
Cc: Richards, Andrew
Subject: FW: The worm keeps turning
Attachments: Toshiba-WEC Update Paper_9-11_GM.docx

Categories: Yellow Category

Please include in my trip book

From: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Date: Tuesday, Sep 12, 2017, 1:56 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Benahmed, Farah (CONTR) <Farah.Benahmed@nuclear.energy.gov>
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To: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Sneed, John <John.Sneed@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>
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Just over a week ago, Western Digital looked like they had sown up an unlikely deal for Toshiba's chip unit. However, a week is a long time in business, especially where Toshiba is concerned. Failing to come to an agreement before the end of August, Western Digital regrouped to come back with a new proposal. However, in that time, a consortium lead by Bain and SK Hynix convinced Apple to get on board and have now reportedly tabled an improved $22 billion for Toshiba's valuable NAND arm.

The offer by the consortium, which is led by the U.S. private equity group and the South Korean chipmaker as well as Japanese state-backed investors, was higher than an initial offer of around $18 billion, according to Reuters.

The move comes after a bid from Western Digital stalled in the final stages of talks. Some sources claim that Western Digital were unhappy with the terms of the agreement, while others suggest Toshiba were reluctant to put the deal through as it could lead to prolonged antitrust reviews due to their existing partnership with Western Digital.

Either way, the deal fell at the final hurdle and now Bain are back in the hunt and are again favourites to tie up the deal. Under their latest offer, Bain and SK Hynix offered to provide a combined total of around 567.5 billion yen, while Apple Inc would provide 335 billion yen, according to sources. Toshiba would keep 250 billion yen in the business, they said. Toshiba's board is expected to make a decision on the bid on Wednesday.

Advertisement

Failure to clinch a deal soon, could result in Toshiba being delisted in March, with a six month window needed to get its finances in order. All of this comes in an effort to make up the $18 billion it needs pay off huge loans it has accrued. The nature of the sale has seen the Japanese government heavily involved, with emphasis being placed on keeping the firm within the country.

Toshiba's financial woes are largely connected to its failed nuclear unit Westinghouse. Acquired in 2006, an ill-advised purchase in 2015 has led to massive scandal and loses for its parent company. Last month Westinghouse filed for a Chapter 11 bankruptcy and Toshiba is attempting to split from the company. Since revealing its financial turmoil a number of investors have shown an interest in Toshiba's technology businesses.

Toshiba/WEC Talking Points – September 2017

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WESTINGHOUSE/TOSHIBA/SUMMER/VOGTLE UPDATE

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Wednesday, August 01, 2018 5:21 PM
To: David Blee
Subject: RE: NIC Update — Westinghouse Brookfield Sale

From: David Blee <david.blee@usnic.org>
Date: Wednesday, Aug 01, 2018, 5:20 PM
Subject: NIC Update — Westinghouse Brookfield Sale

PRESS RELEASE

Westinghouse Sale to Brookfield Complete

By
Published: Aug 1, 2018

Company emerges from Chapter 11 restructuring

Westinghouse Electric Company, the global leader in nuclear technology, fuels and services, today announced the completion of its previously announced sale to Brookfield Business Partners L.P. **BBU, +1.05%** (BBU.UN) together with institutional partners (collectively, "Brookfield") and emergence from Chapter 11 as a reorganized company. Announced on Jan. 4, 2018, the transaction was closed and became effective today.

"The close of this transaction marks an exciting milestone for Westinghouse as we have successfully emerged from Chapter 11, and continue to navigate a significant transformation that positions us for long-term sustainable success. With the support of Brookfield, Westinghouse will continue to build on its legacy of leading the nuclear industry. Our focus is on strengthening the business, capitalizing on our global footprint and excelling in client service and innovation," said Westinghouse President & CEO José Emeterio Gutiérrez.

https://www.marketwatch.com/press-release/westinghouse-sale-to-brookfield-complete-2018-08-01

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Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Monday, January 15, 2018 4:31 PM
To: Benahmed, Farah (CONTR)
Cc: McGinnis, Edward
Subject: Please print Westinghouse
Attachments: Motion for Investor Protections.pdf

Categories: Yellow Category

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Proposed Hearing Date and Time: January 18, 2018 at 11:00 a.m. (Prevailing Eastern Time)
Proposed Objection Deadline: January 16, 2018 at 4:00 p.m. (Prevailing Eastern Time)

WEIL, GOTSHAL & MANGES LLP
767 Fifth Avenue
New York, New York 10153
Telephone: (212) 310-8000
Facsimile: (212) 310-8007
Gary T. Holtzer
Robert J. Lemons
Garrett A. Fail
David N. Griffiths

Attorneys for Debtors
and Debtors in Possession

TOGUT, SEGAL & SEGAL LLP
One Penn Plaza, Suite 3335
New York, New York 10119
Telephone: (212) 594-5000
Facsimile: (212) 967-4258
Albert Togut
Kyle J. Ortiz
Brian F. Moore

Attorneys for Debtor Toshiba
Nuclear Energy Holdings (UK) Limited

UNITED STATES BANKRUPTCY COURT
SOUTHERN DISTRICT OF NEW YORK

In re	:	**Chapter 11**
WESTINGHOUSE ELECTRIC COMPANY LLC, *et al.*,	:	**Case No. 17-10751 (MEW)**
Debtors.[1]	:	**(Jointly Administered)**

[1] The Debtors in these chapter 11 cases, along with the last four digits of each Debtor's federal tax identification number, if any, are: Westinghouse Electric Company LLC (0933), CE Nuclear Power International, Inc. (8833), Fauske and Associates LLC (8538), Field Services, LLC (2550), Nuclear Technology Solutions LLC (1921), PaR Nuclear Holding Co., Inc. (7944), PaR Nuclear, Inc. (6586), PCI Energy Services LLC (9100), Shaw Global Services, LLC (0436), Shaw Nuclear Services, Inc. (6250), Stone & Webster Asia Inc. (1348), Stone & Webster Construction Inc. (1673), Stone & Webster International Inc. (1586), Stone & Webster Services LLC (5448), Toshiba Nuclear Energy Holdings (UK) Limited (N/A), TSB Nuclear Energy Services Inc. (2348), WEC Carolina Energy Solutions, Inc. (8735), WEC Carolina Energy Solutions, LLC (2002), WEC Engineering Services Inc. (6759), WEC Equipment & Machining Solutions, LLC (3135), WEC Specialty LLC (N/A), WEC Welding and Machining, LLC (8771), WECTEC Contractors Inc. (4168), WECTEC Global Project Services Inc. (8572), WECTEC LLC (6222), WECTEC Staffing Services LLC (4135), Westinghouse Energy Systems LLC (0328), Westinghouse Industry Products International Company LLC (3909), Westinghouse International Technology LLC (N/A), and Westinghouse Technology Licensing Company LLC (5961). The Debtors' principal offices are located at 1000 Westinghouse Drive, Cranberry Township, Pennsylvania 16066.

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MOTION OF DEBTORS PURSUANT TO 11 U.S.C. §§ 105(a), 363(b), 503(b), AND 507(a)(2) AND FED. R. BANKR. P. 6004 AUTHORIZING AND APPROVING CERTAIN PLAN INVESTOR PROTECTIONS

TO THE HONORABLE MICHAEL E. WILES,
UNITED STATES BANKRUPTCY JUDGE:

Westinghouse Electric Company LLC ("**WEC**"), Toshiba Nuclear Energy Holdings (UK) Limited ("**TNEH UK**"), and their debtor affiliates, as debtors and debtors in possession in the above-captioned chapter 11 cases (collectively, the "**Debtors**"), respectfully represent as follows in support of this motion:

Preliminary Statement[2]

1. The Debtors are pleased to announce that they have reached an agreement with Brookfield Capital Partners LLC ("**Brookfield**" or the "**Plan Investor**") for the acquisition of the Debtors' and certain of their foreign non-Debtor affiliates' (together, "**Westinghouse**") businesses. Less than one year after commencing these chapter 11 cases, Westinghouse has found a partner, in Brookfield, with the financial wherewithal and experience to invest in the success of Westinghouse's core, iconic, and historic businesses and continue the transformation that has begun in these cases. After successfully using chapter 11 to stabilize operations and liquidity, reduce go-forward liabilities, and implement a new business plan, and after exploring a number of potential restructuring options, the Debtors are prepared to move forward with a sale of their businesses to Brookfield to provide Westinghouse's customers, regulators, and other key stakeholders greater certainty regarding the timing of the Debtors' emergence from chapter 11 and the future stability of Westinghouse's businesses.

[2] Capitalized terms used but not defined in the Preliminary Statement shall have the meanings ascribed to them later in the Motion.

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2. In a deal valued at approximately $4.6 billion, Brookfield has demonstrated its commitment to Westinghouse's future, its employees, and its safety culture, and the future of the U.S. nuclear industry by agreeing to purchase the businesses intact. Notably, the sale of Westinghouse as a single, integrated enterprise will maximize the total value of the Debtors' estates and will alleviate potential pressure from regulators on Westinghouse's non-Debtor affiliates relating to balance sheet solvency issues. Through its purchase, Brookfield will facilitate a comprehensive and efficient resolution to these chapter 11 cases, whereby all creditors – including general unsecured creditors – will benefit from the creation of a wind-down entity funded with sufficient cash and assets to receive a potentially robust recovery.

3. The agreement was memorialized in a binding letter of intent (the "**LOI**") executed on January 4, 2018, which sets forth the key terms of a plan funding agreement (as amended, restated, modified, superseded or supplemented from time to time, the "**Plan Funding Agreement**")[3] pursuant to which Brookfield will provide $3.802 billion in cash and cash consideration to Westinghouse to fund a chapter 11 plan process in exchange for the acquisition of (i) 100% of TNEH UK's equity interests in Westinghouse Electric Holdings UK Limited and (ii) the equity in reorganized TSB Nuclear Energy Services Inc., in the latter case subject to certain excluded assets and liabilities (collectively, the "**Transaction**").[4] The

[3] The LOI requires that the Debtors and the Plan Investor execute a final version of the Plan Funding Agreement by January 12, 2018. The Debtors intend to file the executed version of the Plan Funding Agreement with the Court shortly after execution. The parties intend the Plan Funding Agreement to provide that the acquisition will be structured as a plan of reorganization, but the transaction may be converted to a sale pursuant to section 363 of the Bankruptcy Code under certain circumstances. In that event, the court will be presented with a stock and purchase agreement (as amended, the "**Definitive SAPA**") with respect to the 363 sale on terms materially similar to the Plan Funding Agreement. For the avoidance of doubt, for the purposes hereof, the "Plan Funding Agreement" includes the Definitive SAPA.

[4] The purchase price was adjusted from $3.79 billion to $3.802 billion to account for certain changes between the signing of the LOI and the negotiation of the Plan Funding Agreement.

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Transaction further contemplates the assumption of approximately $770 million of liabilities, subject to certain adjustments.

4. In support of its commitment to consummate the Transaction, Brookfield has deposited $200 million in an escrow account, which amount will be forfeited to the Debtors if the Plan Funding Agreement is terminated as a result of the Plan Investor's uncured breach or if the Plan Investor fails to consummate the Transaction after all closing conditions have been satisfied.

5. The Transaction permits the Debtors to achieve their key objectives, including (i) maximizing the value of their estates for the benefit of their creditors, (ii) reducing potential claims against the estates, (iii) preserving their profitable core businesses, which allows them to continue to operate and preserve the jobs of thousands of employees, and (iv) restructuring their businesses and reducing their go-forward liabilities. Importantly, the agreement with Brookfield, which has a long history and extensive experience as a long-term owner and operator of critical infrastructure and facilities management, will provide stability and certainty to Westinghouse and its future stakeholders as it emerges from chapter 11.

6. Westinghouse's efforts were overseen by the Special Committee of the Board of Directors of WEC (the "**Special Committee**")[5] comprised of its three independent directors. The Special Committee, which was previously delegated decision-making authority over the Marketing and Sale Process by the Board of Directors of WEC, selected Brookfield after completing a robust and extensive process with the assistance of Westinghouse's senior management, the Debtors' advisors and the Special Committee's dedicated counsel. The tremendous amount of resources and time expended by the entire Westinghouse team in

[5] Any references hereinafter to the "Debtors" or "Westinghouse" in connection with the Marketing and Sale Process shall include reference to the Special Committee.

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conducting this multi-stage Marketing and Sale Process and negotiating with multiple bidders that submitted binding offers, coupled with the independence of the Special Committee and a corresponding independent committee of the Board of TNEH UK, gives the Debtors confidence that the terms of the LOI represent the highest and best offer for Westinghouse's businesses.

7. The Transaction is expected to be consummated pursuant to a chapter 11 plan of reorganization, which maximizes the value of the Debtors' estates and brings a holistic resolution to these chapter 11 cases as quickly and efficiently as possible. In the event that timely plan confirmation cannot be achieved, however, the LOI provides a mechanism by which the Plan Investor nonetheless is bound to acquire the Westinghouse businesses under a standalone section 363 sale for a reduced price. To effectuate the Transaction, in the coming weeks, the Debtors will file a chapter 11 plan of reorganization (the "**Plan**"), a disclosure statement (the "**Disclosure Statement**"), and a motion to approve the Disclosure Statement and related procedures (the "**Solicitation Motion**").

8. The LOI requires certain Plan Investor Protections be provided to the Plan Investor in consideration of the Plan Investor's substantial financial commitment contained in the LOI. As an inducement for the Plan Investor to enter into its binding commitments, the Debtors have agreed to seek court approval as quickly as possible of the Plan Investor Protections, including a reasonable Break-Up Fee and Expense Reimbursement, and a No-Shop Provision, as the Debtors move toward consummation of the Transaction. The Plan Investor Protections are a critical element of the overall agreement with the Plan Investor and were necessary to induce the Plan Investor to agree to and continue to pursue the Transaction, which

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represents the best available option for the Debtors to maximize value for the benefit of all stakeholders.

9. By this Motion, Westinghouse seeks an order approving and authorizing the Plan Investor Protections.

Background

10. On March 29, 2017 (the "**Petition Date**"), each Debtor commenced with this Court a voluntary case under chapter 11 of title 11 of the United States Code (the "**Bankruptcy Code**"). The Debtors are authorized to continue to operate their businesses and manage their properties as debtors in possession pursuant to sections 1107(a) and 1108 of the Bankruptcy Code. No trustee or examiner has been appointed in these chapter 11 cases.

11. The Debtors' chapter 11 cases are being jointly administered for procedural purposes only pursuant to Rule 1015(b) of the Federal Rules of Bankruptcy Procedure (the "**Bankruptcy Rules**").

12. On April 7, 2017, the United States Trustee for Region 2 (the "**U.S. Trustee**") appointed the Official Committee of Unsecured Creditors (the "**Creditors' Committee**") pursuant to section 1102 of the Bankruptcy Code. On October 2, 2017, the U.S. Trustee filed an amended notice of appointment [Docket No. 1431] removing South Carolina Electric & Gas Company from the Creditors' Committee. On December 19, 2017, the U.S. Trustee filed a second amended notice of appointment [Docket No. 1954] removing Georgia Power Company from the Creditors' Committee.

13. On June 28, 2017, the Court entered an order (the "**Bar Date Order**") establishing September 1, 2017 at 5:00 p.m. (prevailing Eastern Time) as the deadline by which proofs of claim, other than those filed by a governmental unit, were required to be filed to assert

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claims in these chapter 11 cases [Docket No. 788]. Pursuant to the Bar Date Order, governmental units were required to assert their claims so that they were actually received on or before September 25, 2017 at 5:00 p.m. (prevailing Eastern Time).

14. Additional information regarding the Debtors' business, capital structure, and the circumstances leading to the commencement of these chapter 11 cases is set forth in the *Declaration of Lisa J. Donahue Pursuant to Rule 1007-2 of the Local Bankruptcy Rules for the Southern District of New York* [Docket No. 4], sworn to and filed on the Petition Date.

Jurisdiction

15. The Court has jurisdiction to consider this matter pursuant to 28 U.S.C. §§ 157 and 1334. This is a core proceeding pursuant to 28 U.S.C. § 157(b). Venue is proper before the Court pursuant to 28 U.S.C. §§ 1408 and 1409.

Relief Requested

16. By this Motion, pursuant to sections 105(a), 363(b), 503(b), and 507(a)(2) of the Bankruptcy Code and Bankruptcy Rule 6004, the Debtors seek entry of the "**Plan Investor Protections Order**," substantially in the form attached hereto as **Exhibit A**, authorizing and approving the Plan Investor Protections, including (i) the Break-Up Fee and Expense Reimbursement, subject to the occurrence of certain conditions described more fully below and (ii) the No-Shop Provision.

17. In support of the relief requested herein, the Debtors submit the Declaration of Mark Buschmann (the **"Buschmann Declaration**"), filed contemporaneously herewith.

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I. Marketing and Sale Process

18. As set forth in the Buschmann Declaration, to further the goal of maximizing the value of their estates, the Debtors decided to explore a broad array of strategic alternatives and options, including a possible sale, recapitalization, reorganization or other monetization transaction for substantially all or a portion of the Debtors' businesses (the "**Marketing and Sale Process**"). In support of the Marketing and Sale Process, the Board of Directors of WEC created a Special Committee comprised of three independent directors who were then delegated authority to, among other things, supervise, monitor, and oversee the process, and, to preemptively avoid any potential conflicts that may arise. Subsequently, the Special Committee was empowered by the Board of Directors of WEC to approve or reject any proposal received and negotiate terms on behalf of the company. The Board of TNEH UK also formed a similar independent committee to evaluate the sale process.

19. Under the supervision and direction of the Special Committee, PJT Partners LP ("**PJT**"), the Debtors' investment banker, Weil, Gotshal & Manges LLP ("**Weil**"), Togut, Segal & Segal LLP, dedicated counsel to TNEH UK, AlixPartners, LLP ("**Alix**"), and Milbank, Tweed, Hadley & McCloy LLP, dedicated counsel to the Special Committee, assessed and discussed potential transactions, including sale transactions whereby all or substantially all of Westinghouse's assets would be sold to an investor or buyer who would continue to operate Westinghouse's businesses, as well as an alternative whereby multiple transactions could be pursued to try to sell individual business lines to multiple purchasers in piecemeal fashion. At the outset of the marketing process, PJT advised that a single sale transaction for all or substantially all of the business was more likely to be value-maximizing for the Debtors, but the Special Committee decided all alternatives would be considered throughout the Marketing and Sale Process.

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A. Commencement and Round One of the Marketing and Sale Process

20. By August 2017, the Debtors had made substantial progress towards stabilizing their businesses through obtaining court approval of an $800 million post-petition financing facility, creating a business plan and presenting it to their post-petition lenders, stemming the losses associated with the construction of nuclear reactors at the Alvin W. Vogtle Electric Generating Plant near Augusta, Georgia by rejecting the Vogtle EPC Contract[6] and entering into a new services arrangement with the owners of the project, and beginning the wind-down of their involvement in the construction of nuclear reactors at the Virgil C. Summer Station near Columbia, South Carolina, among other things. Following this initial phase of these chapter 11 cases, the Debtors and their advisors shifted their focus from business stabilization towards exploring potential exit strategies from chapter 11.

21. After obtaining approval from Westinghouse and under the supervision of the Special Committee, PJT commenced an expansive two-stage Marketing and Sale Process for Westinghouse to identify a third-party investor or purchaser. The first round of the process was designed to reach as large a number of qualified potential investors and purchasers as possible and provide them with sufficient information regarding Westinghouse's businesses to allow such parties to submit non-binding indications of interest ("**Indications of Interest**") and request further diligence. Round two of the process was aimed at providing investors and purchasers that had submitted Indications of Interest with a more thorough understanding of Westinghouse's businesses and an adequate period of time to conduct in-depth diligence so that they could formulate binding offers.

[6] The term "Vogtle EPC Contract" refers to that certain *Engineering, Procurement and Construction Agreement* dated as of April 8, 2008 (as amended from time to time) among WEC, WECTEC LLC and Georgia Power Company for itself and as agent for the other joint owners.

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22. In preparation for round one of the Marketing and Sale Process, PJT, after soliciting input from the Creditors' Committee and Toshiba, contacted 118 potential investors and purchasers, 54 of which executed non-disclosure agreements allowing them to participate in round one.[7] PJT launched round one on September 11, 2017, and bidders were provided with access to a virtual data room and confidential information memorandum containing certain non-public information regarding Westinghouse's businesses. PJT instructed bidders to submit preliminary Indications of Interest by October 9, 2017, which were to include: (i) the identity and corporate structure of the bidder, (ii) purchase price and forms of consideration, (iii) descriptions of the material assumptions informing the proposed purchase price, (iv) transaction structure, (v) proposed source of funds, (vi) a description of due diligence information required to make a definitive proposal, and (vii) a description of the proposed treatment of Westinghouse's pension and other liabilities, among other things.

23. Of the 51 round one participants, 14 bidders submitted Indications of Interest and one candidate submitted a "letter of indication" stating that it was interested in partnering with another bidder. Several bids proposed to purchase only a portion of Westinghouse's assets and were not for the entire Westinghouse business. After careful evaluation, Westinghouse and its advisors determined that such proposals could not be combined with other bids to sell Westinghouse as an entire enterprise, and, therefore, would not provide as much value as offers that proposed to purchase the Westinghouse business as a whole. Based on the overall quality of the bid, value, financing sources, and certainty of execution, the Special Committee ultimately selected five bidders that submitted Indications of Interest for the entire

[7] Three of the 54 potential investors and purchasers that entered into non-disclosure agreements with Westinghouse agreed to participate as a consortium with other bidders, effectively resulting in 51 round one participants.

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Westinghouse business to advance to the second round of the Marketing and Sale process. During round two, one of such bidders withdrew from the process.

B. Round Two of Marketing and Sale Process

24. Round two of the Marketing and Sale Process commenced on October 24, 2017 and lasted approximately eight weeks. Between October 31, 2017 and December 17, 2017, Westinghouse and its advisors coordinated diligence requests and in-person management presentations led by senior representatives of Westinghouse and arranged site visits to certain major facilities. Candidates received access to a round two virtual data room containing additional information about Westinghouse's business allowing them to conduct more in-depth diligence. During round two, Westinghouse and its advisors held approximately 133 diligence calls with bidders and their advisors, responded to over 2,143 diligence inquiries, facilitated approximately 13 in-person meetings with Westinghouse's senior management, and provided access to over 10 facilities globally.

25. Throughout this process, the Debtors kept key constituencies, such as the Creditors' Committee and Toshiba, apprised of the Debtors' efforts. During multiple formal meetings and numerous other informal discussions with Creditors' Committee and Toshiba professionals, the Debtors outlined their marketing strategy, and shared the identity of potential bidders. Professionals for the Creditors' Committee and for Toshiba were provided access to the data room, and reviewed and provided comments on sale documents that were discussed with such professionals and generally incorporated before the sale documents were shared by the Debtors with potential bidders.

26. On November 20, 2017, Westinghouse uploaded a form of purchase agreement to the virtual data room (the "**Form Purchase Agreement**"). Westinghouse

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subsequently uploaded draft schedules and exhibits to the Form Purchase Agreement. Throughout the process, bidders worked closely with PJT, Weil, Alix, and Westinghouse management to coordinate diligence and to ensure they received adequate information to formulate their bids. All in all, potential bidders received access to over 9,000 diligence documents that were uploaded to the data room.

27. Westinghouse requested binding proposals from round two bidders to be submitted by December 18, 2017 (such proposals, "**Definitive Proposals**"). Round two bidders were required to complete due diligence in advance of submitting Definitive Proposals and provided guidance to not include any due diligence, financing, or other type of contingency. Definitive Proposals were required to provide the following information: (i) purchase price and form of consideration, (ii) key financing terms, (iii) a sources and uses table, (iv) a description of key assumptions relied on to determine purchase price, (v) a copy of the Form Purchase Agreement marked to reflect any proposed modifications, (vi) proposed transaction structure, including whether the proposed transaction was to be consummated through a chapter 11 plan or as a stand-alone sale pursuant to section 363 of the Bankruptcy Code, and (vii) confirmation that diligence had been completed and that all internal requisite approvals to consummate the proposed sale transaction had been obtained, among other things.

28. Bidders were informed that key factors considered in the evaluation of their Definitive Proposals included, among other considerations, the cash purchase price and cash proceeds to Westinghouse, the extent and nature of the changes proposed to the Form Purchase Agreement, the demonstration of firm financial capability to consummate a transaction, certainty of closing (including demonstrated likelihood of obtaining the requisite regulatory

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approvals in a timely fashion), amount and quality of diligence conducted, and other transaction terms and conditions.

29. At the end of round two, three bidders submitted Definitive Proposals to purchase substantially all of Westinghouse's U.S. and overseas businesses for consideration by Westinghouse. Additionally, one bidder submitted a non-binding letter of intent that did not substantially comply with the requirements to be considered a Definitive Proposal and was subsequently rejected after careful evaluation by Westinghouse and its advisors.

II. Selection of Plan Investor and the Binding Letter of Intent

A. Selection of Plan Investor

30. Over the course of two and a half weeks, Westinghouse and its advisors engaged in extensive discussions with the bidders that provided Definitive Proposals. These discussions culminated in an additional round of bidding to determine the best and highest offer, conducted through a series of meetings at Weil's offices on January 3, 2018 between the three remaining bidders and Westinghouse and its advisors, the Special Committee and its counsel, and the independent members of the Board of Directors of TNEH UK. Advisors to the Creditors' Committee and to Toshiba were also invited to Weil's offices and regularly kept apprised of the negotiations and key developments. After a full day of negotiations, the Special Committee, after consulting with its counsel, the independent directors of TNEH UK, Westinghouse, and their respective advisors, selected Brookfield's bid as the best and highest offer after consulting with the Creditors' Committee and Toshiba.

B. Plan and Sale Approval Process

31. Westinghouse entered into the LOI on January 4, 2018, a copy of which is attached hereto at **Exhibit B**. The LOI sets forth the key terms of the Transaction and

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obligates the parties to negotiate in good faith, the reasonable terms of, and execute definitive documents, including, without limitation, the Plan Funding Agreement, by January 12, 2018.[8]

32. Consummation of the Transaction pursuant to a chapter 11 plan of reorganization would result in a full and complete resolution of many issues that could otherwise be disputed in and prolong these chapter 11 cases. Nevertheless, the Debtors and the Plan Investor recognize that confirmation of a plan of reorganization is not a certain outcome and, therefore, have agreed upon a path forward that will provide Westinghouse the ability to sell its assets pursuant to a standalone section 363 sale on the same timeline if confirmation of a plan is not achievable. As indicated in the LOI, the overall consideration provided by the Plan Investor in a standalone section 363 sale scenario would be reduced by $150 million as a result of the loss of certain economic benefits to the Plan Investor only available in the context of a plan of reorganization.

33. Although the preferred – and most value-maximizing – approach is the consummation of the Transaction pursuant to a consensual chapter 11 plan of reorganization, the Debtors believe the standalone section 363 sale to the Plan Investor would still represent the best and highest offer available and would provide significant benefits to the estates. Among other benefits, the standalone section 363 sale would guarantee that cash will be available for distribution to creditors once a liquidating plan can be confirmed and would significantly reduce the claims pool, as the Plan Investor would assume a substantial amount of liabilities and contracts pursuant to the terms of the Definitive SAPA.

[8] The general description of certain terms of the LOI in this Motion, including the conditions and timing for payment of the Break-Up Fee, reflect subsequent developments based on discussions relating to the actual terms that the parties expect will be included in the executed version of the Plan Funding Agreement. Capitalized terms used herein but not defined shall have the meanings ascribed to them in the LOI.

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34. In furtherance of the process outlined above and the consummation of the Transaction, consistent with the Bankruptcy Milestones set forth below, the Debtors will file the Plan, Disclosure Statement, and Solicitation Motion. In light of the extensive Marketing and Sale Process already conducted by Westinghouse, Westinghouse believes that no further bidding process or auction will be necessary or fruitful – after approximately six months of canvassing the universe of potential buyers both in the U.S. and globally, Westinghouse believes it has obtained the best and highest offer available.

C. Transaction Milestones

35. The Plan Investor negotiated for certain termination rights, based upon, among other things, the failure to satisfy certain milestones (the "**Bankruptcy Milestones**"). Specifically, the following Bankruptcy Milestones (subject to waiver by the parties) apply:

a. entry of the Plan Investor Protections Order by January 31, 2018, provided, that the Debtors have agreed to use reasonable best efforts to obtain entry of the Plan Investor Protections Order by January 18, 2018[9];

b. the Debtors' filing of the Plan, Disclosure Statement, and the Solicitation Motion by no later than January 29, 2018;

c. entry of an order approving the Disclosure Statement and related solicitation procedures (the "**Disclosure Statement Order**") by no later than February 27, 2018;[10] and

d. entry of an order confirming the Plan or approving the standalone section 363 sale (the "**Transaction Approval Order**") by no later than April 16, 2018.[11]

[9] Subsequent to execution of the LOI, the parties agreed to extend this date from January 16, 2018 to January 18, 2018.

[10] Subsequent to execution of the LOI, the parties agreed to extend this date from February 23, 2018 to February 27, 2018.

[11] Subsequent to execution of the LOI, the parties agreed to modify the Transaction Approval Order milestone.

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D. Plan Investor Protections

a. Break-Up Fee and Expense Reimbursement

36. Over the past several months, the Plan Investor has spent substantial time and expense to conduct diligence, research, and submit a bid for Westinghouse's businesses. The Plan Investor has also incurred significant expense negotiating and drafting a form of the Plan Funding Agreement and other documentation related to the Transaction and contemplated chapter 11 plan. Prior to the approval of the Plan Funding Agreement (in connection with the Plan confirmation) and the closing of the Transaction, the Plan Investor is exposed to the risk that its efforts could benefit a competing investor or purchaser if the Debtors chose to close on an alternative transaction, resulting in a tremendous opportunity cost to the Plan Investor.

37. To protect the Plan Investor from such a result, it has conditioned its binding commitment on the approval of (i) a break-up fee of $75 million (the "**Break-Up Fee**"), which is less than 2% of the $3.802 billion base purchase price of the Plan Investor's bid, (ii) an expense reimbursement for reasonable documented fees and expenses (including professional fees) incurred by the Plan Investor of up to $25 million (the "**Expense Reimbursement**"), in each case as an administrative expense, and (iii) the No-Shop Provision. Taken together, and assuming the full Expense Reimbursement is claimed, the Break-Up Fee and Expense Reimbursement could equal up to approximately 2.6% of the $3.802 billion base purchase price the Plan Investor is paying for the Westinghouse businesses.

38. The Expense Reimbursement would be earned and payable in cash upon the Plan Investor's termination of the Plan Funding Agreement based on the following conditions:

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(i) if Companies (as defined in the Plan Funding Agreement) breached any representation or warranty or failed to comply with any covenant or agreement applicable to Companies that would cause any condition to the Plan Investor's closing obligations not to be satisfied, and (x) such breach is not waived by Plan Investor or, (y) if such breach has not been waived by Plan Investor but is curable and is not cured prior to the earlier to occur of (A) thirty (30) days after receipt of Plan Investor's notice of its intent to terminate and (B) by the Outside Date; provided, however, that Plan Investor is not then in breach of the Plan Funding Agreement;

(ii) failure to meet any of the Bankruptcy Milestones;

(iii) following entry of the Plan Investor Protections Order, the order is (x) amended, modified, or supplemented in a manner not reasonably satisfactory to Plan Investor or (y) voided, reversed, or vacated;

(iv) following entry of either the Disclosure Statement Order or the Transaction Approval Order, either order is (x) amended, modified, or supplemented in a manner not reasonably satisfactory to Plan Investor or (y) voided, reversed, or vacated;

(v) Companies seek (or do not reasonably oppose) an order dismissing the bankruptcy case or converting to a case under chapter 7 of the Bankruptcy Code, or the Bankruptcy Court enters such an order; or

(vi) Companies seek (or do not reasonably oppose) an order appointing a chapter 11 trustee, or an officer or an examiner with enlarged powers relating to the Debtors' operations, or such an order is entered.

39. Both the Break-Up Fee and Expense Reimbursement are earned upon termination of the Plan Funding Agreement based on Westinghouse willfully or intentionally breaching the No-Shop Provision or signing a definitive agreement with respect to a Competing Transaction.[12] The Expense Reimbursement will be payable in cash within two business days of

[12] A "**Competing Transaction**" is anticipated to be defined in the Plan Funding Agreement as "(i) any merger, acquisition, divestiture, sale, business combination, recapitalization, joint venture, or other transaction directly or indirectly involving the equity, voting power or all or a material portion of the Company or any other similar transaction (in each case, whether under a sale under Section 363 of the Bankruptcy Code, a chapter 11 plan or any other transaction) that would serve as an alternative to the Transaction; (ii) any plan of reorganization or liquidation that does not contemplate, or that would be reasonably expected to impede or delay the implementation or consummation of, the Transaction; or (iii) any proposal that by its terms requires the Company to abandon, terminate or fail to consummate the Transaction; provided, that in no event shall a 363 Sale to Plan Investor constitute a Competing Transaction."

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such termination, and the Break-Up Fee will be payable in cash upon the earlier of (i) consummation of a Competing Transaction, and (ii) the Outside Date (without any extension).

40. The Break-Up Fee and Expense Reimbursement are an integral part of the overall Transaction and, without these protections, the Plan Investor would not have agreed to the binding commitments in the LOI. Indeed, these provisions were heavily negotiated and the Plan Investor will have a termination right under the Plan Funding Agreement if the Break-Up Fee and Expense Reimbursement are not approved.

b. The No-Shop Provision and Fiduciary Out

41. The Plan Funding Agreement generally prohibits Westinghouse from soliciting, encouraging the submission of, or negotiating any Competing Transaction proposals (the "**No-Shop Provision,**" and together with the Break-Up Fee and Expense Reimbursement, the "**Plan Investor Protections**"). Specifically, the No-Shop Provision provides that Westinghouse will not directly or indirectly:

i. initiate contact with or solicit or encourage submission of any inquiries, proposals or offers by, any other party with respect to a Competing Transaction;

ii. discuss or provide non-public information, data, due diligence information or data-room access to any other party relating to a Competing Transaction;

iii. enter or seek to enter into an agreement to make bankruptcy filings in furtherance of a Competing Transaction or negotiation thereof;

iv. propose or seek Bankruptcy Court approval of a bidding process with respect to a 363 sale; or

v. publicly propose to do any of the prohibited actions in clauses (i) to (iv) above, other than in connection with a transaction with the Plan Investor or its affiliates.

See LOI, Exhibit B.

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42. The No-Shop Provision also requires Westinghouse and its affiliates to cease and terminate any discussions, solicitations, and negotiations with other parties relating to a Competing Transaction or any inquiries that could reasonably result in any Competing Transaction.

43. Notwithstanding the prohibitions imposed by the No-Shop Provision, the LOI provides, and the Plan Funding Agreement will provide, that Westinghouse is permitted, after considering the advice of counsel, to consider, negotiate or enter into a proposed Competing Transaction if, in the good-faith judgment of the board or a committee thereof, failure to take such action would be inconsistent with their fiduciary duties (the "**Fiduciary Out**"). Westinghouse's ability to exercise the Fiduciary Out and explore a Competing Transaction is subject to certain limitations. Specifically, prior to exploring a Competing Transaction, the proposal must:

i. not have been received in violation of the restrictions upon Westinghouse's ability to seek a Competing Transaction or provide non-public information regarding a Competing Transaction;

ii. be evidenced by complete definitive documentation;

iii. provide no less than $200 million of additional distributable value (inclusive of the amount of the Break-Up Fee and Expense Reimbursement);

iv. contains no greater conditionality or contingency to consummation of the transaction; and

v. not be, as a whole, less favorable than the Transaction.

44. In addition, the Debtors must promptly (and, in any event, within 24 hours) notify and deliver a copy to the Plan Investor if, with respect to all or a material portion of the Westinghouse businesses, any bona fide written proposal or offer with respect to a Competing Transaction is received. The Debtors are also required to provide the Plan Investor

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with notice of their entry into a binding definitive agreement for a Competing Transaction within two business days after such entry.

45. Similar to the Break-Up Fee and the Expense Reimbursement, the Plan Investor's entry into a binding agreement was conditioned upon the inclusion of the No-Shop Provision and the Plan Investor will have the ability to terminate the Plan Funding Agreement if the No-Shop Provision is not approved. The provision was heavily negotiated at arm's length by the parties.

The Relief Requested Should Be Granted

A. Break-Up Fee and Expense Reimbursement Are Reasonable and Appropriate and Represent a Sound Exercise of the Debtors' Business Judgment

46. To secure the Plan Investor's commitment to enter into the Plan Funding Agreement and compensate the Plan Investor for the considerable time and expense it has incurred during the Marketing and Sale Process, and will continue to incur as the parties proceed to plan confirmation, the Debtors seek approval of the Break-Up Fee and Expense Reimbursement. Agreeing to the Break-Up Fee and Expense Reimbursement is a reasonable exercise of the Debtors' business judgment given (i) the significant benefit to the estates of having a definitive agreement for a value maximizing transaction that will facilitate a holistic resolution of these chapter 11 cases and allow Westinghouse to continue to profitably provide services to nuclear facilities across the globe, (ii) the significant costs incurred by the Plan Investor over the past several months participating in the Marketing and Sale process and negotiating the terms of the Plan Funding Agreement and other transaction related documents, and (iii) the substantial amount of time that lies ahead before the consummation of the Transaction. Under these circumstances, the Break-Up Fee and Expense Reimbursement are reasonable in amount and necessary to maximize the value of the Debtors' estates.

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47. Section 363(b) of the Bankruptcy Code provides, in relevant part, that "the [Debtor], after notice and a hearing, may use, sell, or lease, other than in the ordinary course of business, property of the estate." 11 U.S.C. § 363(b)(1). In addition, section 105(a) of the Bankruptcy Code provides that the "court may issue any order, process, or judgment that is necessary to carry out the provisions of [the Bankruptcy Code]." 11 U.S.C. § 105(a).

48. Courts in the Second Circuit have granted a debtor's request to use property of the estate outside of the ordinary course of business upon a finding that such use is supported by sound business reasons. *See Comm. of Equity Sec. Holders v. Lionel Corp. (In re Lionel Corp.)*, 722 F.2d 1063, 1071 (2d Cir. 1983) ("The rule we adopt requires that a judge determining a § 363(b) application expressly find from the evidence presented before him . . . a good business reason to grant such an application."); *Official Comm. of Subordinated Bondholders v. Integrated Res., Inc. (In re Integrated Res.)*, 147 B.R. 650, 656 (S.D.N.Y. 1992); *In re Enron Corp.*, 2003 WL 1562202, at *19 (Bankr. S.D.N.Y. Mar. 21, 2003). Accordingly, courts in the Second Circuit "give great deference to the substance of the directors' decision and will not invalidate the decision, will not examine its reasonableness, and will not substitute its views for those of the board if the latter's decision can be attributed to any rational business purpose." *In re Global Crossing*, 295 B.R. 726, 744 (Bankr. S.D.N.Y. 2003) (quoting *Paramount Commc'n Inc. v. QVC Network Inc.*, 637 A.2d 34, 45 n.17 (Del. 1994)); *accord In re Johns-Manville Corp.*, 60 B.R. 612, 616 (Bankr. S.D.N.Y. 1986).

49. It is generally understood that "[w]here the debtor articulates a reasonable basis for its business decisions (as distinct from a decision made arbitrarily or capriciously), courts will generally not entertain objections to the debtor's conduct." *In re Johns-Manville Corp.*, 60 B.R. 612, 616 (Bankr. S.D.N.Y. 1986). If a valid business

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justification exists, there is a strong presumption that "the directors of a corporation acted on an informed basis, in good faith and in the honest belief that the action taken was in the best interests of the company." *In re Integrated Res., Inc.*, 147 B.R. 650, 656 (S.D.N.Y. 1992) (quoting *Smith v. Van Gorkom*, 488 A.2d 858, 872 (Del. 1985)), *appeal dismissed*, 3 F.3d 49 (2d Cir. 1993). The burden of rebutting this presumption falls to parties opposing the proposed exercise of a debtor's business judgment. *Id.* (citing *Aronson v. Lewis*, 473 A.2d 805, 812 (Del. 1984)).

50. Westinghouse engaged in a thorough and robust Marketing and Sale Process and, after extensive negotiations with the three final bidders, the Special Committee determined, in consultation with the independent directors of TNEH UK, Westinghouse, and each party's respective advisors, that the Plan Investor has proposed the highest and best offer for Westinghouse's businesses. The Debtors believe the Plan Investor's offer is the best available outcome for the estates and their stakeholders, as it sets forth a viable and timely path for the ultimate resolution of these chapter 11 cases. The Plan Investor has provided the means of implementing a chapter 11 plan through the infusion of $3.802 billion of cash and cash consideration into the estate that will be available (along with the Debtors' unrestricted cash) for distribution under a chapter 11 plan and agreeing to assume approximately $770 million in liabilities, which will substantially reduce the claims pool and enhance recoveries to general unsecured creditors. Undoubtedly, the Plan Investor is conferring a material benefit to the estates as it leads the Debtors successfully out of bankruptcy to continue to operate as a healthy and profitable going concern enterprise, saving thousands of jobs, and allowing Westinghouse to provide services to nuclear facilities across the globe.

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51. Approval of the Break-Up Fee and Expense Reimbursement is appropriate in light of the significant costs the Plan Investor has incurred, and will continue to incur, until the confirmation of a chapter 11 plan. The Plan Investor has expended a substantial amount of time and effort throughout the Marketing and Sale Process, hiring dozens of lawyers, accountants, and other professionals to conduct financial and legal diligence. The Plan Investor's professionals have reviewed over 9,000 documents and spent thousands of hours conducting such review and drafting and negotiating key transactional documents, such as the LOI and Plan Funding Agreement. The Plan Investor's professionals will continue to work around the clock with Westinghouse's advisors to evaluate thousands of executory contracts for assumption or rejection, negotiate and finalize chapter 11 plan documents, and to smoothly transition into new ownership to allow Westinghouse to continue to operate as an industry leader.

52. Finally, approval of the Break-Up Fee and Expense Reimbursement is appropriate given the substantial amount of time needed for the sale to close. While the LOI contemplates the confirmation of a chapter 11 plan will occur by the end of March, it is anticipated to take several months for the Transaction to receive regulatory approval from various governmental agencies. Understandably, the Plan Investor will not agree to wait in limbo for potentially months and months for regulatory approval after already having expended millions of dollars during the Marketing and Sale Process and plan confirmation without being protected, at least in part, against the risk that the Transaction is not consummated.

53. The Break-Up Fee and Expense Reimbursement are bargained-for and integral parts of the Transaction and the Debtors have been advised that, without such material inducements, the Plan Investor would not have agreed to enter into the LOI or the Plan

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Funding Agreement. The Break-Up Fee and Expense Reimbursement are reasonable in light of the magnitude of the transaction and the tangible benefit to the estates of having a committed purchaser. If the Break-Up Fee and Expense Reimbursement are not approved, the Plan Investor's commitment to the Plan Funding Agreement will be jeopardized as the Plan Investor would have the right to terminate the Plan Funding Agreement.

54. The Debtors submit that the Break-Up Fee and Expense Reimbursement, which, combined, can be approximately 2.6% of the base purchase price (assuming the full amount of the Expense Reimbursement is claimed), are reasonable and commensurate with the size and nature of the transaction. Numerous bankruptcy courts, including those in this district, have approved protections similar to the proposed Break-Up Fee and Expense Reimbursement as reasonable. *See, e.g.*, *In re Boston Generating, LLC*, Case No. 10-14419 (SCC) (Bankr. S.D.N.Y. November 24, 2010) (Docket No. 494) (approving 2.7% break-up fee and $5.0 million in expense reimbursement in connection with $1.1 billion transaction); *In re Terrestar Networks, Inc.*, Case No. 10-15446 (SHL) (Bankr. S.D.N.Y. July 7, 2011) (Docket No. 645) (approving 2.0% break-up fee and $3.0 million in expense reimbursement in connection with $1.375 billion transaction); *In re DBSD North America, Inc.*, Case No. 09-13061 (REG) (Bankr. S.D.N.Y. March 15, 2011) (Docket No. 1028) (approving 2.5% break-up fee and uncapped reimbursement for all reasonable expense in connection with $1.0 billion transaction); *In re Chrysler LLC*, Case No. 09-50002 (AJG) (Bankr. S.D.N.Y. May 8, 2009) (Docket No. 492) (approving 1.75% break-up fee in connection with $2.0 billion transaction); *In re Lehman Bros. Holdings Inc.*, Case No. 08-13555 (JMP) (Bankr. S.D.N.Y. October 22, 2008) (Docket No. 1175) (approving 2.4% break-up fee and uncapped reimbursement for all reasonable expenses incurred prior to the auction in connection with $2.15 billion transaction);

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see also In re Energy Future Holdings Corp., Case No. 14-10979 (CSS) (Bankr. D. Del. September 7, 2017) (Docket No. 11873) (approving 2.0% break-up fee in connection with $9.45 billion transaction); *In re Edison Mission Energy*, Case No. 12-49219 (Bankr. N.D. Ill. October 25, 2013) (Docket No. 1424) (approving 2.5% break-up fee and uncapped reimbursement for all reasonable expenses in connection with $2.635 billion transaction); *In re ASARCO LLC*, Case No. 05-21207 (Bankr. S.D. Tex. June 3, 2008) (Docket No. 8005) (approving 2.0% break-up fee and $10 million in expense reimbursement in connection with $2.6 billion transaction). Accordingly, the Break-Up Fee and Expense Reimbursement are within the range of percentage fees paid in similar transactions.

55. Based upon the foregoing, the Debtors submit that sound business justification exists to authorize the Debtors to provide the Plan Investor with the Break-Up Fee and Expense Reimbursement pursuant to the terms of the Plan Funding Agreement.

B. The Break-Up Fee and Expense Reimbursement Should Be Allowed as Administrative Expenses Pursuant to Sections 503(b) and 507(a)(2) of the Bankruptcy Code

56. Section 503(b)(1)(A) of the Bankruptcy Code provides that "[a]fter notice and a hearing, there shall be allowed administrative expenses, other than claims allowed under section 502(f) of this title, including— (1)(A) the actual, necessary costs and expenses of preserving the estate . . . ." Further, section 507(a)(2) of the Bankruptcy Code provides that "administrative expenses allowed under section 503(b)" are entitled to priority.

57. As detailed above, the Break-Up Fee and Expense Reimbursement are a material inducement for the Plan Investor to enter into the Plan Funding Agreement and consummate the Transaction contemplated thereby, which will provide a material benefit to the Debtors' estates by providing the Debtors with a framework for a holistic resolution to these

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chapter 11 cases and the cash necessary to confirm a chapter 11 plan that allows for significant recoveries to creditors. Accordingly, in the event that the Break-Up Fee and Expense Reimbursement become payable under the terms of the Plan Funding Agreement, such expenses should be an allowed administrative expense of the Debtors' estates entitled to priority.

C. Inclusion of the No-Shop Provision, with a Fiduciary Out, Is Appropriate and a Sound Exercise of the Debtors' Business Judgment

58. Although the Debtors are required to pursue the Transaction without soliciting alternative proposals in accordance with the No-Shop Provision, these restrictions are subject to the Debtors' Fiduciary Out. Thus, subject to payment of the Break-Up Fee and Expense Reimbursement, the Debtors have the flexibility to consider and accept unsolicited proposals that are superior to the transaction contemplated by the Plan Funding Agreement. Given the robust and public Marketing and Sale Process conducted by the Debtors, the Debtors believe any party that is genuinely interested in purchasing the business has had an opportunity to do so, and any party interested in submitting a competing bid has had and continues to have more than adequate notice of the sale of the Westinghouse businesses. As such, the No-Shop Provision does not unduly chill the Debtors' sale process.

59. Courts in this District have given deference to debtors in agreeing to no-shop clauses when the underlying facts justify the inclusion of such restrictions to induce serious, committed offers. *See In re Integrated Res., Inc.*, 147 B.R. at 654-57 (finding a no-shop provision permissible where debtor had contact with more than 30 potential bidders prior to agreeing to no-shop provision); *In re Crowthers McCall Pattern, Inc.*, 114 B.R. 877, 889 (Bankr. S.D.N.Y. 1990) (supporting judgment "such limited deterrence [as provided by a no-shop provision] is often necessary to bring prospective bidders to the table with serious bids");

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cf. In re Bidermann Indus. U.S.A., Inc., 203 B.R. 547, 553 (Bankr. S.D.N.Y. 1997) (rejecting a no-shop provision with a fiduciary out because debtors did not seek multiple bids prior to agreeing to no-shop provision).

60. Here, the Debtors made public statements about the Marketing and Sale Process on the record during hearings held on October 26, 2017 and December 13, 2017, engaged in communications with 118 potential bidders and investors, executed 54 non-disclosure agreements, and conducted two rounds of competitive bidding. As a condition to obtaining the binding commitments from the Plan Investor, the Plan Investor required the inclusion of the No-Shop Provision. Indeed, in the event that the Debtors do not obtain approval of the No-Shop Provision, the Plan Investor is entitled to terminate the Plan Funding Agreement.

61. Given the substantial value of the deal provided to the estates through the Plan Funding Agreement, the amount of information and notice provided to the marketplace and other potential bidders during the Debtors' Marketing and Sale Process, and the inclusion of the Fiduciary Out, the Debtors determined in their business judgment that it was appropriate to include the No-Shop Provision to lock in the Plan Investor's proposal that will ultimately maximize value for all of their stakeholders.

Request for Relief Pursuant to Bankruptcy Rules 6004(h)

62. Bankruptcy Rule 6004(h) provides that an "order authorizing the use, sale, or lease of property…is stayed until the expiration of 14 days after entry of the order, unless the court orders otherwise." Fed. R. Bankr. P. 6004(h). In order to provide immediate protection to the Plan Investor, the Debtors request that the Plan Investor Protections Order be effective

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immediately upon entry and that the 14-day stay period under Bankruptcy Rules 6004(h) be waived.

Notice

63. Notice of this Motion will be provided in accordance with the *Order Pursuant to 11 U.S.C. §105(a) and Fed. R. Bankr. P. 1015(c), 2002(m), and 9007 Implementing Certain Notice and Case Management Procedures* [Docket No. 101]. The Debtors submit that, in view of the facts and circumstances, such notice is sufficient and no other or further notice need be provided.

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64. No previous request for the relief sought herein has been made by the Debtors to this or any other court.

WHEREFORE the Debtors respectfully request that the Court grant the relief requested herein and such other and further relief as is just.

Dated: January 10, 2018
New York, New York

/s/ *Garrett A. Fail*

Gary T. Holtzer
Robert J. Lemons
Garrett A. Fail
David N. Griffiths
WEIL, GOTSHAL & MANGES LLP
767 Fifth Avenue
New York, New York 10153
Telephone: (212) 310-8000
Facsimile: (212) 310-8007

Attorneys for Debtors
and Debtors in Possession

-and-

Albert Togut
Kyle J. Ortiz
Brian F. Moore
TOGUT, SEGAL & SEGAL LLP
One Penn Plaza, Suite 3335
New York, New York 10119
Telephone: (212) 594-5000
Facsimile: (212) 967-4258

Attorneys for Debtor Toshiba
Nuclear Energy Holdings (UK) Limited

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Exhibit A

Proposed Order

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UNITED STATES BANKRUPTCY COURT
SOUTHERN DISTRICT OF NEW YORK

In re	:	**Chapter 11**
WESTINGHOUSE ELECTRIC COMPANY LLC, *et al.*,	:	**Case No. 17-10751 (MEW)**
Debtors.[1]	:	**(Jointly Administered)**

ORDER PURSUANT TO 11 U.S.C. §§ 105(a), 363(b), 503(b), AND, 507(a)(2) AND FED. R. BANKR. P. 6004 AUTHORIZING AND APPROVING CERTAIN PLAN INVESTOR PROTECTIONS

Upon the motion (the "**Motion**"),[2] dated January 10, 2018, [Docket No. _____] of Westinghouse Electric Company LLC, Toshiba Nuclear Energy Holdings (UK) Limited, and their debtor affiliates, as debtors and debtors in possession in the above-captioned chapter 11 cases (collectively, the "**Debtors**"), pursuant to sections 105(a), 363(b), 503(b), and 507(a)(2) of title 11 of the United States Code (the "**Bankruptcy Code**"), and Rule 6004 of the Federal Rules of Bankruptcy Procedure (as amended from time to time, the "**Bankruptcy Rules**"), for entry of an order (i) approving and authorizing the Debtors to pay to Brookfield Capital Partners LLC (the "**Plan Investor**") a fee of $75,000,000 (the "**Break-Up Fee**") when and if payable pursuant

[1] The Debtors in these chapter 11 cases, along with the last four digits of each Debtor's federal tax identification number, if any, are: Westinghouse Electric Company LLC (0933), CE Nuclear Power International, Inc. (8833), Fauske and Associates LLC (8538), Field Services, LLC (2550), Nuclear Technology Solutions LLC (1921), PaR Nuclear Holding Co., Inc. (7944), PaR Nuclear, Inc. (6586), PCI Energy Services LLC (9100), Shaw Global Services, LLC (0436), Shaw Nuclear Services, Inc. (6250), Stone & Webster Asia Inc. (1348), Stone & Webster Construction Inc. (1673), Stone & Webster International Inc. (1586), Stone & Webster Services LLC (5448), Toshiba Nuclear Energy Holdings (UK) Limited (N/A), TSB Nuclear Energy Services Inc. (2348), WEC Carolina Energy Solutions, Inc. (8735), WEC Carolina Energy Solutions, LLC (2002), WEC Engineering Services Inc. (6759), WEC Equipment & Machining Solutions, LLC (3135), WEC Specialty LLC (N/A), WEC Welding and Machining, LLC (8771), WECTEC Contractors Inc. (4168), WECTEC Global Project Services Inc. (8572), WECTEC LLC (6222), WECTEC Staffing Services LLC (4135), Westinghouse Energy Systems LLC (0328), Westinghouse Industry Products International Company LLC (3909), Westinghouse International Technology LLC (N/A), and Westinghouse Technology Licensing Company LLC (5961). The Debtors' principal offices are located at 1000 Westinghouse Drive, Cranberry Township, Pennsylvania 16066.

[2] References herein to the Plan Funding Agreement are incorporated as if set forth fully herein.

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to the terms hereof; (ii) approving and authorizing reimbursement of up to $25,000,000 in reasonable and documented fees and expenses (including fees and expenses of legal, tax, accounting, insurance, nuclear regulatory, financial and other professionals) incurred by Plan Investor and its affiliates in connection with that certain Plan Funding Agreement, dated as of January [●], 2018 (as amended, restated, modified, superseded, or supplemented from time to time, the "**Plan Funding Agreement**"[3]), by and among Toshiba Nuclear Energy Holdings (UK) Limited and TSB Nuclear Energy Services Inc. (together with their respective direct and indirect subsidiaries, the "**Company**"), and the Plan Investor, and the Transaction (as defined below) contemplated thereby (the "**Expense Reimbursement**") when and if payable pursuant to the terms hereof; and (iii) approving certain Competing Transaction provisions of the Parties' agreement (the "**No-Shop Provision**," and together with the Break-Up Fee and the Expense Reimbursement, the "**Plan Investor Protections**"); and upon consideration of the Motion and the Declaration of Mark Buschmann [Docket No. _____] in support thereof and all of the pleadings related thereto; and due and sufficient notice of the Motion having been given; and it appearing that no other or further notice need be provided except as set forth herein; and the Court having held a hearing on the Motion on [_____], 2018 (the "**Hearing**"); and the Court having considered the Motion and the record of the Hearing; and after due deliberation the Court having determined that the relief requested in the Motion is in the best interests of the Debtors, their estates and their creditors; and good and sufficient cause having been shown; it is therefore

[3] For the avoidance of doubt, as used herein, the "Plan Funding Agreement" includes a Definitive SAPA (as defined in the Motion) in the event the structure of the transaction is converted to a sale under section 363 of the Bankruptcy Code according to the terms of the Plan Funding Agreement.

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FOUND AND DETERMINED THAT:

A. The Break-Up Fee and Expense Reimbursement are: (1) actual and necessary costs of preserving the Debtors' estates, within the meaning of sections 503(b) and 507(a)(2) of the Bankruptcy Code; (2) commensurate to the real and substantial benefits conferred upon the Debtors' estates by the Plan Investor; (3) reasonable and appropriate in light of the size and nature of the transaction proposed in and contemplated by the Plan Funding Agreement (the "**Transaction**") and the efforts that have been and will be expended by the Plan Investor in connection therewith; and (4) a condition to and necessary to induce the Plan Investor to continue to pursue the Transaction and to be bound by the Plan Funding Agreement.

B. Unless it is assured that the Plan Investor Protections will be available, the Plan Investor is unwilling to remain obligated to consummate the Transaction or otherwise be bound by the Plan Funding Agreement. The Plan Investor Protections induced the Plan Investor to execute the Plan Funding Agreement on which the Debtors and their creditors and other stakeholders rely, and which encourages and facilitates the Transaction. Accordingly, the Plan Investor Protections are reasonable and appropriate and represent the best method for maximizing value for the benefit of the Debtors' estates.

C. The findings and conclusions set forth herein constitute the Court's findings of fact and conclusions of law. To the extent any of the foregoing findings of fact constitute conclusions of law, they are adopted as such. To the extent any of the following conclusions of law constitute findings of fact, they are adopted as such.

IT IS HEREBY ORDERED THAT:

1. The Motion is GRANTED as set forth herein.

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2. The Break-Up Fee and Expense Reimbursement each constitute, pursuant to sections 503(b)(1)(A) and 507(a)(2) of the Bankruptcy Code, an allowed administrative expense claim in these chapter 11 cases. The Debtors are required to pay the Break-Up Fee and the Expense Reimbursement when and as set forth herein or in the Plan Funding Agreement as administrative claims of the estates, which shall survive termination of the Plan Funding Agreement and shall be binding and enforceable against each Debtor and its respective estate, and any trustee, examiner or other representative of the Debtors' estates. Any Break-Up Fee and Expense Reimbursement payable pursuant to the terms hereof shall be payable without any further order of the Court.

3. The Debtors are authorized and directed to pay the Expense Reimbursement in cash upon termination of the Plan Funding Agreement by the Plan Investor based on the following conditions:

a) if Companies (as defined in the Plan Funding Agreement) breached any representation or warranty or failed to comply with any covenant or agreement applicable to Companies that would cause any condition to the Plan Investor's closing obligations not to be satisfied, and (x) such breach is not waived by Plan Investor or, (y) if such breach has not been waived by Plan Investor but is curable and is not cured prior to the earlier to occur of (A) thirty (30) days after receipt of Plan Investor's notice of its intent to terminate and (B) by the Outside Date; provided, however, that Plan Investor is not then in breach of the Plan Funding Agreement;

b) if any of the events set forth in the milestones schedule below has not occurred by the date specified in respect of such event (unless such milestone has been extended by mutual agreement of the Parties):

Filing of the Plan, Disclosure Statement and Solicitation Motion	January 29, 2018
Entry of the order approving the Disclosure Statement and related procedures (which shall include mutually agreeable procedures for the assumption or rejection of executory contracts, the establishment of cure costs and the designation of executory contracts for	February 27, 2018

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assumption or rejection) (the "**Disclosure Statement Order**")	
Entry of an order confirming the Plan or approving a standalone sale pursuant to section 363 of the Bankruptcy Code (the "**Transaction Approval Order**")	April 16, 2018

c) following entry hereof, this order is (x) amended, modified, or supplemented in a manner not reasonably satisfactory to Plan Investor or (y) voided, reversed, or vacated;

d) following entry of either the Disclosure Statement Order or the Transaction Approval Order, either order is (x) amended, modified, or supplemented in a manner not reasonably satisfactory to Plan Investor or (y) voided, reversed, or vacated;

e) Companies seek (or do not reasonably oppose) an order dismissing the bankruptcy case or converting to a case under chapter 7 of the Bankruptcy Code, or the Bankruptcy Court enters such an order; or

f) Companies seek (or do not reasonably oppose) an order appointing a chapter 11 trustee, or an officer or an examiner with enlarged powers relating to the Debtors' operations, or such an order is entered.

4. In the event the Plan Investor terminates the Plan Funding Agreement based on the Company's willful or intentional breach of the No-Shop Provision or entry into a definitive agreement with respect to a Competing Transaction,[4] the Debtors are authorized and directed to pay in cash (a) the Expense Reimbursement upon the occurrence of such termination and (b) the Break-Up Fee upon the earlier of (i) the closing of a Competing Transaction and (ii) [●].

[4] As used herein, the term "**Competing Transaction**" means (i) any merger, acquisition, divestiture, sale, business combination, recapitalization, joint venture, or other transaction directly or indirectly involving the equity, voting power or all or a material portion of the Company or any other similar transaction (in each case, whether under a sale under Section 363 of the Bankruptcy Code, a chapter 11 plan or any other transaction) that would serve as an alternative to the Transaction; (ii) any plan of reorganization or liquidation that does not contemplate, or that would be reasonably expected to impede or delay the implementation or consummation of, the Transaction; or (iii) any proposal that by its terms requires the Company to abandon, terminate or fail to consummate the Transaction; provided, that in no event shall a 363 Sale to Plan Investor constitute a Competing Transaction.

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5. Notwithstanding section 362 of the Bankruptcy Code, the Plan Investor is authorized to terminate the Plan Funding Agreement in accordance with, but subject to, the terms of Section [12.01] thereof, including, for the avoidance of doubt, the sending of any notice in connection therewith.

6. Until the earlier to occur of (i) the Closing and (ii) the termination of the Plan Funding Agreement, the Company will not (and will not permit its affiliates or its respective Representatives to), directly or indirectly: (a) initiate contact with, or solicit or encourage submission of any inquiries, proposals, or offers by, any person (other than Plan Investor or its affiliates) with respect to a Competing Transaction or otherwise facilitate any effort or attempt to make a proposal or offer with respect to a Competing Transaction, including, but not limited to, conducting or supporting any overbid or auction process; (b) engage in, continue, or otherwise participate in any discussions or negotiations regarding, or provide any non-public information, data, due diligence information, or data room access (electronic or otherwise) to any person relating to, any Competing Transaction; (c) enter into or seek to enter into any agreement with respect to, make any filings with the Bankruptcy Court in furtherance of, or negotiate in any respect, a Competing Transaction; (d) propose or seek Bankruptcy Court approval of a bidding process with respect to a 363 sale; or (e) publicly propose to do any of the actions prohibited by any of above clauses, other than in connection with a transaction with Plan Investor or its affiliates; and the Company will (and will cause its affiliates to, and will direct and cause its Representatives to) cease and terminate all solicitations, discussions and negotiations with any persons with respect to any Competing Transaction, or any inquiry or proposal that could reasonably result in any Competing Transaction.

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7. Notwithstanding the foregoing paragraph 6, the Company, or its board of directors (or a committee thereof) or officers, may only consider, negotiate or enter into a proposed Competing Transaction if, in the good faith judgment of the Company, or its board of directors (or a committee thereof) or officers, after considering the advice of external counsel, the failure to take such action would be inconsistent with their fiduciary duties under applicable law and the proposal for such Competing Transaction (i) was not received in violation of clauses (a) or (b) in paragraph 6, (ii) is evidenced by complete definitive documentation, (iii) provides not less than $200 million of additional distributable value (inclusive of amounts equal to the Break-Up Fee and Expense Reimbursement) over the Transaction, (iv) contains no greater conditionality or contingency (including appropriate information regarding financial wherewithal) to consummation than the Transaction, and (v) taken as a whole, is not less favorable to the Company than the Transaction; provided, that the Company will provide notice of its entry into a binding definitive agreement for a Competing Transaction within two (2) business days after such entry.

8. The Company will promptly (and, in any event, within 24 hours) notify and deliver a copy to Plan Investor if, with respect to all or a material portion of the Company, any bona fide written proposal or offer with respect to a Competing Transaction is received by the Company or its Representatives.

9. Subject to the terms of the Plan Funding Agreement, the Debtors are authorized to take such actions as may be necessary or appropriate to implement and affect the terms and requirements of this Order, including, but not limited to, expending such funds or taking such action as may be necessary or appropriate to comply with the Plan Funding Agreement to the extent authorized by this Order.

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10. The Court shall retain jurisdiction over all matters arising from or related to the interpretation and implementation of this Order.

11. Notwithstanding the possible applicability of Bankruptcy Rule 6004, or otherwise, the terms and conditions of this Order shall be immediately effective and enforceable.

Dated: _____, 2018
New York, New York

HONORABLE MICHAEL E. WILES
UNITED STATES BANKRUPTCY JUDGE

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Exhibit 1

Plan Funding Agreement

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Exhibit B

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STRICTLY CONFIDENTIAL

January 4, 2018

Re: Project Rubicon - Binding Letter Agreement

This binding letter agreement (this "**Agreement**") sets forth the agreement by Brookfield Capital Partners LLC ("**Plan Investor**") to acquire certain of the businesses and assets of the Westinghouse group companies (composed of TSB Nuclear Energy Services Inc. ("**TSB Nuclear**"), Toshiba Nuclear Energy Holdings (UK) Limited ("**TNEH UK**") and each of their respective direct and indirect subsidiaries on the terms set forth on Exhibit A and Exhibit B hereto (the "**Transaction**"). TSB Nuclear and TNEH UK are collectively referred to herein as "**Westinghouse**". Plan Investor and Westinghouse shall each be referred to herein as a "**Party**" and collectively, as the "**Parties**".

1. Definitive Documentation. Following the execution of this Agreement, the Parties shall negotiate promptly, earnestly and in good faith to reach agreement on reasonable terms with respect to and execute definitive documentation (including, without limitation, a Plan Funding Agreement and such other related definitive documentation as the Parties may agree) (the foregoing collectively, the "**Definitive Documentation**") to reflect and further memorialize the terms contained in this Agreement and the Transaction (including, without limitation, the terms set forth on Exhibit A and Exhibit B hereto and such other terms as are reasonable, customary and appropriate for transactions of this type) by not later than January 12, 2018 (the "**Execution Outside Date**"). Notwithstanding the foregoing, in the event that the Parties shall not have reached agreement with respect to and executed the Definitive Documentation by the Execution Outside Date, the Parties shall not, as a result thereof, be relieved of their obligations hereunder and shall continue to be obligated to negotiate promptly, earnestly and in good faith to reach agreement with respect to and execute the Definitive Documentation, subject to Paragraph 4 of this Agreement. Despite the fact that this Agreement refers to the possibility of the execution and delivery of the Definitive Documentation that may set forth further details concerning the contemplated Transaction, the Parties acknowledge that (i) the effectiveness of this Agreement is not conditioned upon the execution and delivery of the Definitive Documentation, (ii) this Agreement contains all of the material terms and conditions of the Transaction and (iii) this Agreement is entered into for valuable consideration (the receipt and sufficiency of which is hereby acknowledged) and is intended to be, and shall be, the legal and binding obligation of each Party, enforceable in accordance with its terms. As promptly as practicable (and, in any case, within two (2) business days) and as a condition to the effectiveness hereof, the Plan Investor shall have, or shall have caused to be, delivered to Westinghouse each of the deliverables set forth on Exhibit C hereto.

2. Certain Bankruptcy Matters. Notwithstanding anything to the contrary herein, Plan Investor expressly acknowledges and agrees that: (i) Westinghouse's obligations and duties under this Agreement, including, but not limited to, any obligations in respect of the bidding protections and the other considerations, terms, rights and privileges set forth in Exhibit B hereto, remain subject to approval of the United States Bankruptcy Court for the Southern District of New York presiding over Westinghouse's and its debtor affiliates' pending chapter 11 cases (the "**Bankruptcy Court**"); and (ii) the Transaction and the Definitive Documentation, and Westinghouse's, performance and consummation thereof, remain subject to Bankruptcy Court approval.

3. Confidentiality; Press Releases. No Party shall directly or indirectly communicate or disclose (whether orally, in writing or otherwise) to any third party (other than their respective directors, officers, representatives, agents, members, financing sources, professional advisors, attorneys and/or employees, in their capacity as such, "**Representatives**") any information with respect to the terms of this

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Agreement or the ongoing negotiations in connection with the Definitive Documentation, except: (a) to the extent necessary to comply with law, a requirement of a regulatory or self-regulatory body (subject, in the case of the issuance of an Announcement (as defined below), to the qualifications set forth in the final sentence of this Paragraph 3) or the valid order of a court of competent jurisdiction, in which event the Party making such disclosure shall, to the extent practicable, so notify the other and shall seek confidential treatment of such information; (b) in order to enforce its rights pursuant to this Agreement in a legal proceeding; (c) as otherwise consented to by the other Party and (d) as may be necessary in the judgment of Westinghouse (x) to maintain its relationships with any governmental, regulatory or administrative authority, agency, body or commission or self-regulatory organization with oversight over Westinghouse's and its affiliates' business and operations or the Transaction or (y) in connection with its and its affiliates' bankruptcy cases in the Bankruptcy Court (including, without limitation, as part of a filing with or appearance before the Bankruptcy Court, in discussions with respect to the Transaction, in discussions with any of the creditors of Westinghouse or its affiliates and/or any of the representatives of such creditors or otherwise), including, without limitation, by disclosing (i) the fact that discussions, negotiations or investigations are taking or have taken place concerning the Transaction, (ii) the existence or contents of this Agreement, (iii) the fact that Plan Investor has requested or received confidential information and/or (iv) any of the terms, conditions or facts relating to the Transaction, including the status thereof. Each Party shall be responsible for any breach by its Representatives of the confidentiality obligations applicable to Representatives hereunder. Notwithstanding the foregoing, Westinghouse, its debtor affiliates, and Plan Investor shall be permitted to make a public announcement and/or press release (an "**Announcement**") regarding this Agreement following the execution hereof, provided that the content of any such Announcement in the form of a draft shall be furnished by the Party proposing to issue the same (the "**Issuing Party**") to the other Party (the "**Other Party**") for such Other Party's review and comment prior to the public release of such Announcement, it being understood and agreed that such comments of the Other Party, if reasonable, shall be incorporated by the Issuing Party into such Announcement prior to the issuance thereof.

4. Termination. This Agreement may be terminated (i) by mutual written agreement of the Parties, (ii) by either Party by written notice to the other Party in the event that the Bankruptcy Court prohibits Westinghouse and its affiliated debtor entities from performing pursuant to the terms of this Agreement, and (iii) as provided in Exhibit A and/or Exhibit B. In addition to the foregoing and notwithstanding anything to the contrary herein, this Agreement shall automatically terminate upon the execution of the Definitive Documentation, and shall thereupon be superseded in its entirety by such Definitive Documentation. Upon termination of this Agreement (other than a termination in connection with the execution of the Definitive Documentation as set forth in the immediately preceding sentence), the purchase price deposit described on Exhibit A will be released to Plan Investor, unless otherwise specifically provided in Exhibit A (including with respect to an uncured breach by Plan Investor).

5. Binding Agreement. Unless and until expressly superseded by the Definitive Documentation, this Agreement is binding on each of the Parties, subject to the terms and conditions contained herein.

6. Entire Agreement; Amendments. Subject to and at such time as the Definitive Documentation is executed and delivered, this Agreement and the Proprietary Information/Non-Disclosure Agreement, dated as of September 25, 2017, by and between Westinghouse Electric Company LLC and Brookfield Renewable Power Inc. shall collectively constitute the entire agreement among the Parties with respect to the subject matter hereof and supersede all other prior agreements and understandings, both written and oral, among the Parties with respect to the subject matter thereof. This Agreement may not be amended, changed, supplemented or otherwise modified except by an instrument in writing specifically designated as an amendment hereto or replacement hereof, signed on behalf of each Party.

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7. Assignment. This Agreement shall not be assignable without the prior written consent of each Party (and any purported assignment without such consent shall be null and void); provided that Plan Investor may assign this Agreement to any of its affiliates without the consent of Westinghouse and provider, further, that no such assignment shall relieve Plan Investor of its obligations hereunder. This Agreement is intended to be solely for the benefit of the Parties and is not intended to confer any benefits upon, or create any rights in favor of, any person other than the Parties.

8. Expenses. Whether or not the transactions contemplated herein are consummated, except as otherwise provided in this Agreement or by order of the Bankruptcy Court, all costs and expenses incurred in connection with this Agreement and the transactions contemplated hereby shall be borne by the Party incurring such expenses.

9. Specific Performance. Each Party agrees that irreparable damage would occur and the Parties would not have an adequate remedy at law if any provision of this Agreement is not performed in accordance with its specific terms or is otherwise breached. Accordingly, each Party agrees that the other Parties will be entitled to injunctive relief from time to time to prevent breaches of the provisions of this Agreement and to enforce specifically the terms and provisions of this Agreement, in each case, (i) without the requirement of posting any bond or other indemnity and (ii) in addition to any other remedy to which it may be entitled, at law or in equity. Furthermore, each Party agrees not to raise any objections to the availability of the equitable remedy of specific performance to prevent or restrain breaches of this Agreement, and to specifically enforce the terms of this Agreement to prevent breaches or threatened breaches of, or to enforce compliance with, the covenants and obligations of such Party under this Agreement. For the avoidance of doubt, nothing herein shall require Plan Investor to consummate any transaction or undertake any other obligation not expressly set forth herein.

10. Counterparts; Facsimiles. This Agreement may be executed in counterparts, which together shall constitute one instrument. Executed copies of the signature pages of this Agreement sent by facsimile or transmitted electronically in either Tagged Image Format Files or Portable Document Format shall be treated as originals, fully binding and with full legal force and effect, and the Parties each waive any rights they may have to object to such treatment.

11. Governing Law. This Agreement shall be governed by and construed and enforced in accordance with the internal laws of the State of New York, without giving effect to law or rule that would cause the laws of any jurisdiction other than the State of New York to be applied. Without limiting any Party's right to appeal any order of the Bankruptcy Court, (i) the Bankruptcy Court shall retain exclusive jurisdiction to enforce the terms of this Agreement and to decide any dispute which may arise or result from, or be connected with, this Agreement or any breach or default hereunder and (ii) any and all proceedings related to the foregoing shall be filed and maintained only in the Bankruptcy Court, and all the Parties hereby expressly and irrevocably consent to and submit to the exclusive jurisdiction and venue of the Bankruptcy Court. To the maximum extent permitted by law, each Party irrevocably and unconditionally waives any right to trial by jury in any forum in respect of this Agreement and covenants that neither it nor any of its affiliates or Representatives will assert (whether as plaintiff, defendant or otherwise) any right to such trial by jury.

12. Representations. Subject to obtaining any necessary approval of the Bankruptcy Court:

a. Each Party has all necessary power and authority to execute, deliver and perform (and/or cause to be performed) this Agreement and the terms thereof.

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b. The execution, delivery and performance by each Party of this Agreement have been duly and validly authorized by all necessary action on the part of such Party. This Agreement constitutes the legally valid and binding obligation of each Party, enforceable against it in accordance with its terms, except as may be limited by bankruptcy, insolvency, reorganization, fraudulent conveyance, moratorium and other similar laws and equitable principles relating to or limiting creditors' rights generally, and as the remedy of specific performance and injunctive and other forms of equitable relief may be subject to equitable defenses and to the discretion of the Bankruptcy Court. The execution, delivery and performance by each Party of this Agreement (i) will not require any notice to or consent or other action by any person under, result in a breach of, or default under, or give rise to a right of termination, cancellation, material modification or acceleration of any right or obligation of such Party or to a loss of any benefit to which such Party is entitled (with or without notice or lapse of time, or both) under any provision of any agreement or other instrument binding upon such Party and (ii) would not be reasonably likely to prevent or materially delay or materially impair the ability of such Party to consummate the transactions contemplated by this Agreement.

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If you are in agreement with the foregoing, please sign and return one copy of this Agreement, which thereupon will constitute our agreement with respect to its subject matter.

Very truly yours,

BROOKFIELD CAPITAL PARTNERS LLC

By: _____
Name: Ron Bloom
Title: Vice Chairman & Managing Partner

By: _____
Name: Mark Weinberg
Title: Managing Partner

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ACCEPTED AND AGREED:

TSB NUCLEAR ENERGY SERVICES INC.

By: Marc Beilinson
Name: Marc Beilinson
Title: Authorized Signatory

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Toshiba Nuclear Energy Holdings (UK) Limited

By: _____

Alan B. Miller
Director

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Exhibit A

Summary of Material Terms

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EXECUTION VERSION

Exhibit A

Summary of Material Terms of
Plan Funding Agreement ("PFA") and Related Documents

TOPIC	MATERIAL TERMS
DEFINITIONS	
Purchase Price	Base Purchase Price + Acquired Company Cash –Acquired Company Debt +/- Working Capital Increase (Decrease)
Base Purchase Price	$3.790 billion (Plan); $3.640 billion (363)
Purchase Price Adjustments:	
• *Acquired Company Cash (+)*	"*Cash*" and related definitions are defined as set forth on Schedule I.
• *Solvency Cash (-)*	Plan Investor and Companies acknowledge that Companies will engage in solvency planning steps and transactions prior to the Closing. The aggregate amount of all Cash used by or contributed to any Acquired Company with respect to the solvency thereof or any other Acquired Company ("*Solvency Cash*") shall not be included in the definition of Acquired Company Cash. Without limiting the foregoing, a reasonable period to be agreed prior to the Closing, Companies shall inform Plan Investor of the proposed plans and steps (including the use of Solvency Cash) with respect to solvency of any Acquired Company (the "*Solvency Plan*"). If, in the reasonable judgment of Plan Investor, any such Solvency Plan results in any adverse impact on the tax attributes or assets of any Acquired Company, Plan Investor and Companies shall work together during the Pre-Closing Period to minimize any potential negative impact. Any such negative impact, together with any Taxes resulting from such Solvency Plan, shall be borne 50% by Companies (or Wind Down Co, as applicable) and 50% by Plan Investor (as a reduction of Purchase Price at Closing), and shall be subject to adjustment and dispute following the Closing pursuant to the mechanics set forth in Article II of the PFA. Without limiting the foregoing, if, in the reasonable judgment of Plan Investor, the Solvency Plan results in any other negative impact on the Business, such Solvency Plan shall be subject to the reasonable consent of Plan Investor. For purposes hereof, "solvent" means, with respect to any entity, when the assets of such entity exceed the liabilities of such entity, calculated on an accounting basis consistent with such entity's statutory accounts.
• *Acquired Company Debt (-)*	The aggregate amount of all outstanding Debt of the Company Group Members as of the Effective Time, calculated in accordance with the Transaction Accounting Principles and, for purposes of this definition, Acquired Company Debt shall exclude outstanding

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TOPIC	MATERIAL TERMS
	Debt of the Company Group Members owed to any other Company Group Member. "*Debt*" is defined as set forth on Schedule II.
• *Net Working Capital (+/-)*	*See* Schedule III attached hereto.
• *Target Working Capital*	$183 million
• *Post-Closing Adjustment Threshold*	• No adjustment to Purchase Price for variances between the Estimated Closing Statement and the Final Closing Statement that do not exceed $10,000,000 in the aggregate. • Only in the event that there is one or more disputed dollar amounts between Plan Investor and Wind Down Co in the preparation of the Final Closing Statement that exceed(s) $10,000,000 in the aggregate will the parties engage an accounting firm to resolve the amounts in dispute.
Cure Costs	• Payable by Companies • Plan Investor to have reasonable approval and consultation rights with respect to executory contracts having a term of at least two years and a Cure Cost of at least $2 million.
Transaction Expenses	Transaction Expenses reduce Base Purchase Price pursuant to the definition of Debt.
Purchase Price Deposit	$200 million to be deposited in escrow with Citibank N.A., within 2 business days of execution of this letter agreement.
Holdbacks (-)	$100 million to be held back from the Closing Payment.
STRUCTURE	
US	Equity issuance of new shares in reorganized Company A (with a conversion to a 363 asset sale if required, as described on Exhibit B); *provided* that for the first 14 calendar days from the execution of the PFA, Plan Investor may elect to consummate the transaction in an alternative transaction structure pursuant to a plan of reorganization to implement maximum tax efficiencies to the extent reasonably acceptable to Companies (subject to possible conversion to a 363 asset sale if required, as described on Exhibit B).

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TOPIC	MATERIAL TERMS
Int'l	Equity sale of 100% of Company B's equity interests in Westinghouse Electric Holdings UK Limited.
Purchase Price Allocation	To be discussed in connection with 363 construct described above.
ALLOCATION OF ASSETS	
Transferred Assets	Rights of the Acquired Companies as of the date hereof under letters of credit issued by BNP to be deemed an Acquired Asset hereunder.
Assumed Liabilities	See Schedule IV attached hereto.
Excluded Assets	Certain Cash of the U.S. Debtors and all rights of the Company Group Members under the CB&I Purchase Agreement.[1]
Excluded Liabilities	All Liabilities of the Reorganized Debtors that are not Assumed Liabilities.
REPRESENTATIONS AND WARRANTIES (COMPANIES)	• PFA to include reasonable and customary representations and warranties for a transaction of this nature and size and, to the extent possible, use of R&W Insurance, in each case, with no recourse to the equityholders. • Representations shall generally be limited to the Company Group Members. Representations with respect to the Non-Controlled JVs will be made to Companies' "actual knowledge" without any inquiry requirement. • Representation regarding absence of undisclosed liabilities (a) not tied to GAAP balance sheet requirements, (b) to exclude performance and payment obligations under contracts (including guarantees) and excluding any breach thereof and (c) to include a threshold in the amount of $25,000,000. Representation will be subject to the MAE bringdown generally applicable to representations.
REPRESENTATIONS AND WARRANTIES (PLAN INVESTOR)	• PFA to include reasonable and customary representations and warranties for a transaction of this nature and size.
ADDITIONAL	

[1] Note: Cash subject to finalization. For the avoidance of doubt, CB&I License Agreement to be assumed.

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TOPIC	MATERIAL TERMS
AGREEMENTS	
Interim Operating Covenants	• PFA to include reasonable and customary interim operating covenants for a transaction of this nature and size with no post-closing recourse to the equityholders. • Interim Operating Covenants to provide for Companies to use commercially reasonable efforts to take those actions contemplated by an agreed-upon capital expenditures schedule, to reference portions of the Companies' Transformation Plan (to be attached to the PFA) and to provide for agreed flexibility consistent with the Companies' execution of such attached portions of the Transformation Plan. • Controlled JVs' compliance with Companies' covenants during the Pre-Closing Period shall be required to the extent such compliance would not cause Companies or its Affiliates to breach or violate (x) any agreement relating to the organization, formation, ownership or governance of such Controlled JVs or (y) any fiduciary or other duties owed by Companies or any of their Affiliates to such Controlled JV or its equity-holders. • Companies shall use their commercially reasonably efforts (including by asserting rights pursuant to Contract) to cause Non Controlled JVs to comply with covenants • Plan Investor to have consent right (in its sole discretion) with respect to entry into, amendment or termination of, (i) all contracts (other than fuel and outage service contracts) above a $25,000,000 threshold based on revenue, expenses, or liability exposure (which shall include contracts related to new reactor projects) and (ii) entry into any Contract to conduct activities in India (collectively, the "*Designated Interim Covenants*").
Regulatory Matters	• Reasonable best efforts standard, with no duty to divest. • Duty to litigate. • Plan Investor and its Affiliates must refrain from taking any action that would be reasonably expected to (i) materially delay, impair or impede the receipt of, or increase the risk of not receiving, a Government Approval, (ii) materially, delay, impair or impede the expiration or termination of waiting periods, (iii) materially increase the risk of entry of an Order that would prohibit the Transactions or (iv) otherwise materially delay the consummation of the Transactions.
Guarantees & L/Cs	• Plan Investor shall use commercially reasonable efforts to replace/substitute all Company Guarantees set forth on a schedule (other than the NDA Parent Company Guarantee) issued by third parties or other Persons (excluding any Company Group Member) at or prior to the Effective Time. • If Plan Investor is unable to replace any Company Guarantee and obtain a full release of the relevant Acquired Company(ies),

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TOPIC	MATERIAL TERMS
	Plan Investor to indemnify the obligor of such Company Guarantee until guarantors are fully released.
Intercompany Obligations	Intercompany claims (other than cash pool claims) may (i) be reinstated, settled, offset, cancelled, extinguished or eliminated, including by way of capital contribution, (ii) be eliminated by way of capital contribution by the Plan Investor, or (iii) receive such other treatment in each case as reasonably agreed to by the Plan Investor and the Companies.
CONDITIONS TO CLOSING (Article XI)	
Bringdown of Reps & Warranties/Covenants	Only formation/qualification/capitalization/enforceability representations shall be brought down to a flat standard at Closing (subject to de minimis exceptions). In all other instances, representations (with a materiality "scrape") to be true and correct except for breaches and inaccuracies that, individually or in the aggregate, would not be expected to have a Material Adverse Effect. Covenants to be complied with in all material respects subject to the Designated Interim Covenants that shall be brought down flat.
Governmental Approvals / Notices	*See* Schedule V attached hereto for Government Approvals and Notices that are a condition to Closing.
Third-Party Approvals	None, except as otherwise scheduled on Schedule VI.
BANKRUPTCY PROVISIONS	See Exhibit B.
TERMINATION	
Outside Date • *General* • *Extension Right*	• Outside Date to be six (6) months from the Agreement Date • Any party may extend for one 90-day period if the receipt of any required regulatory approvals remain the only condition(s) to be satisfied as of the Outside Date. Any party may extend for an additional 90-day period if [redacted] filing remains the only condition to be satisfied as of the Outside Date as extended by the initial 90-day period. • Any party may extend the original Outside Date for one 90-day period if the entry of the Confirmation Order or the Plan Sponsor Order remains the only condition to be satisfied as of the original Outside Date.

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TOPIC	MATERIAL TERMS
Termination Fee	**$200 million** termination fee payable by Plan Investor if the PFA is terminated: • by Companies following Plan Investor's material uncured breach; and • by Companies upon four (4) days written notice if all Closing Conditions have been satisfied and Plan Investor fails to consummate the Closing.
Break-Up Fee/Expense Reimbursement	• **$75 million** Break-Up Fee. • **Up to $25 million** of reasonable documented fees and expenses (including professional fees) incurred by Plan Investor in connection with the PFA and transactions contemplated thereby. • See Exhibit B for payment triggers and timing.
MISCELLANEOUS	
Survival	• Except for any covenant that by its terms is to be performed (in whole or in part) following the Closing, none of the representations, warranties, or covenants of any Party set forth in the PFA shall survive, and each of the same shall terminate and be of no further force or effect as of the effective time of the Transaction.
Limitation of Liability	• Either Party's maximum liability under the PFA is three percent (3%) of the Base Purchase Price other than in circumstances where the Termination Fee or Break-Up Fee is payable. • In the event the Break-Up Fee is payable, the maximum liability of Companies is capped at Break-Up Fee and Expense Reimbursement. • In the event the Termination Fee is payable, the maximum liability of Plan Investor is the Termination Fee (plus Companies' costs and expenses incurred in connection with an Action to collect the payment of the Termination Fee).
Expenses	Each Party bears its own expenses, provided that Plan would provide for the payment of all of Plan Investor's transaction fees and expenses upon consummation of the Closing.
Assignment	No Party may assign the Agreement without the prior written consent of the other Parties; provided, however, that Plan Investor may assign the Agreement to any of its Affiliates and Companies may assign the Agreement to a trust in connection with the Bankruptcy Cases, upon prior written notice to the other Parties.

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DOE-19-0315, 19-0316, 19-0318-A-000787

TOPIC	MATERIAL TERMS
[redacted]	[redacted] holdback from Closing Payment; upon resolution of [redacted] claim in the Bankruptcy Cases, Purchaser shall retain the amount of the claim as resolved and shall pay the remainder of the holdback amount to the estate.
Returned Cash	If, at any time following Closing, any Cash or other proceeds held by any of [redacted] connection with [redacted] and [redacted] and/or (ii) Bank Mendes Gans N.V in connection with the Cash Pooling Agreement, dated June 17, 2010, in each case, as of the Closing Date is released or remitted to Buyer or any Acquired Company, Buyer shall, and shall cause the Acquired Companies to, promptly remit the same to Wind Down Co. or its designee, net of any fees or expenses of Buyer in connection with any repatriation, or transfer to Wind Down Co, of such Cash or proceeds.
EMPLOYEE MATTERS	
Treatment of Qualified Pension Plans	• Plan Investor shall assume all liabilities with respect to Qualified Pension Plans.
[redacted]	[redacted]
Treatment of Multiemployer Pension Plans	• Plan Investor will assume the obligation to contribute to the multiemployer plans and transaction shall be structured to avoid triggering a withdrawal.
Treatment of Retiree Health and Welfare Plans	• Plan Investor shall assume all liabilities with respect to Retiree Health and Welfare Plans.
Treatment of Non-US Pension Plans	• Plan Investor shall assume all liabilities with respect to Non-US Pension Plans.
Treatment of Employees and Employee Benefit Plans	• Plan Investor shall assume or retain any and all liabilities (contingent or otherwise) relating to, arising out of, or resulting from the employment or services, or termination of employment or services, of any Continuing Employee, whether arising before, on or after the Closing. • Plan Investor shall, or shall cause an Affiliate to honor all collective bargaining, works council or other similar written employee representative agreements that cover any Continuing Employees and such employees shall be treated in

AMERICAN OVERSIGHT

TOPIC	MATERIAL TERMS
	accordance with such agreements. • Plan Investor shall assume all employee benefit plans (other than nonqualified plans) and all related liabilities. • For twelve (12) months following the Closing Date, Continuing Employees shall receive (i) at least the same salary, wages and cash incentive compensation opportunities (including annual and long-term cash incentive opportunities) as were in place immediately prior to the Closing Date, or, in the case of cash incentive compensation opportunities, if not in place immediately prior to the Closing Date, then the most recent incentive compensation opportunities that were in place and (ii) employee benefits no less favorable in the aggregate than the employee benefits provided to each Continuing Employee immediately prior to the Closing Date. • Purchaser shall not reduce or eliminate any retiree health or life insurance benefits provided to any current or former Covered Employee or to which any current or former Covered Employee has or will have a right. • Plan Investor shall credit Continuing Employees for service earned on and prior to the Closing Date for purposes of eligibility, vesting, paid-leave entitlement or the calculations of benefits under any employee benefit plan. • Plan Investor shall use commercially reasonable efforts to waive any pre-existing condition or actively at work limitations, evidence of insurability and waiting periods for Continuing Employees and their eligible spouses and dependents under any benefit plan. Plan Investor shall credit for purposes of determining and satisfying annual deductibles, co-insurance, co-pays, out-of-pocket limits and other applicable limits under the comparable health plans and arrangements offered to Continuing Employees, deductibles, co-insurance, copays, out-of-pocket expenses paid by the Continuing Employees and their respective spouses and dependents under any benefit plans of the sellers or any of their affiliates in the plan year in which the Closing occurs. • In the event applicable Law in any jurisdiction requires treatment of Continuing Employees or Employee Plans that differs from the treatment described herein, such applicable Law shall govern. • The parties and their affiliates shall mutually cooperate in undertaking all reasonably necessary or legally required provision of information to, or consultations, discussion or negotiations with, employee representative bodies that represent any Covered Employee.
TAX MATTERS	
Transfer Taxes	• Plan Investor responsible for all Transfer Taxes.
Tax Returns and Payment of Taxes	• Subject to Solvency Plan adjustments, Acquired Companies responsible for payment of their Taxes for all Tax Periods. • Plan Investor generally controls (i) preparation of relevant Tax returns, (ii) Tax contests and (iii) Tax elections.

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DOE-19-0315, 19-0316, 19-0318-A-000789

TOPIC	MATERIAL TERMS
FINANCING MATTERS	
Marketing Period	Customary Marketing Period to be agreed (but in any case, not to be longer than the marketing period set forth in the Debt Commitment Letter), that will commence following delivery of applicable financial statements required by the Debt Commitment Letter only.
Financial Statements	Conditions precedent for financing and any applicable covenant under the PFA shall be discussed and Companies and Plan Investor to agree on appropriate financials mutually acceptable to the parties.
Equity Commitment Letters	At signing, Plan Investor shall deliver a customary, fully binding, and executed equity commitment letter ("ECL") in an amount not less than $1.005 billion. The ECL shall provide that Companies are third-party beneficiaries and entitled to enforce Plan Investor's rights under the ECL, and that Plan Investor and the equity investors have waived any defenses to the enforceability of such third-party beneficiary rights. Any amounts called pursuant to the ECL shall be used for the sole purpose of satisfying Plan Investor's obligations under the definitive agreement.
Limited Guarantee	N/A
PLAN TERM SHEET	Parties to agree on a Plan Term Sheet in form and substance reasonably satisfactory to Plan Investor and Companies.

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Schedule I – Cash

"**Acquired Company Cash**" means, as of the relevant date of calculation, the aggregate amount of (i) Excess Cash and (ii) Operational Cash, calculated in the manner set forth on Schedule 14.01.

"**Cash**" means all cash and cash equivalents calculated in accordance with GAAP, including checks, commercial paper, treasury bills, certificates of deposit and other bank deposits, securities, securities entitlements, instruments and other investments and all bank accounts and securities accounts; provided, that "Cash" shall not include any (a) checks written but not yet cleared, (b) wires in transit to third parties or (c) proceeds from any insurance recovery relating to or arising from any event or claim that occurs after the Agreement Date and before the Closing Date to the extent received in connection with an Assumed Liability or was paid to the Company Group Members in respect to a loss arising from any of its assets that is not an Excluded Asset.

"Excess Cash" means, as of the relevant date of calculation, the aggregate amount of Cash of the Company Group Members (including all interest thereon), less the items set forth as "Adjustments from GAAP Cash to Excess Cash" on such schedule, in each case calculated in the manner set forth on Schedule 14.01; provided, that if such aggregate amount exceeds $35,000,000, then "Excess Cash" shall be $35,000,000.

"Operational Cash" means, as of the relevant date of calculation, the aggregate amount of Cash of the Company Group Members (including all interest thereon), calculated in the manner set forth on Schedule 14.01, aggregating the items set forth under the heading "Sample Operational Cash Calculation"; provided, that if such aggregate amount exceeds $100,000,000, then "Operational Cash" shall be $100,000,000.

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Schedule II – Debt

"Debt" means, with respect to any Person and without duplication, all Liabilities, including all obligations in respect of principal, accrued interest, penalties, fees and premiums, of such Person (a) for borrowed money (including amounts outstanding under overdraft facilities), (b) evidenced by notes, bonds, debentures or other similar Contracts, (c) in respect of "earn-out" obligations and other obligations for the deferred purchase price of property, goods or services (other than trade payables or accruals incurred in the ordinary course of business which are reserved for and set forth on the Estimated Closing Statement), (d) for the capitalized liability under all capital leases of such Person, (e) for Contracts relating to interest rate protection, swap agreements and collar agreements, in each case, to the extent payable if such Contract is terminated at the Closing, (f) any deferred compensation payable to any employee or other individual service provider (to the extent not reserved for and set forth on the Estimated Closing Statement), (g) the aggregate amount of all fees, expenses and other obligations or other Liabilities of the Company Group Members in connection with the Transactions that remain unpaid as of immediately prior to the Closing including fees and expenses payable to legal or financial advisors or consultants, and (i) in the nature of guarantees of the obligations described in clauses (a) through (f) above of any other Person.

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Schedule III – Net Working Capital Schedule
(See attached)

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"**Net Working Capital**"(1) means the amount of (a) the Company Group Members' (excluding Nuclear Fuels Industries Ltd, but including Mangiarotti S.p.A) current assets listed as current assets in Table I below, but excluding all Cash, including Excess Cash and Operational Cash, short term loans receivables, intercompany receivables and deferred Tax assets minus (b) the Company Group Members' (excluding Nuclear Fuels Industries Ltd, but including Mangiarotti S.p.A) current Liabilities listed as current Liabilities in Table I below, but excluding (i) Debt, (ii) Income Tax Liabilities, (iii) accrued but unpaid interest relating to Debt, (iv) intercompany payables, (v) current Liabilities subject to compromise (other than billings in excess of revenue) (vi) current Liabilities derived from the settlement or compromise of claims filed in the Bankruptcy Cases (other than billings in excess of revenue), (vii) billings in excess of revenue associated with the AP1000 Interim Assessment Agreements, (viii) costs in excess of billings and corresponding accounts payable associated with the AP1000 Interim Assessment Agreements, (ix) Transaction Expenses and (x) loss reserves of Mangiarotti S.p.A. related to the RSG Mangiarotti Contract recognized on its books and records, in each case, as of such time and calculated on a consolidated basis in accordance with the Transaction Accounting Principles (except with respect to Excess Cash, which is calculated in accordance with Schedule 14.01).

Note: For purposes of illustration only, if Net Working Capital were calculated as of September 30, 2017, using the consolidated balance sheet account balances as of such date and the definition above, it would be calculated as set forth in Table I under the column entitled "Sep-17." For the avoidance of doubt, any portion of any such account that is explicitly excluded from the definition of "Net Working Capital" above will not be included in the calculation of Net Working Capital (including the calculation thereof for purposes of Estimated Working Capital, Proposed Final Working Capital and Final Working Capital). The account balances comprising Net Working Capital (including the calculation thereof for purposes of Estimated Working Capital, Proposed Final Working Capital and Final Working Capital) shall be derived from the consolidated balance sheet of Toshiba Nuclear Energy Holdings (US), Inc. and Toshiba Nuclear Energy Holdings (UK) Ltd. as of the Effective Time (the "Closing Balance Sheet"). The Closing Balance Sheet shall be prepared without taking into account any of the Transactions to be consummated on the Closing Date. No asset will be classified as a current asset unless it has been consistently classified as a current asset in the Financial Statements. No Liability will be classified as a current Liability unless it has been consistently classified as a current Liability in the Financial Statements.

"**AP1000 Interim Assessment Agreements**" means, collectively, (i) that certain Interim Assessment Agreement dated as of March 28, 2017 (as amended) among Westinghouse Electric Company LLC, WECTEC Global Project Services Inc., and the South Carolina Electric & Gas Company, for itself and as agent for the South Carolina Public Service Authority (the "Southern AP1000 Interim Assessment Agreement"), and (ii) that certain Interim Assessment Agreement dated as of March 29, 2017 (as amended) among Westinghouse Electric Company LLC, WECTEC Global Project Services Inc., and Georgia Power Company for itself and as agent for the other Vogtle Owners (the "SCANA AP1000 Interim Agreement").

"**Transaction Expenses**" means all fees, costs and expenses incurred by or on behalf of the Company Group Members arising from the preparation, execution, performance and/or

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consummation of the Transactions (including any change of control, success, retention or similar bonus payable to any employee or other service provider to the Company Group Members arising as a result of the Transactions, in each case, which fees, costs and expenses are not either (a) paid at or before the Closing or (b) payable from, or covered by, a reserve that has been established under the Plan or an Order of the Bankruptcy Court).

"**Transaction Accounting Principles**" means in a manner consistent with GAAP, consistently applied by the Company Group Members in the preparation of the financial statements of the Business, as in effect at the Effective Time. To the extent not inconsistent with the foregoing sentence, Net Working Capital and the line items and components therein, shall be based on the past practices and accounting principles, methodologies and policies applied by Toshiba Nuclear Energy Holdings (US) Inc. and Toshiba Nuclear Energy Holdings UK Limited (a) in the ordinary course of business and (b) in the preparation of: (i) the combined, consolidated balance sheet of Toshiba Nuclear Energy Holdings (US) Inc. and Toshiba Nuclear Energy Holdings UK Limited for the year ended March 31, 2017; and (ii) the sample Net Working Capital calculation set forth as Table I below. Without limiting the foregoing, the determination of Net Working Capital will be derived from the books and records of the Company Group Members and from the financial reporting systems of the Company Group Members.

"**Target Working Capital**" means $183,000,000.00.

"**Post-Closing Adjustment Threshold**" means $10,000,000.00.

"**RSG Mangiarotti Contract**" means that certain Particular Conditions for the Supply of 1300MWe Replacement Steam Generators Ref CR110055, by and between Westinghouse Electric France and Mangiarotti, dated December 16, 2011.

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DOE-19-0315, 19-0316, 19-0318-A-000795

Westinghouse Proprietary Class 2
Strictly Confidential

Table I. Sample Net Working Capital Calculation

	($ in 000's)	Amount
	Cash & Cash Equivalents	$ [redacted]
	Notes Receivable - Trade	-
	Accounts Receivable - Trade	[redacted]
	Inventory	
	Short Term Loans Receivable	
	Prepaid Income Tax – Current (2)	
	Other Prepaid Expenses	
	Revenue in Excess of Billings	
	Cur Asset Other	
	Deferred Tax Asset - Current	
	Valuation Allowance for Deferred Tax Asset	
	Allowance for Doubtful Accounts	
(A)	**Current Assets**	$ [redacted]
	Accounts Payable - Trade	$ [redacted]
	Short Term Loans Payable	
	Accrued Interest Payable	
	Dividends Payable	
	Income Taxes Payable	
	Lease Liabilities - Current	
	Billings in Excess of Revenue	
	Other Reserves - Current	
	Provision for Loss on Contracts	
	Net intercompany payable / (Receivable)	
	Current Liabilities - Other	
	Deferred Tax Liabilities - Current	
(B)	**Current Liabilities**	$ [redacted]
(A) - (B) = (C)	**Balance Sheet Net Working Capital**	$ [redacted]
	Adjustments	
	Cash & Cash Equivalents	$ [redacted]
	Short Term Loans Receivable	
	Deferred Tax Asset - Current	
	Valuation Allowance for Deferred Tax Asset	
	Short Term Loans Payable	
	Accrued Interest Payable	
	Dividends Payable	
	Income Taxes Payable	
	Lease Liabilities - Current	
	Net intercompany payable / (Receivable)	
	Deferred Tax Liabilities - Current	
	Billings in Excess of Revenue - [redacted]	
	Billings in Excess of Revenue - [redacted]	
	Accounts payable - Subject to Compromise	
	Other current liabilities - Subject to Compromise	
	Reserves for decommissioning matters - Subject to Compromise (Current)	
	Benefit obligations - Subject to Compromise (Current)	
	Transaction Expenses	-
	Current liabilities derived from the settlement or compromise of claims filed in the Bankruptcy Cases	$ -
	Estimate of costs in excess of billings - AP1000 Interim Assessment Agreements (recorded as Revenue in Excess of Billings)	$ [redacted]
	Estimate of Accounts payable - AP1000 Interim Assessment Agreements	$
(D)	**Total Adjustments**	$ [redacted]
(C) + (D)	**Working Capital**	$ [redacted]

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Schedule IV – Assumed Liabilities

The "**Assumed Liabilities**" consist solely of the following Liabilities of Debtors:

(i) all Liabilities in the amounts that have been reserved against and to the extent taken into account in the calculation of the items set forth on the Final Closing Statement;

(ii) all Liabilities of any Debtor with respect to performance under any of the Designated Contracts, assumed by Debtors pursuant to the Plan, in each case, to the extent arising after the Closing and all other Liabilities with respect thereto that arise from any events, facts or circumstances (including any breach or course of conduct) that occur after the Closing;

(iii) all Liabilities of Debtors and their Affiliates for Taxes imposed in respect of income of the Debtors for any taxable period (or portion thereof) beginning after the Closing Date and Transfer Taxes allocated to Plan Investor pursuant to Section 10.01 of the PFA;[2]

(iv) all Liabilities relating to the Reorganized Debtors' ownership or operation of the Business Assets, to the extent arising from events, facts or circumstances that occur following the Closing;

(v) all Liabilities expressly assumed by the Reorganized Debtors pursuant to Exhibit C; all Liabilities to indemnify or hold harmless any current or former director or officer of an Acquired Company for claims that relate to periods prior to or following the Closing;

(vi) all Liabilities of Debtors to the extent arising on or after the Closing under the Transaction Documents; and

(vii) all Liabilities which Plan Investor is required to assume pursuant to applicable Environmental Laws.

[2] Note: Confirming with Tax advisors.

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Section V – Required Approvals and Required Notices

(see attached)

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Required Approvals and Required Notices

#	JURISDICTION	WESTINGHOUSE ENTITY	CONSENT / APPROVAL/NOTICE
[redacted]			
1	U.S.	[redacted]	[redacted]
2	[redacted]	Westinghouse Electric Company LLC	[redacted]
3	[redacted]	Westinghouse Electric Company LLC	[redacted]
4	[redacted]	Westinghouse Electric Company LLC	[redacted]
5	[redacted]	Westinghouse Electric Company LLC	[redacted]
6	[redacted]	Westinghouse Electric Company LLC	[redacted]
7	[redacted]	Westinghouse Electric Company LLC	[redacted]
[redacted]			
8	U.S.	Westinghouse Electric Company LLC	[redacted]
9	[redacted]	[redacted]	[redacted]
10	[redacted]	Westinghouse Electric [redacted]	[redacted]

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#	JURISDICTION	WESTINGHOUSE ENTITY	CONSENT / APPROVAL/NOTICE
		[redacted]	[redacted]
U.S. Nuclear Regulatory Licenses			
11	U.S.	Westinghouse Electric Company LLC	[redacted]
[redacted]			
12	[redacted]	Westinghouse Electric Company LLC	[redacted]
13	[redacted]	Westinghouse Electric Company LLC	[redacted]
14	[redacted]	Westinghouse Electric Company LLC	[redacted]
15	[redacted]	Westinghouse Electric Company LLC	[redacted]
16	[redacted]	Westinghouse Electric Company LLC	[redacted]
[redacted]			
17	[redacted]	[redacted]	[redacted]
18	[redacted]	[redacted]	[redacted]

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#	JURISDICTION	WESTINGHOUSE ENTITY	CONSENT / APPROVAL/NOTICE
		[redacted]	
19	[redacted]	[redacted]	[redacted]
20	[redacted]	Westinghouse [redacted]	[redacted]
21	[redacted]	Westinghouse [redacted]	[redacted]
22	[redacted]	Westinghouse [redacted]	[redacted]
23	[redacted]	Westinghouse [redacted]	[redacted]
24	[redacted]	Westinghouse Electric Company LLC	[redacted]
Export / Import			
25	**U.S.**	Westinghouse Electric Company LLC	See item 11 above.
26	**U.S.**	Westinghouse Electric Company LLC	[redacted]
27	**U.S.**	Westinghouse Electric Company LLC	[redacted]
28	[redacted]	Westinghouse [redacted]	[redacted]
29	[redacted]	[redacted]	[redacted]

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#	JURISDICTION	WESTINGHOUSE ENTITY	CONSENT / APPROVAL/NOTICE
30	[redacted]	Westinghouse Electric [redacted]	[redacted]
34	[redacted]	Westinghouse Electric [redacted]	[redacted]
32	[redacted]	Westinghouse Electric [redacted]	[redacted]
33	[redacted]	Westinghouse Electric [redacted]	[redacted]
34	[redacted]	[redacted]	[redacted]
35	[redacted]	[redacted]	[redacted]
[redacted]			
36	[redacted]	[redacted]	[redacted]
37	U.S.	[redacted] Westinghouse	[redacted]

[1] Note to WFG: Consent is required in order to transfer/reassign Westinghouse Germany's current export licenses.

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#	JURISDICTION	WESTINGHOUSE ENTITY	CONSENT / APPROVAL/NOTICE
		Electric Company LLC	
Communications Licenses			
38	**U.S.**	Westinghouse Electric Company LLC	[redacted]

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Section VI – Third Party Approvals

1. [redacted] pursuant to the applicable [redacted] agreement.
2. [redacted], as defined in the agreement to [redacted]
3. The consummation, substantially consistent with the terms of the [redacted] previously provided to Plan Investor, with respect to the [redacted]
4. [redacted] with respect to the [redacted] terms as set forth on the [redacted] previously provided to Plan Investor.
5. Settlement of [redacted] without [redacted] to any Acquired Companies following the Closing with respect to the [redacted] and the agreement on a [redacted] specifying the [redacted]

[3] Note: Items 2 through 5 will not be closing conditions. If any such item is not completed by the Closing, Parties to agree on appropriate purchase price adjustment.

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Exhibit B

Certain Bankruptcy Matters

Break-Up Fee and Expense Reimbursement.

- Break-Up Fee: $75 million.
- Expense Reimbursement: up to $25 million.
- The Break-Up Fee and Expense Reimbursement will be entitled to administrative expense status.
- Expense Reimbursement will be payable in cash upon termination of the Plan Funding Agreement based on:
    - The termination provision of the Plan Funding Agreement relating to the Company's representations, warranties and covenants;
    - Failure to meet any of the Bankruptcy Milestones listed below (unless such milestone has been extended by mutual agreement of the Parties);
    - The termination provision of the Plan Funding Agreement relating to the amendment, modification or supplement of the Plan Investor Protections Order, Disclosure Statement Order or the Transaction Approval Order (each, as defined herein) without the Plan Investor's written consent, or the voiding, reversal or vacating of such orders;
    - The Company seeks (or does not reasonably oppose) an order dismissing the Bankruptcy Case or converting to a case under chapter 7 of the Bankruptcy Code, or the Bankruptcy Court enters such an order; or
    - The Company seeks (or does not reasonably oppose) an order appointing a chapter 11 trustee, or an officer or an examiner with enlarged powers relating to the Debtors' operations, or such an order is entered.
- Expense Reimbursement and Break-Up Fee will be earned upon termination of the Plan Funding Agreement based upon the Company signing a definitive agreement with respect to a Competing Transaction. Expense Reimbursement will be payable in cash upon such termination, and Break-Up Fee will be payable in cash upon the earlier of (a) consummation of a Competing Transaction, and (b) the Outside Date (without any extensions).

Bankruptcy Milestones.

- Plan Investor may terminate based on failure to meet any of the following milestones:

Filing of motion seeking approval of the Break-Up Fee, Expense Reimbursement and "No Shop" (the "**Plan Investor Protections Order**")	January 9, 2018
Entry of the Plan Investor Protections Order	January 31, 2018

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Filing of the Plan, Disclosure Statement and motion for approval of the Disclosure Statement and related solicitation procedures and 363 sale	January 29, 2018
Hearing to approve the Disclosure Statement and related solicitation procedures	February 23, 2018
Entry of the order approving the Disclosure Statement and related solicitation procedures (which shall include mutually-agreeable procedures for the assumption or rejection of executory contracts, the establishment of cure costs and the designation of executory contracts for assumption or rejection) (the "**Disclosure Statement Order**")	February 23, 2018
Hearing to confirm chapter 11 plan or 363 sale	March 30, 2018
Entry of an Order confirming the chapter 11 plan or 363 sale (the "**Transaction Approval Order**")	March 30, 2018

- Company will use reasonable best efforts to obtain a hearing on and entry of the Plan Investor Protections Order by January 16, 2018.
- Acquisition to be structured as a plan of reorganization but may be converted to a 363 sale if the Parties agree that confirmation of the chapter 11 plan is unlikely to occur by March 30, 2018, or if confirmation of the chapter 11 plan is denied.
- Company will use reasonable best efforts to obtain entry of the above Orders by the applicable deadlines. Plan Investor agrees that it will promptly take such actions as are reasonably requested by the Debtors to assist in obtaining each of the Plan Investor Protections Order, the Disclosure Statement Order and the Transaction Approval Order.
- All deadlines are subject to further extension by mutual agreement of the Parties.

Competing Transaction.

- "**Competing Transaction**" means (i) any merger, acquisition, divestiture, sale, business combination, recapitalization, joint venture, or other transaction directly or indirectly involving the equity, voting power or all or a material portion of the Company or any other similar transaction (in each case, whether under a 363 sale, a chapter 11 plan or any other transaction) that would serve as an alternative to the Transaction; (ii) any plan of reorganization or liquidation that does not contemplate, or that would be reasonably expected to impede or delay the implementation or consummation of, the Transaction; or (iii) any proposal that by its terms requires the Company to abandon, terminate or fail to consummate the Transaction. For the avoidance of doubt, any transaction with Plan Investor pursuant to a 363 sale shall not constitute a Competing Transaction.
- "No Shop." From the date of execution of the Letter of Intent (the "**Agreement Date**") until the earlier to occur of the Closing and the termination of the Plan Funding Agreement:

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- (i) the Company will not (and will not permit its affiliates or their respective Representatives to), directly or indirectly:
  - (v) Initiate contact with, or solicit or encourage submission of any inquiries, proposals or offers by, any person (other than Plan Investor or its affiliates) with respect to a Competing Transaction or otherwise facilitate any effort or attempt to make a proposal or offer with respect to a Competing Transaction, including, but not limited to, conducting or supporting any overbid or auction process;
  - (w) Engage in, continue or otherwise participate in any discussions or negotiations regarding, or provide any non-public information, data, due diligence information, or data room access (electronic or otherwise) to any person relating to, any Competing Transaction;
  - (x) Enter into or seek to enter into any agreement with respect to, make any filings with the Bankruptcy Court in furtherance of, or negotiate in any respect, a Competing Transaction;
  - (y) Propose or seek Bankruptcy Court approval of a bidding process with respect to a 363 sale; or
  - (z) Publicly propose to do any of the actions prohibited by any of above clauses, other than in connection with a transaction with Plan Investor or its affiliates; and
- (ii) the Company will (and will cause its affiliates to, and will direct and cause its Representatives to) cease and terminate all solicitations, discussions and negotiations with any persons with respect to any Competing Transaction, or any inquiry or proposal that could reasonably result in any Competing Transaction;
- Notwithstanding the foregoing, the Company or its board of directors (or a committee thereof) or officers, may only consider, negotiate or enter into a proposed Competing Transaction if, in the good faith judgment of the Company, its board of directors (or a committee thereof), or its officers after considering the advice of external counsel, the failure to take such action would be inconsistent with its fiduciary duties under applicable law and the proposal for such Competing Transaction (a) was not received in violation of clauses (i)(v) or (w) above, (b) is evidenced by complete definitive documentation, (c) provides not less than $200 million of additional distributable value (inclusive of amounts equal to the Break-Up Fee and Expense Reimbursement) over the Transaction, (d) contains no greater conditionality or contingency (including appropriate information regarding financial wherewithal) to consummation than the Transaction, and (e) taken as a whole, is not less favorable to the Company than the Transaction contemplated in the Plan Funding Agreement; provided, that the Company will provide notice of its entry into a binding definitive agreement for a Competing Transaction within two (2) business days after such entry.

- The Company will promptly (and, in any event, within 24 hours) notify and deliver a copy to Plan Investor if, with respect to all or a material portion of the Company, any bona fide written proposal or offer with respect to a Competing Transaction is received by the Company or its Representatives.

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Certain Other Bankruptcy Matters.

- The Company will give timely, proper and adequate notice of any and all motions, orders, hearings and other proceedings relating to the Transaction (i) as ordered by the Bankruptcy Court, (ii) to all persons entitled to such notice, including, among others, all persons that have asserted or, to the Company's knowledge, may hold claims, liens, liabilities, encumbrances or interests related to Company, all taxing authorities that have jurisdiction over the Company's business, all government authorities in jurisdictions applicable to Company, and on all parties to any executory contracts or unexpired leases of the Debtors, in each case only as may be required by the Bankruptcy Rules or applicable Order of the Bankruptcy Court and solely to the extent such noticing information is reasonably available to the Company, and (iii) as Plan Investor may reasonably request.

- All motions, orders, agreements and other documents relating to the Transaction will be in form and substance reasonably acceptable to Plan Investor and the Company. The Company shall provide to Plan Investor a copy of any pleading, proposed order or other document relating to the Transaction that it intends to file with the Bankruptcy Court promptly and to the extent possible, not less than three (3) business days prior to the filing date.

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Exhibit C

Certain Deliverables

The purchase price deposit described on Exhibit A hereto by transfer of immediately available funds to an account designated in writing by Westinghouse.

Copies of the Plan Investor's definitive financing commitment letters.

A counterpart to the Escrow Agreement described on Exhibit A hereto, duly executed by Plan Investor.

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Schedule 1.01

Cash Calculations at September 30, 2017

Table I. Sample Excess Cash Calculation

			Amount		
	($ in 000's)				
(A)	Cash & Cash Equivalents	$	[redacted]		Diva - 1010
	Adjustments from General Ledger to GAAP Cash				
	TNEH-US HoldCo Cash	$	[redacted]	Excess Cash	Combined Financial Statements
	TNEH-UK HoldCo Cash			Excess Cash	Combined Financial Statements
	BMG Cash Pool			Restricted Cash	GL 101917 - 101955
	Sweden: [redacted]			Operational Cash	GL 101650 for W527
	Sweden: [redacted]			Operational Cash	GL 101656 for W527
	Germany: [redacted]			Restricted Cash	Management (Part of GL 101815 for W504)
	Utility Escrow			Operational Cash	GL 101796 for W001
	Other Restricted Cash		-	TBD	Combined Financial Statements
(B)	**Total Adjustments**	$	[redacted]		
(A) + (B) = (C)	**GAAP Cash**	$	[redacted]		To match Combined Financial Statements
	Adjustments from GAAP Cash to Excess Cash				
	SCANA AP1000 Interim Assessment Agreement	$	[redacted]	Restricted Cash	To match NWC Schedule amount
	Southern AP1000 Interim Assessment Agreement			Restricted Cash	GL 101792 for W001
	Westron			Operational Cash	W526
	KW Nuclear Components			Operational Cash	W559
	W Technology Services			Operational Cash	W509
	Par-TZ Nuclear			Operational Cash	W566
	NFI			Restricted Cash	W554
	China Sponge JV			Restricted Cash	W555
	WIPICO - Onshore China			Restricted Cash	B042
	WEC China			Restricted Cash	W565
(D)	**Total Adjustments**	$	[redacted]		
(C) + (D) = (E)	**Excess Cash**	$	[redacted]		

Table II. Sample Operational Cash Calculation

($ in 000's)			
Sweden: [redacted]	$	[redacted]	GL 101650 for W527
Sweden: [redacted]			GL 101656 for W527
Utility Escrow			GL 101796 for W001
DIP LC Cash Collateral (Post-Petition)			Management (Part of GL 163700 for W001)
PacifiCorp Adequate Assurance Agreement			Management (Part of GL 163700 for W001)
Westron (Proportional Share)			W526
KW Nuclear Components (Proportional Share)			W559
W Technology Services (Proportional Share)			W509
Par-TZ Nuclear (Proportional Share)			W566
Total Operational Cash	$	[redacted]	

Sources:
Project Rubicon Round 2 Data Room 2.8.14 - Restricted Cash Summary.xlsx

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Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Friday, April 07, 2017 5:48 PM
To: Kang, Eliot
Subject: RE: NTH: 4/7 PM - Why The US Fears A Chinese Bid For Westinghouse Electric

Categories: Green Category

I can always look to you to call it like it is!

Best,

Ed

State Equity

From: McGinnis, Edward
Sent: Friday, April 7, 2017 5:21 PM
To: Kang, Eliot
Subject: FW: NTH: 4/7 PM - Why The US Fears A Chinese Bid For Westinghouse Electric

---

From: Nuclear Townhall <nucleartownhall@nucleartownhall.com>
Sent: Friday, April 7, 2017 5:11:04 PM
To: McGinnis, Edward
Subject: NTH: 4/7 PM - Why The US Fears A Chinese Bid For Westinghouse Electric

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Lead:

* Why The US Fears A Chinese Bid For Westinghouse Electric

People, Politics:

* New Yorkers Want To Know If Nuclear Waste From Canada Is Coming Down I-81
* Future of DOE Heavy Water Supply Still Uncertain
* Weird Sterile Neutrinos May Not Exist, Suggest New Data From Nuclear Reactors

Business:

* Edison Blinks: Opens Negotiations On Moving Old Fuel From Proposed San Onofre Storage Site
* Southern Co. Facing 'Pivotal Decision' On Plant Vogtle

International:

* China Expected To Export Nuclear Technology To UK
* Australia Likely To Start Supplying Uranium To India From This Year
* Revised Japanese Reactor Law Lets Nuclear Regulators Conduct Surprise Inspections
* South Africa's Controversial Nuclear Energy Plans

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Nuclear Townhall, PO Box 91313, Louisville, KY 40291

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Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Tuesday, February 20, 2018 10:53 AM
To: McGinnis, Edward
Subject: Nuclear Energy Scorecard
Attachments: DEPLOYMENT_SCORECARD_Feb 2018_0.pdf

Categories: Green Category

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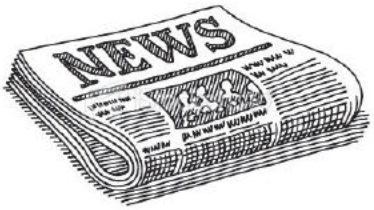

- The Westinghouse bankruptcy (March 2017) has resulted in the following recent actions:
  - … On January 4, 2018, Brookfield Business Partners LP agreed to buy Westinghouse Electric Company from Toshiba for $4.6 billion. Toshiba bought Westinghouse for $5.4 billion in 2006. The U.S. Bankruptcy court must approve the sale.
  - …In January 2018, Dominion Energy proposed to buy SCANA Corporation in a $7.8 billion all-stock deal, and agreed to cut electricity bills by 5% to make up for customers being charged for the failed VC Summer nuclear construction project. The proposal will be reviewed by the South Carolina Public Service Commission.
  - …In December 2018, SCANA proposed handing over the V.C. Summer nuclear site to Santee Cooper so the project can be preserved and perhaps finished later.
  - … On December 21, 2017, the State of Georgia's Public Service Commission voted unanimously to allow continued construction of two Westinghouse AP1000 nuclear reactors at Georgia Power's Plant Vogtle. The Commission chair said the decision was based on the importance of fuel diversity and the long term benefits the project would have on Georgians.
  - …October 2017: The U.S. Securities and Exchange Commission opened an investigation into how SCANA handled the VC Summer construction project. Meanwhile the utility faces two class-action lawsuits in federal courts alleging violations of U.S. securities law, alleging the company and top executives made misleading and fraudulent statements to investors and the public about the project.
  - …September 2017: the Department guaranteed another $3.7 billion in Loan Guarantees for the Vogtle project. SCANA and Santee Cooper accepted a $2.2 billion settlement offer from Toshiba (parent of Westinghouse). These 2 companies also received federal subpoenas asking for documents related to a February 2016 Bechtel assessment report of construction at Summer, after which South Carolina lawmakers called for a criminal investigation into how SCANA and its primary subsidiary South Carolina Electric and Gas Co. handled the Summer project.

- Congressional Legislative Action:
  - February 2018: Section 40501 of the recently passed budget agreement extends the Nuclear Production Tax Credit (PTC).
    - Specifically, it permits the Secretary of Energy to allocate credits, up to 6,000 megawatts of new nuclear capacity, when the reactors are placed into service. Originally, new reactors were required to be online by December 31, 2020.The deadline change will ensure the two reactors being built at Vogtle will benefit from the PTC.
    - The 6,000 megawatt capacity limit may allow the PTC to also benefit any utility that chooses to pursue construction of a NuScale Power Small Modular Reactor, such as the plans under consideration to build a NuScale SMR at the Idaho National Laboratory by 2026.

- In January 2018, as part of the Nuclear Regulatory Commission's (NRC) new Safety Evaluation Report on the NuScale Power Small Modular Reactor, the NRC approved NuScale's "Safety Classification of Passive Nuclear Power Plant Electrical Systems" licensing report. In that report, NuScale established the bases of how a design can be safe without reliance on any safety-related electrical power.

- On January 8, 2018, FERC terminated the proceeding initiated to address Secretary Perry's Proposed Rule on Grid Reliability and Resilience Pricing and initiated a new proceeding to specifically evaluate the resilience of the bulk power system in the regions operated by regional transmission organizations (RTO) and independent system operators (ISO). In this new order, the RTO/ISOs were directed to submit information to FERC on certain resilience issues and other concerns to enable FERC to examine holistically the resilience of the bulk power system within 60 days. The additional information is expected to enable FERC to determine appropriate actions to address grid resilience. Interested entities may submit reply comments within 30 days of the due date of RTO/ISO submissions.

- Pending License Renewal Applications
  - In 2018:
    - Florida Power & Light (FP&L) will file an application for a second license renewal of its Turkey Point 3 and 4 reactors with the U.S. Nuclear Regulatory Commission. This will be the first application for second renewal period to be filed and, if granted, will allow the reactors to operate to 2052 and 2053, a total of 80 years. Throughout 2018, FP&L plans to perform upgrades to increase capacity by an estimated 40 megawatts.
    - Exelon Corporation will file a second license renewal application in 2018 for its Peach Bottom Unit 2 and Unit 3 reactors, located in Delta, Pa. Peach Bottom Unit 2 began commercial operation in July 1974, and its current license will expire in August 2033. Unit 3 began commercial operation in December 1974, and its current license will expire in July 2034.
    - Dominion will file a second license renewal for North Anna Unit 1 and 2 reactors near Mineral, VA. Unit 1's license was granted April 1978 and expires April 2038. Unit 2's license was granted August 1980 and expires August 2040.
  - In 2019:
    - Dominion will file will a second license renewal application for its Surry Power Station Unit 1 and 2 reactors in Surry, VA. Surry Power Station Unit 1 began commercial operation in December 1972, and its current license will expire in May 2032. Unit 2 began commercial operation in May 1973, and its current license will expire in January 2033.

- On February 1, 2018, in response to the concerns over the long term operations of Dominion's Millstone Power Station near Waterford, CT, the Connecticut Department of Energy & Environmental Protection and Public Utilities Regulatory Authority issued on February 1, its final *Resource Assessment, Appraisal, and Determination of Millstone Report* regarding the current and projected future viability of the Millstone nuclear generating facilities, the role of such facilities as well as others in meeting Connecticut's carbon and other emission targets, and mechanisms to achieve those targets. The report concluded that the Millstone units are critical to both Connecticut and New England in terms of fuel security and in meeting statutory greenhouse gas reduction goals. As a result of this study, Millstone will be allowed to more fairly compete in the state's clean energy market.

- On February 2, Exelon announced it has moved up the retirement date for Oyster Creek Generating Station, in Forked River, NJ, to October 2018, instead of the end of 2019, as originally planned. Oyster Creek is the oldest commercially operated nuclear power plant in America.

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- As a result of a cost recovery order issued by Michigan's Public Service Commission, Entergy announced Palisades Nuclear Power Plant, in Covert Township, Michigan, will continue operations through 2022 when its current power purchase agreement expires, rather than 2018 as originally announced in December 2016.

- FirstEnergy Nuclear Operating Corporation has indicated publically it is likely to close or sell its Ohio Davis-Besse and Perry plants as it seeks to exit the competitive power generation business which is struggling to compete with cheaper natural gas.
  - The Ohio legislature is considering a second bill, introduced in October, which values the zero-emissions plan by providing a subsidy, similar to programs in New York and Illinois, paid for by their customers.
  - Several hearings were held on the proposed bill in the Senate but it has yet to pass out of committee. A similar bill was considered in the spring but stalled. Governor Kasich indicated he does not support such legislation.
  - FirstEnergy Solutions has a roughly $100 million debt payment due on April 2, 2018. In late January 2018, Moody's Investor Services downgraded the subsidiary citing the likelihood of default.

- August 2017, the Department of Energy issued its much anticipated *Staff Report to the Secretary on Electricity Markets and Reliability*. Noting that a reliable and resilient electric grid is critical not only to our national and economic security, but also to the everyday lives of American families, Secretary Perry directed staff at the Department of Energy (DOE) to develop a report assessing the reliability and resilience of the electric grid and providing an overview of the evolution of electricity markets.

Reactor Design Certifications (DC)

By issuing a design certification, the NRC approves a nuclear power plant design, independent of an application to construct or operate a plant. A design certification is valid for 15 years from the date of issuance, but can be renewed for an additional 10 to 15 years. A Design Certification application must include enough information to show the design meets NRC's safety standards and that the design resolves any existing generic safety issues and issues that arose after specific events in the nuclear industry such as the Three Mile Island accident. Applications must closely analyze the design's appropriate response to accidents or natural events, including lessons learned from the Fukushima accident. Applications must also lay out the inspections, tests, analyses and acceptance criteria that will verify the construction of key design features. Certification reviews identify key information to consider in site-specific reviews for operating licenses. *(From NRC website)*

Three reactor designs that are being considered for future builds in the U.S. are certified, two additional designs (including a Small Modular Reactor design) are under NRC review, one is under renewal review, and 2 have been withdrawn[1].

[1]AREVA US-EPR – Submitted December 12, 2007, and docketed February 25, 2008; review suspended at the request of the applicant.
Mitsubishi Heavy Industries US-APWR – Submitted December 31, 2007 and docketed February 29, 2008; MHI has requested a deferral of the review due to their work on reactor restarts in Japan.

	VENDOR	TECHNOLOGY	STATUS
Issued	Westinghouse	AP1000	Issued: 12/30/2011
	General Electric-Hitachi	ESBWR	Issued: 11/14/2014
Renewal	General Electric-Hitachi	ABWR	Originally Issued 5/12/1997: DC Renewal Application is under review / Final Safety Evaluation Report (SER) expected 3/2018
Active DCAs	Korea Electric Power Corp	APR1400	Under Review:Final SER expected 9/2019
	NuScale Power	NuScale SMR Power Module	Under Review:Final SER expected 9/2020

Early Site Permits (ESP)

By issuing an ESP, the NRC approves one or more sites for a nuclear power facility, independent of an application for a construction permit or combined license. An ESP is valid for 10 to 20 years from the date of issuance, and can be renewed for an additional 10 to 20 years. In reviewing an ESP application, the NRC staff will address site safety issues, environmental protection issues, and plans for coping with emergencies, independent of the review of a specific nuclear plant design. During this process, the NRC notifies all stakeholders (including the public) as to how and when they may participate in the regulatory process, which may include participating in public meetings and opportunities to request a hearing on the issuance of an ESP. *(From NRC website)*

Five ESPs have been issued; one is currently under review; one was withdrawn[2]

[2]Victoria County Station, Texas (Exelon) was withdrawn from NRC review 10/2012

	SITE/LOCATION		UTILITY	TECHNOLOGY REFERENCED	STATUS
Issued	Clinton	IL	Exelon	Plant Parameter Envelope (PPE)	Issued: 3/15/2007
	Grand Gulf	MS	Entergy	PPE	Issued: 4/5/2007
	North Anna	VA	Dominion Power	PPE	Issued: 11/27/2007 Amended 1/30/2013
	Vogtle	GA	Southern	AP1000/ Westinghouse	Issued: 8/26/2009
	Salem County	NJ	PSEG	PPE	Issued: 5/5/2016
Active ESPs	Clinch River	TN	TVA	PPE	Under Review: Final Environmental Impact Statement expected 6/2019 Final SER expected 9/2019

Combined Construction and Operating Licenses (COL)

By issuing a COL, the NRC authorizes the licensee to construct and (with specified conditions) operate a nuclear power plant at a specific site, in accordance with established laws and regulations. In a COL application (COLA), NRC staff reviews the applicant's qualifications, design safety, environmental impacts, operational programs, site safety, and verification of construction with inspections, testing, analyses, and acceptance criteria. The staff conducts its review in accordance with the Atomic Energy Act, NRC regulations, and the National Environmental Policy Act. All stakeholders (including the public) are given notice as to how and when they may participate in the regulatory process, which may include participating in public meetings and opportunities to request a hearing on the issuance of a COL. Once issued, a COL is good for 40 years and can be renewed for an additional 20. *(From NRC website).* A COLA may reference a certified design and/or an early site permit, or neither.

Eighteen COLAs have been docketed by the NRC: seven (totaling 12 reactors) have received COLs; one (totaling 2 nuclear reactors) remain under active NRC review; 10 were suspended and later withdrawn[3] due to utility economic or other considerations while 4 remain in "suspended" status[4]. A Reference COL (R-COL) application has been submitted for five reactor designs; subsequent COLs (S-COLs) incorporate the corresponding R-COL application by reference, noting any site-specific departures.

[3]Suspended and Withdrawn: Bell Bend; Bellefonte 3&4 Callaway 2, Calvert Cliffs 3 , Grand Gulf 3 , Nine Mile Point 3, River Bend 3 , Victoria County 1&2 ,
[4]Remains Suspended: Shearon Harris 2&3, Comanche Peak 3&4

	SITE/LOCATION		UTILITY	REACTOR TECHNOLOGY/ NO. UNITS		STATUS
Issued	Vogtle	GA	Southern Nuclear	AP1000	2	Issued: 2/10/2012
	V.C. Summer	SC	SCE&G	AP1000	2	Issued:4/10/2012
	Fermi	MI	DTE Energy	ESBWR	1	Issued: 5/1/2015
	South Texas Project	TX	STPNOC	ABWR	2	Issued: 2/12/2016
	Levy	FL	Duke Energy	AP1000	2	Issued: 10/26/2016
	William States Lee	SC	Duke Energy	AP1000	2	Issued: 12/19/2016
	North Anna	VA	Dominion Energy	ESBWR	1	Issued: 5/31/2017
Active COLAs	Turkey Point	FL	Florida Power and Light	AP1000	2	In Review Docketed: 9/4/2009

New Plant Construction

Until recently there were four Westinghouse AP1000 reactors under construction at the Vogtle (Georgia) and VC Summer (South Carolina) sites. Their construction has been impacted by the recent Westinghouse declaration of bankruptcy. Their current status:

Vogtle

On December 21, 2017, the Georgia Public Service Commission unanimously approved the recommendation of Vogtle's co-owners to complete construction of the new units as the most economic choice for customers, while the project's owners agreed to new penalties for delays and cost increases stipulated by the PSC.

In July 2017, Georgia power took over engineering, procurement, construction, and licensing of Vogtle from Westinghouse. Toshiba, parent company to Westinghouse, agreed to pay the owners of Vogtle $3.7billion.



Vogtle Unit 3 Nuclear Island and Turbine Building; Vogtle Unit 4 Containment Vessel (Courtesy of Georgia Power/Southern Company; June 2017)

VC Summer

In January 2018, Dominion Energy proposed to buy SCANA Corporation in a $7.8 billion all-stock deal, and agreed to cut electricity bills by 5% to make up for customers being charged for the failed VC Summer nuclear construction project. The proposal be reviewed by the South Carolina Public Service Commission.

In December 2017, SCANA proposed handing over the V.C. Summer nuclear site to Santee Cooper so the project can be preserved and perhaps finished later.

In early August 2017, SCANA (55% owner) and Santee Cooper (45% owner) decided to cancel further construction of the AP1000 units at VC Summer. Toshiba, parent company to Westinghouse, agreed to pay the owners of Summer $2.2 billion, which was fully settled January 2018.

At the time of its cancellation, the project was about 65% complete. All four steam generators for Units 2 and 3 were being installed, while two of the four reactor coolant pumps for Unit 2 are on site. Units 2 and 3 were planned to come online in April 2020 and December 2020, respectively.



SCE&G Places Final Unit 2 Containment Vessel Ring; The First U.S. AP1000 Steam Generator is placed in Unit 2(Courtesy of SCE&G)

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Operating Fleet Status: Supportive Federal and State Action

Initiatives are taking place at the national and state level to ensure a more competitive market for nuclear power. For example, state action in New York and Illinois to level the playing field and include nuclear energy in their clean energy policies, has averted the closure of 5 additional power plants.

- Based on action initiated by the Department of Energy, FERC is currently collecting resilience preparedness information from the Regional Transmission Organizations/ Independent System Operators to ensure the resilience of the bulk power system.
- FERC continues to consider price formation changes
- PJM Interconnection LLC, a regional transmission organization, is considering enhancements to energy price formation to allow all resources selected for dispatch to set price (i.e., baseload units that are currently "price takers") which would more accurately reflect true costs to serve load.
- Two states (NY and IL) approved creation of "Zero Emissions Credit" to provide additional revenue to at-risk nuclear power plants;
- Ohio has considered similar legislation but progress appears to have stalled.
- New Jersey is actively considering such legislation.
- Pennsylvania's state legislature created a nuclear caucus and there is growing interest in potential state action.

- Five plants announced they were closing prior to their license expiration date but were saved due to State Action:

ORIGINALLY PROPOSED CLOSURE YEAR	SITE / LOCATION		UTILITY	LICENSE EXPIRATION (TERM)	POWER (MWe)
2017	FitzPatrick	NY	Entergy	2034 (60)	852
	Ginna	NY	Exelon	2029 (60)	582
	Clinton	IL	Exelon	2026 (40)	1065
2017-18	Nine Mile Point-1 & 2	NY	Exelon	2029 / 2046 (60)	1780
2018	Quad Cities 1 & 2	IL	Exelon	2032 (60)	1820
				Total Saved	**6,099**

Operating Fleet Status: Premature Closure

Some of the nuclear units now closing are doing so because of state policy pressure (as with California's Diablo Canyon, New Jersey's Oyster Creek, and New York's Indian Point), and some have had maintenance issues that were too costly to fix. However, most plants are closing or threatening closure because–given the economics in some regions—they have become unable to compete against primarily low-cost, gas-fired generation and, to a

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lesser extent, subsidized and mandated "variable renewable energy," such as wind- and solar-power, in a low electricity demand environment.

★ Five plants have closed prior to their license expiration date:

CLOSURE YEAR	SITE / LOCATION		UTILITY	LICENSE EXPIRATION (TERM)	POWER (MWe)
2013	Crystal River 3	FL	Duke	2016 (40)	860
	San Onofre 2 & 3	CA	SoCal Edison	2023 / 2024 (40)	2,150
	Kewaunee	WI	Dominion	2033	566
2014	Vermont Yankee	VT	Entergy	2032	620
2016	Fort Calhoun	IN	Omaha Power	2033 (60)	479
				Total Closed since 2013:	**4675**

★ Six plants have announced plans to retire prior to their license expiration date:

PENDING CLOSURE YEAR	SITE / LOCATION		UTILITY	LICENSE EXPIRATION (TERM)	POWER (MWe)
2018	Oyster Creek	NJ	Exelon	2029 (60)	610
2019	Pilgrim 1	MA	Entergy	2032 (60)	678
	Three Mile Island 1	PA	Exelon	2034 (60)	803
2020-21	Indian Point 2 & 3	NY	Entergy	2013 / 2015 (40) * renewal application under review	2,060
2022	Palisades	MI	Entergy	2031 (60)	789
2024-25	Diablo Canyon 1 & 2	CA	PG&E	2024 / 2025 (40)	2,240
				Total Pending Closures:	**6,570**

*NRC webpage: Per 10 CFR 2.109, if a licensee submits a sufficient application for renewal at least five years before expiration of its current license, the request is considered "timely" and the facility is allowed to continue to operate under its existing license until the NRC completes its review and reaches a decision on the license renewal request. Because the license renewal application remains under consideration, the utility will be allowed to continue to operate P2 and IP3 under its existing licenses, with certain modifications to its procedures and safety analyses that the utility is making to assure continued safe operation during the timely renewal period.

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Friday, September 15, 2017 6:37 AM
To: McGinnis, Edward
Subject: FW: S1 IAEA GC ITEMS (002) (002)
Attachments: S1 IAEA GC ITEMS (002) (002).docx

Categories: Green Category

b(5)

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Thursday, Sep 14, 2017, 8:14 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: FW: S1 IAEA GC ITEMS (002) (002)

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Thursday, Sep 14, 2017, 8:14 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: FW: S1 IAEA GC ITEMS (002) (002)

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Thursday, Sep 14, 2017, 8:05 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: FW: S1 IAEA GC ITEMS (002) (002)

Ed,

NNSA Equity

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Thanks for sharing,
Anne

From: McGinnis, Edward
Sent: Thursday, September 14, 2017 6:40 PM
To: Postman, Max <Max.Postman@NNSA.DOE.Gov>; Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: 810 and China in tomorrow's pre-brief

Here are the points that I was thinking. Any comments?

b(5)

NNSA Equity

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>

AMERICAN OVERSIGHT

Date: Thursday, Sep 14, 2017, 5:15 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: S1 IAEA GC ITEMS (002) (002)

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S1 IAEA GC ITEMS:

INDUSTRY:

b(5)

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b(5)

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PLUS:

b(5)

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Document 4

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Thursday, September 14, 2017 11:00 AM
To: McGinnis, Edward
Subject: S1 IAEA GC ITEMS (002)
Attachments: S1 IAEA GC ITEMS (002).docx

Categories: Green Category

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S1 IAEA GC ITEMS:

INDUSTRY:

b(5)

b(5)

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b(5)

PLUS:

b(5)

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Document 5

Greenberg, Craig E. (CONTR)

From:	McGinnis, Edward
Sent:	Wednesday, September 13, 2017 6:14 PM
To:	McGinnis, Edward
Subject:	FW: S1 IAEA GC ITEMS
Attachments:	S1 IAEA GC ITEMS.docx
Categories:	Green Category

b(5)

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Wednesday, Sep 13, 2017, 5:31 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: S1 IAEA GC ITEMS

AMERICAN OVERSIGHT

S1 IAEA GC ITEMS:

INDUSTRY:

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PLUS:

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Document 6

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Thursday, September 14, 2017 10:58 AM
To: McGinnis, Edward
Subject: S1 IAEA GC ITEMS
Attachments: S1 IAEA GC ITEMS.docx

Categories: Green Category

AMERICAN OVERSIGHT

S1 IAEA GC ITEMS:

INDUSTRY:

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AMERICAN OVERSIGHT

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PLUS:

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AMERICAN OVERSIGHT

Document 7

Greenberg, Craig E. (CONTR)

From: Lennon, Sarah
Sent: Wednesday, May 31, 2017 1:31 PM
To: McGinnis, Edward
Cc: Meikle, Grace K
Subject: S1 Toshiba TPs_NE15-31-17
Attachments: S1 Toshiba TPs_NE15-31-17.docx

Categories: Green Category

Ed, I added the new point at the end.

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Wednesday, May 31, 2017 1:57 PM
To: Wilmot, Dan
Cc: Susanne Jones (Susanne.Jones@hq.doe.gov)
Subject: FW: S1 Toshiba TPs_NE15-31-17
Attachments: S1 Toshiba TPs_NE15-31-17.docx

Categories: Green Category

Dan, per our discussion, b(5)

Best, Ed

b(5)

-----Original Message-----
From: Lennon, Sarah
Sent: Wednesday, May 31, 2017 1:31 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Meikle, Grace K <grace.meikle@inl.gov>
Subject: S1 Toshiba TPs_NE15-31-17

Ed, I added the new point at the end.

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Document 9

Greenberg, Craig E. (CONTR)

From: Wilmot, Dan
Sent: Wednesday, May 31, 2017 2:14 PM
To: McCormack, Brian
Subject: FW: S1 Toshiba TPs_NE15-31-17
Attachments: S1 Toshiba TPs_NE15-31-17.docx

Categories: Green Category

Fyi.....

-----Original Message-----
From: McGinnis, Edward
Sent: Wednesday, May 31, 2017 1:57 PM
To: Wilmot, Dan <Dan.Wilmot@hq.doe.gov>
Cc: Jones, Susanne <Susanne.Jones@hq.doe.gov>
Subject: FW: S1 Toshiba TPs_NE15-31-17

Dan, per our discussion, b(5)

Best, Ed

b(5)

-----Original Message-----
From: Lennon, Sarah
Sent: Wednesday, May 31, 2017 1:31 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Meikle, Grace K <grace.meikle@inl.gov>
Subject: S1 Toshiba TPs_NE15-31-17

Ed, I added the new point at the end.

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Wednesday, May 31, 2017 2:49 PM
To: Wilmot, Dan
Subject: RE: S1 Toshiba TPs_NE15-31-17

Categories: Green Category

Great

-----Original Message-----
From: Wilmot, Dan
Sent: Wednesday, May 31, 2017 2:42 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE: S1 Toshiba TPs_NE15-31-17

Looks good. I have sent to brian for review

-----Original Message-----
From: McGinnis, Edward
Sent: Wednesday, May 31, 2017 1:57 PM
To: Wilmot, Dan <Dan.Wilmot@hq.doe.gov>
Cc: Jones, Susanne <Susanne.Jones@hq.doe.gov>
Subject: FW: S1 Toshiba TPs_NE15-31-17

Dan, per our discussion, b(5)

Best, Ed

b(5)

-----Original Message-----
From: Lennon, Sarah
Sent: Wednesday, May 31, 2017 1:31 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Meikle, Grace K <grace.meikle@inl.gov>
Subject: S1 Toshiba TPs_NE15-31-17

Ed, I added the new point at the end.

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Lennon, Sarah
Sent: Thursday, February 23, 2017 5:40 PM
To: McGinnis, Edward
Cc: Friedel, Loren;Lennon, Sarah
Subject: S1-UAE memo DRAFT
Attachments: NE Edits 2 00 Memo UAE S1 Al Mazrouei CERA Week March 2017 v5.docx; NE edits 03 UAE SED Action Tracking v16.docx; NE edits 02 UAE Energy Cooperation Issue Paper v5.docx; NE Edits 01 Talking Points S1 UAE Al Mazrouei CERA Week v5.docx

Categories: Green Category

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Thanks,
Sarah

From: Friedel, Loren
Sent: Thursday, February 23, 2017 4:31:06 PM
To: Lennon, Sarah
Subject: NE EDITS 2017 CERA WEEK S1 MEMO AND TPS FOR POTENTIAL UAE MEETING

Sarah,

b(5)

Thanks!

Respectfully,
Loren

Loren Friedel
Foreign Affairs Specialist

Office of Bilateral, Multilateral and Commercial Cooperation
International Nuclear Energy Policy & Cooperation
Office of Nuclear Energy
U.S. Department of Energy
1000 Independence Avenue, S.W., 5A-148
Washington, D.C. 20585
Office: (202) 586-4518
Cell: b(6)
loren friedel@nuclear.energy.gov

AMERICAN OVERSIGHT

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S1 BRIEFING

EVENT

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LOGISTICS

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YOUR ROLE/CONTRIBUTION

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AMERICAN OVERSIGHT

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PROGRAM NOTES

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AMERICAN OVERSIGHT

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S1 BRIEFING

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AMERICAN OVERSIGHT

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ATTACHMENTS

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CLEARANCES

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AMERICAN OVERSIGHT

OFFICIAL USE ONLY
February 2017

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AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-000857

ACTION	START DATE (M/D/Y)	COMPLETE DATE (M/D/Y)	RESPONSIBLE ACTION OFFICER	STATUS
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AMERICAN OVERSIGHT

IA-22 Issue Paper

United States-United Arab Emirates (UAE)
Strategic Energy Dialogue (SED)
January 19, 2017

Goals

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Activities

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AMERICAN OVERSIGHT

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What's Coming Up

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AMERICAN OVERSIGHT

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Matrix

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Background of Relationship

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

S1 BRIEFING

Talking Points

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

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S1 BRIEFING

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: b(6) @ironbridgesecurity.com>
Sent: Saturday, January 28, 2017 12:17 PM
To: McGinnis, Edward
Cc: b(6) @accenture.com>
Subject: Re: Saudi Arabia

Categories: Green Category

Ed

Perfect, please let us know

Mike

On Sat, Jan 28, 2017 at 11:14 McGinnis, Edward <Edward.McGinnis@nuclear.energy.gov> wrote:

Great to talk with you both! On the 2.8GWe, I just spoke to someone who was part of a commercial entity's expression of interest just submitted to KA-CARE for work to support the 2.8 GWe procurement action, in response to the statement made last week by the minister for renewables. His and his colleagues' belief is that it is for two Korean reactors (APR1400s), though the Chinese CAP1400 should not be seen as out of the question as well. And I would imagine this could serve as a top level GWe target threshold that could also accommodate 1,000 and 1,2000 GW class reactors. An Industry guy that I am told is very plugged in is likely going to call me tomorrow from Ryad to give me more details. Will let you know what I hear.

Very best,

Ed

From: McGinnis, Edward
Sent: Saturday, January 28, 2017 9:03:18 AM
To: b(6)
Cc: b(6) @accenture.com>
Subject: RE: Saudi Arabia

Excellent!!!

From: b(6) @ironbridgesecurity.com>
Sent: Saturday, January 28, 2017 8:31:20 AM
To: McGinnis, Edward
Cc: b(6) @accenture.com>
Subject: Re: Saudi Arabia

Ed

close hold, mike

IP3 fact sheet, 9 Dec..pdf

AMERICAN OVERSIGHT

170117 IP3 MAGA Overview.pdf

--
RDML b(6) , USN (Ret)
CEO, Iron Bridge Group

Executive Assistant: b(6)
b(6) @hshanalytics.com

On Fri, Jan 27, 2017 at 8:30 PM, McGinnis, Edward <Edward.McGinnis@nuclear.energy.gov> wrote:
Sounds good, Mike. I will give you a call at 9:30am. If you are busy, no problem.

Best,

Ed

From: b(6) @ironbridgesecurity.com>
Sent: Friday, January 27, 2017 8:17:08 PM
To: b(6) @accenture.com>; McGinnis, Edward

Subject: Re: FW: Saudi Arabia

Ed

We will be working tomorrow and can call anytime. We have a mtg at 1130 but free otherwise.

Best, mike
On Fri, Jan 27, 2017 at 14:53 McGinnis, Edward <Edward.McGinnis@nuclear.energy.gov> wrote:

Great! He only mentioned the country and the serious situation the US is facing, which I very much resonated with! I have been concerned for quite some time, in fact. I myself see great opportunity for a win-win (national security and commercial nuclear). Looking forward to meeting. Also feel free at any time to call my cell if you want to loop me into any informal discussion or want to bounce anything off me. In fact, it might be a good idea if you and I chatted by phone prior to our meeting. I am around today and all weekend – except Sunday night when I am b(6)
!!

Very best,

Ed

b(6) (cell)

From: b(6) @ironbridgesecurity.com]
Sent: Friday, January 27, 2017 2:18 PM

AMERICAN OVERSIGHT

To: b(6) @accenture.com> b(6) @accenture.com>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: Re: FW: Saudi Arabia

Precisely why we need a US lead effort. Lots to discuss. Has Gen Keane provided you any details?

Mike

On Fri, Jan 27, 2017 at 1:37 PM McGinnis, Edward <Edward.McGinnis@nuclear.energy.gov> wrote:

I assume you saw this. This adds to their growing stable of bilateral agreements related to nuclear energy, including last year's ROK SMR MOU. I would imagine that

KSA will put in place bilateral nuclear MOUs and agreements for all reactor supplier countries they are considering. They are clearly interested in deploying nuclear reactors for both electricity production as well as non-electric applications (eg, desalination

and other industrial applications such as process heat for petrochemical plants and LNG production).

China, Saudi Arabia agree to build HTR

AMERICAN OVERSIGHT

China and Saudi Arabia have signed a memorandum of understanding on the construction of a high-temperature gas-cooled reactor (HTR). It

was one of 14 agreements and memoranda of understanding signed yesterday during a meeting in Riyadh of Chinese president Xi Jinping and Saudi's Custodian of the Two Holy Mosques King Salman bin Abdulaziz.

The signing of the MOU in Riyadh (Image CNEC)

The MOU for cooperation in building the high-temperature gas-cooled reactor was signed by King Abdullah City for Atomic and Renewable

Energy (KA-CARE) president Hashim bin Abdullah Yamani and China Nuclear Engineering Corporation (CNEC) chairman Wang Shu Jin. No details of the size of the plant or the project timeline were disclosed.

CNEC has been working with Tsinghua University since 2003 on the design, construction and commercialization of HTR technology. The partners

signed a new agreement in March 2014 aimed at furthering cooperation in both international and domestic marketing of the advanced reactor technology.

AMERICAN OVERSIGHT

In a statement today, CNEC said: "After 30 years of basic research, experimental reactor operation and demonstration projects, China has

now systematically mastered all the key HTR technologies."

A demonstration HTR-PM unit under construction at Shidaowan near Weihai city in China's Shandong province. That plant will initially comprise

twin HTR-PM reactor modules driving a single 210 MWe steam turbine. Construction started in late 2012 and it is scheduled to start commercial operation in late 2017.

A proposal to construct two 600 MWe HTRs at Ruijin city in China's Jiangxi province passed a preliminary feasibility review in early 2015.

The design of the Ruijin HTRs is based on the smaller Shidaowan demonstration HTR-PM. Construction of the Ruijin reactors is expected to start next year, with grid connection in 2021.

CNEC said it is actively promoting its HTR technology overseas and has already signed memoranda of understanding with Saudi Arabia, Dubai,

South Africa "and other countries and regions" to consider the construction of HTR plants.

Although Saudi Arabia's nuclear program is in its infancy, the Kingdom has plans to construct 16 nuclear power reactors over the next

20 years. A 2010 royal decree identified nuclear power as essential to help meet growing energy demand for both electricity generation and water desalination, while reducing reliance on depleting hydrocarbon resources.

Last September contracts were signed between the Korea Atomic Energy Research Institute (KAERI) and KA-CARE to support their cooperation

in developing KAERI's SMART (System-integrated Modular Advanced Reactor). This is a 330 MWt (100 MWe) pressurised water reactor with integral steam generators and advanced safety features.

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-000881

Kirsten Cutler, Ph.D.

International Security and Nonproliferation

U.S. Department of State

202-647-3342

Official

UNCLASSIFIED

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RDML b(6) , USN (Ret)
CEO, Iron Bridge Group

Executive Assistant: b(6)
b(6) @hshanalytics.com

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RDML b(6) , USN (Ret)
CEO, Iron Bridge Group

Executive Assistant: b(6)

AMERICAN OVERSIGHT

b(6) @hshanalytics.com

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

State Equity

From: McGinnis, Edward [mailto:Edward.McGinnis@Nuclear.Energy.Gov]
Sent: Friday, February 03, 2017 3:57 PM
To: Kang, Eliot
Subject: FW: Saudi Arabia

FYI and close hold. I can give you more by phone.

From: b(6) @ironbridgesecurity.com]
Sent: Saturday, January 28, 2017 8:31 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: b(6) @accenture.com> b(6) @accenture.com>
Subject: Re: Saudi Arabia

Ed

close hold, mike

IP3 fact sheet, 9 Dec..pdf

170117 IP3 MAGA Overview.pdf

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RDML b(6) , USN (Ret)
CEO, Iron Bridge Group

AMERICAN OVERSIGHT

Executive Assistant: b(6)
b(6) @hshanalytics.com

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Thursday, May 02, 2019 12:20 PM
To: McCormack, Brian;Wilmot, Dan;Jim Colgary
Cc: Varnasidis, Sophia;Webster, Allan;Park, Brent
Subject: FW: Saudi Group Will Not Be Coming in July

Just as an FYI, KSA/KACARE's planned university training-related visit to Texas A&M has been postponed due in part to personnel support needs for the LNPP FEED B process and related issues described below.

Thanks,

Ed

-----Original Message-----
From: Peddicord, Kenneth L [mailto:k-peddicord@tamu.edu]
Sent: Thursday, May 02, 2019 10:56 AM
To: Carl Churchman <churchcd@westinghouse.com>; Thomas Weir <weirtj@westinghouse.com>; johncrenshaw@tamu.edu
Cc: Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Kurwitz, Richard Cable <kurwitz@tamu.edu>
Subject: [EXTERNAL] Saudi Group Will Not Be Coming in July

Carl, Tom and John:

I spoke with Kim Pringle this morning. She indicated that the group of 10 to 25 young engineers from K.A.CARE will not be coming to the U.S. in July. This is based on a decision by their management committee that with all the activities associated with the FEED B process and the tasks facing K.A.CARE, they are holding back on all training opportunities that would take personnel away at this time. Another factor as well is the somewhat slow pace of the process. The decision making has been further hampered by some b(6)

She just not, for example, yet had a chance to visit with Zaid Al Shareef about his experiences here as part of INELS last month. I am confident that she would have received quite positive feedback about the value of the session and how it would contribute to the professional development of the young K.A.CARE engineers. That conversation might have impacted their decision making, but it hasn't taken place. I told Kim that if things developed in their thinking about these training opportunities, we would be pleased to work with them to try to organize this program at some future date. But right now the July program will not be taking place. Have Y'All heard any more on the FEED B process?

On another note, as you may be aware, Texas A&M University is in the process of developing a new Masters of Engineering degree in Nuclear Engineering in Nuclear Technology Management. Cable Kurwitz of our Department is leading this effort. John Crenshaw has also been heavily involved with the development. This will be a distance delivery degree program that we are aiming to kick off in the fall. I discussed this with Kim when we were last in Riyadh and we talked about during the INELS program. The reason I bring this up is because Dr. Kurwitz has received two inquiries from K.A.CARE expressing interest in the degree. These came from Meshari Al Juraysi and Fares Al Blouwy. Zaid Al Shareef has also inquired. Interestingly enough, they received notifications about it from the IAEA. I think this is a quite good sign that this kind of interest is coming from individuals K.A.CARE. We'll see how this develops

More soon, I hope.

Best regards,

AMERICAN OVERSIGHT

Lee

Sent from my iPhone

****
This message does not originate from a known Department of Energy email system.
Use caution if this message contains attachments, links or requests for information.

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Lennon, Sarah
Sent: Friday, March 30, 2018 1:49 PM
To: McKearin, Josh;Dobson, Natenna;Vincent, Kenneth;Richards, Andrew;Sweetnam, Glen
Cc: Pasalic, Blair;French, Matthew C.;Scott, Michelle;DL-NA-20 DNN Action Officers;Friedel, Loren;Russell, Ruby (FELLOW);Lennon, Sarah
Subject: RE: Saudi: S3 and Minister Falih at IEF - clearance request by OOB Friday, March 30
Attachments: S3 Bilat with MEIM Falih-NE.docx

Categories: Green Category, Blue Category

Josh,
Attached is NE's input, per Andrew Richards. However, this has not been approved by NE-1. Ed would like to review the complete, compiled version, with NNSA's input as well.

Thanks,
Sarah

PS please be sure to cc me on emails for memos that are sent to my NE-6 staff, as we are the POCs for these actions. Since many of my staff take AWS days and travel a lot, it helps to add me to all the emails so I can ensure a timely response. Thanks!

Sarah G. J. Lennon
Associate Deputy Assistant Secretary
for International Nuclear Energy Policy & Cooperation (NE-6)
& Office Director, NE-61

DOE/Office of Nuclear Energy
202-586-7089 (office)
b(6) *(cell)*

From: Scott, Michelle
Sent: Friday, March 30, 2018 12:55 PM
To: Russell, Ruby (FELLOW) <Ruby.Russell@nnsa.doe.gov>; McKearin, Josh <Josh.Mckearin@Hq.Doe.Gov>; DL-NA-20 DNN Action Officers <DL-NA-20DNNActionOfficers@NNSA.doe.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>; Dobson, Natenna <Natenna.Dobson@hq.doe.gov>; Vincent, Kenneth <Kenneth.Vincent@Hq.Doe.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Cc: Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Pasalic, Blair <Blair.Pasalic@hq.doe.gov>; French, Matthew C. <Matthew.French@hq.doe.gov>
Subject: RE: Saudi: S3 and Minister Falih at IEF - clearance request by OOB Friday, March 30

+ Sarah Lennon

AMERICAN OVERSIGHT

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: Russell, Ruby (FELLOW)
Sent: Friday, March 30, 2018 12:51 PM
To: McKearin, Josh <Josh.Mckearin@Hq.Doe.Gov>; DL-NA-20 DNN Action Officers <DL-NA-20DNNActionOfficers@NNSA.doe.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>; Dobson, Natenna <Natenna.Dobson@hq.doe.gov>; Vincent, Kenneth <Kenneth.Vincent@Hq.Doe.Gov>
Cc: Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Pasalic, Blair <Blair.Pasalic@hq.doe.gov>; French, Matthew C. <Matthew.French@hq.doe.gov>
Subject: RE: Saudi: S3 and Minister Falih at IEF - clearance request by OOB Friday, March 30

Hi Josh,

Please disregard my earlier email and find DNN's input attached.

Apologies for the delay!

Kind regards,

Ruby Russell
U.S. Department of Energy
National Nuclear Security Administration (NNSA)
DNN Front Office
NGFP Fellow
Tel: 202-287-1023
Cell: b(6)

From: McKearin, Josh
Sent: Wednesday, March 28, 2018 5:12 PM
To: DL-NA-20 DNN Action Officers <DL-NA-20DNNActionOfficers@NNSA.doe.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>; Dobson, Natenna <Natenna.Dobson@hq.doe.gov>; Vincent, Kenneth <Kenneth.Vincent@Hq.Doe.Gov>
Cc: Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Pasalic, Blair <Blair.Pasalic@hq.doe.gov>; French, Matthew C. <Matthew.French@hq.doe.gov>
Subject: Saudi: S3 and Minister Falih at IEF - clearance request by OOB Friday, March 30

All,

AMERICAN OVERSIGHT

b(5)

Please send us your clearances by OOB, Friday March 30, and let me know if there are any questions.

Thanks,
Josh

Josh McKearin
International Affairs
U.S. Department of Energy
O: 202-586-3149
M: b(6)

<< File: S3 Bilat with MEIM Falih.docx >>

AMERICAN OVERSIGHT

S3 BRIEFING

EVENT: **Meeting with Khalid Al-Falih, Minister of Energy, Industry, and Mineral Resources for Saudi Arabia**

b(5)

DATE:
TIME:
LOCATION:

PURPOSE:

PRESS:

SCENARIO:

PARTICIPANTS: b(5)

BACKGROUND:

AMERICAN OVERSIGHT

AMERICAN OVERSIGHT

MEETING REQUESTED BY b(5)

BRIEFING PREPARED BY b(5)

BRIEFING REVIEWED b(5)

ATTACHMENTS:
b(5)

CLEARANCES:
b(5)

AMERICAN OVERSIGHT

b(5)

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-000899

S3 BRIEFING

Attachment 1: Talking Points – Meeting with Khalid Al-Falih [Fah-luh], Minister of Energy, Industry, and Mineral Resources

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AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-000900

ATTACHMENT 2: BIOGRAPHY: Khalid A. Al-Falih [FAH-luh], Minster of Minister of Energy, Industry and Mineral Resources and Chairman of the Board of Saudi Aramco



Khalid A. Al-Falih was named Minister of Energy, Industry and Mineral Resources in May 2016. He retained his position as Chairman of the Board of Saudi Aramco.

Prior to his new appointment he had served as the Minster of Health and Chairman of the Board of Aramco since April 2015. Before he was named Minister of Health, he served as President and CEO of Aramco since January 2009.

Khalid Al-Falih joined Aramco in 1979 and gradually worked his way up through the company. b(5) who has managed large complex organizations and initiatives, including managing the reform of Aramco's health system – b(5) He served as executive vice president for Operations from 2007 through 2008. He has also served as the senior vice president of Gas Operations and Industrial Relations, and as president of Petron Corporation, a joint venture between Saudi Aramco and the Philippine National Oil Company in which Saudi Aramco held an equity stake.

Al-Falih guided the development of the Kingdom of Saudi Arabia's first natural gas strategy, and later played the leading role in negotiations with international oil companies engaged in the Kingdom's natural gas initiative. When the company formed its New Business Development organization in 2003, Al-Falih was appointed as its first head. In that role, he led the development of world-scale refining and petrochemical integration projects with leading global chemical enterprises. He has also served as chairman of the South Rub al-Khali joint venture between Shell, Total, and Saudi Aramco. Al-Falih was named to the Saudi Aramco Board of Directors in 2004.

While working for Aramco, Al-Falih earned his B.S. degree in mechanical engineering from Texas A&M University in 1982. In 1991, he received his MBA from the King Fahd University of Petroleum and Minerals (KFUPM) in Dhahran, Saudi Arabia. Khalid Al-Falih was born in 1960 in Riyadh and was raised in Dammam, Saudi Arabia. He is b(6)

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Richards, Andrew
Sent: Friday, September 07, 2018 4:03 PM
To: Peddicord, Kenneth L;Aljayoushi, Jihad
Subject: RE: Saudi Update

Categories: Green Category, Blue Category

Thank you for the email Dr. Peddicord.

Jihad, can you assist him with his travel? Thank you!

Andrew

From: Peddicord, Kenneth L [mailto:k-peddicord@tamu.edu]
Sent: Friday, September 07, 2018 11:43 AM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Aljayoushi, Jihad <aljayoj@id.doe.gov>
Cc: Peddicord, Kenneth L <k-peddicord@tamu.edu>
Subject: Fwd: Saudi Update

Dear Andrew and Jihad:

I refer to the communication below from Tom Weir. I think this is an excellent development and a strong indication that the efforts from our earlier missions to Saudi Arabia in December and January are showing positive results that will lead to opportuniteis for the U.S. As we know, an overriding priority for K.A.CARE is human capacity development, and my participation in the eariler trips was to help represent the capabilities here in the United States in the area of education and training to assure the safe and secure utilization of nuclear energy. I beleive this is paramount for the Saudi effort. I futher believe that our capabilities in the U.S. in this area are unsurpassed and cannot be matched by any other country in the world. This capability is made up by by our world-class universities, the state-of-the-art training of our industry and a broad spectrum of companies in the nuclear supply chain, and the advanced activites at our national laboratories such as INL that can contribute to developing personal for the nuclear enterprise and can be part of this international collaboration. As part of this upcoming trip, I think that it is very important for our U.S. goals that I participate in this mission and continue to carry the message of the full spectrum of human capacity development in the U.S. to support K.A.CARE as part of the KSA national nuclear program. I request support for travel to particiate in this important meeting.

Should further information be needed, I would be happy to respond.

Thank you for your consideration of this request.

Best regards,

Lee

K. L. Peddicord, Ph.D., P.E.
Director, Nuclear Power Institute

AMERICAN OVERSIGHT

Professor of Nuclear Engineering
Texas A&M University

Begin forwarded message:

From: "Weir, Thomas J." <weirtj@westinghouse.com>
Subject: Saudi Update
Date: September 6, 2018 at 2:07:16 PM CDT
To: "Peddicord, Kenneth L" <k-peddicord@tamu.edu>

Hi Lee!. Good news on Saudi.

We have been asked to attend a 1 day session on September 25th in Riyadh for K.A.CARE to present the next phase of the FEED process. They emphasize site characterization and regulatory requirements but also will discuss human capacity development. We also have the opportunity to ask questions in any area.

I am looking to take a smaller team to this meeting and would like to know if you are interested in attending. Look forward to hearing from you.

Regards,
Tom

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Richards, Andrew
Sent: Friday, September 07, 2018 9:53 AM
To: Grose, Amy E
Subject: RE: Saudi Update

Categories: Green Category, Blue Category

202-586-2909. Thanks!

From: Grose, Amy E [mailto:groseae@id.doe.gov]
Sent: Friday, September 07, 2018 9:49 AM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: Saudi Update

Good number for our merry little band to call?

From: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Sent: Friday, September 07, 2018 7:41 AM
To: Grose, Amy E <groseae@id.doe.gov>
Subject: RE: Saudi Update

Perfect.

From: Grose, Amy E [mailto:groseae@id.doe.gov]
Sent: Friday, September 07, 2018 9:33 AM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: Saudi Update

10:45 your time?

From: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Sent: Friday, September 07, 2018 6:44 AM
To: Grose, Amy E <groseae@id.doe.gov>
Cc: Aljayoushi, Jihad <Jihad.Aljayoushi@Hq.Doe.Gov>
Subject: FW: Saudi Update

Hi Amy,

Are you free to chat this morning to discuss this?

Thanks!

Andrew

From: Peddicord, Kenneth L [mailto:k-peddicord@tamu.edu]
Sent: Thursday, September 06, 2018 6:45 PM

AMERICAN OVERSIGHT

To: Aljayoushi, Jihad <aljayoj@id.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: Fwd: Saudi Update

Hi Andrew and Jihad:

This just arrived a few hours ago from Tom Weir at Westinghouse. It sounds like excellent news for Team USA. What would be the steps forward for participation? It turns out that I can make this work. I will be in Zurich at that time and would travel from there.

Thanks,

Lee

Sent from my iPhone

Begin forwarded message:

> **From:** "Weir, Thomas J." <weirtj@westinghouse.com>
> **Date:** September 6, 2018 at 2:07:16 PM CDT
> **To:** "Peddicord, Kenneth L" <k-peddicord@tamu.edu>
> **Subject: Saudi Update**
>
> Hi Lee!. Good news on Saudi.
>
> We have been asked to attend a 1 day session on September 25th in Riyadh for K.A.CARE to present the next phase of the FEED process. They emphasize site characterization and regulatory requirements but also will discuss human capacity development. We also have the opportunity to ask questions in any area.
>
> I am looking to take a smaller team to this meeting and would like to know if you are interested in attending. Look forward to hearing from you.
>
> Regards,
> Tom

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Greenberg, Craig E. (CONTR)

From: Grose, Amy E <groseae@id.doe.gov>
Sent: Friday, September 07, 2018 8:59 AM
To: Richards, Andrew
Subject: RE: Saudi Update

Categories: Green Category, Blue Category

Hi Andrew,
Yes, stand by for a few minutes while I see when Jihad gets in...

From: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Sent: Friday, September 07, 2018 6:44 AM
To: Grose, Amy E <groseae@id.doe.gov>
Cc: Aljayoushi, Jihad <Jihad.Aljayoushi@Hq.Doe.Gov>
Subject: FW: Saudi Update

Hi Amy,

Are you free to chat this morning to discuss this?

Thanks!

Andrew

From: Peddicord, Kenneth L [mailto:k-peddicord@tamu.edu]
Sent: Thursday, September 06, 2018 6:45 PM
To: Aljayoushi, Jihad <aljayoj@id.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: Fwd: Saudi Update

Hi Andrew and Jihad:

This just arrived a few hours ago from Tom Weir at Westinghouse. It sounds like excellent news for Team USA. What would be the steps forward for participation? It turns out that I can make this work. I will be in Zurich at that time and would travel from there.

Thanks,

Lee

Sent from my iPhone

Begin forwarded message:

> **From:** "Weir, Thomas J." <weirtj@westinghouse.com>
> **Date:** September 6, 2018 at 2:07:16 PM CDT

AMERICAN OVERSIGHT

To: "Peddicord, Kenneth L" <k-peddicord@tamu.edu>
Subject: Saudi Update

Hi Lee!. Good news on Saudi.

We have been asked to attend a 1 day session on September 25th in Riyadh for K.A.CARE to present the next phase of the FEED process. They emphasize site characterization and regulatory requirements but also will discuss human capacity development. We also have the opportunity to ask questions in any area.

I am looking to take a smaller team to this meeting and would like to know if you are interested in attending. Look forward to hearing from you.

Regards,
Tom

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Greenberg, Craig E. (CONTR)

Trade Equity

Get Outlook for iOS

From: Scott, Michelle <michelle.scott@nuclear.energy.gov>
Sent: Friday, September 7, 2018 7:47 PM
To: McGinnis, Edward; Ian Steff; Jonathan Chesebro; Devin Horne; Cameron Dorsey
Cc: Richards, Andrew; Lennon, Sarah
Subject: FW: Saudi MOU meeting

Ed, Ian, Jon, Devin and Cameron,

Please see WEC's follow-up email on USG support for the Sept 25th meeting.

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
b(6) ***(cell)***

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Friday, September 07, 2018 1:39 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: Saudi MOU meeting

Michelle, see that Tom asks about other USG participants.

From: Weir, Thomas J.
Sent: Friday, September 07, 2018 1:38 PM

AMERICAN OVERSIGHT

To: Lopatto, Jeanne T.
Subject: Saudi MOU meeting

Jeanne-
We are cleared by K.A.CARE to have our broader team at the meeting. It would be great if we can get DOE, Commerce, ExIM) and NEI to attend. Meeting is on the 25th at 9AM K.A.CARE office in Riyadh. We are staying at the Riyadh Marriott and arriving Sunday night for a Monday pre-meeting. I do not believe that USG or NEI needs to be there for our Monday pre-meeting but they are welcome to attend.

Please let me know what I need to do to help this.
Thanks, tom

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Greenberg, Craig E. (CONTR)

From: Richards, Andrew
Sent: Friday, May 03, 2019 12:05 PM
To: Oehlbert, Sean;Strangis, Katie
Subject: RE: Saudi Group Will Not Be Coming in July

Categories: Green Category, Blue Category

Thanks! Below, Ed forwarded it to Brian, Dan, Colgary, S3's office, and Dr. Park.

NNSA Equity

-----Original Message-----
From: Richards, Andrew
Sent: Friday, May 03, 2019 10:29 AM
To: Oehlbert, Sean <sean.oehlbert@nnsa.doe.gov>; Strangis, Katie <katie.strangis@nnsa.doe.gov>
Subject: FW: Saudi Group Will Not Be Coming in July

FYSA

-----Original Message-----
From: McGinnis, Edward
Sent: Thursday, May 02, 2019 12:21 PM
To: Richards, Andrew <andrew.richards@nuclear.energy.gov>; Scott, Michelle <michelle.scott@nuclear.energy.gov>
Subject: FW: Saudi Group Will Not Be Coming in July

fyi

-----Original Message-----
From: McGinnis, Edward
Sent: Thursday, May 02, 2019 12:20 PM

AMERICAN OVERSIGHT

To: McCormack, Brian <Brian.Mccormack@hq.doe.gov>; Wilmot, Dan <Dan.Wilmot@hq.doe.gov>; Jim Colgary <james.colgary@hg.doe.gov>
Cc: Varnasidis, Sophia <Sophia.Varnasidis@hq.doe.gov>; Allan Webster (Allan.Webster@hq.doe.gov) <Allan.Webster@hq.doe.gov>; Park, Brent <Brent.Park@nnsa.doe.gov>
Subject: FW: Saudi Group Will Not Be Coming in July

Just as an FYI, KSA/KACARE's planned university training-related visit to Texas A&M has been postponed due in part to personnel support needs for the LNPP FEED B process and related issues described below.

Thanks,

Ed

-----Original Message-----
From: Peddicord, Kenneth L [mailto:k-peddicord@tamu.edu]
Sent: Thursday, May 02, 2019 10:56 AM
To: Carl Churchman <churchcd@westinghouse.com>; Thomas Weir <weirtj@westinghouse.com>; johncrenshaw@tamu.edu
Cc: Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Kurwitz, Richard Cable <kurwitz@tamu.edu>
Subject: [EXTERNAL] Saudi Group Will Not Be Coming in July

Carl, Tom and John:

I spoke with Kim Pringle this morning. She indicated that the group of 10 to 25 young engineers from K.A.CARE will not be coming to the U.S. in July. This is based on a decision by their management committee that with all the activities associated with the FEED B process and the tasks facing K.A.CARE, they are holding back on all training opportunities that would take personnel away at this time. Another factor as well is the somewhat slow pace of the process. The decision making has been further hampered by some b(6)
b(6) She just not, for example, yet had a chance to visit with Zaid Al Shareef about his experiences here as part of INELS last month. I am confident that she would have received quite positive feedback about the value of the session and how it would contribute to the professional development of the young K.A.CARE engineers. That conversation might have impacted their decision making, but it hasn't taken place. I told Kim that if things developed in their thinking about these training opportunities, we would be pleased to work with them to try to organize this program at some future date. But right now the July program will not be taking place. Have Y'All heard any more on the FEED B process?

On another note, as you may be aware, Texas A&M University is in the process of developing a new Masters of Engineering degree in Nuclear Engineering in Nuclear Technology Management. Cable Kurwitz of our Department is leading this effort. John Crenshaw has also been heavily involved with the development. This will be a distance delivery degree program that we are aiming to kick off in the fall. I discussed this with Kim when we were last in Riyadh and we talked about during the INELS program. The reason I bring this up is because Dr. Kurwitz has received two inquiries from K.A.CARE expressing interest in the degree. These came from Meshari Al Juraysi and Fares Al Blouwy. Zaid Al Shareef has also inquired. Interestingly enough, they received notifications about it from the IAEA. I think this is a quite good sign that this kind of interest is coming from individuals K.A.CARE. We'll see how this develops

More soon, I hope.

Best regards,

Lee

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Sent from my iPhone

****

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Use caution if this message contains attachments, links or requests for information.

****

Greenberg, Craig E. (CONTR)

NNSA Equity

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b(5) OFFICIAL USE ONLY

S1 BRIEFING

EVENT: **Meeting with Kingdom of Saudi Arabia (KSA) (Person TBD), 2018 IAEA Ministerial**

DATE: TBD
TIME: TBD
LOCATION: TBD

PURPOSE: TBD

PRESS: b(5)

SCENARIO: TBD

PARTICIPANTS:* b(5)
•

b(5)
•

BACKGROUND: b(5)

AMERICAN OVERSIGHT

b(5)
b(5)

AMERICAN OVERSIGHT

BRIEFING PREPARED BY b(5)
BRIEFING REVIEWED BY b(5)

ATTACHMENTS:

- b(5)
-

AMERICAN OVERSIGHT

b(5)

ATTACHMENT 1: SUGGESTED TALKING POINTS

General

b(5)

b(5)

S1 BRIEFING

AMERICAN OVERSIGHT

ATTACHMENT 2: Biographies for Minister Khalid Al-Falih and

Khalid A. Al-Falih, Minster, Ministry of Energy, Industry and Mineral Resources (MEIM) and Chairman of the Board of Saudi Aramco



Engineer Khalid A. Al-Falih was named Minister of Energy, Industry and Mineral Resources in May 2016. He retained his position as Chairman of the Board of Saudi Aramco.

Prior to his new appointment he had served as the Minster of Health and Chairman of the Board of Aramco since April 2015. Before he was named Minister of Health, he served as President and CEO of Aramco since January 2009.

Khalid Al-Falih joined Aramco in 1979 and gradually worked his way up through the company. b(5) who has managed large complex organizations and initiatives, including managing the reform of Aramco's health system – b(5) He served as executive vice president for Operations from 2007 through 2008. He has also served as the senior vice president of Gas Operations and Industrial Relations, and as president of Petron Corporation, a joint venture between Saudi Aramco and the Philippine National Oil Company in which Saudi Aramco held an equity stake.

Al-Falih guided the development of the Kingdom of Saudi Arabia's first natural gas strategy, and later played the leading role in negotiations with international oil companies engaged in the Kingdom's natural gas initiative. When the company formed its New Business Development organization in 2003, Al-Falih was appointed as its first head. In that role, he led the development of world-scale refining and petrochemical integration projects with leading global chemical enterprises. He has also served as chairman of the South Rub al-Khali joint venture between Shell, Total, and Saudi Aramco. Al-Falih was named to the Saudi Aramco Board of Directors in 2004.

While working for Aramco, Al-Falih earned his B.S. degree in mechanical engineering from Texas A&M University in 1982. In 1991, he received his MBA from the King Fahd University of Petroleum and Minerals (KFUPM) in Dhahran, Saudi Arabia. Khalid Al-Falih was born in 1960 in Riyadh and was raised in Dammam, Saudi Arabia. Al-Falih currently resides in Dhahran. He is b(6)

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b(5)

Dr. Khalid Al-Sultan, President, King Abdullah City for Atomic & Renewable Energy (KACARE), Rector, King Fahd University of Petroleum and Minerals (KFUPM)



Dr. Khaled al-Sultan has been appointed as the president of KACARE (Minister's Rank) by a royal decree issued on June 2, 2018.

He is the chairman at Saudi Electricity Company, Rector at King Fahd University of Petroleum and Minerals (KFUPM) and board member at Saudi Aramco.

He has over 25 years of professional experience where he occupied various roles including acting Director for Hail University, Deputy Minister for Educational Affairs at the Ministry of Higher Education, and others.

Dr. Khalid S. Al-Sultan was the fourth Rector of King Fahd University for Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia, and the first to have graduated from the institution to hold this position. He also has served as Deputy Minister for Educational Affairs.

Dr. Al-Sultan received a Ph.D. in Industrial and Operations Engineering (Operations Research) and a M.S. in Applied Mathematics from the University of Michigan, Ann Arbor, in 1990. Prior to that, he obtained a M.S. in Systems Engineering from KFUPM in January 1987, and a B.S. (with highest honors) in Systems Engineering, KFUPM, in January 1985.

Dr. Al-Sultan was the Dean of the College of Computer Science & Engineering (September 1996–August 1998) and Chairman of the Systems Engineering Department (June 1993–August 1996) at KFUPM. Dr. Al-Sultan has served on the Editorial Boards of several international journals, has published 40 papers in refereed journals, co-authored one book and four book chapters, and has attended numerous international conferences. He is a member of a number of international professional organizations and consultant for several government and private industrial institutions. Dr. Al-Sultan is now a member of Saudi Aramco Board of Directors.

In 2005, Dr. Al-Sultan received the "Middle East CEO of the Year 2005" award.

AMERICAN OVERSIGHT

Document 8

Greenberg, Craig E. (CONTR)

From: Scott, Michelle
Sent: Thursday, July 05, 2018 1:30 PM
To: McGinnis, Edward
Cc: Richards, Andrew
Subject: FW: S. Korea Seeks Partnership with US, UAE to Win Saudi Arabia's Power Plant Orders
Attachments: 2018-07-05 Status of US Commercial Engagement with Kingdom of Saudi Arabia.docx

Ed,

Attached is the requested status of US commercial and government engagement with KSA to date. Also, below is an article about ROK seeking US cooperation to bolster their chances to win the KSA LNPP bid.

Michelle

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
b(6) ***(cell)***

From: JONES, Ted [mailto:thj@nei.org]
Sent: Thursday, July 05, 2018 10:59 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: S. Korea Seeks Partnership with US, UAE to Win Saudi Arabia's Power Plant Orders

S. Korea Seeks Partnership with US, UAE to Win Saudi Arabia's Power Plant Orders

Write : 2018-07-03 15:29:53 Update : 2018-07-03 18:02:15

South Korea will seek strategic partnerships with the U.S. and the United Arab Emirates (UAE) in order to boost its chances of winning the bid to build nuclear power plants in Saudi Arabia.

According to Democratic Party lawmaker Kwon Chil-seung Tuesday, the Ministry of Trade, Industry and Energy and the Korea Electric Power Corporation (KEPCO) recently discussed ways to pursue such projects in Saudi Arabia.

While the Energy Ministry plans to discuss boosting cooperation with the U.S., KEPCO and the Korea Hydro and Nuclear Power Company will seek strategic cooperation with related U.S. industries.

South Korea will also jointly pursue Saudi Arabia's power plant projects with the UAE, based on KEPCO's experience of completing the construction of the UAE's Barakah nuclear power plant.

As part of efforts to promote the excellence of South Korean power plants, KEPCO and other related industries will hold a roadshow in Saudi Arabia in the second half of the year.

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Status of US Commercial Engagement with Kingdom of Saudi Arabia (KSA)

Large Nuclear Power Project (LNPP)

b(5)

Nuclear Program Management Office (PMO) for Saudi National Atomic Energy Project (SNAEP)

b(5)

LNPP Site Characterization

b(5)

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Other Commercial Engagement

b(5)

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Document 9

Greenberg, Craig E. (CONTR)

From:	David Blee <david.blee@usnic.org>
Sent:	Wednesday, December 13, 2017 9:09 AM
To:	David Blee
Subject:	Reminder -- U.S. Saudi AR Session Prep (2 pm ET today) +1 605-475-4700 Access Code: 301311#

As a reminder we will hold an informal Session A participants chat at 2 pm today, Wednesday, December 13, now that the agenda and manifest is clear for the "Advanced Reactor Technologies" discussants in conjunction with the information conveyed over the past couple of days on the U.S.-Saudi Arabia Roundtable slated for this weekend. The list of participants for the "Session A" Advanced Reactor Technologies session is below.

Devin Horne of the U.S. Department of Commerce, who is integrally involved in the Roundtable planning, will join us at the top of the hour to give us a final snap shot on the Roundtable setup and logistics – and answer any swirling questions on the presentations. We also expect Michelle Scott from the Department of Energy, who is a key point for the Mission. We will also discuss useful messaging that can be carried by the Council on behalf of the group in our presentation.

Call coordinates are:

Wednesday, December 13 (2 pm ET)
b(6)

Access Code: b(6) **# (don't forget to press the pound key)**

Thanks to all who have responded in a large majority (regrets duly noted). I look forward to chatting with you – and to seeing you in Riyadh.

David

David Blee
US Nuclear Infrastructure Council
Direct 202-320-4971

U.S. Industry Participation by Session

Session A: Advanced Reactor Technologies

1) Advanced Reactor Concepts
2) Bechtel Power Corporation**++
3) Elysium Industries USA
4) GE-Hitachi Nuclear Energy**++
5) General Atomics
6) NuScale Power++
7) SMR, LLC / Holtec International
8) Terrestrial Energy USA++
9) U.S. Nuclear Infrastructure Council (USNIC)
10) Westinghouse Electric Company**++
11) X Energy++

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AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

State Equity

State Equity

From: Lennon, Sarah [mailto:Sarah.Lennon@Nuclear.Energy.gov]
Sent: Wednesday, October 25, 2017 5:10 PM
To: Cutler, Kirsten B; Jonathan Chesebro; Burkart, Alex R; Devin Horne
Cc: Scott, Michelle
Subject: RE: Potential Additional Bilats for ED at the IAEA UAE Ministerial - URGENT!!

Super, thanks Kirsten. Very helpful.
b(5)

Best,
Sarah

State Equity

AMERICAN OVERSIGHT

State Equity

From: Lennon, Sarah [mailto:Sarah.Lennon@Nuclear.Energy.gov]
Sent: Wednesday, October 25, 2017 4:42 PM
To: Jonathan Chesebro; Cutler, Kirsten B; Burkart, Alex R; Devin Horne
Cc: Scott, Michelle
Subject: RE: Potential Additional Bilats for ED at the IAEA UAE Ministerial - URGENT!!

Thanks Jon!

Trade Equity

AMERICAN OVERSIGHT

Trade Equity

From: Lennon, Sarah [mailto:Sarah.Lennon@Nuclear.Energy.gov]
Sent: Wednesday, October 25, 2017 4:24 PM
To: Kirsten Cutler; Burkart, Alex R; Jonathan Chesebro; Devin Horne
Cc: Scott, Michelle; Lennon, Sarah
Subject: FW: Potential Additional Bilats for ED at the IAEA UAE Ministerial - URGENT!!

State and Commerce colleagues,
Please see the email below that we just got regarding some new ideas Ed has for possible bilats next week.
He is seeking your thoughts and suggestions as to whether he should try to have these meetings. I know this is late/last minute, but would greatly appreciate your thoughts as quickly as is humanly possible.

Thanks, (and sorry…)
Sarah

From: Richards, Andrew
Sent: Wednesday, October 25, 2017 4:20 PM
To: Duskas, Andrea <DuskasAC@state.gov<mailto:DuskasAC@state.gov>>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov<mailto:Sarah.Lennon@Nuclear.Energy.gov>>
Cc: Benahmed, Farah (CONTR) <Farah.Benahmed@nuclear.energy.gov<mailto:Farah.Benahmed@nuclear.energy.gov>>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov<mailto:MICHELLE.SCOTT@nuclear.energy.gov>>; Bisconti, Giulia <Giulia.Bisconti@nuclear.energy.gov<mailto:Giulia.Bisconti@nuclear.energy.gov>>
Subject: Potential Additional Bilats at the IAEA UAE Ministerial - Revised

(I've revised the email below to add b(5))

Hi Andrea and Sarah,

Ed just reviewed the list of attendees for the IAEA Ministerial and had a few more possible requests for bilats.

I understand that we're only a few days out and some of these may be difficult to schedule, but let's just hope for the best.

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b(5)

The countries he is interested in are:

b(5)

AMERICAN OVERSIGHT

b(5)

Email, call, or text me any questions. Thank you all.

Andrew

AMERICAN OVERSIGHT

Document 11

Greenberg, Craig E. (CONTR)

From: Richards, Andrew
Sent: Thursday, June 21, 2018 8:43 AM
To: McGinnis, Edward
Subject: Part 810 Concurrence
Attachments: NNSA Equity .docx; NNSA Equity .pdf; NNSA Equity .pdf; NNSA Equity .pdf; NNSA Equity .pdf; NNSA Equity .docx; NNSA Equity .docx

Good morning Ed,

I have one action I'd like to run by you.

b(5)

Thank you much!

Andrew

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

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Document 12

Greenberg, Craig E. (CONTR)

From: Nelson, Cynthia
Sent: Tuesday, August 14, 2018 10:14 AM
To: Richards, Andrew
Subject: Part 810 - NNSA Equity to Saudi Arabia
Attachments: NNSA Equity .docx; NNSA Equity .docx; NNSA Equity .docx

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Greenberg, Craig E. (CONTR)

From: Richards, Andrew
Sent: Monday, February 11, 2019 1:57 PM
To: Lennon, Sarah
Subject: RE: para on RF-PRC for S1 2-11-19

Perfect. Thanks!

-----Original Message-----
From: Lennon, Sarah
Sent: Monday, February 11, 2019 1:56 PM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: para on RF-PRC for S1 2-11-19

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b(5)

Sarah G. J. Lennon
Associate Deputy Assistant Secretary
for International Nuclear Energy Policy & Cooperation (NE-6)
& Office Director, NE-61

DOE/Office of Nuclear Energy
202-586-7089 (office)
b(6) (cell)

-----Original Message-----
From: Richards, Andrew
Sent: Monday, February 11, 2019 1:52 PM
To: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: para on RF-PRC for S1 2-11-19

b(5)

-----Original Message-----
From: Lennon, Sarah
Sent: Monday, February 11, 2019 1:48 PM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: para on RF-PRC for S1 2-11-19

b(5)

Sarah G. J. Lennon
Associate Deputy Assistant Secretary
for International Nuclear Energy Policy & Cooperation (NE-6)
& Office Director, NE-61

DOE/Office of Nuclear Energy
202-586-7089 (office)
b(6) (cell)

-----Original Message-----
From: Richards, Andrew
Sent: Monday, February 11, 2019 1:47 PM
To: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: para on RF-PRC for S1 2-11-19

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Perfect! Where's it from?

-----Original Message-----
From: Lennon, Sarah
Sent: Monday, February 11, 2019 1:46 PM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: para on RF-PRC for S1 2-11-19

Is this close to what you're looking for?

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Document 14

Greenberg, Craig E. (CONTR)

From:	Scott, Michelle
Sent:	Wednesday, March 21, 2018 9:01 AM
To:	Richards, Andrew
Subject:	FW: NEI Invitation to Participate in US Commercial Nuclear Trade Mission to Saudi Arabia
Attachments:	NEI Invitation to Participate in US Commercial Nuclear Trade Mission to KSA - PDAS McGinnis.pdf

Fyi.

Andrew,

Let me know if you need anything else for justification to include in Ed's travel package.

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: JONES, Ted [mailto:thj@nei.org]
Sent: Tuesday, March 20, 2018 3:34 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Jonathan Chesebro <Jonathan.Chesebro@trade.gov>; Devin Horne <devin.horne@trade.gov>; LIPMAN, Daniel <dsl@nei.org>; ESPINOSA, Krista <kme@nei.org>
Subject: NEI Invitation to Participate in US Commercial Nuclear Trade Mission to Saudi Arabia

Dear Ed,

Please see attached a letter from NEI inviting your participation in the upcoming U.S. Commercial Nuclear Trade Mission to Saudi Arabia. More information about the mission is available here. If you have questions, please don't hesitate to contact me.

Regards,

Ted

AMERICAN OVERSIGHT

Ted Jones
Nuclear Energy Institute
1201 F Street NW
Washington, D.C. 20004
p: 202.739.8169
m: b(6)
twitter: @b(6)

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Sent through www.intermedia com

AMERICAN OVERSIGHT

DANIEL S. LIPMAN
Vice President, Suppliers and International Programs
1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8115
dsl@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

March 20, 2018

Mr. Edward McGinnis
Principal Deputy Assistant Secretary
U.S. Department of Energy Office of Nuclear Energy
1000 Independence Ave SW
Washington, DC 20585

Subject: U.S. Department of Energy Leadership for U.S. Nuclear Industry in Saudi Arabia

Dear Mr. McGinnis:

It is my pleasure to request you to participate in the U.S. nuclear executive trade mission to the Kingdom of Saudi Arabia. The Nuclear Energy Institute (NEI), with certification from the U.S. Department of Commerce and U.S. Saudi Arabian Business Council, and in partnership with the King Abdullah City for Renewable and Atomic Energy (K.A.CARE), will host the mission in Riyadh and Dhahran on April 23-25.

The nascent Saudi nuclear energy sector represents an $80 billion commercial opportunity for U.S. industry and the U.S. Department of Energy has been instrumental in opening it for U.S. competition. But for the Department's leadership, U.S. industry would not have been invited to participate in the ongoing competition to supply Saudi Arabia's initial two large nuclear plants. As a result of those efforts, we are hopeful that the Westinghouse-led U.S. consortium will be among the two or three finalists selected in the coming month, and that other U.S. nuclear suppliers will be enabled to compete for other business in the sector.

Given the role of you and the Department in creating this opportunity, we believe it would be most appropriate for you to participate in our executive delegation's visit to Saudi Arabia. Strong U.S. Government support for bilateral nuclear cooperation and U.S. supply will be vital to U.S. success as the commercial dialogue moves toward a final selection. And the stakes are vast – billions in U.S. exports, tens of thousands of U.S. jobs, and decades of U.S. influence on the Saudi nuclear energy program.

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We deeply appreciate your leadership and support for the U.S. nuclear industry in Saudi Arabia and we would be pleased to discuss this invitation in greater detail. Ted Jones, NEI Director for Supplier Programs, will be in touch with you about this request and if you have any questions in the meantime, please do not hesitate to contact him at b(6) or thj@nei.org.

Sincerely,

Daniel S. Lipman

Daniel S. Lipman

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Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Tuesday, March 20, 2018 4:45 PM
To: Varnasidis, Sophia;Cade, Steven
Cc: Richards, Andrew
Subject: RE: NEI Invitation to Participate in US Commercial Nuclear Trade Mission to Saudi Arabia

Sounds good. Thanks, Sophia.

Ed

From: Varnasidis, Sophia
Sent: Tuesday, March 20, 2018 4:31 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Cade, Steven <Steven.Cade@hq.doe.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: NEI Invitation to Participate in US Commercial Nuclear Trade Mission to Saudi Arabia

Thanks Ed, we'll mention it to Mark and then at the Dash-1 meeting tomorrow you can talk to him about it further and answer any questions he may have.

From: McGinnis, Edward
Sent: Tuesday, March 20, 2018 4:03 PM
To: Varnasidis, Sophia <Sophia.Varnasidis@hq.doe.gov>; Cade, Steven <Steven.Cade@hq.doe.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: NEI Invitation to Participate in US Commercial Nuclear Trade Mission to Saudi Arabia

b(5)

Very best,

Ed

From: JONES, Ted [mailto:thj@nei.org]
Sent: Tuesday, March 20, 2018 3:34 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Jonathan Chesebro <Jonathan.Chesebro@trade.gov>;

AMERICAN OVERSIGHT

Devin Horne <devin.horne@trade.gov>; LIPMAN, Daniel <dsl@nei.org>; ESPINOSA, Krista <kme@nei.org>
Subject: NEI Invitation to Participate in US Commercial Nuclear Trade Mission to Saudi Arabia

Dear Ed,

Please see attached a letter from NEI inviting your participation in the upcoming U.S. Commercial Nuclear Trade Mission to Saudi Arabia. More information about the mission is available here. If you have questions, please don't hesitate to contact me.

Regards,

Ted

Ted Jones
Nuclear Energy Institute
1201 F Street NW
Washington, D.C. 20004
p: 202.739.8169
m: b(6)
twitter: @b(6)



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Sent through www.intermedia com

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Greenberg, Craig E. (CONTR)

From: Friedel, Loren
Sent: Monday, October 23, 2017 5:33 PM
To: Doherty, Julie
Cc: Lennon, Sarah;Mcgregor, Caroline;Bisconti, Giulia;Richards, Andrew;Milton, Ingrid
Subject: NE INPUT: UAE S1 Minister Al Mazrouei and SED Meeting Memo
Attachments: 04 Memo UAE Al Mazrouei bilateral meeting v3 (002)_lf_gb.docx; 04A TPs UAE Al Mazrouei bilateral meeting v3_lf_gb.docx

Dear Julie,

b(5)

Thank you!

Respectfully,
Loren

-----Original Message-----
From: Doherty, Julie
Sent: Monday, October 16, 2017 3:20 PM
To: Sandoli, Robert <Robert.Sandoli@ee.doe.gov>; Reichhardt, Mark <Mark.Reichhardt@ee.doe.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>; Marlay, Robert <Robert.Marlay@hq.doe.gov>; Clapper, Maureen <MAUREEN.CLAPPER@hq.doe.gov>; DL-NA-20 DNN Action Officers <DL-NA-20DNNActionOfficers@NNSA.doe.gov>; Smouse, Scott (HQ) <Scott.Smouse@Hq.Doe.Gov>; Wong, Adam <Adam.Wong@Hq.Doe.Gov>; Halpern, Rachel <Rachel.Halpern@hq.doe.gov>
Cc: Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>; Pasalic, Blair <Blair.Pasalic@hq.doe.gov>; Clarke, Denise <Denise.Clarke@hq.doe.gov>; Stern, Adam B <SternAB@state.gov>; Favors, T'Errance E <FavorsTE@state.gov>; Hunnicutt, Travis A <HunnicuttTA@state.gov>; Greenberg, Raymond F Jr <Raymond.GreenbergJr@nnsa.doe.gov>
Subject: For review by COB on 10/23: UAE S1 Minister Al Mazrouei and SED Meeting Memo

Dear all:

b(5)

Kind regards,

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Julie

P.S. b(5)

P.P.S. b(5)

Julie P. Doherty-Kowalski
Senior Advisor and DOE Lead for the United Arab Emirates, Power Africa Working Group,
Kenya, Rwanda, and the International Energy Agency's Standing Group on Global Energy Dialogue
Office of African and Middle Eastern Affairs, Office of International Affairs
U.S. Department of Energy (DOE)
1000 Independence Ave., SW IA-22
Washington, DC 20585
Tel. 202-586-3335
iPhone: b(6)
Email: julie.doherty@hq.doe.gov

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December 2017

S1 BRIEFING

Meeting with Minister Suhail Al Mazrouei (Minister Ahl-Mahz-Roo-Ee), Minister of Energy of the United Arab Emirates (UAE)

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DATE:
TIME:

LOCATION:

PURPOSE: b(5)

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PRESS: b(5)

LOGISTICS:

ATTENDEES:

BACKGROUND:

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S1 BRIEFING

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MEETING REQUESTED BY: b(5)

ATTACHMENTS:

1. b(5)
2.
3.
4.

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S1 BRIEFING

BRIEFING PREPARED BY: Julie Doherty-Kowalski (IA-22)

BRIEFING REVIEWED BY:

IA-1:
IA-22:
IA-40:
EERE:
FE-262:
NE:
NA-20:
State:

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December 2017

S1 BRIEFING

Meeting with Minister Suhail Al Mazrouei, Minister of Energy of the United Arab Emirates (UAE)

Talking Points

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Greenberg, Craig E. (CONTR)

From: Richards, Andrew
Sent: Tuesday, October 23, 2018 5:43 PM
To: Budd, Hunter
Subject: RE: Meeting with Under Secretary Menezes (DOE)

Will do!

-----Original Message-----
From: Budd, Hunter
Sent: Tuesday, October 23, 2018 3:33 PM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: Meeting with Under Secretary Menezes (DOE)

Can NE please prepare briefing materials for S3's meeting with Westinghouse?

-----Original Message-----
From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Tuesday, October 23, 2018 3:30 PM
To: Sanford, Jessica L. <Jessica.Sanford@hq.doe.gov>
Subject: [EXTERNAL] RE: Meeting with Under Secretary Menezes (DOE)

Hi Jessica, I have no read ahead documents to send to you, This meeting came at the request of the Undersecretary for a briefing on the construction issues at the new reactors in China versus the construction problems at the US sites. Mr. Durham will brief on these topics but he will do so without any written material. He will also give an update on our efforts in the India and Saudi markets.

As an aside, we are coming to the building for an earlier meeting with A.S. Ted Garrish so we will be in the building for a 10 a.m. meeting. I am assuming that our access to the building for the 10 a.m. meeting will be done via Ted Garrish's office and we will not need a separate badging for the 1pm appointment, assuming we don't leave the building. Is that accurate? Thanks Jeanne.

-----Original Message-----
From: Sanford, Jessica L. [mailto:Jessica.Sanford@hq.doe.gov]
Sent: Tuesday, October 23, 2018 3:24 PM
To: Lopatto, Jeanne T.
Subject: RE: Meeting with Under Secretary Menezes (DOE)

Hi Jeanne,
I hope you are doing well. We are looking forward to the meeting on Thursday. I wanted to see if it would be possible to get a copy of any read ahead materials for Thursday's meeting? Thank you so much.

-Jessica

-----Original Message-----
From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Tuesday, October 16, 2018 12:53 PM
To: Sanford, Jessica L. <Jessica.Sanford@hq.doe.gov>
Subject: [EXTERNAL] RE: Meeting with Under Secretary Menezes (DOE)

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Jessica, that is great we are confirmed. Jeanne.

-----Original Message-----
From: Sanford, Jessica L. [mailto:Jessica.Sanford@hq.doe.gov]
Sent: Tuesday, October 16, 2018 12:48 PM
To: Lopatto, Jeanne T.
Subject: RE: Meeting with Under Secretary Menezes (DOE)

Hi Jeanne
Please accept my apologies for the delay in responding. 1PM on Thursday Oct. 25th works great for the Under Secretary's schedule, if that time still works well for your schedule? I will have visitor badges reserved for yourself and Mr. Durham upon arrival. If there is anything I can do to be of assistance, please let me know. Thank you so much.

-Jessica

Jessica Sanford
Scheduler
Office of the Under Secretary of Energy
U.S. Department of Energy
Phone: 202-287-5451

-----Original Message-----
From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Tuesday, October 09, 2018 2:53 PM
To: Sanford, Jessica L. <Jessica.Sanford@hq.doe.gov>
Subject: [EXTERNAL] RE: Meeting with Under Secretary Menezes (DOE)

Jessica, I am holding Oct 25 at 1pm on my and David's schedule for the meeting. Thank you. Jeanne.

-----Original Message-----
From: Sanford, Jessica L. [mailto:Jessica.Sanford@hq.doe.gov]
Sent: Tuesday, October 09, 2018 9:40 AM
To: Lopatto, Jeanne T.
Subject: RE: Meeting with Under Secretary Menezes (DOE)

Hi Jeanne,
Thank you for your email. We can definitely schedule for the week of Oct. 22nd. Below are a few dates/times that work well for The Under Secretary's schedule. If these options do you not work well, please let me know and we can find an alternate time that works well for both schedules. Thank you so much for your help with this, please let me know if I can be of assistance.

Oct. 23rd:
1PM, 2PM
Oct. 24th:
1PM
Oct. 25th:
1PM, 2PM, 3PM
Oct. 26th:

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1PM

-Jessica

-----Original Message-----
From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Tuesday, October 09, 2018 7:48 AM
To: Sanford, Jessica L. <Jessica.Sanford@hq.doe.gov>
Subject: [EXTERNAL] RE: Meeting with Under Secretary Menezes (DOE)

Hello Jessica and thank you for the email. For this meeting with U.S. Menezes I would like to include our SVP David Durham. He is available to come to DC the week of Oct. 22, so if any of those days work that would be great. We are flexible that week but Wed 10/24 in the morning is booked. I look forward to hearing from you. Jeanne Lopatto.

-----Original Message-----
From: Sanford, Jessica L. [mailto:Jessica.Sanford@hq.doe.gov]
Sent: Friday, October 05, 2018 4:18 PM
To: Lopatto, Jeanne T.
Subject: Meeting with Under Secretary Menezes (DOE)

Good Afternoon Ms. Lopatto,
My name is Jessica Sanford, I am with Under Secretary Menezes office with the Department of Energy. I received your contact information from Mr. John Sneed. The Under Secretary would like to try and schedule a meeting in the coming weeks to discuss the AP1000 reactors. Mr. Sneed suggested I contact you directly to discuss the potential of scheduling this meeting. We would be happy to work around a time that is most convenient for your schedule. Please let me know if there is anything I can do to be of help.

Thanks,
Jessica

Jessica Sanford
Scheduler
Office of the Under Secretary of Energy
U.S. Department of Energy
Phone: 202-287-5451

_____

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Greenberg, Craig E. (CONTR)

From: Scott, Michelle
Sent: Monday, February 11, 2019 2:43 PM
To: McGinnis, Edward
Cc: Richards, Andrew
Subject: RE:
Attachments: 2019-02-11 Backgrounder - WEC Updatev1.docx

Categories: Orange Category, Green Category

My apologies, I didn't attached the updated document.

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
b(6) ***(cell)***

From: McGinnis, Edward
Sent: Monday, February 11, 2019 2:36 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject:

- Is there a type o here? b(5)

From: Garrish, Theodore
Sent: Monday, February 11, 2019 2:24 PM
To: McCormack, Brian <Brian.Mccormack@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>

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Westinghouse Paper Update

(b) (4)

- **China:** (b) (4)
(b) (4)

- **India:** (b) (4)
(b) (4)

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(b) (4)

- **United Kingdom:** (b) (4)

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- **Turkey:** (b) (4)

- **Poland:** (b) (4)

(b) (4)

- **Ukraine:** (b) (4)

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- **United Arab Emirates:** (b) (4)

- **Saudi Arabia:** (b) (4)

(b) (4)

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Document 3

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Sunday, March 11, 2018 8:47 PM
To: Richards, Andrew;Jaworowski, Suzanne
Subject: FW: March 13 Strategy Session Agenda & Participant List
Attachments: Agenda - NP Export Strategy Session at the RIC - 3-13-18 (3-9).pdf; Agenda Addendum 3-13.pdf; Export Session at RIC - Acceptance List 3-11.pdf

Categories: Orange Category, Green Category

FYI

From: Bill Linton <Bill@lintonconsulting.com>
Date: Sunday, Mar 11, 2018, 8:26 PM
To: Donald Hoffman <Donald.Hoffman@excelservices.com>
Subject: March 13 Strategy Session Agenda & Participant List

Transmitted are the agenda and participant documents for our upcoming session on Tuesday.

We look forward to seeing you at 1:30 at the Marriott for this important USA nuclear supplier export strategy discussion.

Bill Linton
Principal
Linton Consulting
b(6)

AMERICAN OVERSIGHT

U.S. Nuclear Power Export Strategy Session
Bethesda North Marriott
Preliminary Agenda

Tuesday, March 13, 2018

Presidential Suite, Room 950

Start	End	Length	Agenda Item	Who
1:30 PM	1:45 PM	0:15	**Meet & Greet**	All
1:45 PM	1:55 PM	0:10	Welcome - Purpose and Goals	Donald Hoffman
			Strategy Development Process	Bill Linton
1:55 PM	2:25 PM	0:30	**Introductions - 1 Minute Each:** Name, Organization, Background, Reasons Why You Are Here	All
2:25 PM	2:35 PM	0:10	Strategy Development Challenge	Don Hoffman, Bill Linton
2:35 PM	2:50 PM	0:15	Market Overview	Jonathan Chesebro
2:50 PM	3:20 PM	0:30	Observations, Experiences & Discussion of Challenge	Facilitated Discussion
3:20 PM	3:50 PM	0:30	Actions Needed and Assigned Roles	Facilitated Discussion
3:50 PM	4:00 PM	0:10	Comments	Ed McGinnis
4:00 PM	4:15 PM	0:15	Roles	Facilitated Discussion
4:15 PM	4:30 PM	0:15	**Summary & Wrap-Up, Where We Go From Here Responsibilities, Assignments, Timing**	Don Hoffman, Bill Linton

<u>Strategy Development Process</u>

- Where Are We Now?
- Where Do We Want to Go?
- How Much Will It Cost?
- Who Will Do It?
- What is the Schedule?

Conclusion

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U.S. Nuclear Power Export Strategy Session
Bethesda North Marriott
Preliminary Agenda

Tuesday, March 13, 2018

Presidential Suite, Room 950

Start	End	Length	Agenda Item	Who
1:30 PM	1:45 PM	0:15	**Meet & Greet**	All
1:45 PM	1:55 PM	0:10	Welcome - Purpose and Goals	Donald Hoffman
			Strategy Development Process	Bill Linton
1:55 PM	2:25 PM	0:30	**Introductions - 1 Minute Each:** Name, Organization, Background, Reasons Why You Are Here	All
2:25 PM	2:35 PM	0:10	Strategy Development Challenge	Don Hoffman, Bill Linton
2:35 PM	2:50 PM	0:15	Market Overview	Jonathan Chesebro
2:50 PM	3:20 PM	0:30	Observations, Experiences & Discussion of Challenge	Facilitated Discussion
3:20 PM	3:50 PM	0:30	Actions Needed and Assigned Roles	Facilitated Discussion
3:50 PM	4:00 PM	0:10	Comments	Ed McGinnis
4:00 PM	4:15 PM	0:15	Roles	Facilitated Discussion
4:15 PM	4:30 PM	0:15	**Summary & Wrap-Up, Where We Go From Here Responsibilities, Assignments, Timing**	Don Hoffman, Bill Linton

<u>Strategy Development Process</u>

- Where Are We Now?
- Where Do We Want to Go?
- How Much Will It Cost?
- Who Will Do It?
- What is the Schedule?

Conclusion

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Nuclear Energy Supplier Export Strategy Session at RIC

March 13, 2018

					Participant List
	Firstname	**Last**	**Invite**	**Yes**	**Company**
Industry					
1	Scott	Reeder	√	√	AECOM
2	Gary	Wolski	√	√	Curtiss-Wright
3	Jay	Wileman	√	√	GE Hitachi
4	Paul	Murphy	√	√	Gowling
5	Steve	Burdick	√	√	Morgan Lewis
6	John	Kotek	√	√	NEI
7					NRC
8	John	Hopkins	√	√	NuScale
9	Chris	Colbert	√	√	NuScale
10	Jeff	Merrifield	√	√	Pillsbury
11	Tara	Neider	√	√	TerraPower
12	Mark	Fecteau	√	√	Westinghouse
13	William	Horin	√	√	Winston & Strawn
Government & Institutional					
14	Geoffrey	Jones	√	√	U.S. Export-Import Bank
15	Jonathan	Chesebro	√	√	DOC-ITA
16	Cameron	Dorsey	√	√	DOC-ITA
17	Michelle	Scott	√	√	DOE
18	Ed	McGinnis	√	√	DOE
19	Andrew	Richards	√	√	DOE
20	Al	Burkart	√	√	DOS
21	Kirsten	Cutler	√	√	DOS
Organizers					
22	Don	Hoffman	√	√	Excel Services
23	Bill	Linton	√	√	Linton Consulting

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Document 5

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Thursday, September 06, 2018 8:29 AM
To: McGinnis, Edward
Subject: FW: KSA
Attachments: KSA.DOCX; NEGTN02-#227130-v1-ADVANCED_REACTOR_DESIGN_SUMMARIES_FOR_NE-1.pptx

Categories: Orange Category, Green Category

b(5)

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-----Original Message-----
From: McGinnis, Edward
Sent: Wednesday, September 05, 2018 3:58 PM
To: Richards, Andrew (CONTR) (Andrew.Richards@Nuclear.Energy.Gov) <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: KSA

FYI, attached and below are my draft points as well as the draft set of slides. Just need a revised slide two with the quadrants of the various US advanced reactors. If it is too difficult to do, let me know.

b(5)

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U.S. DEPARTMENT OF ENERGY | Office of NUCLEAR ENERGY

Clean. Reliable. Nuclear.



U.S. Advanced Small Modular Reactors

September 2018

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Industry-led Technology Working Groups

Fast Reactor TWG Members

ARC · TerraPower · Oklo Inc. · CBCG Columbia Basin Consulting Group · Exelon · Duke Energy · GE Hitachi · General Atomics · Westinghouse · Hydromine · Elysium Industries Inc · Southern Company

High Temperature Gas Reactor TWG Members

Duke Energy · framatome · Kairos Power · BWXT · Starcore Nuclear

Molten Salt Reactor TWG Members

Flibe Energy · TerraPower · Terrestrial Energy · Duke Energy · ThorCon Power · Elysium Industries Inc · Southern Company · Exelon · Transatomic

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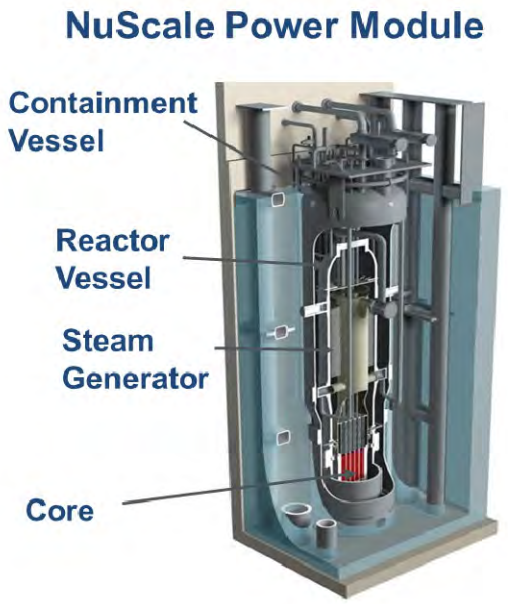
DOE-19-0315, 19-0316, 19-0318-A-000998

NuScale Power Module

- Basic design features
  - Multi-module configuration.
  - Each power module provides 50 megawatts of electricity
  - Up to 12 modules monitored and operated from a single control room.
- NuScale is first SMR to submit design certification application for NRC review
  - Docketed in March 2017
  - NRC issued 42 month schedule for review
- Passive safety – no reliance on safety-related electrical power
  - NRC staff approved safety topical report in Jan 2018



12 Module Reactor Building



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DOE-19-0315, 19-0316, 19-0318-A-000999

X-energy Xe-100

- Pebble-bed high temperature gas-cooled reactor
- Inert helium coolant
- TRISO fuel in pebble compacts
- Thermal neutron spectrum
- Enhanced passive safety
- Very high temperature operation

Xe-100 Reactor Specifications			
Thermal Output	**Steam Temperature**	**Steam Pressure**	**Electric Output**
200MWth	565°C	16.5MPa	~76MWe



First X-energy Pebble (Fall 2016)

X-Energy Xe-100

Recipient of $40M multi-year cost shared ARC-15 award

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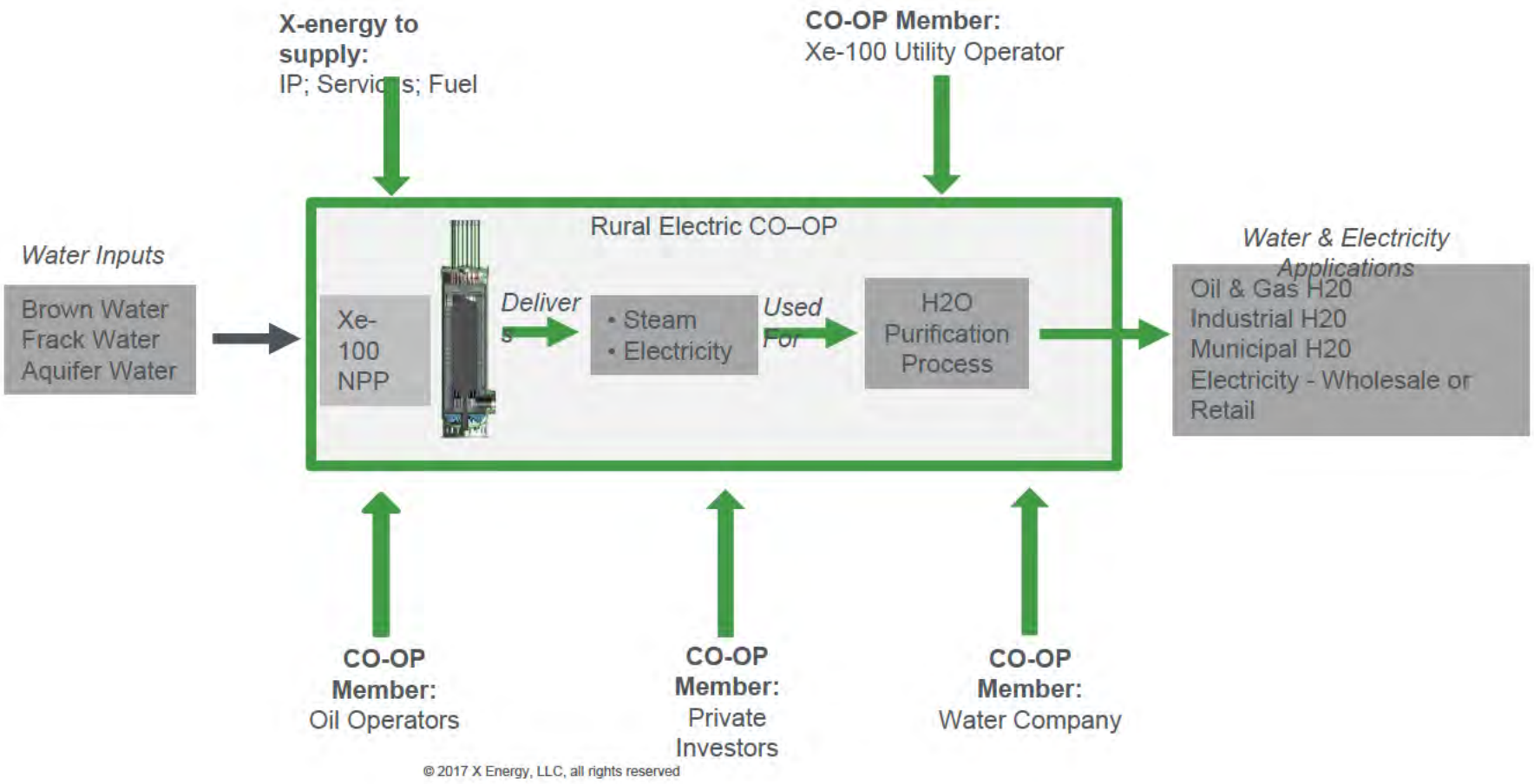
DOE-19-0315, 19-0316, 19-0318-A-001000

X-energy LLC West Texas Business Model



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DOE-19-0315, 19-0316, 19-0318-A-001001

ADDITIONAL BACKGROUND SLIDES

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DOE-19-0315, 19-0316, 19-0318-A-001002

Advanced Nuclear Industry: Next Generation



third way
fresh thinking

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High-Temperature Gas Reactors

- Inert helium coolant
- Unique TRISO fuel
  - Prismatic and pebble compact options
- Thermal neutron spectrum
- Enhanced passive safety
- Very high temperature operation
- Non-electric applications

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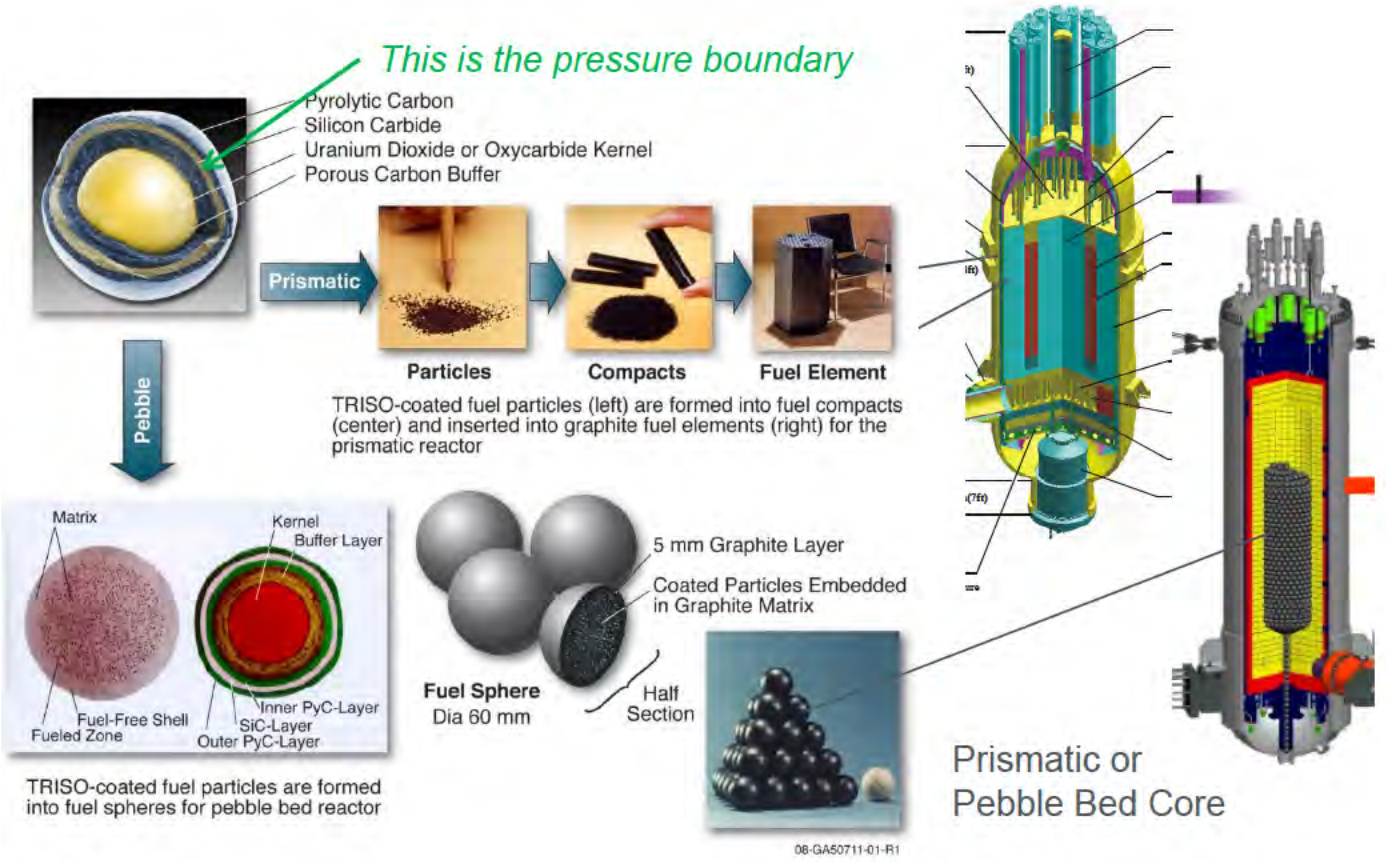
High Temperature Gas Reactors



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DOE-19-0315, 19-0316, 19-0318-A-001005

Gas-cooled Fast Reactors

- Fast neutron spectrum
- Inert helium coolant
- High temperature operation for non-electric applications
- High fuel utilization with flexible fuel cycle options

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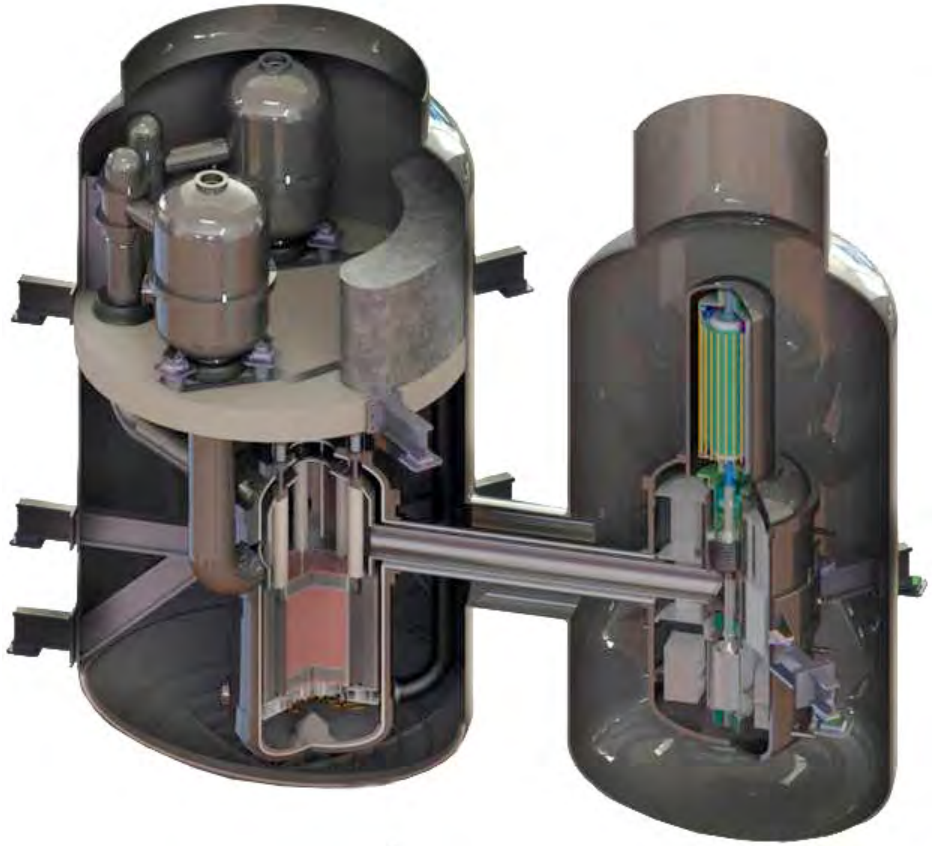
DOE-19-0315, 19-0316, 19-0318-A-001006

General Atomics EM2 Concept

- 265 MWe helium gas-cooled fast reactor
- Focus on high temperature applications/process heat
- 850 C outlet temp
- Brayton cycle (~ 49% net efficiency)
- Ceramic high burnup fuel with silicon carbide composite (SiC)
- 30 year refueling cycle
- Direct Auxiliary Cooling System (DRACS) for passive decay heat removal



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Sodium-cooled Fast Reactors

- Fast neutron spectrum
- Low pressure for simplified compact operation
- Liquid metal coolant – high conductivity
- Enhanced passive safety
- High fuel utilization
- Flexible fuel cycle applications that can be self-sustaining

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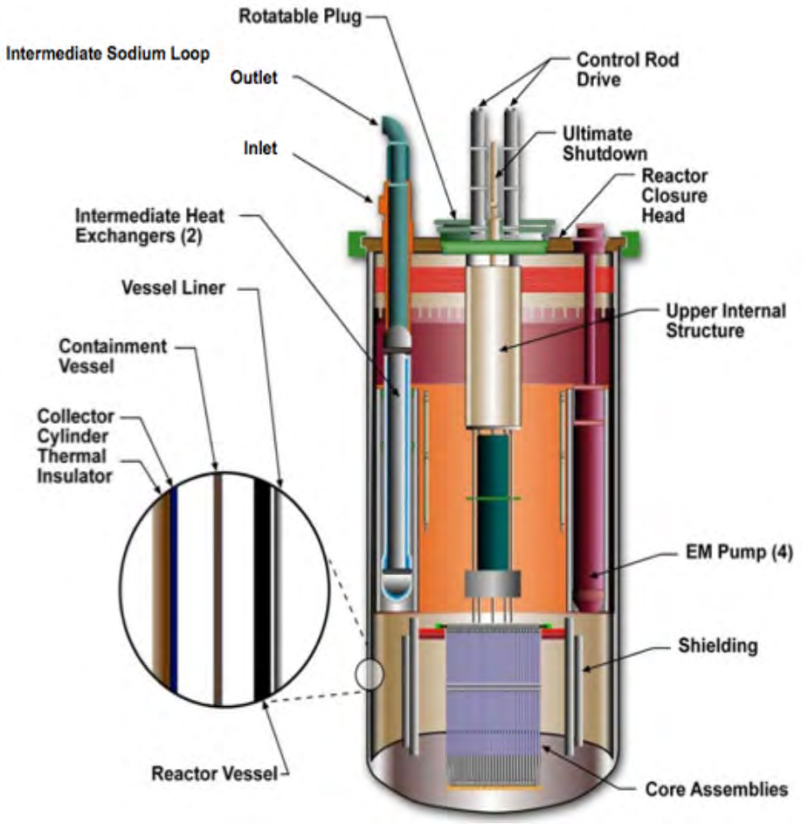
General Electric PRISM Concept

- 311 MWe sodium-cooled fast reactor
- Modular construction/Barge transportable
- Supercritical Rankine cycle with ~ 39% net efficiency
- U-TRU metal alloy fuel
- 1.5 year refueling cycle
- Design life of 60 years
- Reactor Vessel Auxiliary Cooling System (RVACS) passively removes decay heat from vessel by air
- Being considered by the United Kingdom for plutonium disposition



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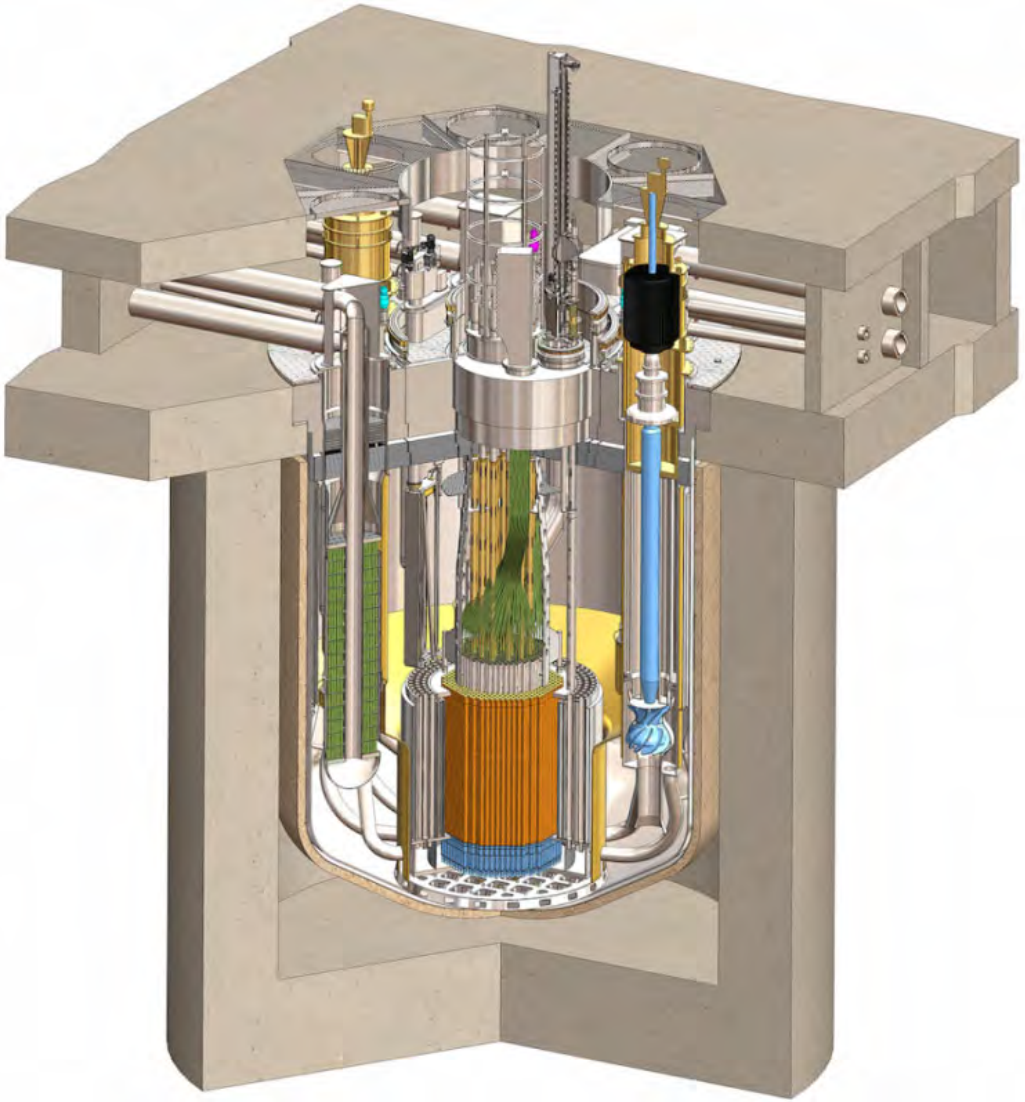
DOE-19-0315, 19-0316, 19-0318-A-001009

TerraPower Traveling Wave Reactor (TWR)

- **550 MWe sodium-cooled fast reactor**
- **Focus on uranium utilization**
- **510 C outlet temp**
- **Rankine cycle**
- **Uranium metal alloy fuel (once-through high burnup targeted)**
- **Fuel shuffling at ~2 yr intervals in place of traditional refueling**
- **Design life of 60 years**



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Advanced Reactor Concepts LLC ARC-100

- **100 MWe sodium-cooled fast reactor**
- **Focus on small size and secure underground deployment**
- **510 C outlet temp**
- **Supercritical CO2 Brayton cycle or Rankine cycle**
- **U-Zr Metallic fuel**
- **20 year refueling cycle**

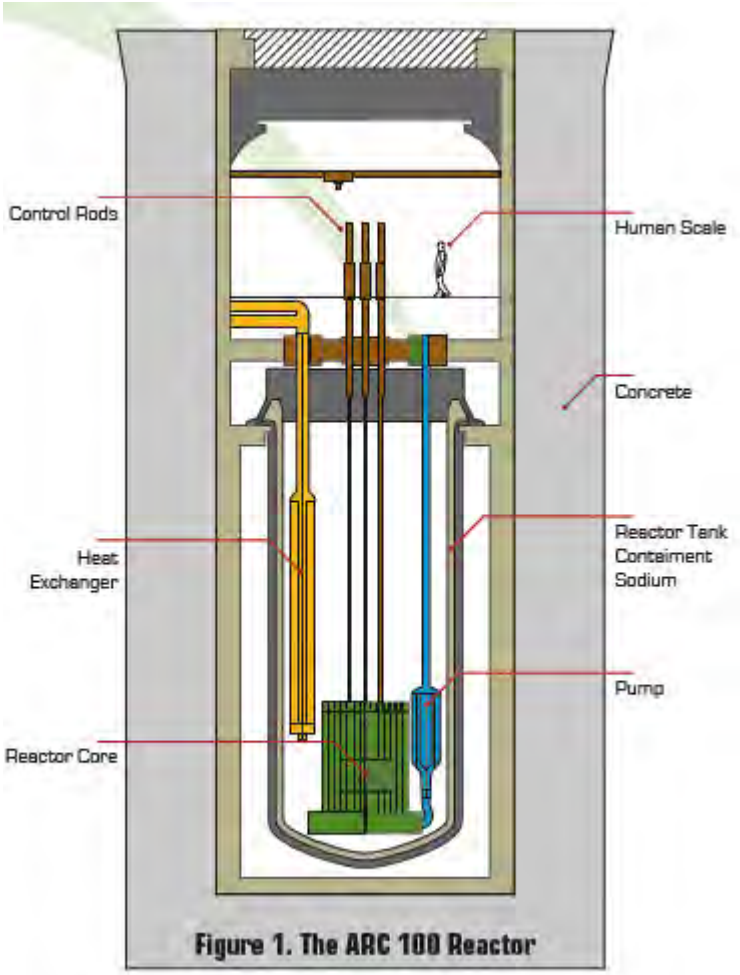

Figure 1. The ARC 100 Reactor

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DOE-19-0315, 19-0316, 19-0318-A-001011

Lead-cooled Fast Reactors

- Liquid metal coolant that is not reactive with air or water
- Lead or lead-bismuth eutectic options
- Fast neutron spectrum
- Low operating pressure
- High fuel utilization
- Flexible fuel cycle applications that can be self-sustaining

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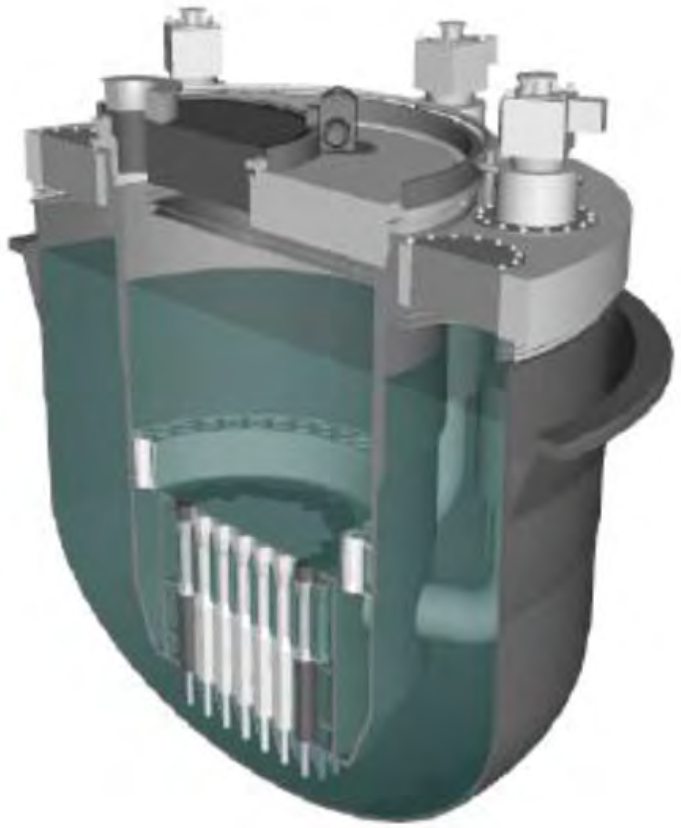
Westinghouse Lead Fast Reactor

- **450 MWe lead-cooled fast reactor**
- **Focus on scalable, standardized plant**
- **Pool-type concept seeking operation by 2030s**
- **Exploring uranium nitride fuels**
- **Outlet temperature of ~510C**



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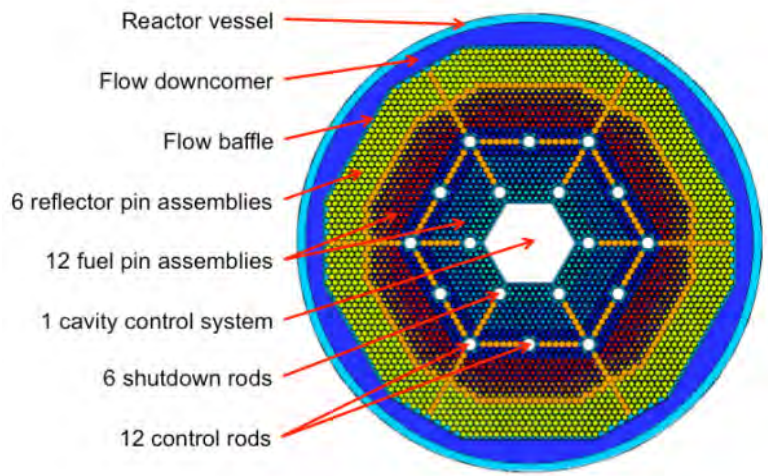
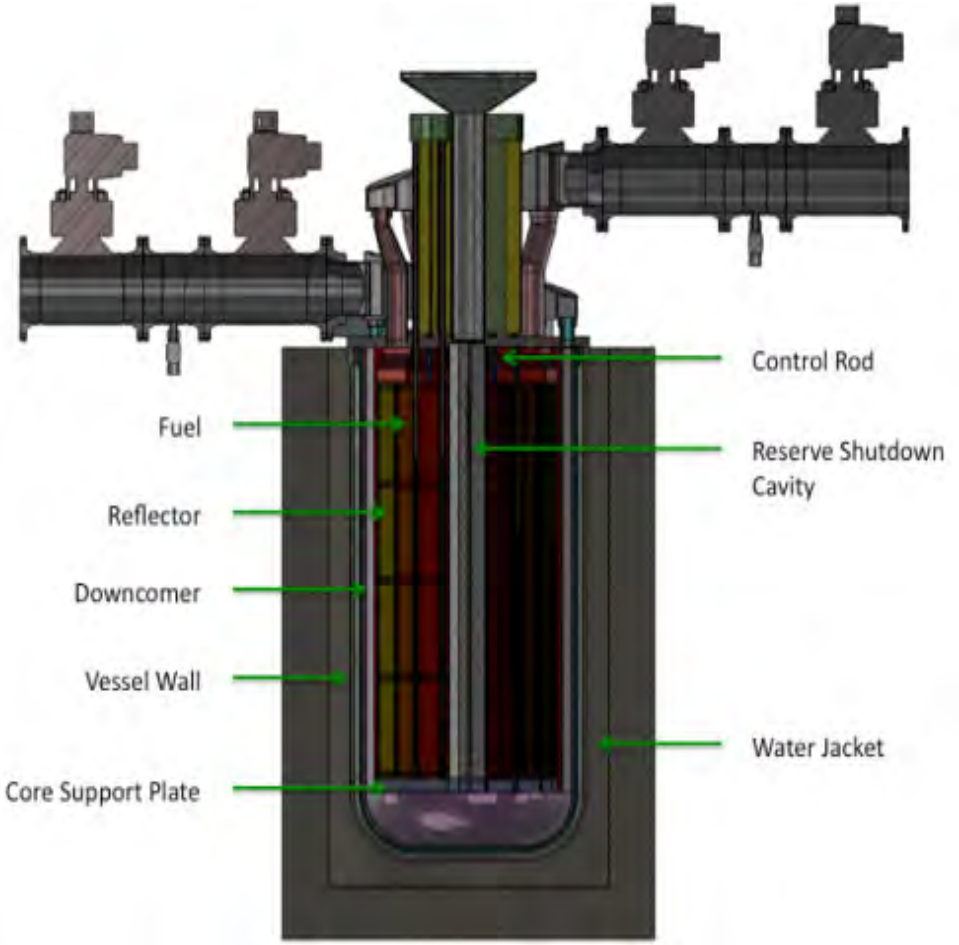
Gen4Energy Concept

- 25 MWe lead-bismuth eutectic (LBE) cooled fast reactor
- Transportable, small size concept
- 500 C outlet temp
- Rankine cycle (30-35% net efficienc
- Uranium nitride fuel
- Design life of 30 years
- No onsite refueling





Molten Salt Reactors

- Two major types – salt cooled and salt fueled
  - High temperatures for non-electric applications
  - Low operating pressures
- Fluoride salt-cooled high temp reactor (FHR)
  - Molten fluoride salt as coolant; typically FLiBe
  - Solid fuel; typically TRISO in pins, pebbles
- Liquid Fueled Molten Salt Reactor
  - Molten salt used as both coolant and fuel
  - Salts typically fluoride or chloride
  - Thermal or fast spectrum
  - No fuel fabrication – online refueling
  - On-line waste Management

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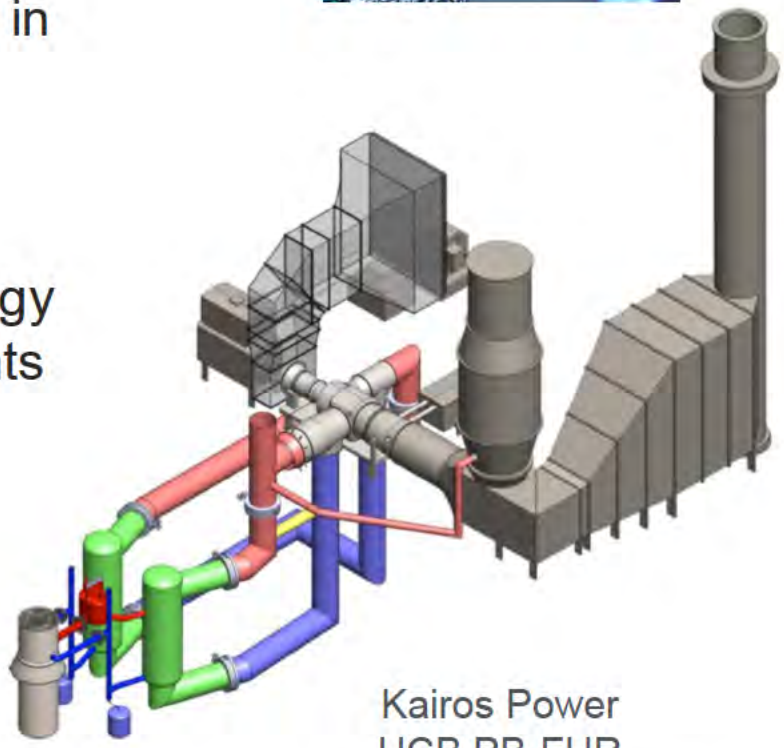
DOE-19-0315, 19-0316, 19-0318-A-001015

Kairos Fluoride Salt-cooled High Temperature Reactor (KP-FHR)

- Fluoride salt-cooled high temp reactor (FHR)
- High temperature, low pressure
- Molten fluoride salt as coolant
- Solid fuel; TRISO coated particle fuel in pebble compacts
  - Online refueling
- Passive safety
- Flexible power conversion technology for natural gas combined cycle plants

Kairos is willing to pilot a security-by-design assessment.





Kairos Power
UCB PB-FHR
(early university-based design)

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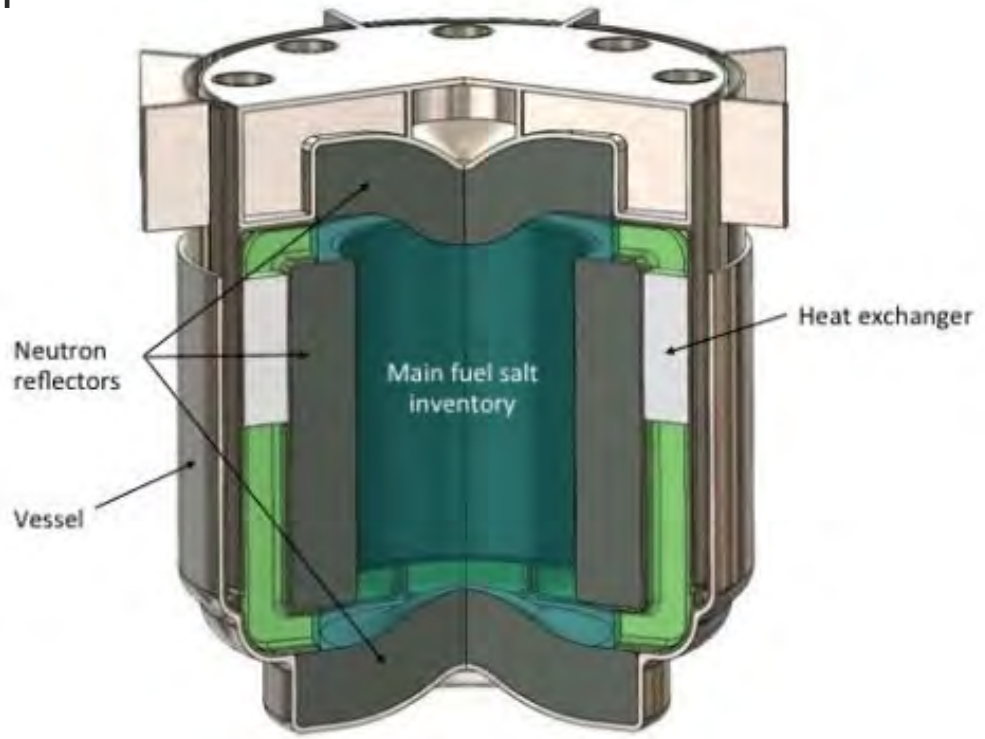
TerraPower Molten Chloride Fast Reactor (MCFR)

- Molten chloride salt used as both coolant and fuel
- Fast spectrum
- No fuel fabrication – online refueling
- On-line waste Management



TerraPower MCFR

Recipient of $40M multi-year cost shared ARC-15 award

Micro-Reactors

- Typically <20 MWt for non-traditional applications
- Very compact with high portability
- Defense application
  - Uninterrupted mobile power without cyber vulnerabilities
  - Heat and power to support various operational needs
- Commercial application
  - Support for remote communities, mining sites, etc.
  - Features similar to Defense applications, but with emphasis on economics

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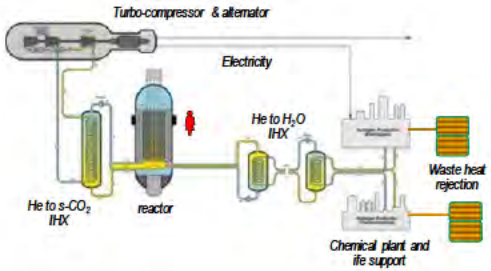
Examples of Advanced Micro-Reactor Designs Being Developed for Remote Applications

Gas cooled



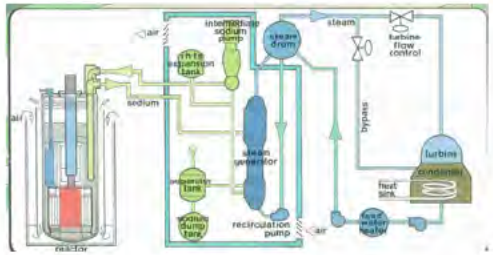
HolosGen™

STARCORE NUCLEAR

U BATTERY Local Modular Energy

US ULTRA SAFE NUCLEAR

Liquid metal cooled



Westinghouse

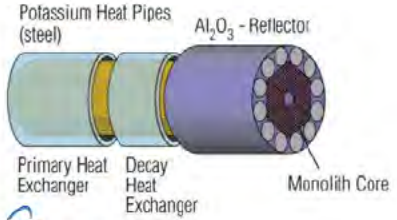
Lead Fast Reactor



TOSHIBA

4S – Super-Safe, Small and Simple

Heat pipe cooled



Los Alamos NATIONAL LABORATORY EST. 1943

Oklo Inc.

Westinghouse

eVinci™ Micro Reactor

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DOE-19-0315, 19-0316, 19-0318-A-001019

LANL Equity

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LWR Small Modular Reactors

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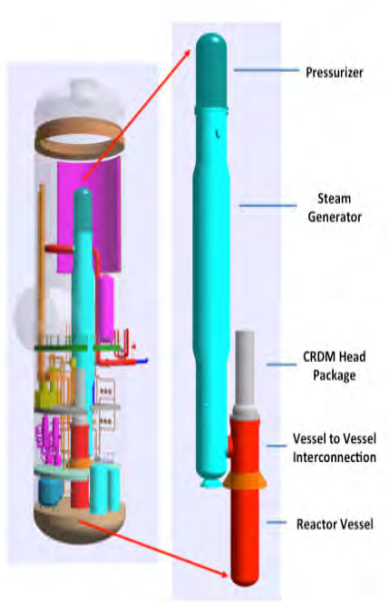
Holtec - SMR LLC SMR-160 Reactor

SMR-160 Reactor



The principal technical mission of SMR-160 is "safety and security first." Located deep underground, SMR-160's robustly designed core is protected from cataclysmic environmental phenomena and malevolent human intervention. Designed to provide an unfailingly safe and economical source of clean energy from nuclear fission, SMR-160 incorporates passive features of its operation to ensure utmost safety and reliability. The safety and security characteristics of SMR-160 include the following:

- The reactor core is located deep underground
- No reliance on on-site or off-site power to shut down the reactor and to reject the decay heat to the environment (hence, Inherently Safe)
- Passively cooled for design basis shut down. The reactor coolant system continues to circulate by thermo-siphon action during accident scenarios
- No active components (pumps) needed to run the reactor
- For maximum security, all vital NSSS components are located underground
- The containment is a steel structure that will serve to dissipate heat to the environment using passive cooling for a design basis event
- All safety-related systems are inside containment
- Large pipe break Loss Of Coolant Accident (LOCA) rendered non-credible by design: no large piping in the Reactor Coolant System (RCS) loop
- Fuel is protected by airplane crash resistant containment and by a missile shield over the spent fuel pool that is inside the containment
- The reactor system is designed to withstand the strongest Design Basis Earthquake postulated for any existing U.S. or international nuclear plant location
- Tall column of water above the reactor core providing large coolant inventory

https://smrllc.com/features/safe-and-secure/

Quick Comparison

	Light Water Reactors	High-Temp Gas Reactors	Sodium Fast Reactors	Gas-Cooled Fast Reactor	Lead-Cooled Fast Reactor	Molten Salt Reactors
Electrical Power (MWe)	b(5)					
Coolant						
Moderator						
System Pressure (MPa)						
Coolant Temperature at Outlet (˚C)						
Average Core Power Density (W/cm3)						

50 - 300 MWe = SMR

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DOE-19-0315, 19-0316, 19-0318-A-001023

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Friday, September 07, 2018 3:29 PM
To: McGinnis, Edward
Subject: FW: KSA (002)
Attachments: KSA (002).DOCX; NEGTN02-#227130-v1-ADVANCED_REACTOR_DESIGN_SUMMARIES_FOR_NE-1 (003) (003).pptx

Categories: Orange Category, Green Category

final

-----Original Message-----
From: McGinnis, Edward
Sent: Friday, September 07, 2018 3:15 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: FW: KSA (002)

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U.S. DEPARTMENT OF ENERGY | Office of NUCLEAR ENERGY



U.S. Advanced Small Modular Reactors

September 2018

Ed McGinnis
Principal Deputy Assistant Secretary
Office of Nuclear Energy

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U.S. Advanced Nuclear Reactor Companies

Advanced LWRs
(eg. SMR)

NUSCALE
Westinghouse
HOLTEC INTERNATIONAL
HITACHI

Liquid Metal
(eg. SFR)

Oklo Inc.
TerraPower
Exelon
DUKE ENERGY
Hydromine Nuclear Energy
Westinghouse
ARCenergy
CBCG
COLUMBIA BASIN CONSULTING GROUP
Southern Company

Gas Cooled

GENERAL ATOMICS
DUKE ENERGY
HolosGen™
BWXT
TAKOF NUCLEAR
US ULTRA SAFE NUCLEAR

Molten Salt

TerraPower
Southern Company
DUKE ENERGY
Flibe ENERGY
Exelon
ELYSIUM INDUSTRIES INC
ThorCon Power
Kairos Power

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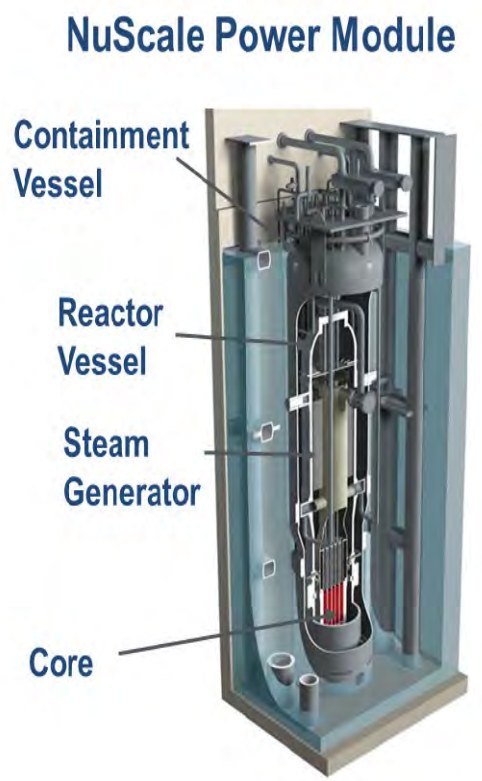
DOE-19-0315, 19-0316, 19-0318-A-001029

NuScale Power Module

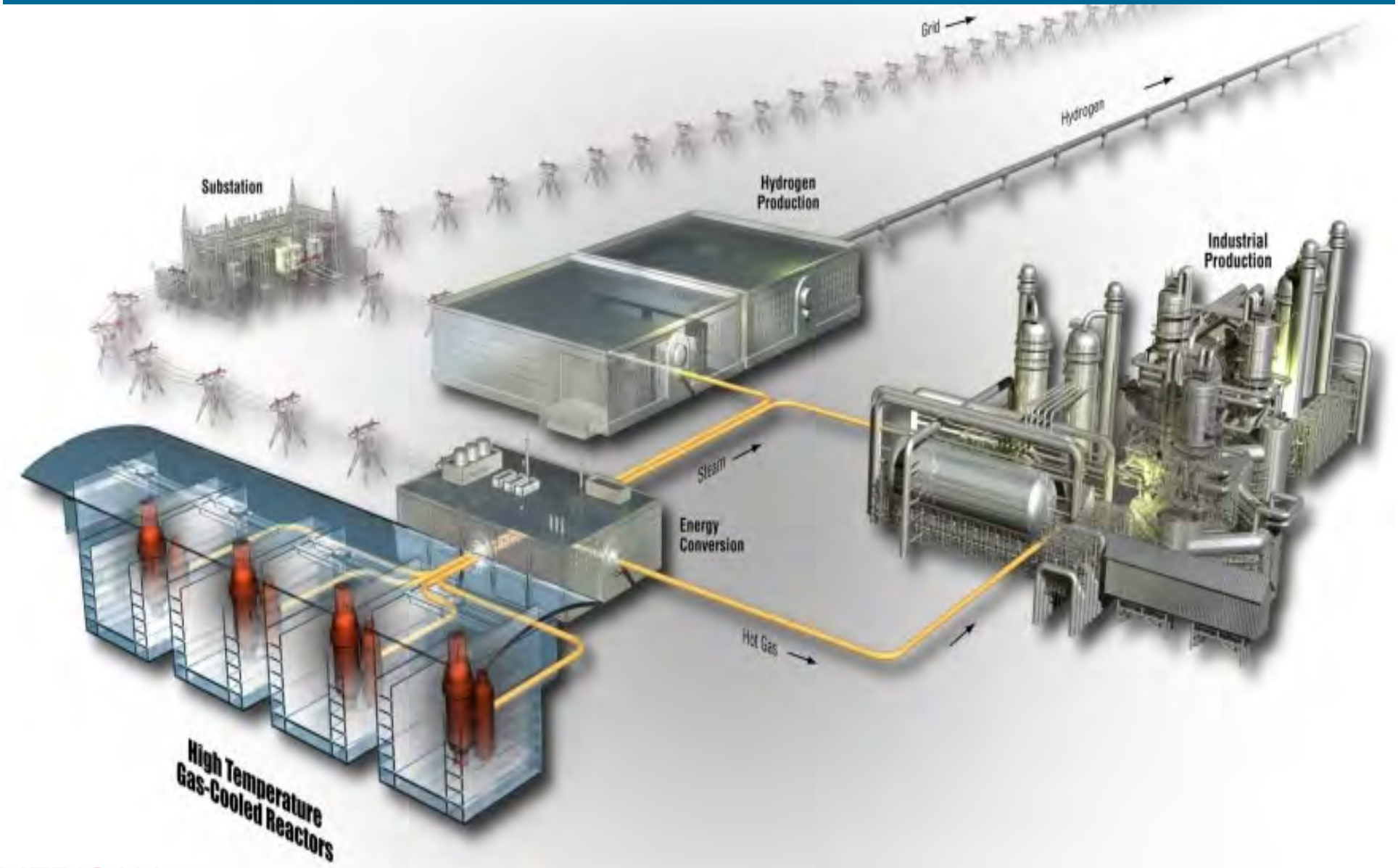


12 Module Reactor Building



- Basic design features
  - Multi-module configuration.
  - Each power module provides 50 megawatts of electricity
  - Up to 12 modules monitored and operated from a single control room.
- NuScale is first SMR to submit design certification application for NRC review
  - Docketed in March 2017
  - NRC issued 42 month schedule for review
- Passive safety – no reliance on safety-related electrical power
  - NRC staff approved safety topical report in Jan 2018

INDUSTRIAL APPLICATIONS USING SMALL MODULAR REACTORS



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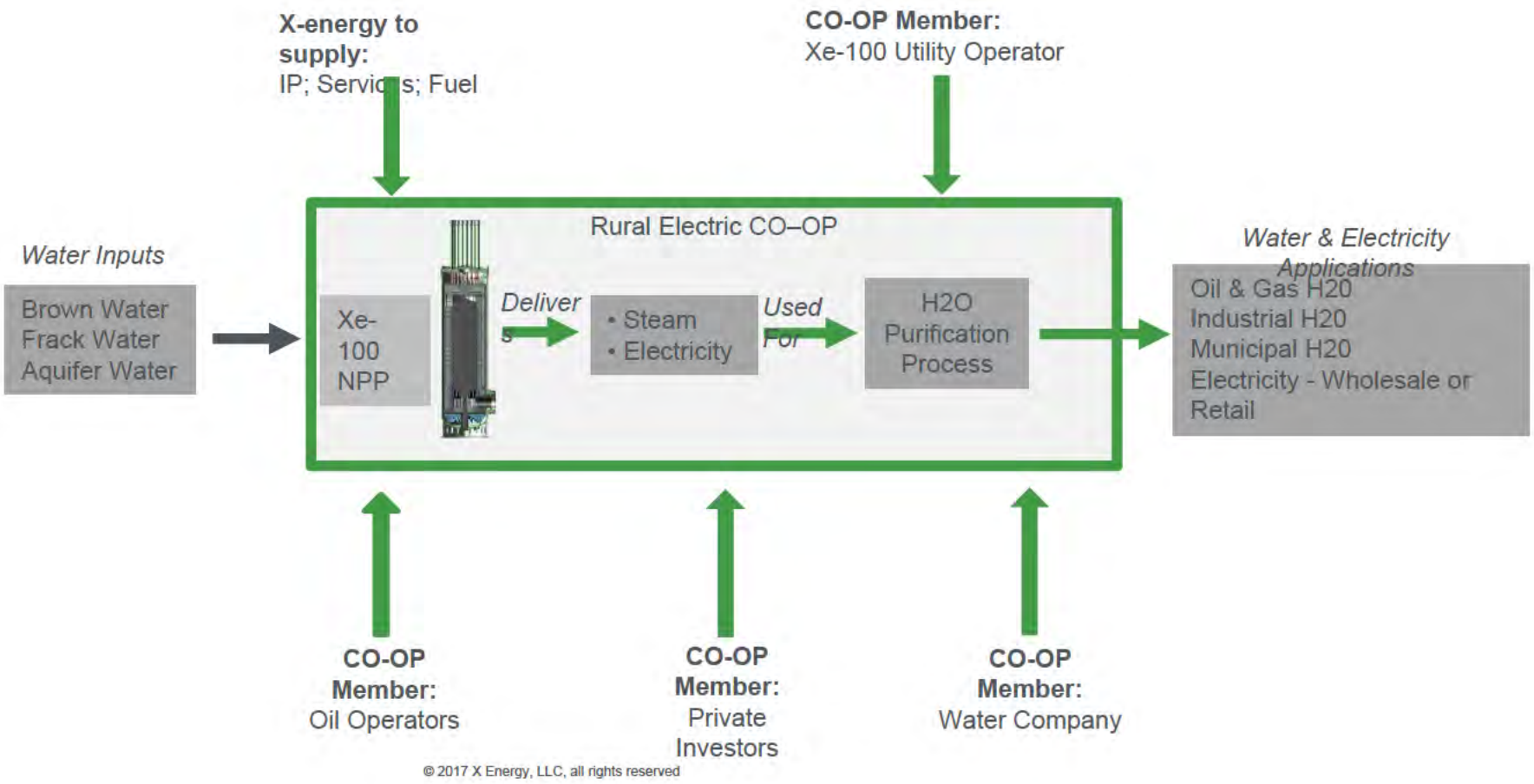
DOE-19-0315, 19-0316, 19-0318-A-001031

X-energy LLC West Texas Business Model



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DOE-19-0315, 19-0316, 19-0318-A-001032

ADDITIONAL BACKGROUND SLIDES

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Advanced Nuclear Industry: Next Generation



third way
fresh thinking

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High-Temperature Gas Reactors

- Inert helium coolant
- Unique TRISO fuel
  - Prismatic and pebble compact options
- Thermal neutron spectrum
- Enhanced passive safety
- Very high temperature operation
- Non-electric applications

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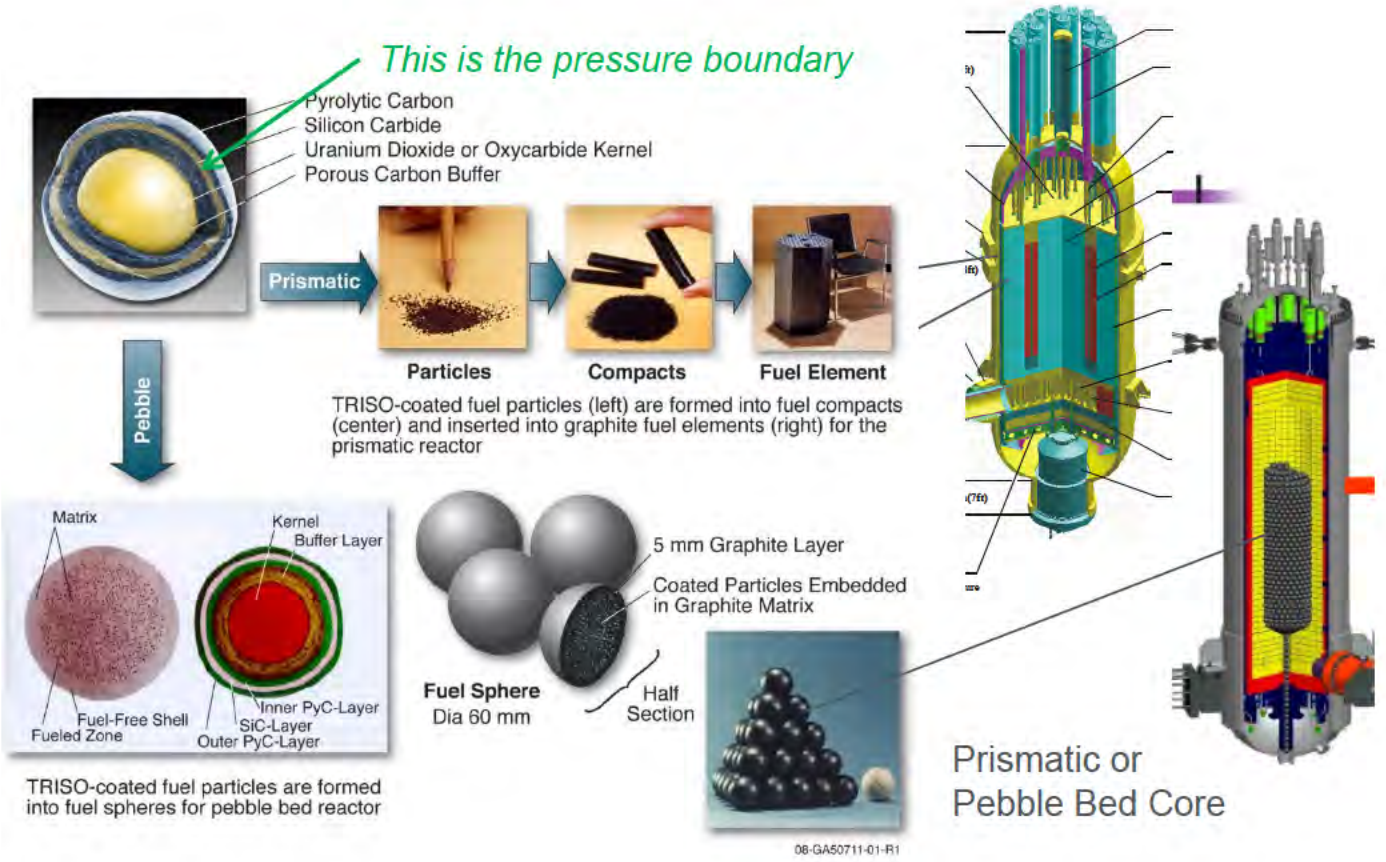
DOE-19-0315, 19-0316, 19-0318-A-001035

High Temperature Gas Reactors



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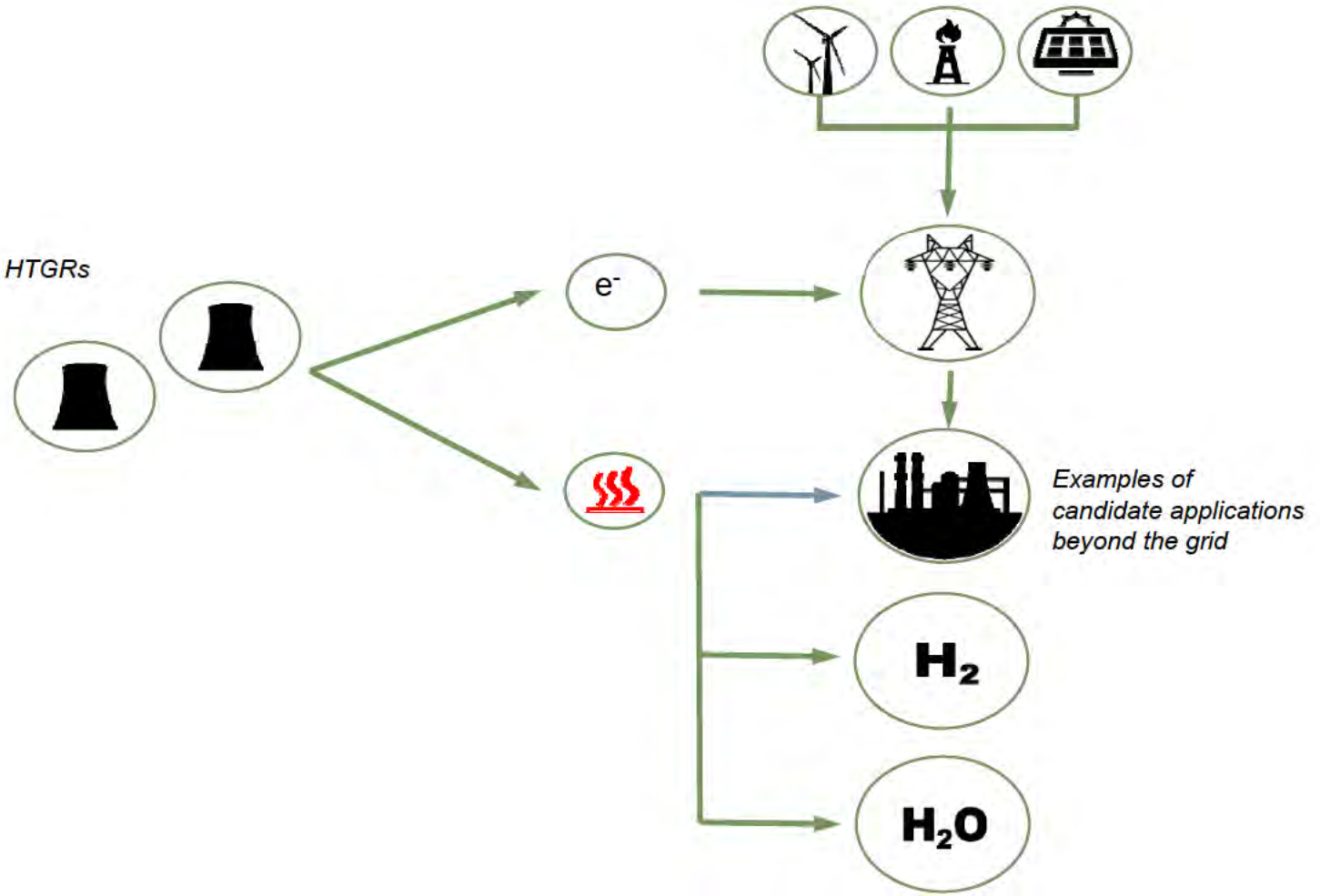
DOE-19-0315, 19-0316, 19-0318-A-001036

Nuclear Energy Reimagined



AMERICAN OVERSIGHT
DOE-19-0315, 19-0316, 19-0318-A-001037

X-energy Xe-100

- Pebble-bed high temperature gas-cooled reactor
- Inert helium coolant
- TRISO fuel in pebble compacts
- Thermal neutron spectrum
- Enhanced passive safety
- Very high temperature operation

Xe-100 Reactor Specifications			
Thermal Output	**Steam Temperature**	**Steam Pressure**	**Electric Output**
200MWth	565°C	16.5MPa	~76MWe



First X-energy Pebble (Fall 2016)

X-Energy Xe-100

Recipient of $40M multi-year cost shared ARC-15 award

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-001038

Gas-cooled Fast Reactors

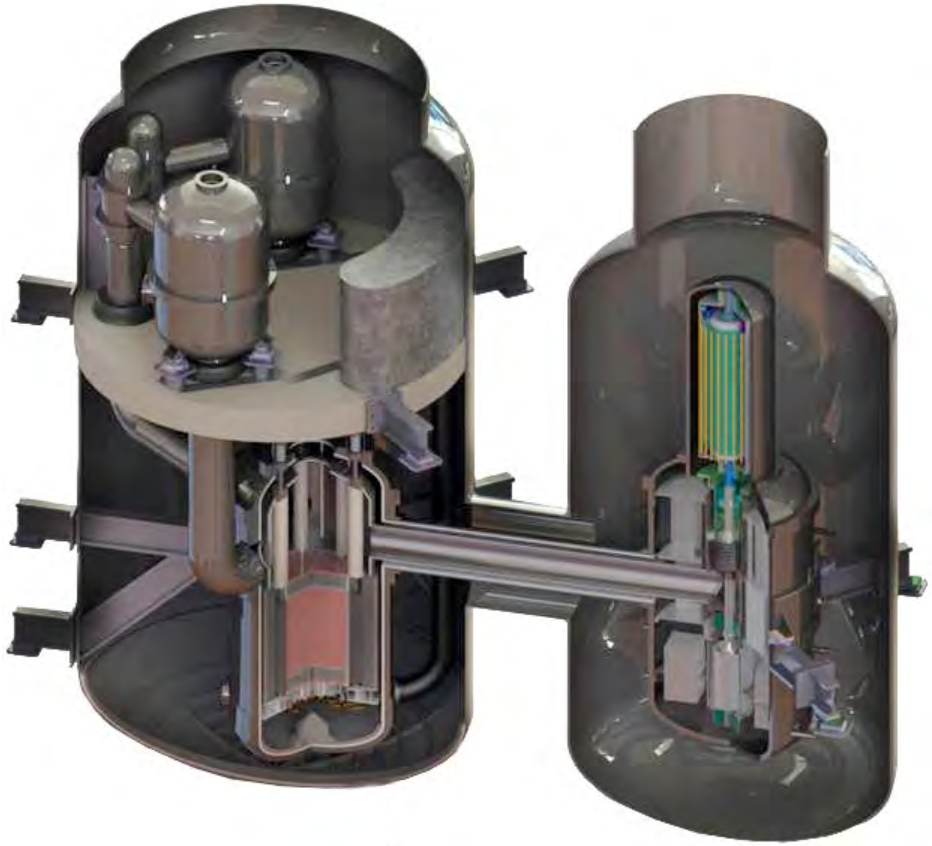
- Fast neutron spectrum
- Inert helium coolant
- High temperature operation for non-electric applications
- High fuel utilization with flexible fuel cycle options

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-001039

General Atomics EM2 Concept

- 265 MWe helium gas-cooled fast reactor
- Focus on high temperature applications/process heat
- 850 C outlet temp
- Brayton cycle (~ 49% net efficiency)
- Ceramic high burnup fuel with silicon carbide composite (SiC)
- 30 year refueling cycle
- Direct Auxiliary Cooling System (DRACS) for passive decay heat removal



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Sodium-cooled Fast Reactors

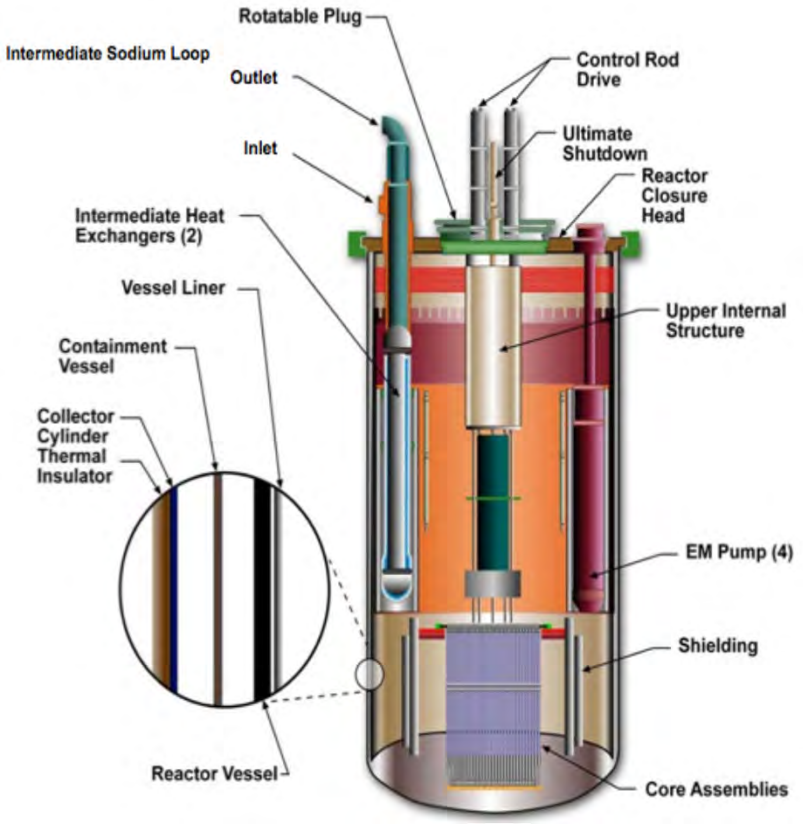
- Fast neutron spectrum
- Low pressure for simplified compact operation
- Liquid metal coolant – high conductivity
- Enhanced passive safety
- High fuel utilization
- Flexible fuel cycle applications that can be self-sustaining

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-001041

General Electric PRISM Concept

- 311 MWe sodium-cooled fast reactor
- Modular construction/Barge transportable
- Supercritical Rankine cycle with ~ 39% net efficiency
- U-TRU metal alloy fuel
- 1.5 year refueling cycle
- Design life of 60 years
- Reactor Vessel Auxiliary Cooling System (RVACS) passively removes decay heat from vessel by air
- Being considered by the United Kingdom for plutonium disposition



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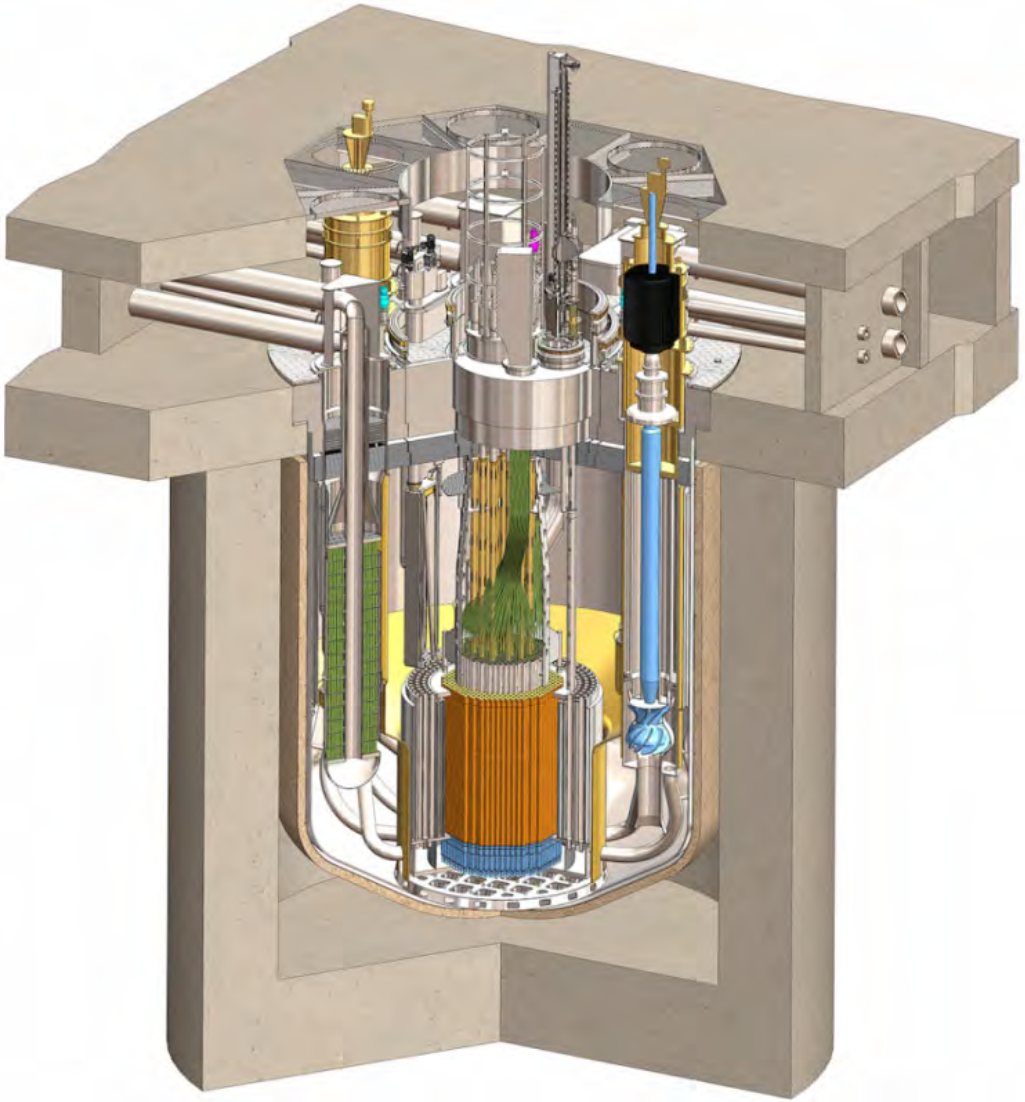
DOE-19-0315, 19-0316, 19-0318-A-001042

TerraPower Traveling Wave Reactor (TWR)

- **550 MWe sodium-cooled fast reactor**
- **Focus on uranium utilization**
- **510 C outlet temp**
- **Rankine cycle**
- **Uranium metal alloy fuel (once-through high burnup targeted)**
- **Fuel shuffling at ~2 yr intervals in place of traditional refueling**
- **Design life of 60 years**



Advanced Reactor Concepts LLC ARC-100

- **100 MWe sodium-cooled fast reactor**
- **Focus on small size and secure underground deployment**
- **510 C outlet temp**
- **Supercritical CO2 Brayton cycle or Rankine cycle**
- **U-Zr Metallic fuel**
- **20 year refueling cycle**

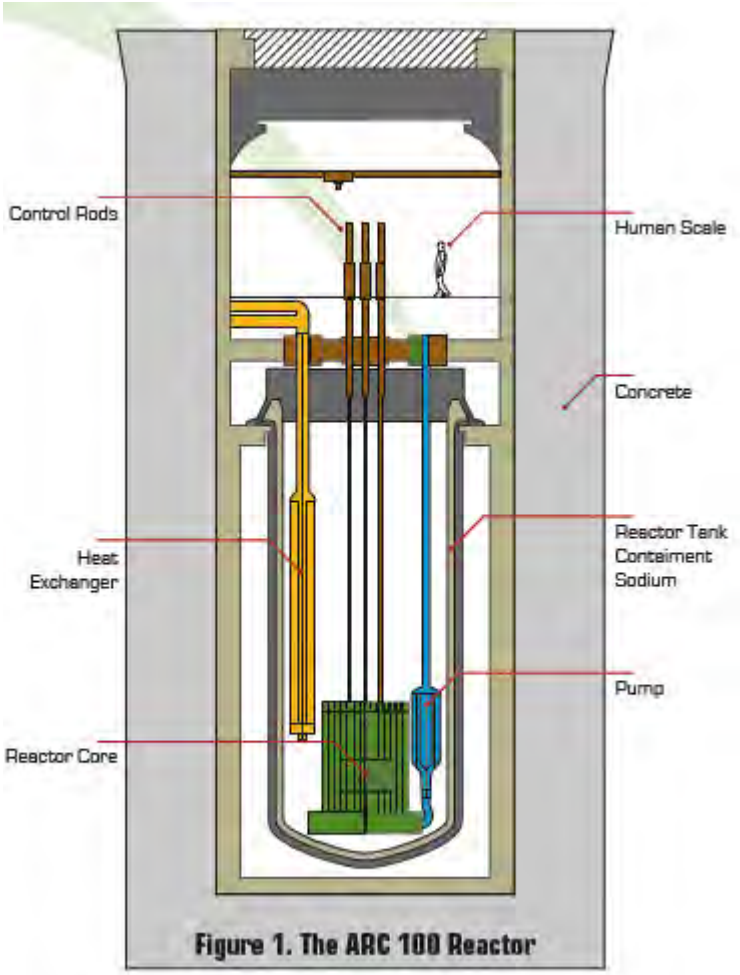


Figure 1. The ARC 100 Reactor

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DOE-19-0315, 19-0316, 19-0318-A-001044

Lead-cooled Fast Reactors

- Liquid metal coolant that is not reactive with air or water
- Lead or lead-bismuth eutectic options
- Fast neutron spectrum
- Low operating pressure
- High fuel utilization
- Flexible fuel cycle applications that can be self-sustaining

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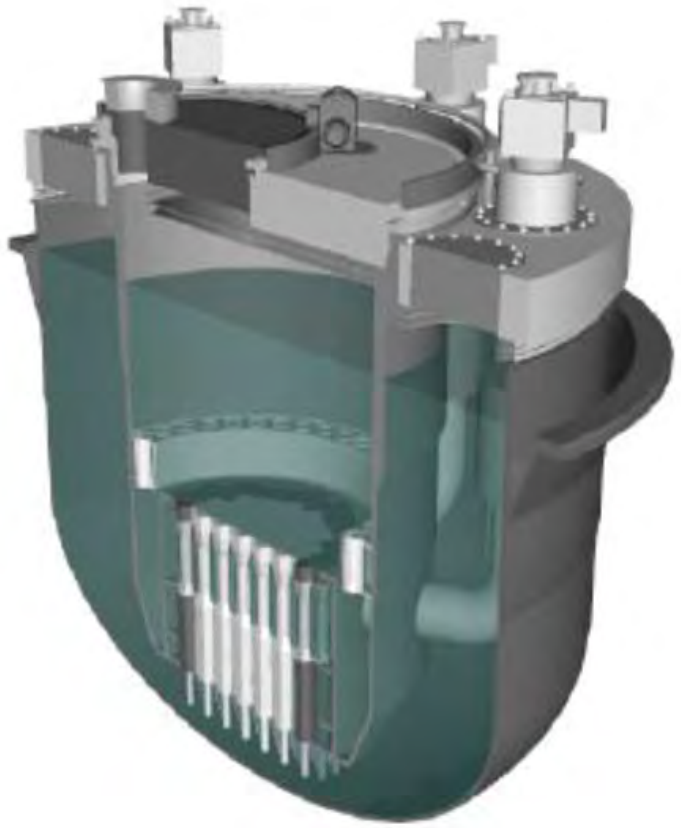
DOE-19-0315, 19-0316, 19-0318-A-001045

Westinghouse Lead Fast Reactor

- **450 MWe lead-cooled fast reactor**
- **Focus on scalable, standardized plant**
- **Pool-type concept seeking operation by 2030s**
- **Exploring uranium nitride fuels**
- **Outlet temperature of ~510C**



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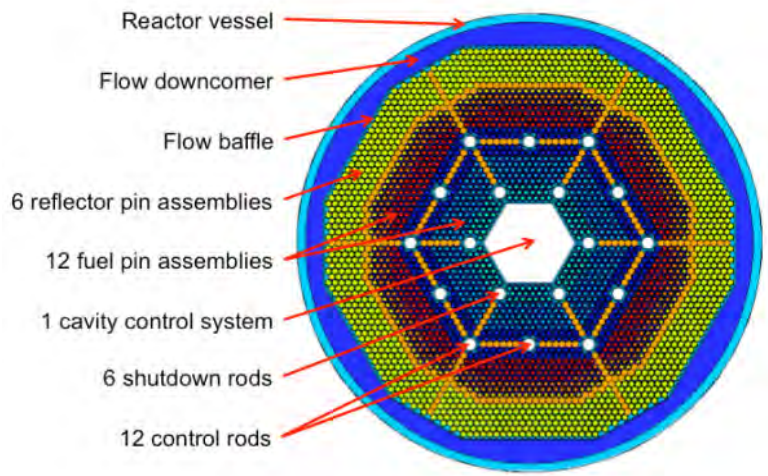
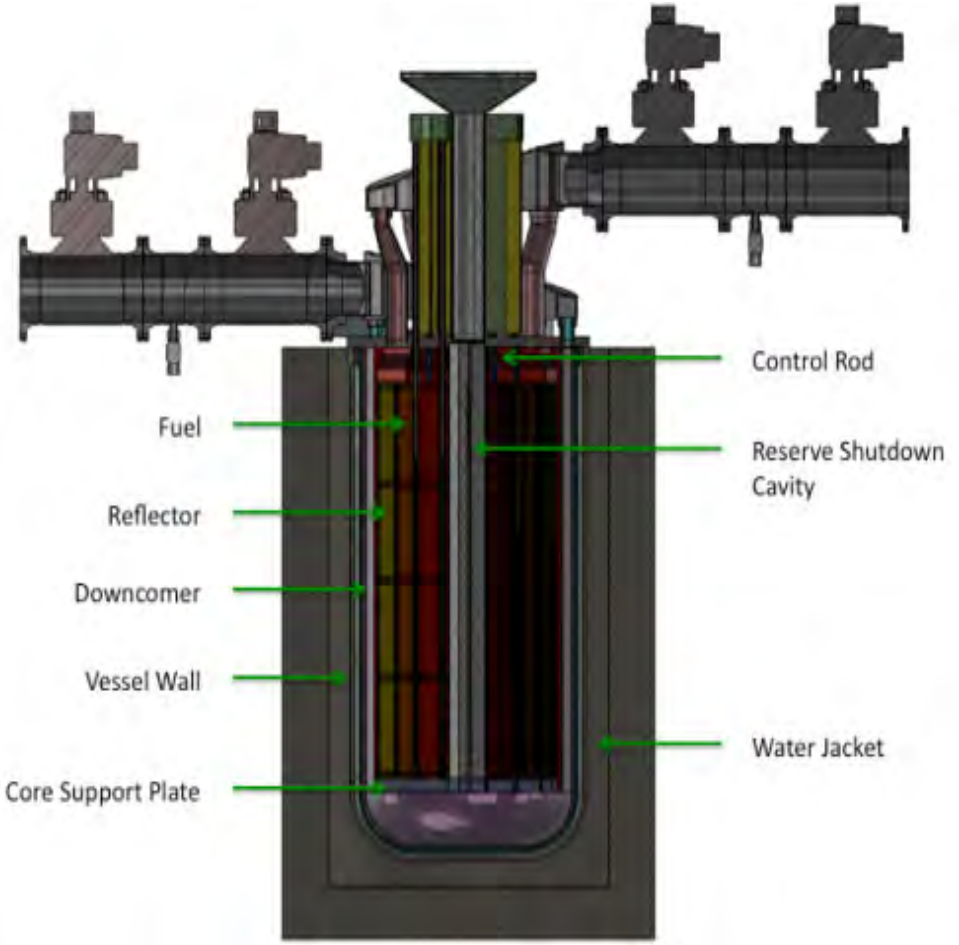
Gen4Energy Concept

- 25 MWe lead-bismuth eutectic (LBE) cooled fast reactor
- Transportable, small size concept
- 500 C outlet temp
- Rankine cycle (30-35% net efficienc
- Uranium nitride fuel
- Design life of 30 years
- No onsite refueling





Molten Salt Reactors

- Two major types – salt cooled and salt fueled
  - High temperatures for non-electric applications
  - Low operating pressures
- Fluoride salt-cooled high temp reactor (FHR)
  - Molten fluoride salt as coolant; typically FLiBe
  - Solid fuel; typically TRISO in pins, pebbles
- Liquid Fueled Molten Salt Reactor
  - Molten salt used as both coolant and fuel
  - Salts typically fluoride or chloride
  - Thermal or fast spectrum
  - No fuel fabrication – online refueling
  - On-line waste Management

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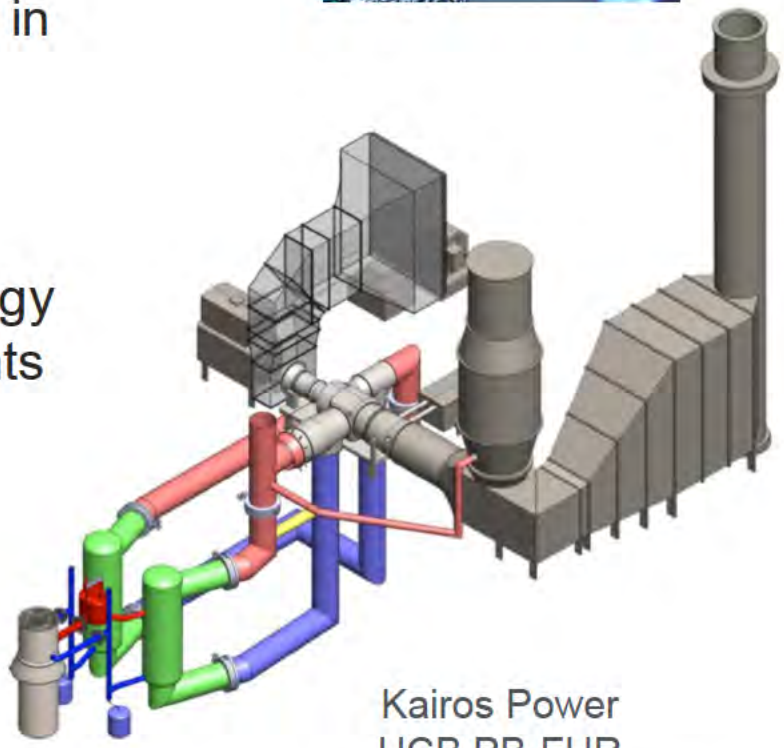
DOE-19-0315, 19-0316, 19-0318-A-001048

Kairos Fluoride Salt-cooled High Temperature Reactor (KP-FHR)

- Fluoride salt-cooled high temp reactor (FHR)
- High temperature, low pressure
- Molten fluoride salt as coolant
- Solid fuel; TRISO coated particle fuel in pebble compacts
  - Online refueling
- Passive safety
- Flexible power conversion technology for natural gas combined cycle plants

Kairos is willing to pilot a security-by-design assessment.





Kairos Power
UCB PB-FHR
(early university-based design)

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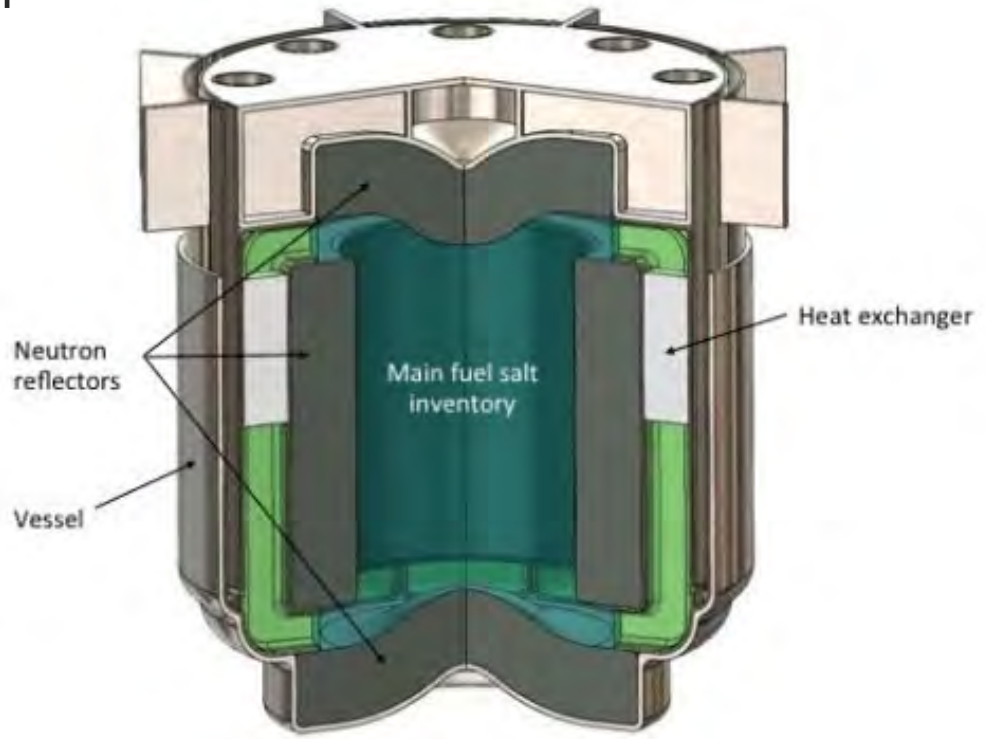
DOE-19-0315, 19-0316, 19-0318-A-001049

TerraPower Molten Chloride Fast Reactor (MCFR)

- Molten chloride salt used as both coolant and fuel
- Fast spectrum
- No fuel fabrication – online refueling
- On-line waste Management



TerraPower MCFR

Recipient of $40M multi-year cost shared ARC-15 award

Micro-Reactors

- Typically <20 MWt for non-traditional applications
- Very compact with high portability
- Defense application
  - Uninterrupted mobile power without cyber vulnerabilities
  - Heat and power to support various operational needs
- Commercial application
  - Support for remote communities, mining sites, etc.
  - Features similar to Defense applications, but with emphasis on economics

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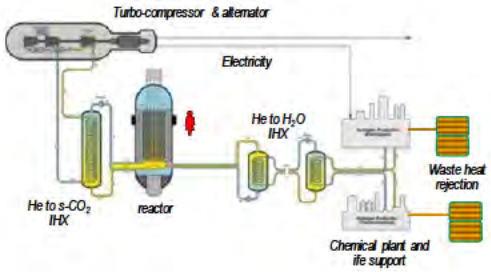
Examples of Advanced Micro-Reactor Designs Being Developed for Remote Applications

Gas cooled



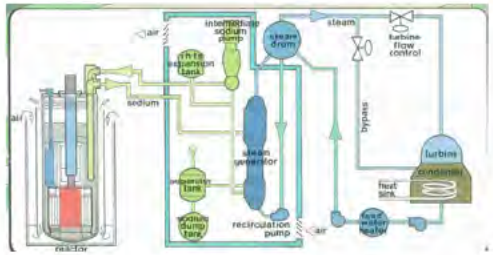
HolosGen™

STARCORE NUCLEAR

U BATTERY Local Modular Energy

US ULTRA SAFE NUCLEAR

Liquid metal cooled



Westinghouse

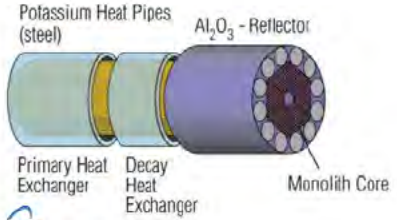
Lead Fast Reactor



TOSHIBA

4S – Super-Safe, Small and Simple

Heat pipe cooled



Los Alamos NATIONAL LABORATORY EST. 1943

Oklo Inc.

Westinghouse

eVinci™ Micro Reactor

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DOE-19-0315, 19-0316, 19-0318-A-001052

LANL Equity

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LWR Small Modular Reactors

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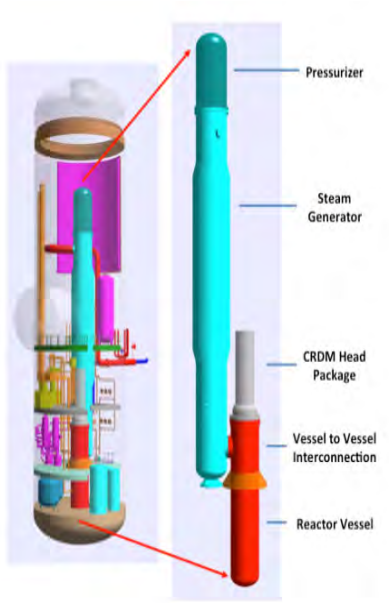
DOE-19-0315, 19-0316, 19-0318-A-001054

Holtec - SMR LLC SMR-160 Reactor

SMR-160 Reactor



The principal technical mission of SMR-160 is "safety and security first." Located deep underground, SMR-160's robustly designed core is protected from cataclysmic environmental phenomena and malevolent human intervention. Designed to provide an unfailingly safe and economical source of clean energy from nuclear fission, SMR-160 incorporates passive features of its operation to ensure utmost safety and reliability. The safety and security characteristics of SMR-160 include the following:

- The reactor core is located deep underground
- No reliance on on-site or off-site power to shut down the reactor and to reject the decay heat to the environment (hence, Inherently Safe)
- Passively cooled for design basis shut down. The reactor coolant system continues to circulate by thermo-siphon action during accident scenarios
- No active components (pumps) needed to run the reactor
- For maximum security, all vital NSSS components are located underground
- The containment is a steel structure that will serve to dissipate heat to the environment using passive cooling for a design basis event
- All safety-related systems are inside containment
- Large pipe break Loss Of Coolant Accident (LOCA) rendered non-credible by design: no large piping in the Reactor Coolant System (RCS) loop
- Fuel is protected by airplane crash resistant containment and by a missile shield over the spent fuel pool that is inside the containment
- The reactor system is designed to withstand the strongest Design Basis Earthquake postulated for any existing U.S. or international nuclear plant location
- Tall column of water above the reactor core providing large coolant inventory

https://smrllc.com/features/safe-and-secure/

Quick Comparison

	Light Water Reactors	High-Temp Gas Reactors	Sodium Fast Reactors	Gas-Cooled Fast Reactor	Lead-Cooled Fast Reactor	Molten Salt Reactors
Electrical Power (MWe)	b(5)					
Coolant						
Moderator						
System Pressure (MPa)						
Coolant Temperature at Outlet (˚C)						
Average Core Power Density (W/cm3)						

50 - 300 MWe = SMR

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DOE-19-0315, 19-0316, 19-0318-A-001056

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Friday, April 07, 2017 5:48 PM
To: Kang, Eliot
Subject: RE: NTH: 4/7 PM Why The US Fears A Chinese Bid For Westinghouse Electric

Categories: Green Category

I can always look to you to call it like it is!

Best,

Ed

From: Kang, Eliot (b) (6)
Sent: Friday, April 7, 2017 5:45:11 PM
To: McGinnis, Edward
Subject: Re: NTH: 4/7 PM - Why The US Fears A Chinese Bid For Westinghouse Electric

Can't read anything. Links don't work. Besides-- we are not afraid, are we. 'Cause, ain't going to happen on our watch!

Eliot Kang
Assistant Secretary, Acting
State/ISN
From: McGinnis, Edward
Sent: Friday, April 7, 2017 5:21 PM
To: Kang, Eliot
Subject: FW: NTH: 4/7 PM - Why The US Fears A Chinese Bid For Westinghouse Electric

From: Nuclear Townhall <nucleartownhall@nucleartownhall.com>
Sent: Friday, April 7, 2017 5:11:04 PM
To: McGinnis, Edward
Subject: NTH: 4/7 PM - Why The US Fears A Chinese Bid For Westinghouse Electric

Click here Having trouble viewing this email? <http://campaign r20.constantcontact.com/render?m=1103489243134&ca=fe5dfcda-c4fc-40bb-b717-21ea5b1ff3f0>

[http://files.constantcontact.com/ef7951de001/f91e073b-6970-4531-9ece-146c39abe3dc.jpg]

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Lead:

* Why The US Fears A Chinese Bid For Westinghouse Electric

People, Politics:

* New Yorkers Want To Know If Nuclear Waste From Canada Is Coming Down I-81
* Future of DOE Heavy Water Supply Still Uncertain
* Weird Sterile Neutrinos May Not Exist, Suggest New Data From Nuclear Reactors

Business:

* Edison Blinks: Opens Negotiations On Moving Old Fuel From Proposed San Onofre Storage Site
* Southern Co. Facing 'Pivotal Decision' On Plant Vogtle

International:

* China Expected To Export Nuclear Technology To UK
* Australia Likely To Start Supplying Uranium To India From This Year
* Revised Japanese Reactor Law Lets Nuclear Regulators Conduct Surprise Inspections
* South Africa's Controversial Nuclear Energy Plans

[http://www nucleartownhall.com/wp-content/uploads/2015/05/blank.jpg]

For these and other stories go to: NuclearTownhall.com<http://r20.rs6 net/tn.jsp?f=001ZRwP6NJa1NTytBIfn3-fU5M0Yty-FE9Nczapqi89HHN2AIxYsBPKO929ZBuim9rH5thFOOOq35lXXlM_XcQix9y_vvqTjrjbVpRv_VdKlb-T1m5tc_jgNSn24LxlHGqj_BFVsYg4WP_vW6Ftz3nBaFbaxjrmO9W4SBqjEbofc5Bj-wBnhSAjxw==&c=w92PeuoD0LEMiJCNsIxsCRTOy7vcoQPPm6Z05rhtL-FPyhvilGDXfg==&ch=jlYOWDEuGLr72Ns8LeScUSJYV9wW8rE0Jw1VFedGciqj8Lgv-GUgwQ==>

Nuclear Townhall, PO Box 91313, Louisville, KY 40291

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Greenberg, Craig E. (CONTR)

From: Kang, Eliot (b) (6)
Sent: Friday, February 03, 2017 7:53 PM
To: McGinnis, Edward
Subject: RE: Saudi Arabia

Categories: Green Category

Dept system won't let me access it. We can discuss next week.

Official - SBU
UNCLASSIFIED

From: McGinnis, Edward [mailto:Edward.McGinnis@Nuclear.Energy.Gov]
Sent: Friday, February 03, 2017 3:57 PM
To: Kang, Eliot
Subject: FW: Saudi Arabia

FYI and close hold. I can give you more by phone.

From: b(6) @ironbridgesecurity.com]
Sent: Saturday, January 28, 2017 8:31 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: b(6) @accenture.com> b(6) @accenture.com>
Subject: Re: Saudi Arabia

Ed

close hold, mike

IP3 fact sheet, 9 Dec..pdf

170117 IP3 MAGA Overview.pdf

--
RDML b(6) , USN (Ret)
CEO, Iron Bridge Group

AMERICAN OVERSIGHT

Executive Assistant: b(6)
b(6) @hshanalytics.com

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Greenberg, Craig E. (CONTR)

State Equity

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Document 2

Greenberg, Craig E. (CONTR)

From: Benahmed, Farah (CONTR)
Sent: Friday, April 21, 2017 8:04 AM
To: Jaworowski, Suzanne
Subject: FW: (b) (5)
Attachments: (b) (5)

Categories: Blue Category, Red Category, Green Category

Here you go!

-----Original Message-----
From: Benahmed, Farah (CONTR)
Sent: Wednesday, April 19, 2017 5:20 PM
To: (b) (6) (b) (6) @Hq.Doe.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Subject: Westinghouse Bankruptcy Principals Committee Call Memo & TPs

Good afternoon,

Please find the attached memo and talking points for Friday's (b) (5) Principals Committee Call at 1:30 pm. They're okay to distribute. Thanks!

Farah Benahmed
Special Assistant to the Assistant Secretary
Department of Energy/Office of Nuclear Energy
Farah.benahmed@nuclear.energy.gov
Office: 202-586-2240

AMERICAN OVERSIGHT

EVENT: (b) (5)
DATE: April 21, 2017
TIME: 1:30 PM
LOCATION: Call-in
(b) (5)
PURPOSE:

PRESS: **NO**

LOGISTICS: 1:30 PM phone call; other logistics TBD

ATTENDEES: (b) (5)

BACKGROUND:

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

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(b) (5)

MEETING/ REQUESTED BY:

BRIEFING PREPARED BY: Grace Meikle (DOE/NE-61)

BRIEFING REVIEWED BY: Ray Furstenau (DOE/NE-1), Suzanne Jaworowski (DOE/NE-1), Ed McGinnis (DOE/NE-6), Michelle Scott (DOE/NE-6), Karen Moore (LPO), Herb Glaser (LPO)

ATTACHMENTS:

1. Talking Points

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S1 BRIEFING

ATTACHMENT 1: TALKING POINTS

(b) (5)

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(b) (5)

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(b) (5)

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Document 3

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Wednesday, March 29, 2017 8:26 AM
To: McGinnis, Edward
Subject: FW: Westinghouse announcement
Attachments: 2017-005-WESTINGHOUSE ANNOUNCES STRATEGIC RESTRUCTURING.pdf

Categories: Blue Category, Red Category, Green Category

From: Lopatto, Jeanne T. <lopattjt@westinghouse.com>
Sent: Wednesday, March 29, 2017 8:16:19 AM
To: McGinnis, Edward; Jaworowski, Suzanne; Scott, Michelle; Jon Chesebro (jonathan.chesebro@trade.gov); Devin Horne; Cutler, Kirsten B; Goorevich, Richard
Subject: Westinghouse announcement

Dear all, I look forward to giving you more info on this action. Jeanne.

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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NEWS RELEASE

Media Contact:
Sarah Cassella
External Communications Manager
Westinghouse Electric Company
Desk: +1 (412) 374-4744
Cell: +1 (724) 272-2997
Email: cassels@westinghouse.com

WESTINGHOUSE ANNOUNCES STRATEGIC RESTRUCTURING

Files for Chapter 11 Protection and Secures $800 Million in DIP Financing to Fund Operations

Cranberry Township, Pa., March 29, 2017 – Westinghouse Electric Company, LLC, a U.S. company, and certain of its subsidiaries and affiliates, today filed voluntary petitions under Chapter 11 of the U.S. Bankruptcy Code. The Company is seeking to undertake a strategic restructuring as a result of certain financial and construction challenges in its U.S. AP1000® power plant projects. Westinghouse has obtained $800 million in debtor-in-possession (DIP) financing from a third-party lender to help fund and protect its core businesses during its reorganization. The Chapter 11 filings took place in the U.S. Bankruptcy Court for the Southern District of New York in New York City.

"Today, we have taken action to put Westinghouse on a path to resolve our AP1000 financial challenges while protecting our core businesses," said Interim President & CEO José Emeterio Gutiérrez. "We are focused on developing a plan of reorganization to emerge from Chapter 11 as a stronger company while continuing to be a global nuclear technology leader."

The DIP financing will fund Westinghouse's core businesses of supporting operating plants, nuclear fuel and components manufacturing and engineering as well as decommissioning, decontamination, remediation and waste management as the company works to reorganize around these strong business units. Existing letters of credit have been cash collateralized in full and will remain in place. The financing will also allow for new letters of credit to be issued.

The Company has reached an agreement with each owner of the U.S. AP1000 projects to continue these projects during an initial assessment period. Westinghouse remains committed to its AP1000 technology as the industry's premier Gen III+ nuclear power plant design, and will continue its existing projects in China as well as pursuit of other potential projects in the future.

Westinghouse's operations in its Asia and Europe, the Middle East and Africa (EMEA) Regions are not impacted by the Chapter 11 filings. Customers in those regions will continue to receive the high-quality products and services they have come to expect in the usual course as the regions will also be supported by the DIP financing.

As part of today's Chapter 11 filings, Westinghouse also filed several "first day" motions with the Court to ensure business continuity through payment of employee salaries, wages and benefits, as

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well as pay its suppliers for the delivery of services. The motions are expected to be approved by the Bankruptcy Court. Westinghouse is represented by Weil, Gotshal & Manges LLP in its Chapter 11 cases.

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Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Thursday, January 11, 2018 3:58 PM
To: Benahmed, Farah (CONTR)
Subject: FW: Westinghouse Advocacy
Attachments: WEC 2nd REVISED SAUDI ADVOCACY QUESTIONNAIRE 2018.pdf

Categories: Blue Category, Red Category, Green Category

Please print

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Document 5

Greenberg, Craig E. (CONTR)

From: Jaworowski, Suzanne
Sent: Tuesday, April 18, 2017 6:07 PM
To: Dannenfelser, Marty
Cc: Wilmot, Dan
Subject: WEC Statement
Attachments: WEC Statement.docx

Categories: Blue Category, Red Category, Green Category

Hi Marty,

Enclosed is the public statement from DOE on the Westinghouse Bankruptcy.

Below is additional commentary for the Congressman:

(b) (5)

Let me know if you have any comments. Thanks!

Suzie

Suzanne Jaworowski
Chief of Staff & Senior Advisor, Office of Nucler Energy
U.S. Department of Energy
(240) 474-7363 | suzanne.jaworowski@hq.doe.gov

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WEC Statement

"The Department of Energy continues to monitor this situation through conversations with relevant stakeholders. DOE has issued a loan guarantee to one of the stakeholders involved, and for that and other important reasons, we are keenly interested in the bankruptcy proceedings and what they mean for taxpayers and the nation. Our position with all parties has been consistent and clear: we expect the parties to honor their commitments and reach an agreement that protects taxpayers, promotes economic growth, and strengthens our energy and national security."

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Document 6

Greenberg, Craig E. (CONTR)

From: Lopatto, Jeanne T. <lopattjt@westinghouse.com>
Sent: Wednesday, March 29, 2017 2:10 PM
To: McCormack, Brian
Subject: WEC press release
Attachments: 2017-005-WESTINGHOUSE ANNOUNCES STRATEGIC RESTRUCTURING.pdf

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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NEWS RELEASE

Media Contact:
Sarah Cassella
External Communications Manager
Westinghouse Electric Company
Desk: +1 (412) 374-4744
Cell: +1 (724) 272-2997
Email: cassels@westinghouse.com

WESTINGHOUSE ANNOUNCES STRATEGIC RESTRUCTURING

Files for Chapter 11 Protection and Secures $800 Million in DIP Financing to Fund Operations

Cranberry Township, Pa., March 29, 2017 – Westinghouse Electric Company, LLC, a U.S. company, and certain of its subsidiaries and affiliates, today filed voluntary petitions under Chapter 11 of the U.S. Bankruptcy Code. The Company is seeking to undertake a strategic restructuring as a result of certain financial and construction challenges in its U.S. AP1000® power plant projects. Westinghouse has obtained $800 million in debtor-in-possession (DIP) financing from a third-party lender to help fund and protect its core businesses during its reorganization. The Chapter 11 filings took place in the U.S. Bankruptcy Court for the Southern District of New York in New York City.

"Today, we have taken action to put Westinghouse on a path to resolve our AP1000 financial challenges while protecting our core businesses," said Interim President & CEO José Emeterio Gutiérrez. "We are focused on developing a plan of reorganization to emerge from Chapter 11 as a stronger company while continuing to be a global nuclear technology leader."

The DIP financing will fund Westinghouse's core businesses of supporting operating plants, nuclear fuel and components manufacturing and engineering as well as decommissioning, decontamination, remediation and waste management as the company works to reorganize around these strong business units. Existing letters of credit have been cash collateralized in full and will remain in place. The financing will also allow for new letters of credit to be issued.

The Company has reached an agreement with each owner of the U.S. AP1000 projects to continue these projects during an initial assessment period. Westinghouse remains committed to its AP1000 technology as the industry's premier Gen III+ nuclear power plant design, and will continue its existing projects in China as well as pursuit of other potential projects in the future.

Westinghouse's operations in its Asia and Europe, the Middle East and Africa (EMEA) Regions are not impacted by the Chapter 11 filings. Customers in those regions will continue to receive the high-quality products and services they have come to expect in the usual course as the regions will also be supported by the DIP financing.

As part of today's Chapter 11 filings, Westinghouse also filed several "first day" motions with the Court to ensure business continuity through payment of employee salaries, wages and benefits, as

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well as pay its suppliers for the delivery of services. The motions are expected to be approved by the Bankruptcy Court. Westinghouse is represented by Weil, Gotshal & Manges LLP in its Chapter 11 cases.

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Document 7

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Wednesday, April 05, 2017 12:53 PM
To: McGinnis, Edward
Subject: FW: Version to Clear with DOE-GC
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Final.docx

Categories: Blue Category, Red Category, Green Category

From: Scott, Michelle
Sent: Wednesday, April 5, 2017 12:17:30 PM
To: Reilly, Thomas; Goodman, Jac; Markus, Stephen; McRae, Ben
Cc: McGinnis, Edward; Jaworowski, Suzanne; Stern, Zachary; Hallock, Andrew; Richards, Andrew; Diamond, Bruce; Lockwood, Andrea; Kim, Dong; Cestari, Kenneth; Phillips, Anne L; Mendelsohn, Kasia
Subject: RE: Version to Clear with DOE-GC

Tom, Stephan and Ben,

Apologies, please use this version of the memo for your review.

Thank you
Michelle

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom,

Attached for your routing trough GC are the following:

(b) (5)

Thanks Michelle

AMERICAN OVERSIGHT

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

(b) (5)

Thanks.

Tom

NNSA Equity

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth

AMERICAN OVERSIGHT

<Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

(b) (5)

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

Thank you
Michelle
-----Original Message-----

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S1 BRIEFING

DOE GC

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: March 6, 2017

TIME: 3:30-4:00

LOCATION: S1 Conference Room

PURPOSE: (b) (5)

PRESS: **Closed**

LOGISTICS: **N/A**

ATTENDEES:

Westinghouse:

- Mr. Gutierrez, Interim President and CEO
- David Howell, President, Americas Region,
- Jeanne Lopatto, Vice President, Government and International Affairs.

DOE:

- Suzanne Jaworowski, Chief of Staff for Nuclear Energy
- Ed McGinnis, Deputy Secretary for International Nuclear Energy Policy & Cooperation, NE
- Other NE staff (TBD)
- NNSA Staff (TBD)
  - Kelly Cummins, Uranium Program Manager (NA-19)
  - Kasia Mendelsohn, Assistant Deputy Administrator for Nonproliferation and Arms Control (NA-24)
- Andrea Lockwood, Acting Assistant Secretary for International Affairs (IA)

BACKGROUND:

(b) (5)

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(b) (5)

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(b) (5)

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(b) (5)

MEETING/ REQUESTED BY: (b) (5)

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

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Document 8

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Wednesday, April 05, 2017 12:50 PM
To: McGinnis, Edward
Subject: FW: Version to Clear with DOE-GC
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Final.docx; 2017-04-05 S1 Westinghouse Meeting TPs - Final.docx; Att 3 - (b) (5) ; Attachment Part 810s for WEC.docx; Att 4 Westinghouse Bios.docx

---

From: Scott, Michelle
Sent: Wednesday, April 5, 2017 12:28:56 PM
To: Fetterly, Brett
Cc: McGinnis, Edward; Jaworowski, Suzanne; Hallock, Andrew; Goodman, Jac; Reilly, Thomas; McRae, Ben
Subject: RE: Version to Clear with DOE-GC

Brett,

(b) (5)

Best
Michelle

From: Fetterly, Brett
Sent: Wednesday, April 05, 2017 10:41 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Hi Michelle,
That sounds great. Thank you!

Brett

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 10:26 AM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Brett,

I will have some updates to the memo and tps, so I'm targeting getting finals to you by 11:30ish.

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Best
Michelle

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 10:24 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Stephen.

(b) (5)

Best
Michelle

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

(b) (5)

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy

AMERICAN OVERSIGHT

1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

Thank you
Michelle

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NNSA Equity

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S1 BRIEFING

DOE GC

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: March 6, 2017

TIME: 3:30-4:00

LOCATION: S1 Conference Room

PURPOSE: (b) (5)

PRESS: **Closed**

LOGISTICS: **N/A**

ATTENDEES:

Westinghouse:

- Mr. Gutierrez, Interim President and CEO
- David Howell, President, Americas Region,
- Jeanne Lopatto, Vice President, Government and International Affairs.

DOE:

- Suzanne Jaworowski, Chief of Staff for Nuclear Energy
- Ed McGinnis, Deputy Secretary for International Nuclear Energy Policy & Cooperation, NE
- Other NE staff (TBD)
- NNSA Staff (TBD)
  - Kelly Cummins, Uranium Program Manager (NA-19)
  - Kasia Mendelsohn, Assistant Deputy Administrator for Nonproliferation and Arms Control (NA-24)
- Andrea Lockwood, Acting Assistant Secretary for International Affairs (IA)

BACKGROUND:

(b) (5)

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(b) (5)

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(b) (5)

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(b) (5)

MEETING/ REQUESTED BY: (b) (5)

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

(b) (5)

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S1 BRIEFING

ATTACHMENT 2: TALKING POINTS

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(b) (5)

TALKING POINTS FOR "IF RAISED" ISSUES

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S1 BRIEFING

Attachment 3

(b) (5)

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José Emeterio Gutiérrez
Interim President & CEO



José Emeterio Gutiérrez has been recently appointed Interim President and CEO of Westinghouse Electric Company following his position as Senior Vice President of the Westinghouse global Nuclear Fuel and Components Manufacturing organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and services to a global customer base.

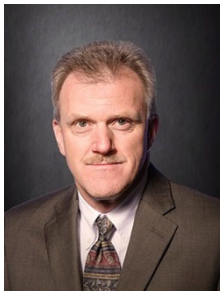
Prior to this role, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

He has been and continues to serve as chairman, CEO and president of several Westinghouse subsidiaries across the globe. Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States. He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the (b) (6)

David A. Howell, P.E.
President – Americas Region



David Howell brings over 34 years of strategic nuclear industry leadership to his role as president, Americas Region.

Appointed to the position in March 2017, Howell leads Westinghouse customer relationship management and all commercial responsibilities for the core business of Westinghouse in the Americas Region including account team development and deployment. He oversees the company's global commercial and marketing organization, government and international affairs, global security and facilities management. Most recently, Howell was senior vice president, Operating Plant Business, where he held executive operational responsibility for all products and services related to growth and enhancement of the company's instrumentation and control (I&C) business, outage support and plant

AMERICAN OVERSIGHT

modification services. He also oversaw engineering products and nuclear parts for pressurized water reactors and boiling water reactors worldwide.

In a previous role as Westinghouse vice president of Global Field Services, Howell had complete executive oversight of the company's outage support, advanced products, nuclear power plant component services and customer training globally.

Howell has held engineering and field operations management positions for the company's business lines related to reactor vessel and steam generator inspection, and repair for pressurized water reactor nuclear steam supply systems. He also was a lead design engineer for remote reactor repair projects.

He holds six patents for innovative equipment serving this market. Howell is a (b) (6) . He also is a certified Customer 1st Leader and was the deployment director for that program within the Westinghouse Nuclear Fuel business, where he drove implementation throughout that business.

A registered professional engineer in Pennsylvania, Howell has a bachelor's degree in mechanical engineering from (b) (6) (USA). He is a member of the (b) (6) , and is an (b) (6) in America.

Howell also is a member of the Westinghouse Operating Committee and a past member of the Westinghouse Board of Directors. He is also a member of several advisory committees and steering groups sponsored by the Nuclear Energy Institute.

Jeanne T. Lopatto
Vice President, Government & International Affairs



Jeanne T. Lopatto, Vice President of Government and International Affairs at Westinghouse Electric Company, heads the firm's Washington, D.C. office and is the primary point of contact between the company and the U.S. Government, as well as with Washington, D.C.-based foreign embassies. In this capacity, she plays a crucial role in formulating Westinghouse's policy strategies and advises decision makers on issues important to Westinghouse.

Before joining Westinghouse, Jeanne was the Special Assistant for International and Federal Affairs to Nils Diaz, Chairman of the U.S. Nuclear Regulatory Commission. From 2001 to 2005, she was the Director of Public Affairs at the U.S. Department of Energy, where she served as the official spokesperson for Energy Secretary Spencer Abraham and directed the public relations programs for DOE. Before that she worked on Capitol Hill for Sen. Orrin G. Hatch (R-UT) in a variety of media relations positions, including Press Secretary for the U.S. Senate Judiciary Committee.

A native of Pennsylvania, Ms. Lopatto is a graduate of (b) (6) .

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Document 9

Greenberg, Craig E. (CONTR)

From: Wilmot, Dan
Sent: Wednesday, June 07, 2017 7:15 AM
To: Sneed, John;McGinnis, Edward;Kim, Dong
Subject: FW: updated Westinghouse paper
Attachments: 2017.06.06 - Memo - Update on the Toshiba-Westinghouse Situation.docx

Categories: Blue Category, Red Category, Green Category

Great stuff.

From: McGinnis, Edward
Sent: Tuesday, June 06, 2017 6:33 PM
To: Wilmot, Dan <Dan.Wilmot@hq.doe.gov>
Cc: Kim, Dong <Dong.Kim@hq.doe.gov>
Subject: FW: updated Westinghouse paper

Dan, attached is a Westinghouse update, which reflects DK/LPO input. Will bring copies for you tomorrow when we meet.

Best,

Ed

From: Richards, Andrew
Sent: Tuesday, June 6, 2017 6:00:03 PM
To: McGinnis, Edward
Cc: Furstenau, Raymond (HQ); Jaworowski, Suzanne; Kim, Dong; Lennon, Sarah; Meikle, Grace K. (CONTR)
Subject: RE: updated Westinghouse paper

Ed,

Attached is a clean version of the updated memo. Sarah, Grace, and Dong all edited it.

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, June 06, 2017 12:59 PM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Subject: updated Westinghouse paper

(b) (5)

Thanks,

Ed

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Department of Energy
Washington, DC 20585

June 6, 2017

TOSHIBA-WESTINGHOUSE SITUATION UPDATE

(b) (5)

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Printed with soy ink on recycled paper

(b) (5)

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(b) (5)

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Greenberg, Craig E. (CONTR)

From: Wilmot, Dan
Sent: Tuesday, June 06, 2017 7:47 PM
To: McCormack, Brian
Subject: FW: updated Westinghouse paper
Attachments: 2017.06.06 - Memo - Update on the Toshiba-Westinghouse Situation.docx

Categories: Blue Category, Red Category, Green Category

For your review

From: McGinnis, Edward
Sent: Tuesday, June 6, 2017 6:32:37 PM
To: Wilmot, Dan
Cc: Kim, Dong
Subject: FW: updated Westinghouse paper

Dan, attached is a Westinghouse update, which reflects DK/LPO input. Will bring copies for you tomorrow when we meet.

Best,

Ed

From: Richards, Andrew
Sent: Tuesday, June 6, 2017 6:00:03 PM
To: McGinnis, Edward
Cc: Furstenau, Raymond (HQ); Jaworowski, Suzanne; Kim, Dong; Lennon, Sarah; Meikle, Grace K. (CONTR)
Subject: RE: updated Westinghouse paper

Ed,

Attached is a clean version of the updated memo. Sarah, Grace, and Dong all edited it.

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, June 06, 2017 12:59 PM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Subject: updated Westinghouse paper

(b) (5)

Thanks,

Ed

AMERICAN OVERSIGHT

Department of Energy
Washington, DC 20585

June 6, 2017

TOSHIBA-WESTINGHOUSE SITUATION UPDATE

(b) (5)

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(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Document 11

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Friday, June 16, 2017 11:54 AM
To: McGinnis, Edward
Subject: Update on the Toshiba-Westinghouse Situation_6-16-17
Attachments: Update on the Toshiba-Westinghouse Situation_6-16-17.docx

Categories: Blue Category, Red Category, Green Category

AMERICAN OVERSIGHT

June 12, 2017

TOSHIBA-WESTINGHOUSE SITUATION UPDATE

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Tuesday, May 30, 2017 10:39 AM
To: Hoffman, Patricia
Subject: FW: Toshiba-Westinghouse Summary Paper
Attachments: 2017.05.26 - Memo - Update on the Toshiba-Westinghouse Situation.docx

Really great speaking with you this morning, Pat! Thanks for your time. Per our discussion, attached is the Toshiba-Westinghouse summary status paper. ALSO, my cell phone is (b) (6) and my home number is (b) (6) . Cell is the best way to reach me by phone. If I cannot answer when you call, I will call you back just as soon as I can. And regarding the (b) (5)

Thanks!

Ed

From: McGinnis, Edward
Sent: Friday, May 26, 2017 7:37:06 PM
To: McCormack, Brian
Cc: Wilmot, Dan; Jones, Susanne
Subject: FW: Toshiba-Westinghouse Summary Paper

Plus Susanne, who I also meant to cc.

From: McGinnis, Edward
Sent: Friday, May 26, 2017 11:57:34 AM
To: McCormack, Brian
Cc: Wilmot, Dan
Subject: Toshiba-Westinghouse Summary Paper

Brian, per our discussion, attached is a summary paper of the Toshiba-Westinghouse situation. Let me know if this hits the mark or if you need anything else.

Ok, back to spreading the good word here at TAMU!

Best,

Ed

From: Richards, Andrew
Sent: Friday, May 26, 2017 11:38:21 AM
To: McGinnis, Edward
Subject: Update on the Toshiba-Westinghouse Situation

AMERICAN OVERSIGHT

Ed,

Per your request, attached is a summary paper of the Toshiba/Westinghouse/Vogtle/Summer paper.

Andrew Richards
Deputy Chief of Staff
Office of Nuclear Energy

AMERICAN OVERSIGHT

Department of Energy
Washington, DC 20585

May 26, 2017

TOSHIBA-WESTINGHOUSE SITUATION UPDATE

(b) (5)

AMERICAN OVERSIGHT

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(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Document 13

Greenberg, Craig E. (CONTR)

From:	McGinnis, Edward
Sent:	Friday, May 12, 2017 1:31 PM
To:	Jaworowski, Suzanne
Cc:	Meikle, Grace K. (CONTR)
Subject:	FW: Toshiba-WEC -short version
Attachments:	Toshiba WEC_USG_LPO_NE6_short_cleanNE.docx

FYI!

-----Original Message-----
From: Meikle, Grace K. (CONTR)
Sent: Friday, May 12, 2017 1:20 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: Toshiba-WEC -short version

Hi Ed,

Here's the short version of Toshiba-WEC. Would you like to take a look before I send it forward to Andrew and Suzie? It's less than 2 pages!

Thank you,
Grace

AMERICAN OVERSIGHT

S1 BRIEFING

Toshiba-Westinghouse Situation

Briefing prepared by: Grace Meikle (NE-6)
Briefing reviewed by: (b) (5)

BACKGROUND AND RELEVANCE TO TRIP/MEETING

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

CLEARANCES:

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Friday, June 02, 2017 9:25 AM
To: McGinnis, Edward
Subject: TAB 05-1 S1-Toshiba_Att 1_TPs BU
Attachments: TAB 05-1 S1-Toshiba_Att 1_TPs BU.docx

(b) (5)

AMERICAN OVERSIGHT

OFFICIAL USE ONLY
June 2017

TALKING POINTS

(b) (5)

S1 BRIEFING

Formatted: Indent: Left: 0", Hanging: 0.25"

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Document 15

Greenberg, Craig E. (CONTR)

From: McGinnis, Edward
Sent: Friday, June 02, 2017 9:04 AM
To: McGinnis, Edward
Subject: TAB 05-1 S1-Toshiba_Att 1_TPs BU
Attachments: TAB 05-1 S1-Toshiba_Att 1_TPs BU.docx

Categories: Blue Category, Red Category, Green Category

AMERICAN OVERSIGHT

TALKING POINTS

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Burkart, Alex R (b) (6)
Sent: Wednesday, October 25, 2017 9:26 PM
To: Cutler, Kirsten B;Lennon, Sarah;Jonathan Chesebro;Devin Horne
Cc: Scott, Michelle
Subject: Re: Potential Additional Bilats for ED at the IAEA UAE Ministerial - URGENT!!

(b) (5)

Sent from my BlackBerry 10 smartphone.
From: Cutler, Kirsten B
Sent: Wednesday, October 25, 2017 17:13
To: Lennon, Sarah (Contact); Jonathan Chesebro; Burkart, Alex R; Devin Horne
Cc: Scott, Michelle
Subject: RE: Potential Additional Bilats for ED at the IAEA UAE Ministerial - URGENT!!

Ah ok – got it!

SBU
This email is UNCLASSIFIED.

From: Lennon, Sarah [mailto:Sarah.Lennon@Nuclear.Energy.gov]
Sent: Wednesday, October 25, 2017 5:10 PM
To: Cutler, Kirsten B; Jonathan Chesebro; Burkart, Alex R; Devin Horne
Cc: Scott, Michelle
Subject: RE: Potential Additional Bilats for ED at the IAEA UAE Ministerial - URGENT!!

Super, thanks Kirsten. Very helpful.
b(5)

Best,
Sarah

From: Cutler, Kirsten B [mailto (b) (6)
Sent: Wednesday, October 25, 2017 5:00 PM

AMERICAN OVERSIGHT

To: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov<mailto:Sarah.Lennon@Nuclear.Energy.gov>>; Jonathan Chesebro <Jonathan.Chesebro@trade.gov<mailto:Jonathan.Chesebro@trade.gov>>; Burkart, Alex R (b) (6) ; Devin Horne <Devin.Horne@trade.gov<mailto:Devin.Horne@trade.gov>>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov<mailto:MICHELLE.SCOTT@nuclear.energy.gov>>
Subject: RE: Potential Additional Bilats for ED at the IAEA UAE Ministerial - URGENT!!

Sarah – Couple thoughts from me:

(b) (5)

Alex – please add/correct as needed.

SBU
This email is UNCLASSIFIED.

From: Lennon, Sarah [mailto:Sarah.Lennon@Nuclear.Energy.gov]
Sent: Wednesday, October 25, 2017 4:42 PM
To: Jonathan Chesebro; Cutler, Kirsten B; Burkart, Alex R; Devin Horne
Cc: Scott, Michelle
Subject: RE: Potential Additional Bilats for ED at the IAEA UAE Ministerial - URGENT!!

Thanks Jon!

Trade Equity

AMERICAN OVERSIGHT

Trade Equity

From: Lennon, Sarah [mailto:Sarah.Lennon@Nuclear.Energy.gov]
Sent: Wednesday, October 25, 2017 4:24 PM
To: Kirsten Cutler; Burkart, Alex R; Jonathan Chesebro; Devin Horne
Cc: Scott, Michelle; Lennon, Sarah
Subject: FW: Potential Additional Bilats for ED at the IAEA UAE Ministerial - URGENT!!

State and Commerce colleagues,
Please see the email below that we just got regarding some new ideas Ed has for possible bilats next week.
He is seeking your thoughts and suggestions as to whether he should try to have these meetings. I know this is late/last minute, but would greatly appreciate your thoughts as quickly as is humanly possible.

Thanks, (and sorry…)
Sarah

From: Richards, Andrew
Sent: Wednesday, October 25, 2017 4:20 PM
To: Duskas, Andrea (b) (6) ; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov<mailto:Sarah.Lennon@Nuclear.Energy.gov>>
Cc: Benahmed, Farah (CONTR) <Farah.Benahmed@nuclear.energy.gov<mailto:Farah.Benahmed@nuclear.energy.gov>>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov<mailto:MICHELLE.SCOTT@nuclear.energy.gov>>; Bisconti, Giulia <Giulia.Bisconti@nuclear.energy.gov<mailto:Giulia.Bisconti@nuclear.energy.gov>>
Subject: Potential Additional Bilats at the IAEA UAE Ministerial - Revised

(I've revised the email below to add b(5))

Hi Andrea and Sarah,

Ed just reviewed the list of attendees for the IAEA Ministerial and had a few more possible requests for bilats.

I understand that we're only a few days out and some of these may be difficult to schedule, but let's just hope for the best.

AMERICAN OVERSIGHT

b(5)

The countries he is interested in are:

b(5)

AMERICAN OVERSIGHT

b(5)

Email, call, or text me any questions. Thank you all.

Andrew

AMERICAN OVERSIGHT

EXPORT CONTROL FOR NUCLEAR PROJECT (b) (5)

The following briefly summarizes considerations under the Department of Energy's ("DOE") export control regulations with respect to a U.S. company (b) (5)

Section 123 Agreement: (b) (5)
(b) (5)

Specific Authorization Under Part 810: (b) (5)
(b) (5)

AMERICAN OVERSIGHT

(b) (5)

The process for obtaining a Specific Authorization from DOE includes the following steps:

(b) (5)

AMERICAN OVERSIGHT

Dear :

The United States and (b) (5) collaborative relationship in the area of civil nuclear cooperation. (b) (5)

(b) (5)

AMERICAN OVERSIGHT

PRIVILEGED ATTORNEY WORK PRODUCT

Background:

(b) (5)

Talking Points for Discussion with (b) (5)

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Background:

(b) (5)

Talking Points for Discussion with (b) (5)

(b) (5)

AMERICAN OVERSIGHT

Background:

(b) (5)

Talking Points for Discussion with (b) (5)

(b) (5)

AMERICAN OVERSIGHT

OFFICIAL USE ONLY (Size 10)
March 2017

S1 BRIEFING

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: April 6, 2017
TIME: 3:30-4:00
LOCATION: S1 Conference Room

PURPOSE: (b) (5)

PRESS: **Closed**

LOGISTICS: **N/A**

ATTENDEES:

Westinghouse:

- Mr. Gutierrez, Interim President and CEO
- David Howell, President, Americas Region,
- Jeanne Lopatto, Vice President, Government and International Affairs.

DOE:

- Ed McGinnis, Deputy Secretary for International Nuclear Energy Policy and Cooperation, NE-6
- Michelle Scott, Senior Advisor, International Nuclear Energy Policy and Cooperation, NE-6
- NNSA Staff (TBD)
  - Kelly Cummins, Uranium Program Manager (NA-19)
  - Kasia Mendelsohn, Assistant Deputy Administrator for Nonproliferation and Arms Control (NA-24)
- Andrea Lockwood, Acting Assistant Secretary for International Affairs (IA)

BACKGROUND:

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

(b) (5)

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-001171

OFFICIAL USE ONLY
March 2017

ATTACHMENT 2: TALKING POINTS

(b) (5)

(b) (5)

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(b) (5)

TALKING POINTS FOR "IF RAISED" ISSUES

(b) (5)

AMERICAN OVERSIGHT

(b) (5)



AMERICAN OVERSIGHT

Document 8

Talking Points

(b) (5)

Additional Protocol

(b) (5)

Joint Fuel Cycle Study

(b) (5)

International Nuclear Energy Research Initiative (INERI)

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Hymer, Christina
Sent: Friday, April 13, 2018 4:21 PM
To: Reilly, Thomas;Markus, Stephen
Subject: RE: WEC Meeting with S1 and Basu

Categories: Orange Category, Green Category

You too!

From: Reilly, Thomas
Sent: Friday, April 13, 2018 4:08 PM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Subject: RE: WEC Meeting with S1 and Basu

Thanks to you both!

Have a great weekend.

Tom

From: Hymer, Christina
Sent: Friday, April 13, 2018 4:03 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Hi Stephen,

(b) (5) Thanks for following up.

Have a great weekend!
Tina

From: Markus, Stephen
Sent: Friday, April 13, 2018 3:55 PM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Hi Tina,

Please see the attached email from Commerce. In light of this and our previous conversation, I was thinking of a response along the following lines:

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

Any thoughts or comments are much appreciated.

Thanks,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 2:05 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

From: Markus, Stephen
Sent: Friday, April 13, 2018 11:13 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

Thanks,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 10:58 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

From: Markus, Stephen
Sent: Friday, April 13, 2018 10:09 AM

AMERICAN OVERSIGHT

To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Thanks very much, Tina. In this case, my understanding was that (b) (5)
(b) (5)

Thanks,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 9:56 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Hi Stephen,
(b) (5)

Let me know if you would like to discuss.

Thanks,
Tina

From: Markus, Stephen
Sent: Thursday, April 12, 2018 5:04 PM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: FW: WEC Meeting with S1 and Basu

Hi Tina,

Many thanks in advance!

Stephen

AMERICAN OVERSIGHT

From: Crosland, Armando (LAB)
Sent: Thursday, April 12, 2018 4:23 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: WEC Meeting with S1 and Basu

Stephen, Anita-

(b) (5)

-Armando

From: Crosland, Armando (LAB)
Sent: Thursday, April 12, 2018 4:16 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>
Cc: Lennon, Sarah <sarah.lennon@nuclear.energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: WEC Meeting with S1 and Basu
Importance: High

Stephen, Anita-

(b) (5)

Armando Crosland
Office of International Nuclear Energy Policy and Cooperation
U.S. Department of Energy
(O): 202-586-3357
(E): Armando.Crosland@Nuclear.Energy.Gov

From: Yu, Alan
Sent: Thursday, April 12, 2018 4:03 PM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Cc: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>; Murali, Margaux <margaux.murali@hq.doe.gov>; Browne, Samuel <Samuel.BROWNE@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Armando—

(b) (5)

Alan

AMERICAN OVERSIGHT

From: Crosland, Armando (LAB)
Sent: Thursday, April 12, 2018 3:44 PM
To: Yu, Alan <Alan.Yu@Hq.Doe.Gov>
Cc: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>; Murali, Margaux <margaux.murali@hq.doe.gov>; Browne, Samuel <Samuel.BROWNE@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

-Armando

From: Yu, Alan
Sent: Thursday, April 12, 2018 3:21 PM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Cc: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>; Murali, Margaux <margaux.murali@hq.doe.gov>; Browne, Samuel <Samuel.BROWNE@hq.doe.gov>
Subject: FW: WEC Meeting with S1 and Basu

Armando—
Thanks for this. Do you know if the (b) (5)
Thanks,
Alan

State Equity

AMERICAN OVERSIGHT

State Equity

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Markus, Stephen
Sent: Friday, April 13, 2018 4:05 PM
To: Hymer, Christina
Cc: Reilly, Thomas
Subject: RE: WEC Meeting with S1 and Basu

Categories: Orange Category, Green Category

Excellent. Thanks, Tina! I will then close the loop with NE and IA.

Hope you have a great weekend as well.

Best,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 4:03 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Hi Stephen,

(b) (5) Thanks for following up.

Have a great weekend!
Tina

From: Markus, Stephen
Sent: Friday, April 13, 2018 3:55 PM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Hi Tina,

Please see the attached email from Commerce. In light of this and our previous conversation, I was thinking of a response along the following lines:

(b) (5)

Any thoughts or comments are much appreciated.

AMERICAN OVERSIGHT

Thanks,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 2:05 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

From: Markus, Stephen
Sent: Friday, April 13, 2018 11:13 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

Thanks,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 10:58 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

From: Markus, Stephen
Sent: Friday, April 13, 2018 10:09 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Thanks very much, Tina. In this case, my understanding was that (b) (5)

AMERICAN OVERSIGHT

(b) (5)

Thanks,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 9:56 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Hi Stephen,

(b) (5)

Let me know if you would like to discuss.

Thanks,
Tina

From: Markus, Stephen
Sent: Thursday, April 12, 2018 5:04 PM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: FW: WEC Meeting with S1 and Basu

Hi Tina,

(b) (5)

Many thanks in advance!

Stephen

From: Crosland, Armando (LAB)
Sent: Thursday, April 12, 2018 4:23 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: WEC Meeting with S1 and Basu

Stephen, Anita-

AMERICAN OVERSIGHT

(b) (5)

-Armando

From: Crosland, Armando (LAB)
Sent: Thursday, April 12, 2018 4:16 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>
Cc: Lennon, Sarah <sarah.lennon@nuclear.energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: WEC Meeting with S1 and Basu
Importance: High

Stephen, Anita-

(b) (5)

Armando Crosland
Office of International Nuclear Energy Policy and Cooperation
U.S. Department of Energy
(O): 202-586-3357
(E): Armando.Crosland@Nuclear.Energy.Gov

From: Yu, Alan
Sent: Thursday, April 12, 2018 4:03 PM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Cc: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>; Murali, Margaux <margaux.murali@hq.doe.gov>; Browne, Samuel <Samuel.BROWNE@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Armando—
(b) (5)

Alan

From: Crosland, Armando (LAB)
Sent: Thursday, April 12, 2018 3:44 PM
To: Yu, Alan <Alan.Yu@Hq.Doe.Gov>
Cc: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>; Murali, Margaux <margaux.murali@hq.doe.gov>; Browne, Samuel

AMERICAN OVERSIGHT

<Samuel.BROWNE@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

-Armando

From: Yu, Alan
Sent: Thursday, April 12, 2018 3:21 PM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Cc: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>; Murali, Margaux <margaux.murali@hq.doe.gov>; Browne, Samuel <Samuel.BROWNE@hq.doe.gov>
Subject: FW: WEC Meeting with S1 and Basu

Armando—
Thanks for this. Do you know if the (b) (5)
Thanks,
Alan

State Equity

AMERICAN OVERSIGHT

State Equity

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Markus, Stephen
Sent: Friday, April 13, 2018 2:19 PM
To: Reilly, Thomas
Subject: FW: WEC Meeting with S1 and Basu

Categories: Orange Category, Green Category

Tom- FYI, I just spoke with Tina and brought her up to speed. She shared a few thoughts, but (b) (5)

Thanks,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 2:05 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

From: Markus, Stephen
Sent: Friday, April 13, 2018 11:13 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

Thanks,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 10:58 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

AMERICAN OVERSIGHT

(b) (5)

From: Markus, Stephen
Sent: Friday, April 13, 2018 10:09 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

Thanks,
Stephen

From: Hymer, Christina
Sent: Friday, April 13, 2018 9:56 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

Hi Stephen,

(b) (5)

Let me know if you would like to discuss.

Thanks,
Tina

From: Markus, Stephen
Sent: Thursday, April 12, 2018 5:04 PM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: FW: WEC Meeting with S1 and Basu

Hi Tina,

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

Many thanks in advance!

Stephen

From: Crosland, Armando (LAB)
Sent: Thursday, April 12, 2018 4:23 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: WEC Meeting with S1 and Basu

Stephen, Anita-

(b) (5)

-Armando

From: Crosland, Armando (LAB)
Sent: Thursday, April 12, 2018 4:16 PM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>
Cc: Lennon, Sarah <sarah.lennon@nuclear.energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: WEC Meeting with S1 and Basu
Importance: High

Stephen, Anita-

(b) (5)

Armando Crosland
Office of International Nuclear Energy Policy and Cooperation
U.S. Department of Energy
(O): 202-586-3357
(E): Armando.Crosland@Nuclear.Energy.Gov

From: Yu, Alan
Sent: Thursday, April 12, 2018 4:03 PM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Cc: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>; Murali, Margaux <margaux.murali@hq.doe.gov>; Browne, Samuel <Samuel.BROWNE@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

AMERICAN OVERSIGHT

Armando—
(b) (5)

Alan

From: Crosland, Armando (LAB)
Sent: Thursday, April 12, 2018 3:44 PM
To: Yu, Alan <Alan.Yu@Hq.Doe.Gov>
Cc: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>; Murali, Margaux <margaux.murali@hq.doe.gov>; Browne, Samuel <Samuel.BROWNE@hq.doe.gov>
Subject: RE: WEC Meeting with S1 and Basu

(b) (5)

-Armando

From: Yu, Alan
Sent: Thursday, April 12, 2018 3:21 PM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Cc: Considine, Michael <Michael.Considine@hq.doe.gov>; Telleen, Paul <Paul.Telleen@hq.doe.gov>; Benaissa, Ariadne <Ariadne.Benaissa@Hq.Doe.Gov>; Murali, Margaux <margaux.murali@hq.doe.gov>; Browne, Samuel <Samuel.BROWNE@hq.doe.gov>
Subject: FW: WEC Meeting with S1 and Basu

Armando—
Thanks for this. Do you know if the (b) (5)
Thanks,
Alan

State Equity

AMERICAN OVERSIGHT

State Equity

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 1:00 PM
To: GC Concurrence Actions;McRae, Ben;Capoferri, Anita;Crosland, Martha;Dinunzio, Nicholas;Markus, Stephen;Hymer, Christina;Michaels, K.C.
Cc: Lucas, John T.;Brown, Michael
Subject: FW: Version to Clear with DOE-GC - (b) (5)
Attachments: 2017-04-05 S1 Westinghouse Meeting TPs - Final (GC-53).docx; Attachment Part 810s for WEC (GC-53).docx; 2017-04-05 S1 Westinghouse Meeting Memo - Final (GC-53).docx

Categories: Orange Category, Green Category

HI All,

We had some minor suggested edits in the attached. Otherwise (b) (5)

Thanks.

Tom

From: GC Concurrence Actions
Sent: Wednesday, April 05, 2017 12:27 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Crosland, Martha <Martha.Crosland@hq.doe.gov>; Dinunzio, Nicholas <Nicholas.Dinunzio@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>; Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC - (b) (5)

For your review and concurrence. Please let me know if I should forward to anyone else.

Thanks,
Therese

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 12:20 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Cc: McRae, Ben <Ben.McRae@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Sorry –just got this updated version.

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:18 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen

AMERICAN OVERSIGHT

<Stephen.Markus@Hq.Doe.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom, Stephan and Ben,

Apologies, please use this version of the memo for your review.

Thank you
Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 12:17 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Hi Therese,

I just go this from NNSA looking for GC concurrence. I've forwarded separately to Ben and Tina – not sure who else might need to see, maybe Herb?

They are sending up to S1 already but wanted DOE GC to chop. I told them we would do our best.

Thanks.

Tom

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom,

Attached for your routing trough GC are the following:

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

Michelle – as we discussed - (b) (5)

Thanks.

Tom

NNSA Equity

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>

AMERICAN OVERSIGHT

Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

On quick review, attached are my few suggested nits and one comment on the last talking point. Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle
-----Original Message-----

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NNSA Equity

NNSA Equity

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NNSA Equity

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AMERICAN OVERSIGHT

S1 BRIEFING

ATTACHMENT 2: TALKING POINTS

(b) (5)

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(b) (5)

AMERICAN OVERSIGHT

Attachment 3

(b) (5)

AMERICAN OVERSIGHT

OFFICIAL USE ONLY (Size 10)
March 2017

S1 BRIEFING

DOE GC
EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**
DATE: ~~March~~ April 6, 2017
TIME: 3:30-4:00
LOCATION: S1 Conference Room

PURPOSE:
(b) (5)

PRESS:

LOGISTICS:

ATTENDEES:

BACKGROUND:
(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

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AMERICAN OVERSIGHT

(b) (5)

S1 BRIEFING

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

Sent: Wednesday, April 05, 2017 4:35 PM
To: Keokuk, Therese
Subject: FW: Version to Clear with DOE-GC
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Finalrev1.docx

Hi Therese,

Ben made his changes to the final version.

From: McRae, Ben
Sent: Wednesday, April 05, 2017 1:22 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

A few additional edits and comments

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:18 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom, Stephan and Ben,

Apologies, please use this version of the memo for your review.

Thank you
Michelle

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne

AMERICAN OVERSIGHT

<Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom,

Attached for your routing trough GC are the following:

(b) (5)

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

Michelle – as we discussed - (b) (5)

Thanks.

Tom

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

On quick review, attached are my few suggested nits and one comment on the last talking point. Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia

AMERICAN OVERSIGHT

<Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

Thank you
Michelle

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

NNSA Equity

AMERICAN OVERSIGHT

S1 BRIEFING

DOE GC

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: March 6, 2017 ?

TIME: 3:30-4:00

LOCATION: S1 Conference Room

PURPOSE: (b) (5)

PRESS:

LOGISTICS:

ATTENDEES:

BACKGROUND:

(b) (5)

AMERICAN OVERSIGHT

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 4:28 PM
To: Keokuk, Therese
Subject: FW: Version to Clear with DOE-GC
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Finalrev1.docx

Categories: Orange Category, Green Category

Hi Therese,

This is what Ben sent.

Thanks.

Tom

From: McRae, Ben
Sent: Wednesday, April 05, 2017 1:22 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

A few additional edits and comments

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:18 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom, Stephan and Ben,

Apologies, please use this version of the memo for your review.

Thank you
Michelle

AMERICAN OVERSIGHT

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom,

Attached for your routing trough GC are the following:

(b) (5)

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

Michelle – as we discussed - (b) (5)

Thanks.

Tom

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NNSA Equity

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

On quick review, attached are my few suggested nits and one comment on the last talking point. Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>

AMERICAN OVERSIGHT

Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

Thank you
Michelle

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NNSA Equity

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NNSA Equity

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S1 BRIEFING

DOE GC

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: March 6, 2017 ?

TIME: 3:30-4:00

LOCATION: S1 Conference Room

PURPOSE: (b) (5)

PRESS:

LOGISTICS:

ATTENDEES:

BACKGROUND:

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

AMERICAN OVERSIGHT

Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 1:01 PM
To: Hymer, Christina
Subject: FW: Version to Clear with DOE-GC
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Final.docx; 2017-04-05 S1 Westinghouse Meeting TPs - Final.docx; Att 3 - 2017-04-04 Active Westinghouse Advocacy Center Cases.xlsx; Attachment Part 810s for WEC.docx; Att 4 Westinghouse Bios.docx

Importance: High

Categories: Orange Category, Green Category

Hi Tina,

(b) (5)

Thanks.

Tom

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:29 PM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC
Importance: High

Brett,

Attached are the latest versions of the (b) (5)
(b) (5)

If there are any substantive changes from GC I will send them forward.

Best
Michelle

From: Fetterly, Brett
Sent: Wednesday, April 05, 2017 10:41 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Hi Michelle,

AMERICAN OVERSIGHT

That sounds great. Thank you!

Brett

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 10:26 AM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Brett,

I will have some updates to the memo and tps, so I'm targeting getting finals to you by 11:30ish.

Best
Michelle

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 10:24 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Stephen.

Just spoke with Jac, I'm waiting to receive all new edits on the memo from either Jac or Andy which will include your comments as well. I shooting to get the updated memo to Brett by 11:30ish.

Best
Michelle

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

AMERICAN OVERSIGHT

Michelle-

On quick review, attached are my few suggested nits and one comment on the last talking point. Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

Thank you
Michelle

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NNSA Equity

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NNSA Equity

S1 BRIEFING

DOE GC

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: March 6, 2017

TIME: 3:30-4:00

LOCATION: S1 Conference Room

PURPOSE: (b) (5)

PRESS:

LOGISTICS:

ATTENDEES:

BACKGROUND:

(b) (5)

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-001234

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-001236

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

(b) (5)

AMERICAN OVERSIGHT

S1 BRIEFING

ATTACHMENT 2: TALKING POINTS

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

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Advocacy Center Active Cases for Westinghouse - OUO

Case Number	AC Project Name	AC Project Status	AC Expected Project Value	AC Expected U.S. Export Content	Case Owner: Full Name	Actual Create Date
(b) (5)						

DOE-19-0315, 19-0316, 19-0318-A-001240

Attachment 3

(b) (5)

AMERICAN OVERSIGHT

José Emeterio Gutiérrez
Interim President & CEO



José Emeterio Gutiérrez has been recently appointed Interim President and CEO of Westinghouse Electric Company following his position as Senior Vice President of the Westinghouse global Nuclear Fuel and Components Manufacturing organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and services to a global customer base.

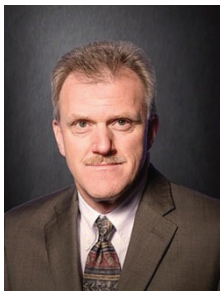
Prior to this role, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

He has been and continues to serve as chairman, CEO and president of several Westinghouse subsidiaries across the globe. Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States. He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st Green Belt.

David A. Howell, P.E.
President – Americas Region



David Howell brings over 34 years of strategic nuclear industry leadership to his role as president, Americas Region.

Appointed to the position in March 2017, Howell leads Westinghouse customer relationship management and all commercial responsibilities for the core business of Westinghouse in the Americas Region including account team development and deployment. He oversees the company's global commercial and marketing organization, government and international affairs, global security and facilities management. Most recently, Howell was senior vice president, Operating Plant Business, where he held executive operational responsibility for all products and services related to growth and enhancement of the company's instrumentation and control (I&C) business, outage support and plant

AMERICAN OVERSIGHT

modification services. He also oversaw engineering products and nuclear parts for pressurized water reactors and boiling water reactors worldwide.

In a previous role as Westinghouse vice president of Global Field Services, Howell had complete executive oversight of the company's outage support, advanced products, nuclear power plant component services and customer training globally.

Howell has held engineering and field operations management positions for the company's business lines related to reactor vessel and steam generator inspection, and repair for pressurized water reactor nuclear steam supply systems. He also was a lead design engineer for remote reactor repair projects.

He holds six patents for innovative equipment serving this market. Howell is a black belt in Six Sigma and Lean processes. He also is a certified Customer 1st Leader and was the deployment director for that program within the Westinghouse Nuclear Fuel business, where he drove implementation throughout that business.

A registered professional engineer in Pennsylvania, Howell has a bachelor's degree in mechanical engineering from Geneva College in Beaver Falls, Pennsylvania (USA). He is a member of the Geneva College Advanced Board, and is an elder in the Presbyterian Church in America.

Howell also is a member of the Westinghouse Operating Committee and a past member of the Westinghouse Board of Directors. He is also a member of several advisory committees and steering groups sponsored by the Nuclear Energy Institute.

Jeanne T. Lopatto
Vice President, Government & International Affairs



Jeanne T. Lopatto, Vice President of Government and International Affairs at Westinghouse Electric Company, heads the firm's Washington, D.C. office and is the primary point of contact between the company and the U.S. Government, as well as with Washington, D.C.-based foreign embassies. In this capacity, she plays a crucial role in formulating Westinghouse's policy strategies and advises decision makers on issues important to Westinghouse.

Before joining Westinghouse, Jeanne was the Special Assistant for International and Federal Affairs to Nils Diaz, Chairman of the U.S. Nuclear Regulatory Commission. From 2001 to 2005, she was the Director of Public Affairs at the U.S. Department of Energy, where she served as the official spokesperson for Energy Secretary Spencer Abraham and directed the public relations programs for DOE. Before that she worked on Capitol Hill for Sen. Orrin G. Hatch (R-UT) in a variety of media relations positions, including Press Secretary for the U.S. Senate Judiciary Committee.

A native of Pennsylvania, Ms. Lopatto is a graduate of Dickinson College, in Carlisle, PA.

AMERICAN OVERSIGHT

Document 1

Greenberg, Craig E. (CONTR)

From:	Scott, Michelle
Sent:	Wednesday, April 05, 2017 8:14 AM
To:	Reilly, Thomas;Markus, Stephen
Cc:	McGinnis, Edward;Jaworowski, Suzanne;Stern, Zachary;Hallock, Andrew;Goodman, Jac;Richards, Andrew;Diamond, Bruce;Lockwood, Andrea;Kim, Dong;Cestari, Kenneth;Phillips, Anne L;Mendelsohn, Kasia
Subject:	FW: Version to Clear with DOE-GC
Attachments:	2017-04-05 S1 Westinghouse Meeting Memo.docx; 2017-04-05 S1 Westinghouse Meeting TPs.docx
Categories:	Green Category

Tom and Stephen,

(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

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Greenberg, Craig E. (CONTR)

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 9:56 AM
To: Reilly, Thomas
Subject: FW: Version to Clear with DOE-GC
Attachments: 2017-04-05 S1 Westinghouse Meeting TPs (GC-53).docx; 2017-04-05 S1 Westinghouse Meeting Memo (GC-53).docx

Categories: Green Category

Tom-

(b) (5)

They apparently need our comments by 10 am. I will call you.

Thanks,
Stephen

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle

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OFFICIAL USE ONLY
March 2017

ATTACHMENT 2: TALKING POINTS

(b) (5)

S1 BRIEFING

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(b) (5)

S1 BRIEFING

TALKING POINTS FOR "IF RAISED" ISSUES

(b) (5)

AMERICAN OVERSIGHT

OFFICIAL USE ONLY (Size 10)
March 2017

S1 BRIEFING

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**
DATE: March 6, 2017
TIME: 3:30-4:00
LOCATION: S1 Conference Room

PURPOSE: (b) (5)

PRESS:

LOGISTICS:

ATTENDEES:

BACKGROUND:

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

S1 BRIEFING

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

(b) (5)

AMERICAN OVERSIGHT

Document 3

Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:37 AM
To: Hymer, Christina
Subject: FW: Version to Clear with DOE-GC
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo SM.docx; 2017-04-05 S1 Westinghouse Meeting TPs SM.docx

Categories: Green Category

Hi Tina,

(b) (5)

Thanks.

Tom

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

(b) (5)

Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

AMERICAN OVERSIGHT

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle

NNSA Equity

AMERICAN OVERSIGHT

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NNSA Equity

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AMERICAN OVERSIGHT

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March 2017

S1 BRIEFING

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**
DATE: March 6, 2017
TIME: 3:30-4:00
LOCATION: S1 Conference Room

PURPOSE: (b) (5)

PRESS:

LOGISTICS:

ATTENDEES:

BACKGROUND:
(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

S1 BRIEFING

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

(b) (5)

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March 2017

ATTACHMENT 2: TALKING POINTS

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S1 BRIEFING

AMERICAN OVERSIGHT

(b) (5)

S1 BRIEFING

TALKING POINTS FOR "IF RAISED" ISSUES

(b) (5)

AMERICAN OVERSIGHT

Document 4

Greenberg, Craig E. (CONTR)

From: Hymer, Christina
Sent: Wednesday, April 05, 2017 11:53 AM
To: Reilly, Thomas
Subject: RE: Version to Clear with DOE-GC

Categories: Green Category

Hi Tom,

(b) (5)

Let me know if you have any other questions.

Thanks!
Tina

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:37 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Hi Tina,

(b) (5)

Thanks.

Tom

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

(b) (5)

AMERICAN OVERSIGHT

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle

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Document 5

Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 12:17 PM
To: GC Concurrence Actions
Subject: FW: Version to Clear with DOE-GC
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Final.docx; 2017-04-05 S1 Westinghouse Meeting TPs - Final.docx; Att 3- 2017-04-04 Active Westinghouse Advocacy Center Cases.xlsx; Attachment Part 810s for WEC.docx; Att 4 Westinghouse Bios.docx

Categories: Yellow Category, Green Category

Hi Therese,

(b) (5)

Thanks.

Tom

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom,

(b) (5)

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM

AMERICAN OVERSIGHT

To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

(b) (5)

Thanks.

Tom

NNSA Equity

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

AMERICAN OVERSIGHT

Michelle-

(b) (5) Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle

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March 2017

S1 BRIEFING

DOE GC

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: March 6, 2017

TIME: 3:30-4:00

LOCATION: S1 Conference Room

PURPOSE: NNSA Equity

PRESS:

LOGISTICS:

ATTENDEES:

BACKGROUND:

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NNSA Equity

AMERICAN OVERSIGHT

(b) (5)

S1 BRIEFING

(b) (5)

AMERICAN OVERSIGHT

NNSA Equity

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

AMERICAN OVERSIGHT

ATTACHMENT 2: TALKING POINTS

S1 BRIEFING

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TALKING POINTS FOR "IF RAISED" ISSUES

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Attachment 3

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S1 BRIEFING

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José Emeterio Gutiérrez
Interim President & CEO



José Emeterio Gutiérrez has been recently appointed Interim President and CEO of Westinghouse Electric Company following his position as Senior Vice President of the Westinghouse global Nuclear Fuel and Components Manufacturing organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and services to a global customer base.

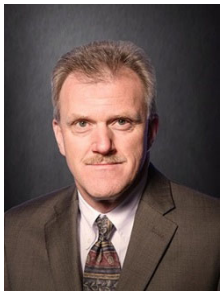
Prior to this role, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

He has been and continues to serve as chairman, CEO and president of several Westinghouse subsidiaries across the globe. Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States. He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st Green Belt.

David A. Howell, P.E.
President – Americas Region



David Howell brings over 34 years of strategic nuclear industry leadership to his role as president, Americas Region.

Appointed to the position in March 2017, Howell leads Westinghouse customer relationship management and all commercial responsibilities for the core business of Westinghouse in the Americas Region including account team development and deployment. He oversees the company's global commercial and marketing organization, government and international affairs, global security and facilities management. Most recently, Howell was senior vice president, Operating Plant Business, where he held executive operational responsibility for all products and services related to growth and enhancement of the company's instrumentation and control (I&C) business, outage support and plant

AMERICAN OVERSIGHT

modification services. He also oversaw engineering products and nuclear parts for pressurized water reactors and boiling water reactors worldwide.

In a previous role as Westinghouse vice president of Global Field Services, Howell had complete executive oversight of the company's outage support, advanced products, nuclear power plant component services and customer training globally.

Howell has held engineering and field operations management positions for the company's business lines related to reactor vessel and steam generator inspection, and repair for pressurized water reactor nuclear steam supply systems. He also was a lead design engineer for remote reactor repair projects.

He holds six patents for innovative equipment serving this market. Howell is a black belt in Six Sigma and Lean processes. He also is a certified Customer 1st Leader and was the deployment director for that program within the Westinghouse Nuclear Fuel business, where he drove implementation throughout that business.

A registered professional engineer in Pennsylvania, Howell has a bachelor's degree in mechanical engineering from Geneva College in Beaver Falls, Pennsylvania (USA). He is a member of the Geneva College Advanced Board, and is an elder in the Presbyterian Church in America.

Howell also is a member of the Westinghouse Operating Committee and a past member of the Westinghouse Board of Directors. He is also a member of several advisory committees and steering groups sponsored by the Nuclear Energy Institute.

Jeanne T. Lopatto
Vice President, Government & International Affairs



Jeanne T. Lopatto, Vice President of Government and International Affairs at Westinghouse Electric Company, heads the firm's Washington, D.C. office and is the primary point of contact between the company and the U.S. Government, as well as with Washington, D.C.-based foreign embassies. In this capacity, she plays a crucial role in formulating Westinghouse's policy strategies and advises decision makers on issues important to Westinghouse.

Before joining Westinghouse, Jeanne was the Special Assistant for International and Federal Affairs to Nils Diaz, Chairman of the U.S. Nuclear Regulatory Commission. From 2001 to 2005, she was the Director of Public Affairs at the U.S. Department of Energy, where she served as the official spokesperson for Energy Secretary Spencer Abraham and directed the public relations programs for DOE. Before that she worked on Capitol Hill for Sen. Orrin G. Hatch (R-UT) in a variety of media relations positions, including Press Secretary for the U.S. Senate Judiciary Committee.

A native of Pennsylvania, Ms. Lopatto is a graduate of Dickinson College, in Carlisle, PA.

AMERICAN OVERSIGHT

Document 6

Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 12:20 PM
To: GC Concurrence Actions
Cc: McRae, Ben;Hymer, Christina
Subject: FW: Version to Clear with DOE-GC
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Final.docx

Categories: Yellow Category, Green Category

Sorry –just got this updated version.

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:18 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom, Stephan and Ben,

Apologies, please use this version of the memo for your review.

Thank you
Michelle

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom,

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

(b) (5)

Thanks.

Tom

NNSA Equity

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM

AMERICAN OVERSIGHT

To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

(b) (5) Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

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Thank you
Michelle

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IP3

(b) (4)

July 25, 2018

Business Confidential and Proprietary

Proprietary and confidential to IP3.

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Pages 91 through 104 (14 pages) are withheld in full pursuant to Exemption (b)(4).

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Contains Business Proprietary Information Exempt from Public Disclosure under FOIA

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Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Monday, October 23, 2017 12:52 PM
To: Markus, Stephen
Cc: Williams, JoAnn
Subject: FW: NNSA Equity
Attachments: NNSA Equity

Importance: High

Categories: Green Category, Purple Category

Stephen – FYI. Also, apologies as I didn't send your comments until today.

Tom

NNSA Equity

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Greenberg, Craig E. (CONTR)

From: Scott, Michelle
Sent: Monday, October 23, 2017 12:46 PM
To: Strangis, Katie;Jonathan Chesebro;Devin Horne;Lennon, Sarah;Stern, Zachary;Figueroa, Jose;Reilly, Thomas;Williams, JoAnn
Subject: RE: NNSA Equity
Attachments: NNSA Equity

Categories: Green Category, Purple Category

Katie,

Attached are my comments.

Michelle

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

NNSA Equity

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NNSA Equities

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NNSA Equity

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Greenberg, Craig E. (CONTR)

From: Markus, Stephen
Sent: Friday, October 20, 2017 3:14 PM
To: Reilly, Thomas
Subject: RE: NNSA Equity
Attachments: NNSA Equity

Categories: Green Category, Purple Category

Hi Tom-

Please see my suggested edits and comments in the attached. (b) (5)

Thanks,
Stephen

From: Reilly, Thomas
Sent: Friday, October 20, 2017 10:53 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Subject: FW: NNSA Equity

Hi Stephen,

Please let me know for you have any thoughts or comments on the attached. Thanks.

Tom

NNSA Equity

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(b) (5)

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(b) (5)

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Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Friday, October 20, 2017 10:53 AM
To: Markus, Stephen
Subject: FW: NNSA Equity
Attachments: NNSA Equity

Categories: Green Category, Purple Category

Hi Stephen,

Please let me know for you have any thoughts or comments on the attached. Thanks.

Tom

NNSA Equity

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NNSA Equity

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Greenberg, Craig E. (CONTR)

From: Capoferri, Anita
Sent: Monday, May 21, 2018 6:18 PM
To: French, Matthew C.;Scott, Michelle;Reichhardt, Mark
Cc: Fellow, Laura
Subject: RE: KACARE MOU Section 7 Action Item Memo

Categories: Green Category, Purple Category

(b) (5)

(b) (5) . Let me know if you have any questions.

Thanks,
Anita



From: French, Matthew C.
Sent: Monday, May 21, 2018 12:00 PM
To: Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Reichhardt, Mark <Mark.Reichhardt@hq.doe.gov>
Subject: KACARE MOU Section 7 Action Item Memo

Hi Everyone,

Attached is a draft of the Action Memo for editing the Section 7 language of the KACARE MOU. Glen has taken a look at this and I incorporated his edits. (b) (5)

I will incorporate you edits and start moving this through the approval process.

Thanks,
Matt

<< File: KACARE MOU Language Modification Action Memo 05.21.2018.doc >>

Matthew French
Office of African and Middle Eastern Affairs
U.S. Department of Energy

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202-586-3335
Matthew.French@hq.doe.gov

(b) (5)

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(b) (5)

APPROVE: _____ DISAPPROVE: _____ NEEDS DISCUSSION: _____ DATE: _____

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Greenberg, Craig E. (CONTR)

From: GC Concurrence Actions
Sent: Wednesday, July 18, 2018 1:43 PM
To: Figueroa, Jose;Skipper, Janna (CONTR);Strangis, Katie;Tucker, Shirley (CONTR);Malone, Deangelo (CONTR);Stern, Zachary
Cc: GC Concurrence Actions;Reilly, Thomas;Fellow, Laura;Capoferri, Anita
Subject: FW: NNSA Equity

Attachments: (b) (5)

Categories: Green Category, Purple Category

NNSA,

(b) (5)

Thanks,
Therese
****
M. Therese Keokuk
X6-5281

From: Brown, Michael
Sent: Wednesday, July 18, 2018 1:12 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: RE: MICHAEL: PLEASE REVIEW -- FW: NNSA Equity

(b) (5)

From: GC Concurrence Actions
Sent: Monday, July 16, 2018 3:11 PM
To: Brown, Michael <Michael.Brown@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: MICHAEL: PLEASE REVIEW -- FW: NNSA Equity

For your review and concurrence. (b) (5)

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Thanks,
Therese

From: Reilly, Thomas
Sent: Monday, July 16, 2018 11:41 AM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: NNSA Equity

(b) (5)

Thanks.

Tom

NNSA Equity

CONFIDENTIALITY NOTICE: This message may contain confidential information protected by the attorney-client, attorney work product, deliberative process, law enforcement sensitive information, controlled unclassified information (including Privacy Act protected information), or other legal privilege. Do not disseminate without prior approval of the National Nuclear Security Administration (NNSA) Office of the General Counsel. If you have received this message by mistake, please notify me and destroy all copies, in any form, from all locations and media.

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Postman, Max

DOD Equity

-----Original Message-----
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NNSA Equity

AMERICAN OVERSIGHT

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Greenberg, Craig E. (CONTR)

From: Reilly, Thomas
Sent: Monday, July 16, 2018 11:41 AM
To: GC Concurrence Actions
Subject: FW: NNSA Equity

Attachments: (b) (5)

Categories: Green Category, Purple Category

(b) (5)

Thanks.

Tom

NNSA Equity

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Postman, Max

DOD Equity

NNSA Equity

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Figueroa, Jose
NNSA Equity

DOC Equity

NNSA Equity

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Greenberg, Craig E. (CONTR)

From: GC Concurrence Actions
Sent: Wednesday, June 20, 2018 4:52 PM
To: Reilly, Thomas;Fellow, Laura
Cc: GC Concurrence Actions
Subject: FW: NNSA Equity

Attachments: (b) (5)

Follow Up Flag: Follow up
Flag Status: Flagged

Categories: Green Category, Purple Category

For your review and concurrence.

Therese

NNSA Equity

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Postman, Max

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From: Reilly, Thomas
To: Fellow, Laura; Markus, Stephen
Subject: (b) (5)
Date: Tuesday March 21 2017 12:03:28 PM
Attachments: (b) (5)

Hi Stephen, Laura,

Could you take a look and let me know if you have any thoughts? I am looking as well. I think they are looking for comments by 2pm today. Thanks.

Tom

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:44 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Lenhard, Joseph <JOSEPH.LENHARD@hq.doe.gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: (b) (5)

Tom, any edits/comments on (b) (5)

Joe, any edits/comments on (b) (5)

Ed is working on a tight deadline and needs comments by 2pm.

Thanks, Ben

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:36 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE: (b) (5)

Ed,

Good start. Here are my initial comments.

I have circulated to those in GC who have more expertise on particular matters and will get their comments to you as soon as possible.

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 11:14 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE (b) (5)

PLEASE USE THIS LATEST DRAFT FOR ANY FURTHER INPUT. This reflects additional input I just

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received.

Thanks,

Ed

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 10:12 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Thanks, Mike! RICH AND BEN: If you have not yet made changes, would appreciate it if you could work from this version that has Mike's input.

Best,

Ed

-----Original Message-----
From: Considine, Michael
Sent: Tuesday, March 21, 2017 10:01 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Please see my track changes attached.

Michael S. Considine
Committee on Foreign Investment in the United States (CFIUS)
Office of International Affairs
U.S. Department of Energy
IA-1 Room 7G-021A (Limited Area)
1000 Independence Ave., SW
Washington, DC 20585
Tel: 202-586-8218 (Unclassified)
Classified STE: (b) (6)
Mobile: (b) (6)
michael.considine@hq.doe.gov
SIPRNet: (b) (6)
JWICS: (b) (6)

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 9:51 AM
To: Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; Considine, Michael <Michael.Considine@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: (b) (5)

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Ok, folks. Here is the draft per our 5pm meeting yesterday with Brian, Dan and Wells. Please see the specific UPPER CASE BOLD PARENTHETICAL notes where I ask (respectfully!) each of you to please review the referenced sections, ensure they are correct, and that the sections state what you believe as the experts should be included. Please use track changes and send back to me as soon as can but not later than 2pm if possible. I have attempted to get this in as close a final draft as possible in order to save time. Please also review the entire document and let me know if you have any comments or proposed edits.

I can be reached at (b) (6) or my email at any time today.

Thank you VERY much,

Ed

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(b) (5)

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(b) (5)

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From: Reilly, Thomas
To: Markus, Stephen; Fellow, Laura
Subject: (b) (5)
Date: Tuesday, March 21, 2017 12:34:45 PM
Attachments: (b) (5)

Hey guys,

(b) (5)

Thanks.

Tom

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:44 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Lenhard, Joseph <JOSEPH.LENHARD@hq.doe.gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: (b) (5)

Tom, any edits/comments on (b) (5) .

Joe, any edits/comments on (b) (5)

Ed is working on a tight deadline and needs comments by 2pm.

Thanks, Ben

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:36 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE: (b) (5)

Ed,

Good start. Here are my initial comments.

I have circulated to those in GC who have more expertise on particular matters and will get their comments to you as soon as possible.

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 11:14 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

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PLEASE USE THIS LATEST DRAFT FOR ANY FURTHER INPUT. This reflects additional input I just received.

Thanks,

Ed

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 10:12 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Thanks, Mike! RICH AND BEN: If you have not yet made changes, would appreciate it if you could work from this version that has Mike's input.

Best,

Ed

-----Original Message-----
From: Considine, Michael
Sent: Tuesday, March 21, 2017 10:01 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Please see my track changes attached.

Michael S. Considine
Committee on Foreign Investment in the United States (CFIUS)
Office of International Affairs
U.S. Department of Energy
IA-1 Room 7G-021A (Limited Area)
1000 Independence Ave., SW
Washington, DC 20585
Tel: 202-586-8218 (Unclassified)
Classified STE: (b) (6)
Mobile: (b) (6)
michael.considine@hq.doe.gov
SIPRNet (b) (6)
JWICS: (b) (6)

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 9:51 AM
To: Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; Considine, Michael <Michael.Considine@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea

AMERICAN OVERSIGHT

<Andrea.Lockwood@hq.doe.gov>
Subject: (b) (5)

Ok, folks. Here is the draft per our 5pm meeting yesterday with Brian, Dan and Wells. Please see the specific UPPER CASE BOLD PARENTHETICAL notes where I ask (respectfully!) each of you to please review the referenced sections, ensure they are correct, and that the sections state what you believe as the experts should be included. Please use track changes and send back to me as soon as can but not later than 2pm if possible. I have attempted to get this in as close a final draft as possible in order to save time. Please also review the entire document and let me know if you have any comments or proposed edits.

I can be reached at (b) (6) or my email at any time today.

Thank you VERY much,

Ed

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(b) (5)

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(b) (5)

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(b) (5)

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Document 4

From: McRae, Ben
To: Reilly, Thomas; Lenhard, Joseph; Beard, Susan
Cc: Lucas, John T.; Brown, Michael
Subject: (b) (5)
Date: Tuesday, March 21, 2017 1:29:39 PM
Attachments: (b) (5)

If I do not hear otherwise, I will send the attached to NE at 2 pm.

-----Original Message-----
From: Reilly, Thomas
Sent: Tuesday, March 21, 2017 12:58 PM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Lenhard, Joseph <JOSEPH.LENHARD@hq.doe.gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: RE: (b) (5)

Hi All,

GC 53 edits attached for consideration to address (b) (5)

Thanks.

Tom

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:44 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Lenhard, Joseph <JOSEPH.LENHARD@hq.doe.gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: (b) (5)

Tom, any edits/comments on (b) (5) .

Joe, any edits/comments on (b) (5)

Ed is working on a tight deadline and needs comments by 2pm.

Thanks, Ben

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:36 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE (b) (5)

Ed,

Good start. Here are my initial comments.

I have circulated to those in GC who have more expertise on particular matters and will get their comments to you

AMERICAN OVERSIGHT

as soon as possible.

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 11:14 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

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Thanks,

Ed

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Sent: Tuesday, March 21, 2017 10:12 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Thanks, Mike! RICH AND BEN: If you have not yet made changes, would appreciate it if you could work from this version that has Mike's input.

Best,

Ed

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Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Please see my track changes attached.

Michael S. Considine
Committee on Foreign Investment in the United States (CFIUS)
Office of International Affairs
U.S. Department of Energy
IA-1 Room 7G-021A (Limited Area)
1000 Independence Ave., SW
Washington, DC 20585
Tel: 202-586-8218 (Unclassified)
Classified STE: (b) (6)
Mobile: (b) (6)
michael.considine@hq.doe.gov

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SIPRNet (b) (6)
JWICS: (b) (6)

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Sent: Tuesday, March 21, 2017 9:51 AM
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Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: (b) (5)

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I can be reached at (b) (6) or my email at any time today.

Thank you VERY much,

Ed

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(b) (5)

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(b) (5)

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(b) (5)

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Document 5

From: Lenhard, Joseph
To: McRae, Ben; Reilly, Thomas
Cc: Lucas, John T.; Brown, Michael
Subject: RE (b) (5)
Date: Tuesday, March 21, 2017 1:58:19 PM

Ben,

There was not enough time for exhaustive research or to draft a more thorough answer. Here are initial reactions to your question submitted in a timely fashion:

1. (b) (5)

2. (b) (5)

3. (b) (5)

Thanks,

Joe

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:44 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Lenhard, Joseph <JOSEPH.LENHARD@hq.doe.gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: (b) (5)

Tom, any edits/comments on (b) (5) .

Joe, any edits/comments on (b) (5)

AMERICAN OVERSIGHT

Ed is working on a tight deadline and needs comments by 2pm.

Thanks, Ben

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:36 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE: (b) (5)

Ed,

Good start. Here are my initial comments.

I have circulated to those in GC who have more expertise on particular matters and will get their comments to you as soon as possible.

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 11:14 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE (b) (5)

PLEASE USE THIS LATEST DRAFT FOR ANY FURTHER INPUT. This reflects additional input I just received.

Thanks,

Ed

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 10:12 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Thanks, Mike! RICH AND BEN: If you have not yet made changes, would appreciate it if you could work from this version that has Mike's input.

Best,

Ed

-----Original Message-----
From: Considine, Michael
Sent: Tuesday, March 21, 2017 10:01 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>

AMERICAN OVERSIGHT

Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Please see my track changes attached.

Michael S. Considine
Committee on Foreign Investment in the United States (CFIUS)
Office of International Affairs
U.S. Department of Energy
IA-1 Room 7G-021A (Limited Area)
1000 Independence Ave., SW
Washington, DC 20585
Tel: 202-586-8218 (Unclassified)
Classified STE: (b) (6)
Mobile: (b) (6)
michael.considine@hq.doe.gov
SIPRNet: (b) (6)
JWICS: (b) (6)

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 9:51 AM
To: Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; Considine, Michael <Michael.Considine@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: (b) (5)

Ok, folks. Here is the draft per our 5pm meeting yesterday with Brian, Dan and Wells. Please see the specific UPPER CASE BOLD PARENTHETICAL notes where I ask (respectfully!) each of you to please review the referenced sections, ensure they are correct, and that the sections state what you believe as the experts should be included. Please use track changes and send back to me as soon as can but not later than 2pm if possible. I have attempted to get this in as close a final draft as possible in order to save time. Please also review the entire document and let me know if you have any comments or proposed edits.

I can be reached at (b) (6) or my email at any time today.

Thank you VERY much,

Ed

AMERICAN OVERSIGHT

Document 6

From: Reilly, Thomas
To: Markus, Stephen; Fellow, Laura
Subject: FW: (b) (5)
Date: Tuesday, March 21, 2017 2:38:30 PM
Attachments: (b) (5)

FYI. Thanks.

Tom

From: McRae, Ben
Sent: Tuesday, March 21, 2017 1:29:37 PM
To: Reilly, Thomas; Lenhard, Joseph; Beard, Susan
Cc: Lucas, John T.; Brown, Michael
Subject: RE: (b) (5)

If I do not hear otherwise, I will send the attached to NE at 2 pm.

-----Original Message-----
From: Reilly, Thomas
Sent: Tuesday, March 21, 2017 12:58 PM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Lenhard, Joseph <JOSEPH.LENHARD@hq.doe.gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: RE: (b) (5)

Hi All,

GC 53 edits attached for consideration to address (b) (5)

Thanks.

Tom

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:44 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Lenhard, Joseph <JOSEPH.LENHARD@hq.doe.gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: (b) (5)

Tom, any edits/comments on (b) (5) .

Joe, any edits/comments on (b) (5)

Ed is working on a tight deadline and needs comments by 2pm.

Thanks, Ben

AMERICAN OVERSIGHT

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:36 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE: (b) (5)

Ed,

Good start. Here are my initial comments.

I have circulated to those in GC who have more expertise on particular matters and will get their comments to you as soon as possible.

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 11:14 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

PLEASE USE THIS LATEST DRAFT FOR ANY FURTHER INPUT. This reflects additional input I just received.

Thanks,

Ed

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 10:12 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Thanks, Mike! RICH AND BEN: If you have not yet made changes, would appreciate it if you could work from this version that has Mike's input.

Best,

Ed

-----Original Message-----
From: Considine, Michael
Sent: Tuesday, March 21, 2017 10:01 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: (b) (5)

Please see my track changes attached.

AMERICAN OVERSIGHT

Michael S. Considine
Committee on Foreign Investment in the United States (CFIUS)
Office of International Affairs
U.S. Department of Energy
IA-1 Room 7G-021A (Limited Area)
1000 Independence Ave., SW
Washington, DC 20585
Tel: 202-586-8218 (Unclassified)
Classified STE: (b) (6)
Mobile: (b) (6)
michael.considine@hq.doe.gov
SIPRNet: (b) (6)
JWICS: (b) (6)

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 9:51 AM
To: Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; Considine, Michael <Michael.Considine@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: (b) (5)

Ok, folks. Here is the draft per our 5pm meeting yesterday with Brian, Dan and Wells. Please see the specific UPPER CASE BOLD PARENTHETICAL notes where I ask (respectfully!) each of you to please review the referenced sections, ensure they are correct, and that the sections state what you believe as the experts should be included. Please use track changes and send back to me as soon as can but not later than 2pm if possible. I have attempted to get this in as close a final draft as possible in order to save time. Please also review the entire document and let me know if you have any comments or proposed edits.

I can be reached at (b) (6) or my email at any time today.

Thank you VERY much,

Ed

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Document 7

From: Fellow, Laura
To: Reilly, Thomas
Subject: (b) (5)
Date: Wednesday, March 21, 2018 11:27:52 AM
Attachments:

NNSA Equity

Importance: High

Tom,

I've reviewed the package. (b) (5)

I think this package is in good shape.

Laura

NNSA Equity

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Document 8

From: Reilly, Thomas
To: Brown, Michael; Lucas, John T.; Keokuk, Therese; Fellow, Laura
Subject: NNSA Equity
Date: Wednesday, March 21, 2018 2:28:11 PM
Attachments: NNSA Equity

Importance: High

Hi All,

(b) (5)

Thanks.

Tom

NNSA Equity

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Document 9

From: Fellow, Laura
To: Reilly, Thomas
Subject: FW: Transmittal letter from US Embassy Riyadh to K.A.CARE regarding Fluor assurance
Date: Monday, July 16, 2018 9:13:38 AM

FYSA. This is with GC concurrences, (b) (5)
Thanks.

Laura

NNSA Equity

Dept. of State Equity

AMERICAN OVERSIGHT

Dept. of State Equity

Dept. of State Equity

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Dept. of State Equity

AMERICAN OVERSIGHT

Dept. of State Equity

AMERICAN OVERSIGHT

Dept. of State Equity

AMERICAN OVERSIGHT

From: Clarke, Denise
To: Reilly, Thomas; Scott, Michelle; Erickson, Gina; Jewell, James; Hillary, Keena; Catipon, Lauren; Markus, Stephen; Fellow, Laura; Capoferri, Anita; Garcia, Marcos; Valderrama, Billy (CONTR); Milton, Ingrid; Hutchins, Scott (Embassy Riyadh; "McKearin, Joshua"; McRae, Ben
Cc: Burgman, David; Crnic, Maggie; Rodrigue, Michael
Subject: RE: US-KSA MOU on Renewables and Nuclear
Date: Tuesday, September 04, 2018 1:54:25 PM
Attachments: (b) (5)

All,

(b) (5)

Denise
202-586-6984

From: Reilly, Thomas
Sent: Tuesday, August 28, 2018 2:31 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Erickson, Gina <Gina.Erickson@hq.doe.gov>; Jewell, James <James.Jewell@hq.doe.gov>; Clarke, Denise <Denise.Clarke@hq.doe.gov>; Hillary, Keena <Keena.HILLARY@hq.doe.gov>; Catipon, Lauren <Lauren.Catipon@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Garcia, Marcos <Marcos.Garcia@hq.doe.gov>; Valderrama, Billy (CONTR) <Billy.Valderrama@Nuclear.Energy.Gov>; Milton, Ingrid <Ingrid.Milton@hq.doe.gov>; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; 'McKearin, Joshua' <joshua_mckearin@ios.doi.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Burgman, David <David.Burgman@hq.doe.gov>
Subject: RE: US-KSA MOU on Renewables and Nuclear

This time with attachment. Apologies.

<< File: K A CARE Draft PSA1 2.29.16 (003).docx >>

From: Reilly, Thomas
Sent: Tuesday, August 28, 2018 2:03 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Erickson, Gina <Gina.Erickson@hq.doe.gov>; Jewell, James <James.Jewell@hq.doe.gov>; Clarke, Denise <Denise.Clarke@hq.doe.gov>; Hillary, Keena <Keena.HILLARY@hq.doe.gov>; Catipon, Lauren <Lauren.Catipon@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Garcia, Marcos <Marcos.Garcia@hq.doe.gov>; Valderrama, Billy (CONTR) <Billy.Valderrama@Nuclear.Energy.Gov>; Milton, Ingrid <Ingrid.Milton@hq.doe.gov>; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; McKearin, Joshua <joshua_mckearin@ios.doi.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>

AMERICAN OVERSIGHT

Cc: Burgman, David <David.Burgman@hq.doe.gov>
Subject: RE: US-KSA MOU on Renewables and Nuclear

Hi all,

Following our discussion today, this is the Draft Project Specific Agreement we had roughed out back in February/March 2016. (b) (5)

Tom

-----Original Appointment-----
From: Scott, Michelle
Sent: Monday, August 27, 2018 4:05 PM
To: Scott, Michelle; Erickson, Gina; Jewell, James; Clarke, Denise; Hillary, Keena; Catipon, Lauren; Markus, Stephen; Reilly, Thomas; Fellow, Laura; Capoferri, Anita; Garcia, Marcos; Valderrama, Billy (CONTR); Milton, Ingrid; Hutchins, Scott (Embassy Riyadh; McKearin, Joshua; McRae, Ben
Cc: Burgman, David
Subject: US-KSA MOU on Renewables and Nuclear
When: Tuesday, August 28, 2018 1:00 PM-1:45 PM (UTC-05:00) Eastern Time (US & Canada).
Where: TBD

AMERICAN OVERSIGHT

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(b) (5)

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: Scott, Michelle
Cc: Lennon, Sarah
Subject: RE: when are you anticipating have the Westinghouse memo finalized to go up to Ray? And note that I send you a paper to attach from State.
Date: Friday, February 3, 2017 3:20:37 PM

great

From: Scott, Michelle
Sent: Friday, February 03, 2017 3:20 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: when are you anticipating have the Westinghouse memo finalized to go up to Ray? And note that I send you a paper to attach from State.

Ed,

I just sent to IA for clearance and asked for a turnaround of COB today. Once I get their comments I will clean up and finalize to send out today.

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: McGinnis, Edward
Sent: Friday, February 03, 2017 3:15 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: when are you anticipating have the Westinghouse memo finalized to go up to Ray? And note that I send you a paper to attach from State.

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: Herczeg, John
Cc: Suzanne Jaworoski (suzanne.jaworowski@hq.doe.gov); Richards, Andrew (CONTR) (Andrew.Richards@Nuclear.Energy.Gov); Johnson, Shane
Subject: article
Date: Friday, August 4, 2017 2:19:00 PM
Attachments: Will the West Let Russia Dominate the Nuclear Market.pdf

---

John, can you expand on the reference regarding ATF fuel loading plans in 2018? And what about the reference below that we could load in 2017 if more funds were available?

Thanks!
Ed

If accident tolerant fuels prove successful, the cost of operating nuclear plants could decline by as much as 30 percent, making nuclear energy instantly competitive even with rock-bottom natural gas prices. After several decades of laboratory testing, these type of fuels are set to be loaded into a U.S. civilian nuclear reactor in 2018, but there is no reason they could not be loaded into civilian reactors this fall—something that would require a modest investment by DOE of well-under $500 million. If after 18 months these fuels have performed as expected, they should be subsidized across the U.S. nuclear fleet.

AMERICAN OVERSIGHT

Will the West Let Russia Dominate the Nuclear Market?

What the Westinghouse Bankruptcy Means for the Future

By Nick Gallucci and Michael Shellenberger

Sometime this fall, a U.S. federal bankruptcy judge in New York will decide the fate of Westinghouse, the venerable nuclear power company that failed financially earlier this year. When the decision is made, it will determine something far more important: whether the West will play an active role in mitigating the twin threats of nuclear proliferation and climate change, or instead cede the global market for nuclear energy to Russia. But to succeed, a reorganized Westinghouse will need a management team capable of breaking from the past and adopting a different, well-tested nuclear plant design; as well as the long-term, low-interest financing required to compete with the Russians.

RUSSIA'S GROWING NUCLEAR DOMINANCE

Westinghouse was founded in 1886, but was reorganized in the mid-1990s and owned by various companies until it was finally bought by Japanese conglomerate Toshiba in 2006—at a time when natural gas prices were high and nuclear (b) (4)

AMERICAN OVERSIGHT

(b) (4)

AMERICAN OVERSIGHT

(b) (4)

AMERICAN OVERSIGHT

(b) (4)

AMERICAN OVERSIGHT

(b) (4)

AMERICAN OVERSIGHT

From: Fellow, Laura
To: Reilly, Thomas
Subject: RE: Commerce Equity
Date: Tuesday, October 10, 2017 1:21:32 PM
Attachments: Commerce Equity

Tom,

Would a revision like this (b) (5)

Laura

From: Reilly, Thomas
Sent: Tuesday, October 10, 2017 12:21 PM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: FW: Commerce Equity
Importance: High

Hi Laura,

Can you take a look at the attached?

Thanks.

Tom

From: McRae, Ben
Sent: Tuesday, October 10, 2017 11:04 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: FW: Commerce Equity
Importance: High

Can you review this version. Thanks.

Commerce Equity

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

From: Reilly, Thomas
To: Hymer, Christina; McRae, Ben
Subject: RE: Commerce Equity
Date: Tuesday, October 10, 2017 1:39:00 PM
Attachments: Commerce Equity

Hi Ben, Tina,

(b) (5)

Thanks.

Tom

From: Hymer, Christina
Sent: Tuesday, October 10, 2017 1:09 PM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Commerce Equity

Hi Ben,

(b) (5)

Let me know if you have any other concerns.

Tina

From: McRae, Ben
Sent: Tuesday, October 10, 2017 11:04 AM
To: Hymer, Christina <Christina.Hymer@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: FW: Commerce Equity
Importance: High

Can you review this version. Thanks.

Commerce Equity

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AMERICAN OVERSIGHT

From: Williams, JoAnn
To: Crosland, Martha
Subject: FW: Dept of State Equity
Date: Thursday, November 30, 2017 2:21:00 PM

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

From: Williams, JoAnn
Sent: Thursday, November 30, 2017 1:54 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Subject: FW: Dept of State Equity

(b) (5) I have not read yet

Jo Ann Williams
Office of General Counsel, DOE
phone 202-586-6899

Dept of State Equity

AMERICAN OVERSIGHT

Dept of State Equity

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AMERICAN OVERSIGHT

From: Reilly, Thomas
To: Figueroa, Jose
Subject: FW: NNSA Equity
Date: Thursday, December 14, 2017 3:23:00 PM
Attachments: NNSA Equity
NNSA Equity
(b) (5)

Hi Jose,

Attached please find our comments on this First Look. (b) (5)

Thanks.

Tom

NNSA Equity

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

From: Hillary, Keena
To: IN - CI Review; Reilly, Thomas; Jewell, James; Friedel, Loren
Cc: Erickson, Gina
Subject: Review and Concurrence: INL Request with Emirates Nuclear Energy Corporation (ENEC) (UAE)
Date: Monday, April 16, 2018 11:20:43 AM
Attachments: Idaho equity
Idaho equity
Idaho equity
IA-42 Foreign Approval.pdf

Please let me know if you concur on the attached SPP with the United Arab Emirates.

Thanks,
Keena

From: Hillary, Keena
Sent: Friday, March 30, 2018 10:52 AM
To: IN - CI Review (b) (6) Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Erickson, Gina <Gina.Erickson@hq.doe.gov>; McKearin, Josh <Josh.Mckearin@Hq.Doe.Gov>; Jewell, James <James.Jewell@hq.doe.gov>
Cc: Downs, Sharon <Sharon.DOWNS@hq.doe.gov>; Denise.Clarke@hq.doe.gov
Subject: Review and Concurrence: INL Request with Emirates Nuclear Energy Corporation (ENEC) (UAE)

(b) (5)

Keena

AMERICAN OVERSIGHT

Idaho equity

AMERICAN OVERSIGHT

Idaho equity

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Idaho equity

AMERICAN OVERSIGHT

Department of Energy
Washington, DC 20585

June 13, 2017

MEMORANDUM FOR KARALEE HOLUBAR
BEA CONTRACT ADMINISTRATOR
IDAHO NATIONAL LABORATORY

SUBJECT: Emirates Nuclear Energy Corporation Assessment, SPP

Pursuant to DOE Order 481.1D, this notification provides the concurrence of the Office of International Science and Technology Collaboration (DOE/IA-42) on the proposed project between Idaho National Laboratory (INL) and Emirates Nuclear Energy Corporation (ENEC), United Arab Emirates.

(b) (5)

The concurrence is based on a determination that the proposed work is consistent with DOE international agreements and foreign policy objectives.

Please contact Keena Hillary of our Office with questions. Keena may be reached at (202) 586-8156 or keena.hillary@hq.doe.gov.

Sincerely,

Maureen Clapper for

Robert C. Marlay, Ph.D.
Director, Office of International Science and
Technology Collaboration
Office of International Affairs

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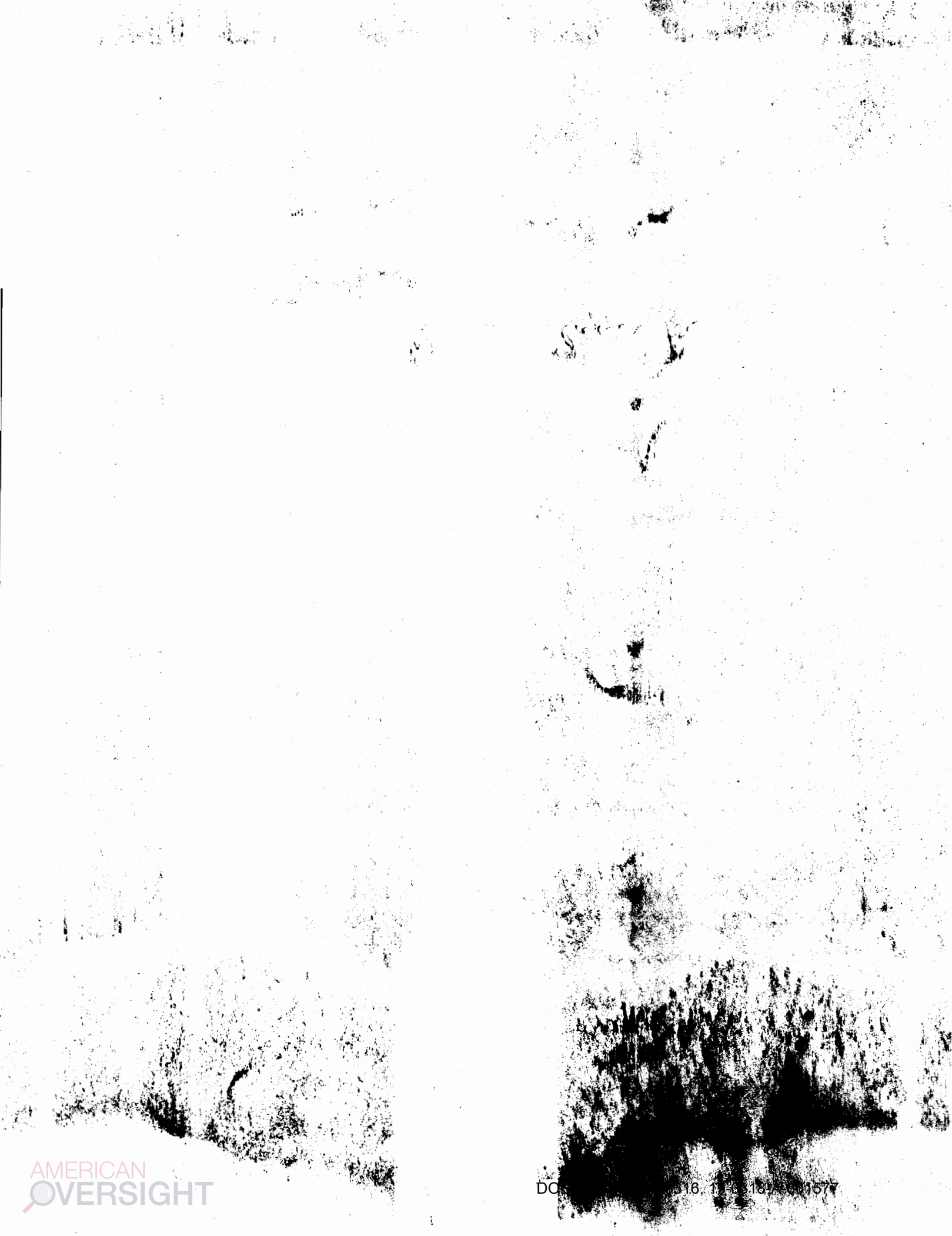

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NNSA Equity

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From: Jaworowski, Suzanne
To: Scott, Michelle; Olsen, Karla; Mueller, Mike (CONTR); Trunzo, Alisa (CONTR)
Cc: Richards, Andrew
Subject: RE: discuss a Potential Press Strategy for Westinghouse
Date: Wednesday, July 25, 2018 2:30:23 PM

HI Michelle,

Yes, we would like to get our team to start tracking these longer term issues in order to be prepared when they happen.

Could you plan to sit in on our weekly meeting Edelman communications week after next, 8/8 at 10:00?

Thanks!
Suzie

Suzanne Jaworowski
Senior Advisor, Policy & Communications
U.S. Department of Energy | Office of Nuclear Energy
202-586-2240

From: Scott, Michelle
Sent: Thursday, July 19, 2018 7:08 PM
To: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Olsen, Karla <Karla.Olsen@EE.Doe.Gov>; Mueller, Mike (CONTR) <Mike.Mueller@Nuclear.Energy.Gov>; Trunzo, Alisa (CONTR) <Alisa.Trunzo@Nuclear.Energy.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: discuss a Potential Press Strategy for Westinghouse

Suzy and team,

Can we discuss early next about developing a press strategy for DOE to highlight when WEC clears bankruptcy (sometime in 3rd qtr) and also the recent connection of the 1st AP1000 connected to the grid in China?

Thanks
Michelle

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

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From: Fellow, Laura
To: Postman, Max
Subject: NNSA Equity
Date: Wednesday, August 01, 2018 1:23:00 PM

Max,

(b) (5) I'm not aware of having received those. It's possible Tom distributed them to someone else, but it would be helpful to make sure we have them.

Thanks,

Laura

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NNSA Equity

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From: Considine, Michael
To: Reilly, Thomas
Subject: FW: NNSA Equity
Date: Tuesday, March 19, 2019 10:22:08 AM
Attachments: NNSA-2019-000701 - Incoming.pdf
NNSA Equity

Michael S. Considine
Committee on Foreign Investment in the United States (CFIUS)
Office of International Affairs
U.S. Department of Energy
IA-1 Room 7G-021A (Limited Area)
1000 Independence Ave., SW
Washington, DC 20585
Tel: 202-586-8218 (Unclassified)
Mobile: (b) (6)
michael.considine@hq.doe.gov
(b) (6)

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ELIJAH E. CUMMINGS, MARYLAND
CHAIRMAN

ONE HUNDRED SIXTEENTH CONGRESS

JIM JORDAN, OHIO
RANKING MINORITY MEMBER

Congress of the United States

House of Representatives

COMMITTEE ON OVERSIGHT AND REFORM

2157 RAYBURN HOUSE OFFICE BUILDING

WASHINGTON, DC 20515–6143

Majority (202) 225-5051
Minority (202) 225-5074

http://oversight.house.gov

February 19, 2019

The Honorable Rick Perry
Secretary
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

Dear Secretary Perry:

The Committee is investigating credible information from multiple whistleblowers warning about efforts inside the White House to rush the transfer of highly sensitive U.S. nuclear technology to Saudi Arabia.[1]

The whistleblowers who came forward have warned of conflicts of interest among top White House advisers that could implicate federal criminal statutes. They have also warned about a working environment inside the White House marked by chaos, dysfunction, and backbiting. And they have warned about political appointees ignoring directives from top ethics advisors at the White House who repeatedly and unsuccessfully ordered senior Trump Administration officials to halt their efforts.

Specifically, according to whistleblowers, career staff warned that any transfer of nuclear technology must comply with the Atomic Energy Act, that the United States and Saudi Arabia would need to reach a 123 Agreement, and that these legal requirements could not be circumvented. Trump Administration officials reportedly ignored these warnings and insisted that the decision to transfer nuclear technology to Saudi Arabia had already been made.

Recent reports indicate that the White House appears to still be considering this plan.[2] As recently as February 12, 2019, it was reported that President Trump participated in a White House meeting "initiated by IP3 International." The meeting reportedly included discussions about U.S. efforts "to secure agreements to share U.S. nuclear technology with Middle East

---

[1] Committee on Oversight and Reform, *Interim Staff Report: Whistleblowers Raise Grave Concerns with Trump Administration's Efforts to Transfer Sensitive Nuclear Technology to Saudi Arabia* (Feb. 2019).

[2] *Investor and Trump Friend Tom Barrack Not Going to Saudi Conference*, CNBC (Oct. 19, 2018) (online at www.cnbc.com/2018/10/19/investor-and-trump-friend-tom-barrack-not-going-to-saudi-conference.html).

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nations," including Saudi Arabia.[3] President Trump was reportedly "supportive" of plans to transfer nuclear technology to Saudi Arabia.[4]

For these reasons, the Committee requests that you produce the following documents by March 5, 2019, covering the period from November 8, 2016, to the present:

1. All documents and communications referring or relating to any actual or potential plan to construct, operate, staff, secure, support, facilitate, or promote nuclear power plants in any country in the Middle East, including but not limited to documents and communications referring or relating to plans, requests, efforts, or attempts by ACU, Thomas Barrack, Colony NorthStar, Michael Flynn, Flynn Intel Group, or IP3, or their agents to communicate with:

    a. then-candidate or now-President Donald Trump;

    b. any official within the Executive Office of the President;

    c. any official within the Trump Administration, including but not limited to the Departments of Energy, State, and Defense;

    d. any official or unofficial advisors to the Trump Transition Team; and

    e. any official or unofficial advisors to the Inaugural Committee;

2. All documents and communications referring or relating to proposed or actual contacts with White House officials, foreign business entities, foreign government officials, or foreign nationals regarding any actual or proposed plan to construct, operate, staff, secure, support, facilitate, or promote nuclear power plants in any country in the Middle East; and

3. All documents and communications referring or relating to ACU, Thomas Barrack, Colony NorthStar, Michael Flynn, Flynn Intel Group, Rick Gates, IP3, Westinghouse, or their principals or agents.

In addition to these documents, the Committee requests a briefing about the Department's contacts with the individuals and entities identified above; the Department's role in promoting the transfer of nuclear technology to Saudi Arabia and other Gulf nations; and the status of any proposed plan to transfer nuclear technology to Saudi Arabia or other Gulf nations. Please contact the Committee by February 22, 2019, to schedule the briefing.

---

[3] *CEOs Ask Trump to Help Them Sell Nuclear Power Plants Abroad*, Bloomberg News (Feb. 12, 2019) (online at www.bloomberg.com/news/articles/2019-02-12/trump-said-to-meet-with-nuclear-developers-looking-globally).

[4] *U.S. Senate Proposal Would Block Saudi Path to Atomic Weapon in Nuclear Deal*, Reuters (Feb. 12, 2019) (online at www.reuters.com/article/uk-usa-nuclear-saudi/u-s-senate-proposal-would-block-saudi-path-to-atomic-weapon-in-nuclear-deal-idUKKCN1Q2002).

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The Committee on Oversight and Reform is the principal oversight committee of the House of Representatives and has broad authority to investigate "any matter" at "any time" under House Rule X. In addition, House Rule X states that the Committee on Oversight and Reform has jurisdiction to "study on a continuing basis the operation of Government activities at all levels, including the Executive Office of the President."

An attachment to this letter provides additional instructions for responding to the Committee's request. If you have any questions regarding this request, please contact Committee staff at (202) 225-5051.

Thank you for your attention to this matter.

Sincerely,

Elijah E. Cummings
Chairman

Enclosure

cc: The Honorable Jim Jordan, Ranking Member

AMERICAN OVERSIGHT

Responding to Oversight Committee Document Requests

1. In complying with this request, produce all responsive documents that are in your possession, custody, or control, whether held by you or your past or present agents, employees, and representatives acting on your behalf. Produce all documents that you have a legal right to obtain, that you have a right to copy, or to which you have access, as well as documents that you have placed in the temporary possession, custody, or control of any third party.

2. Requested documents, and all documents reasonably related to the requested documents, should not be destroyed, altered, removed, transferred, or otherwise made inaccessible to the Committee.

3. In the event that any entity, organization, or individual denoted in this request is or has been known by any name other than that herein denoted, the request shall be read also to include that alternative identification.

4. The Committee's preference is to receive documents in electronic form (i.e., CD, memory stick, thumb drive, or secure file transfer) in lieu of paper productions.

5. Documents produced in electronic format should be organized, identified, and indexed electronically.

6. Electronic document productions should be prepared according to the following standards:

   a. The production should consist of single page Tagged Image File ("TIF"), files accompanied by a Concordance-format load file, an Opticon reference file, and a file defining the fields and character lengths of the load file.

   b. Document numbers in the load file should match document Bates numbers and TIF file names.

   c. If the production is completed through a series of multiple partial productions, field names and file order in all load files should match.

   d. All electronic documents produced to the Committee should include the following fields of metadata specific to each document, and no modifications should be made to the original metadata:

      BEGDOC, ENDDOC, TEXT, BEGATTACH, ENDATTACH, PAGECOUNT, CUSTODIAN, RECORDTYPE, DATE, TIME, SENTDATE, SENTTIME, BEGINDATE, BEGINTIME, ENDDATE, ENDTIME, AUTHOR, FROM, CC, TO, BCC, SUBJECT, TITLE, FILENAME, FILEEXT, FILESIZE, DATECREATED, TIMECREATED, DATELASTMOD, TIMELASTMOD,

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INTMSGID, INTMSGHEADER, NATIVELINK, INTFILPATH, EXCEPTION, BEGATTACH.

7. Documents produced to the Committee should include an index describing the contents of the production. To the extent more than one CD, hard drive, memory stick, thumb drive, zip file, box, or folder is produced, each should contain an index describing its contents.

8. Documents produced in response to this request shall be produced together with copies of file labels, dividers, or identifying markers with which they were associated when the request was served.

9. When you produce documents, you should identify the paragraph(s) or request(s) in the Committee's letter to which the documents respond.

10. The fact that any other person or entity also possesses non-identical or identical copies of the same documents shall not be a basis to withhold any information.

11. The pendency of or potential for litigation shall not be a basis to withhold any information.

12. In accordance with 5 U.S.C.§ 552(d), the Freedom of Information Act (FOIA) and any statutory exemptions to FOIA shall not be a basis for withholding any information.

13. Pursuant to 5 U.S.C. § 552a(b)(9), the Privacy Act shall not be a basis for withholding information.

14. If compliance with the request cannot be made in full by the specified return date, compliance shall be made to the extent possible by that date. An explanation of why full compliance is not possible shall be provided along with any partial production.

15. In the event that a document is withheld on the basis of privilege, provide a privilege log containing the following information concerning any such document: (a) every privilege asserted; (b) the type of document; (c) the general subject matter; (d) the date, author, addressee, and any other recipient(s); (e) the relationship of the author and addressee to each other; and (f) the basis for the privilege(s) asserted.

16. If any document responsive to this request was, but no longer is, in your possession, custody, or control, identify the document (by date, author, subject, and recipients), and explain the circumstances under which the document ceased to be in your possession, custody, or control.

17. If a date or other descriptive detail set forth in this request referring to a document is inaccurate, but the actual date or other descriptive detail is known to you or is otherwise apparent from the context of the request, produce all documents that would be responsive as if the date or other descriptive detail were correct.

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18. This request is continuing in nature and applies to any newly-discovered information. Any record, document, compilation of data, or information not produced because it has not been located or discovered by the return date shall be produced immediately upon subsequent location or discovery.

19. All documents shall be Bates-stamped sequentially and produced sequentially.

20. Two sets of each production shall be delivered, one set to the Majority Staff and one set to the Minority Staff. When documents are produced to the Committee, production sets shall be delivered to the Majority Staff in Room 2157 of the Rayburn House Office Building and the Minority Staff in Room 2105 of the Rayburn House Office Building.

21. Upon completion of the production, submit a written certification, signed by you or your counsel, stating that: (1) a diligent search has been completed of all documents in your possession, custody, or control that reasonably could contain responsive documents; and (2) all documents located during the search that are responsive have been produced to the Committee.

Definitions

1. The term "document" means any written, recorded, or graphic matter of any nature whatsoever, regardless of how recorded, and whether original or copy, including, but not limited to, the following: memoranda, reports, expense reports, books, manuals, instructions, financial reports, data, working papers, records, notes, letters, notices, confirmations, telegrams, receipts, appraisals, pamphlets, magazines, newspapers, prospectuses, communications, electronic mail (email), contracts, cables, notations of any type of conversation, telephone call, meeting or other inter-office or intra-office communication, bulletins, printed matter, computer printouts, teletypes, invoices, transcripts, diaries, analyses, returns, summaries, minutes, bills, accounts, estimates, projections, comparisons, messages, correspondence, press releases, circulars, financial statements, reviews, opinions, offers, studies and investigations, questionnaires and surveys, and work sheets (and all drafts, preliminary versions, alterations, modifications, revisions, changes, and amendments of any of the foregoing, as well as any attachments or appendices thereto), and graphic or oral records or representations of any kind (including without limitation, photographs, charts, graphs, microfiche, microfilm, videotape, recordings and motion pictures), and electronic, mechanical, and electric records or representations of any kind (including, without limitation, tapes, cassettes, disks, and recordings) and other written, printed, typed, or other graphic or recorded matter of any kind or nature, however produced or reproduced, and whether preserved in writing, film, tape, disk, videotape, or otherwise. A document bearing any notation not a part of the original text is to be considered a separate document. A draft or non-identical copy is a separate document within the meaning of this term.

2. The term "communication" means each manner or means of disclosure or exchange of information, regardless of means utilized, whether oral, electronic, by document or otherwise, and whether in a meeting, by telephone, facsimile, mail, releases, electronic

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message including email (desktop or mobile device), text message, instant message, MMS or SMS message, message application, or otherwise.

3. The terms "and" and "or" shall be construed broadly and either conjunctively or disjunctively to bring within the scope of this request any information that might otherwise be construed to be outside its scope. The singular includes plural number, and vice versa. The masculine includes the feminine and neutral genders.

4. The term "including" shall be construed broadly to mean "including, but not limited to."

5. The term "Company" means the named legal entity as well as any units, firms, partnerships, associations, corporations, limited liability companies, trusts, subsidiaries, affiliates, divisions, departments, branches, joint ventures, proprietorships, syndicates, or other legal, business or government entities over which the named legal entity exercises control or in which the named entity has any ownership whatsoever.

6. The term "identify," when used in a question about individuals, means to provide the following information: (a) the individual's complete name and title; (b) the individual's business or personal address and phone number; and (c) any and all known aliases.

7. The term "related to" or "referring or relating to," with respect to any given subject, means anything that constitutes, contains, embodies, reflects, identifies, states, refers to, deals with, or is pertinent to that subject in any manner whatsoever.

8. The term "employee" means any past or present agent, borrowed employee, casual employee, consultant, contractor, de facto employee, detailee, fellow, independent contractor, intern, joint adventurer, loaned employee, officer, part-time employee, permanent employee, provisional employee, special government employee, subcontractor, or any other type of service provider.

9. The term "individual" means all natural persons and all persons or entities acting on their behalf.

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Appendix A – Documents

- **Documents emailed from Bud McFarlane, IP3, to National Security Advisor Michael Flynn and Deputy National Security Advisor K.T. McFarland on January 28, 2017:**
    - Document formatted as a Memorandum for President Trump authored by General Flynn, entitled "The Marshall Plan for the Middle East"; and
    - Document formatted as a Cabinet Memorandum from the President of the United States to the Secretary of State; the Secretary of Defense; the Secretary of the Treasury; Director, Central Intelligence Agency; and Chairman, Joint Chiefs of Staff, entitled "A Marshall Plan for the Middle East Based on Power, Peace and Prosperity."

- **Documents emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017:**
    - An overview of the Middle East Marshall Plan that appears to be produced by IP3;
    - "The Trump Middle East Marshall Plan (White Paper by Tom Barrack)," dated March 10, 2017;
    - A letter that IP3 leaders Mr. McFarlane, General Keane, Rear Admiral Hewitt, and General Alexander addressed to Saudi Deputy Crown Prince Mohammed bin Salman on March 17, 2017; and
    - January 1, 2017, letter to Deputy Crown Prince Mohammed bin Salman, signed by IP3 leaders General Alexander, General Keane, Bud McFarlane, and Rear Admiral Hewitt, as well as the chief executives of six companies: Exelon Corporation, Toshiba Energy, Bechtel Corporation, Centrus, GE Power, and Siemens USA.

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Document emailed from Bud McFarlane, IP3, to National Security Advisor Michael Flynn and Deputy National Security Advisor K.T. McFarland on January 28, 2017, formatted as a Memorandum for President Trump authored by General Flynn, entitled "The Marshall Plan for the Middle East."

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DRAFT

MEMORANDUM FOR THE PRESIDENT

FROM: Michael T. Flynn

Subject: The Marshall Plan for the Middle East

The flaws of the Iranian Nuclear Agreement extend well beyond enabling Iran to develop nuclear weapons: it stimulated a determination among the Arab states throughout the region to possess an equivalent capability. Predictably, China and Russia have moved aggressively to fulfill their wish -- offering to build nuclear power plants in Saudi Arabia, Egypt, Jordan and the Gulf states, but without requiring a U.S. standard of control over the fuel cycle – thus setting off a potential nuclear arms race in the years ahead.

Fortunately, a team of distinguished, recently-retired military officers and diplomats could see this coming two years ago and began to develop a strategy for dealing with it effectively. These are men and women you know and admire. Their plan is ingenious for it not only meets the genuine need for massive power generation – especially in Egypt where it is desperately needed -- but in Saudi Arabia and the Gulf states as well where a new generation of leaders is awakening to the imperative of moving beyond oil and industrializing their countries so as to provide jobs and meet consumer demands for decent health care, housing, education, and better infrastructure.

Further, execution of the plan will involve the rebirth of the U.S. nuclear power industry with all that implies for job-creation. (Over the past thirty years the industry has atrophied –thanks to over-regulation and misguided environmental opposition.) The rebuilding of that industry will provide a major boost to our economy and a major reduction in carbon-based pollution.

You'll admire this team for they have not only developed a powerful strategy to deal with a huge geopolitical risk, but they have reached out to American industry to help execute the plan. The giants of American industry have committed to participate. I'd like for you to meet this team tomorrow. Finally, the ultimate, enormous benefit of the plan is that it will be paid for by the nations who will benefit in the Middle East – not by American taxpayers. Tom Barrack has been thoroughly briefed on this strategy and wants to run it for you. He's perfect for the job. Rex and Jim are supportive of Tom's focus on this also.

In the enclosed memo you would call upon the relevant cabinet officers to lend their support to this historic program. I recommend that you sign it.

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Document emailed from Bud McFarlane, IP3, to National Security Advisor Michael Flynn and Deputy National Security Advisor K.T. McFarland on January 28, 2017, formatted as a Cabinet Memorandum from the President of the United States to the Secretary of State; the Secretary of Defense; the Secretary of the Treasury; Director, Central Intelligence Agency; and Chairman, Joint Chiefs of Staff, entitled "A Marshall Plan for the Middle East Based on Power, Peace and Prosperity."

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DRAFT FOR DISCUSSION PURPOSES ONLY

MEMORANDUM FOR: THE SECRETARY OF STATE

THE SECRETARY OF DEFENSE

THE SECRETARY OF THE TREASURY

THE SECRETARY OF ENERGY

DIRECTOR, CENTRAL INTELLIGENCE AGENCY

CHAIRMAN, JOINT CHIEFS OF STAFF

SUBJECT: A MARSHALL PLAN FOR THE MIDDLE EAST BASED ON POWER, PEACE AND PROSPERITY

The policies of the last eight years both at home and abroad have created unprecedented challenges for our nation and our allies. Nowhere has a failure of American leadership been more profound than the Middle East. The regional problems of the Middle East have grown into global challenges threatening many of our vital national interests. Perhaps at no time in the history of our nation have the stakes been higher. History reflects that transformational ideas can lead to great industrial, political and human capital advancement. It is through this lens that we must act now to reestablish the United States as the indispensable partner of our Middle East Allies. It is befitting of our great nation to develop a 21st Century Marshall Plan for the Middle East which will be one important component of a comprehensive multifaceted strategy to stabilize peace and prosperity both in Israel and the entire Middle East region.

The strategy will be one that empowers the intellectual capital and industrial might of our nation's private sector in a public, private venture. It will align with the strategic interests and challenges of the United States, our Allies and global partners. The pillars of this plan will be the long term economic stability and security of a reimagined Middle East economy. Our plan will enable the visions of our GCC partners, Egypt, Israel and Jordan. This Marshall Plan will be funded primarily by the nations of the Middle East, not by US taxpayers.

Our administration is engaging with key private sector partners on an approach centered on energy and security that will be the catalyst for enabling many of the policy objectives of your departments and agencies. I have assigned a special representative, Tom Barrack, to lead this important initiative and I am requesting him to engage each of you over the next 30 days to gain your input and support for our Middle East Marshal Plan within a broader Middle East comprehensive strategy that is good for our Allies and makes America and our companies relevant and great again both domestically and abroad.

POTUS

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Document emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017—an overview of the Middle East Marshall Plan that appears to be produced by IP3.

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Summary / Overview of Middle East Marshall Plan

Background

The policies of the last eight years both at home and abroad have created unprecedented challenges for our nation and our allies. Nowhere has a failure of American Leadership been more profound than the Middle East. The regional problems of the Middle East have grown into global challenges which threaten many of our national interests. Perhaps at no time in the history of our nation have the stakes been higher.

History reflects that transformational economic leadership by America can lead to dynastic industrial political, and human capital advancements aboard. The Marshall Plan following the Second World War was one such initiative which became one of the greatest foreign policy and economic growth achievements in history. It is now time to develop a 21st Century Trump Marshall Plan to provide a coordinated economic development initiative for the Middle East. The goals of the Trump Marshall Plan and its European predecessor are similar in that the desired result is a balanced and cooperative regional economic unit which foregoes "nation-state" rivalries for the benefit of global economic prosperity and growth, and thereby establishes an enduring peace which accrues to American interests. A primary difference from the previous Marshall Plan is that the Trump Middle East Marshall Plan will be primarily funded by the GCC countries.

Situation

Our Middle East allies have a sense of abandonment by the U.S. Russia has been moving aggressively to fill the void through military aggression, security dependence and energy cooperation.

The JCPOA has set into motion a new arms race where Sunni nations will seek equivalency with Iranian Nuclear capability. Left unchecked, the potential for a "Mutually Assured Destruction" scenario could develop in the next 10 years. Additionally, the JCPOA has fueled and funded expansive Iranian influence through proxy networks.

The Middle East is going Nuclear. There are 30 various nuclear agreements in the region today, at all stages (cooperation through build). The first fissile material is scheduled to arrive on the Arabian Peninsula in UAE this year. Russia, China, South Korea are moving aggressively to build Nuclear power plants in the Middle East.

The United States has virtually no industry to compete against China and Russia for new nuclear build in the international marketplace. The U.S. has ceded the domestic nuclear reactor business and is currently dependent on Russian Nuclear fuel to operate our own civil reactors.

Two outcomes are essential for U.S. long-term success:

- We must reestablish the U.S: as the indispensable partner of our M.E. allies
- The U.S. must have a strong international and domestic presence in the civil nuclear power business for our own national security and that of the M.E.

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Strategy

The Trump Administration is designing a 21st Century Marshall Plan. The strategy will be one that empowers the intellectual capital and industrial might of our nation's private sector in a public/private model.

The GCC nations, Egypt, Jordan and Israel share some common and fundamental goals Stability and Security are the pillars of a reimagined Middle East. The development of safe and reliable power and water in the region, at scale, are two core components necessary to achieve the economic, stability goals in the M.E.

American industry stands ready to lead a renewal of industrial and intellectual resources in the region. Aramco is a clear example of the possibilities that arise when American industrial and international financial expertise joins in developing, leading and sustaining economic growth and stability.

Currently Russia and China are moving aggressively to become the Nuclear power providers and primary economic partners in the M.E. Russia, in particular, is using the introduction of Nuclear power as a geo-political tool to push out America during a perceived period of U.S. ambivalence.

A consortium of U.S. National Security, Energy and Foreign Policy experts along with U.S. industry and regional powers have combined to lead the U.S. Private Sector in a peace, power, and prosperity partnership with Saudi Arabia. (International Peace, Power, Prosperity, IP3)

Key Regional Objectives of IP3 "The Iron Bridge Project"

- Deliver a massive deployment of reliable electricity from nuclear power plants with a "Secure In-and-Out Fuel Cycle".
- Provide best in class U.S. Security to ensure preeminent protection of the Plants, Grid and extended critical infrastructure. Support the development of an "Arab Nato" designed to provide regional security constructs and institutions for long term stability.
- Accelerate the Transformation plans of the M.E. through development of the "Knowledge Economy."
- Create 500,000 highly skilled jobs and help meet the localization goals for the M.E. This will help to blunt the unemployed Youth Bulge, which is a top challenge for eradicating ISIS and other extremist groups.

Key U.S. Objectives

- Make America Great Again In Nuclear Energy. Reestablish U.S. commercial nuclear supplier base. Rebuild our U.S. Nuclear capacity as part of a revitalization strategy. Reestablish U.S. leadership for ensuring safe Nuclear operations worldwide.
- Reposition U.S as the preeminent partner of the Middle East. Create a durable economic entanglement between U.S. and Middle East while countering the expansionist commercial nuclear agenda of Russia and China.
- Secures U.S. Vital National Interests. Prevent Mutually Assured Destruction scenario and establish Mutually Assured Stability by providing integrated security as a service for the protection of the energy and other critical infrastructure assets
- Grow U.S. jobs and economic opportunity. Creates 200,000 jobs and $250 billion in U.S. revenue by reinvigorating the U.S. industry supply chain for civil nuclear power.
- Deliver U.S. non-proliferation and energy objectives. This Public/Private endeavor will be the catalyst for enabling many of the policy objectives of the U.S. departments and agencies.

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Document emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017— "The Trump Middle East Marshall Plan (White Paper by Tom Barrack)," dated March 10, 2017.

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The Trump Middle East Marshall Plan

(White Paper by Tom Barrack)

March 10, 2017

Overview

The policies of the last eight years have created unprecedented challenges for our nation at home and our allies abroad. Nowhere has a failure of American leadership been more profound than the Middle East. The regional problems of the Middle East have grown into global challenges which threaten many of our national interests. Perhaps at no time in the history of our nation have the stakes been higher.

History reflects that transformational economic leadership by America can lead to dynastic industrial, political, and human capital advancements abroad. The Marshall Plan following the Second World War was one such initiative which became one of the greatest foreign policy and economic growth achievements of the past century. It is now time to develop a 21st Century Trump Marshall Plan to provide a coordinated economic development initiative for the Middle East. The goals of the Trump Marshall Plan and its European predecessor are similar in that the desired result is a balanced and cooperative regional economic unit which foregoes "nation-state" rivalries for the benefit of global economic prosperity and growth, and thereby establishes an enduring peace which accrues to American interests. A primary difference from the previous Marshall Plan is that the Trump Middle East Marshall Plan will be funded and paid for by the GCC countries themselves; however, it will be directed by American ingenuity, industry, and financial diplomacy!

The Trump Plan's Five Objectives

1. Stop the exportation of radical Islamic terrorism.
    a. This goal will be accomplished by supporting our "benevolent Islamic allies" in the creation and implementation of a viable economic development plan which will provide hope and shared prosperity.
2. Aid in a peaceful resolution between Israel and Palestine.
    a. Egypt is paramount to this process, and Egypt must support an Israeli solution if any peace process is to be successful.
    b. However, Egypt can only survive the Muslim Brotherhood and other internal attacks if it develops a viable economic plan for hopeful prosperity for its people executed in a co-operative but not corrupt manner with its military.
3. Maintain the regional balance of power by countering Iranian and Russian intervention through USA economic cooperation.
    a. Russia, China and Iran have filled the voids created by American foreign policy missteps of the past.

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4. Generate USA economic stimulus and growth by expanding international opportunities for our domestic industries and service providers, thereby creating jobs, reducing our trade deficit and providing investment for research and development.
    a. American-made Engineering, Construction, Power, Water, Agricultural, Healthcare, Security, Legal, Logistics, and Financial industries will pave a new path of economic development.
5. Provide a countervailing and compassionate foreign policy initiative as the USA becomes more scrutinizing and firm with immigration and national defense policy across the Middle East and other Islamic regions.

A Regional Economic Blueprint: Uniting Tribes and Flags

A revised economic blueprint and vision is a major component of any Middle East Peace initiative for Israel, Palestine and the broader Middle East. In fact, there is no Middle East. There are only tribes, flags, and local loyalties which seldom corroborate on religion, geography, language, and political systems. The region's boundaries were drawn after the First World War by the dominant powers of the West to conform to the Western-exported notion of a nation-state for the purposes of the West. Along this road, the West engaged in a foreign relations policy of "catch and release." Western powers supported local ruling regimes to form "nation-states" and when the Western motivations shifted the West discarded those rulers and replaced them with changed regimes. The social barbell of "haves" and "have-nots" was to the benefit of the West in need of stable non-democratic regimes with whom to negotiate resource contracts for fossil fuels upon which the West was almost entirely reliant. This practice was magnified in the recent Arab Spring which failed in all aspects and transitioned into an Arab Fall. The fortunes of the primarily Sunni "oil-cursed" GCC countries have reversed in the wake of a changing global fossil fuel market, a series of misguided regime changes, an inconsistent foreign policy from the USA, and a growing threat from Iran and its proxies across the region.

It is time for a new alliance built upon a foundation of economic sustainability and growth for the various nation states within the region. Without economic direction, vision, and leadership from the West, the Middle East tribes will find alliances with Russia and Iran, which are the only groups that will provide hope and support for them. In the absence of the hope of economic growth and domestic prosperity, a cadre of radical Islamist groups, which are all competing to form borderless caliphates across the region, will capture the hearts and minds of the almost 100 million youth in the region who will mature into the working age demographic in the next decade. The growing regional economic illness left unattended will become an international terrorist epidemic of despair, hostility, and anger.

We must provide an economic action plan which fits "hand-in-glove" with a security and diplomatic plan. While the IMF and World Bank are important partners in the process as accessories, these institutions are not capable to serve as principals. Rather, USA

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Industrial resources when coupled with America's financial, legal and trade expertise, funded by our GCC allies, can create a path through this jungle. The development of power and water in the region, at scale, are two of the key ingredients that can lead a renewal of American industrial and intellectual resources in the region. ARAMCO is a clear example of the possibilities that arise when USA industrial and international financial expertise joins in developing and sustaining a nation state resource and industry on a global canvas.

The Strategy of the Trump Middle East Marshall Plan

The strategy will be one that empowers the intellectual capital and industrial might of the USA's private sector in a public-private venture. It will align with the strategic interests and challenges of the United States, our Allies, and global partners. The pillars of this Trump Plan will be the long-term economic stability and security of a reimagined Middle East economy. The Trump Plan will enable the visions of Israel, the GCC, Egypt, and Jordan to create an economic union which in itself can fuel an Israeli-Palestinian solution and a quelling of the civil displacements in the region.

This Trump Middle East Marshall Plan will be funded primarily by the nations of the GCC in the Middle East, not by US taxpayers. However, the Trump Plan will be led by USA industry, financial and trade experts working hand-in-hand with the traditional diplomatic channels and venues. American leadership in basic themes can change the landscape in the following ways:

- Power generation and distribution when combined with the security which assures its continuity;
- Water and gas, when coupled with cross-border transmission and cooperation;
- Food and agriculture, when coupled with the education of how to grow, process and distribute it;
- Housing, when coupled with a state housing policy which makes it affordable.
- Education and training, when coupled with a legal and financial system that encourages direct foreign investment by providing predictability and transparency.
- Streamlined regulation, business, and trade administration, and a reliable legal system with cross-border regional collaboration.

The Designation of a Special Envoy to Effectuate the Trump Plan

Under the Constitution, the President of the United States determines USA foreign policy. The Secretary of State, appointed by the President with the advice and consent of the Senate, is the President's chief foreign affairs adviser. Also, the President may

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appoint special envoys to carry out defined missions to further improve the foreign affairs of the United States.

The President will appoint a special representative for the Trump Middle East Marshall Plan with the diplomatic rank of ambassador or special advisor to the President. The primary objectives of the Trump Middle East Marshall Plan are to terminate the exportation of radical Islamic terrorism, to establish a lasting resolution between Israel and Palestine, to maintain the balance of power in the face of a growing Iranian and Russia threat, and to generate economic growth, exports and fiscal stimulus at home. The Trump Plan will generate commercial opportunities for U.S. companies both domestically and abroad while delivering security, infrastructure, and significant economic development for the host countries.

Implementing a Trump Middle East Marshall Plan

Under the Trump Middle East Marshall Plan, the President shall appoint a Special Envoy for the engagement on important economic and cross-border issues, and for developing a comprehensive economic vision for the Middle East region to address its youthful population and changing economy, and which would be funded by the GCC and supported by operating partnerships with USA industry and business.

Immediate Action

To appoint a Special Envoy who will then coordinate and work hand-in-hand with the Secretary of State, Rex Tillerson, Special Advisors to the President, Jared Kushner and Gary Cohn, and the National Security Advisor, Lt. Gen. H.R. McMaster, in formulating a Trump Plan. A Cabinet Council will then be formed which will be chaired by the Special Envoy. The Cabinet Council will consist of the Special Advisors to the President, Senior Deputy or Under-Secretaries from various designated USA agencies including the Dept. of Treasury, Dept. of Commerce, NSC, Dept. of Defense, Dept. of Energy, the DHS and the CIA. The Special Envoy, on behalf of the Cabinet Council, will constantly advise and inform POTUS on the Council's progress and actions.

Within 30 days of the implementation of the executive order, the Special Envoy will organize a working group - "Joint Cooperation Council" - to develop the salient issues and concerns which must be formulated in a working plan. This working group will consist of senior designees from relevant GCC and Middle East countries, the USA ambassadors in those countries, the relevant USA industries, and the IMF and World Bank. Within 90 days, this Joint Cooperation Council will set forth an action plan and priorities. It will set forth a relatively short study period and enumerate specific tasks and undertakings in conjunction with time frames necessary to accomplish these undertakings and the funding sources necessary for execution.

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The Duties of the Special Envoy:

- Serves as the President's special representative, working hand-in-hand with the Secretary of State and the Senior Advisors to the President, for the execution of a Trump Marshall Plan in the Middle East through an Executive Order.
- Solicits funding from participating GCC countries for studies and implementation of the Trump Plan.
- Acts as a liaison between conflicting Middle East regimes to resolve economic paralysis or conflicts.
- Coordinates activities with the relevant departments and agencies of the USA government including but not limited to the Departments of State, Treasury, Commerce, Defense, Energy and Homeland Security.
- Builds trusted relationships with the top leaders of GCC countries, Israel, Egypt, Jordan, and Iraq.
- Builds long-line relationships with U.S. private sector leaders acting as their expediter in clearing the traditional regional and regulatory hurdles to their participation.
- Advises the President, Secretary of State and Congress on the key operational and strategic issues directly related to the Trump Plan.
- Integrates the Trump Plan objectives with the appropriate USA Ambassadors to relevant host countries.
- Administers the overall objectives of the Trump Middle East Marshall Plan.

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Document emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017—a letter that IP3 leaders Mr. McFarlane, General Keane, Rear Admiral Hewitt, and General Alexander addressed to Saudi Deputy Crown Prince Mohammed bin Salman on March 17, 2017.

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International Peace, Power, Prosperity (IP3 Corp)
7900 Tysons One Place
McLean VA 22101

17 March 2017

His Royal Highness Mohammed bin Salman Al Saud
Deputy Crown Prince
Kingdom of Saudi Arabia

Your Royal Highness,

Following your monumental meeting this week with President Donald Trump, the United States and the Kingdom of Saudi Arabia will stand side by side in a new strategic partnership to support the stability and prosperity of the Middle East. This new partnership will be anchored on the pillars of Energy, Security and Prosperity, the life blood of any thriving nation. The policies of the last eight years have created unprecedented challenges for our two countries that must be addressed immediately. The agreements by President Trump and Mohammed bin Salman have established the framework for our unique opportunity to take the next steps with IP3 and the Kingdom of Saudi Arabia.

The IP3 (International Peace, Power, and Prosperity) program for Middle East can serve as the foundation of the first material solutions outlined this week in Washington, delivering significant benefits:

1. Economic. The program's economic impact, the largest since the creation of Aramco, will allow the United States and the Kingdom of Saudi Arabia to lead the peaceful, safe, secure introduction of nuclear power to the region. This will cement an 80-year economic, infrastructure, technology partnership that accelerates Vision 2030 and establishes Saudi Arabia as the leader across three continents.

2. Political. The partnership to acquire Westinghouse between IP3 and Saudi Arabia will save "an American Crown Jewel" and a strategic asset for our country. We cannot achieve this goal alone. IP3 has coordinated this opportunity with key interests in the United States and Japan.

3. Jobs. The program will create 500,000 jobs in the future knowledge economy of the Kingdom and GCC. The United States would equally benefit with the creation of 200,000 jobs while reinvigorating the U.S. Nuclear industry and supply chain.

4. Media. The partnership will give each of our respective countries the opportunity to have a "good news story" for our media and our citizens. The economic relationship will show results immediately for Vision 2030 and the Kingdom's "Saudization" goals. The partnership between our countries must transcend to actual positive impact to our collective people.

Not since President Roosevelt met with King Salman bin Abdul Aziz in 1945 has a more important engagement occurred between our countries. We stand ready to meet and proceed.

Very respectfully,

General Keith Alexander — General Jack Keane — Hon. Bud McFarlane — Rear Admiral Mike Hewitt

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Document emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017—a January 1, 2017, letter to Deputy Crown Prince Mohammed bin Salman, signed by IP3 leaders General Alexander, General Keane, Bud McFarlane, and Rear Admiral Hewitt, as well as the chief executives of six companies: Exelon Corporation, Toshiba Energy, Bechtel Corporation, Centrus, GE Power, and Siemens USA.

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His Royal Highness Deputy Crown Prince Mohammed Bin Salman,

Your Royal Highness,

History reflects that transformational ideas can lead to great industrial, political, and human capital advancement. Today, we stand at another important threshold, one which has great promise for the future of the Middle East and North Africa, as well as the global economy and humanitarian well-being.

We admire the spirit of Vision 2030, a new transformational economic strategy to diversify and strengthen the prosperity of the Kingdom of Saudi Arabia and your citizens. Your efforts may resonate throughout the neighboring GCC nations as they work toward similar economic growth opportunities.

It is in the spirit of that shared vision of a new path toward durable economic prosperity and global partnership that International Peace Power and Prosperity Corporation (IP3) and the IronBridge Group, present the Iron Bridge Program as a 21st Century Marshall Plan for the Middle East. This plan is designed to create long term government to government and commercial to commercial partnerships between the United States and the Kingdom of Saudi Arabia. The Iron Bridge Program enables and aligns with Vision 2030 as a transformational model to build a public private partnership between IP3, and its U.S. security subsidiary IronBridge Group, alongside the Kingdom of Saudi Arabia and the GCC nations. The Iron Bridge Program sits directly at the intersection of security, energy, and prosperity.

This program is designed to resource the tools of stability and irrevocable security while providing the industrial infrastructure for long-term reliable electricity supply, bringing hundreds of thousands of jobs to Saudi Arabia and beyond. This program is also intended to expedite Vision 2030 and recast the alliances among the participating nations. Through this partnership our program intends to deliver the best in manufacturing, education, training, advanced technology, security, and energy resources for the advancement of prosperity and peace in the region as well as the global good. The Iron Bridge Program incorporates the knowledge capital and capabilities of the world's leading global infrastructure companies to the Kingdom and its GCC neighbors in pursuit of these commonly shared goals.

It is with great respect and anticipation that we voice our support for your Vision 2030 program and for the IronBridge Program as a strategic accelerator and enabler for your vision of building prosperity at "the heart of the Arab and Islamic worlds, the investment powerhouse, and the hub connecting three continents." We stand ready to engage further upon your direction.

Sincerely,

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General Keith Alexander

General Jack Keane

Honorable Robert McFarlane

Rear Admiral Mike Hewitt

Chris Crane: CEO Exelon Corporation

Danny Roderick: CEO Toshiba Energy

Bill Dudley: Bechtel Corporation

Dan Poneman: CEO Centrus

Stephen Bolze: CEO GE Power

Judy Marks: CEO Siemens USA

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Whistleblowers Raise Grave Concerns with Trump Administration's Efforts to Transfer Sensitive Nuclear Technology to Saudi Arabia

Prepared for Chairman Elijah E. Cummings

Interim Staff Report
Committee on Oversight and Reform
U.S. House of Representatives

February 2019

oversight.house.gov

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EXECUTIVE SUMMARY

This interim staff report was prepared for Rep. Elijah E. Cummings, the Chairman of the Committee on Oversight and Reform, after multiple whistleblowers came forward to warn about efforts inside the White House to rush the transfer of highly sensitive U.S. nuclear technology to Saudi Arabia in potential violation of the Atomic Energy Act and without review by Congress as required by law—efforts that may be ongoing to this day.

The Trump Administration's interactions with Saudi Arabia have been shrouded in secrecy, raising significant questions about the nature of the relationship.

In 2017, President Trump's son-in-law, Jared Kushner, orchestrated a visit to Saudi Arabia as the President's first overseas trip. Mr. Kushner also met on his own with then-Deputy Crown Prince Mohammed bin Salman, who subsequently ousted his cousin, Mohammed bin Nayef, launched a crackdown against dozens of Saudi royal family members, and reportedly bragged that Mr. Kushner was "in his pocket."

In October 2018, the brutal murder of *Washington Post* columnist Jamal Khashoggi was met with equivocation by President Trump and other top Administration officials. This month, the White House ignored a 120-day deadline for a report on Mr. Khashoggi's killing requested on a bipartisan basis by the Senate Committee on Foreign Relations.

Within the United States, strong private commercial interests have been pressing aggressively for the transfer of highly sensitive nuclear technology to Saudi Arabia—a potential risk to U.S. national security absent adequate safeguards. These commercial entities stand to reap billions of dollars through contracts associated with constructing and operating nuclear facilities in Saudi Arabia—and apparently have been in close and repeated contact with President Trump and his Administration to the present day.

However, experts worry that transferring sensitive U.S. nuclear technology could allow Saudi Arabia to produce nuclear weapons that contribute to the proliferation of nuclear arms throughout an already unstable Middle East. Saudi Crown Prince Mohammed bin Salman conceded this point in 2018, proclaiming: "Without a doubt, if Iran developed a nuclear bomb, we will follow suit as soon as possible."

When Congress passed the Atomic Energy Act, it imposed stringent controls on the export of U.S. technology to a foreign country that could be used to create nuclear weapons. Under Section 123 of the Act, the U.S. may not transfer nuclear technology to a foreign country without the approval of Congress, in order to ensure that the agreement reached with the foreign government meets nine specific nonproliferation requirements.

The whistleblowers who came forward have expressed significant concerns about the potential procedural and legal violations connected with rushing through a plan to transfer nuclear technology to Saudi Arabia. They have warned of conflicts of interest among top White House advisers that could implicate federal criminal statutes. They have also warned about a working environment inside the White House marked by chaos, dysfunction, and backbiting.

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And they have warned about political appointees ignoring directives from top ethics advisors at the White House who repeatedly and unsuccessfully ordered senior Trump Administration officials to halt their efforts.

Even though these disclosures to Congress are protected by law, every whistleblower who spoke with Committee staff expressed significant concern about how their disclosures could lead to political reprisal, retribution, or professional setbacks. However, they stated that they felt compelled to convey their profound concern with the abnormal acts they witnessed inside the White House, including the disregard of advice from career officials, who repeatedly warned about the potential dangers of proceeding with such a sensitive proposal without full consideration and review.

The whistleblowers provided specific dates and information from the relevant correspondence, as well as the names and identities of White House officials engaged in these activities.

For example, the whistleblowers provided new information about IP3 International, a private company that has assembled a consortium of U.S. companies to build nuclear plants in Saudi Arabia. According to media reports, IP3's only project to date is the Saudi nuclear plan.

A key proponent of this nuclear effort was General Michael Flynn, who described himself in filings as an "advisor" to a subsidiary of IP3, IronBridge Group Inc., from June 2016 to December 2016—at the same time he was serving as Donald Trump's national security advisor during the presidential campaign and the presidential transition. According to the whistleblowers, General Flynn continued to advocate for the adoption of the IP3 plan not only during the transition, but even after he joined the White House as President Trump's National Security Advisor.

General Flynn failed to report in his security clearance renewal application a trip he took to Saudi Arabia in June 2015 on behalf of IP3 and its predecessor company. Although he reported a separate trip to Saudi Arabia in October 2015, General Flynn omitted key details, including the identity of the "work sponsor" that financed the trip. General Flynn claimed that he spoke at a conference during that trip, but none of his three speakers' bureaus had any involvement with the trip or knew of any conference there. Finally, General Flynn told investigators that he stayed at the King Khaled International Hotel, but a U.S. consulate official could not identify any such hotel in Saudi Arabia.

Another key proponent of this effort was Thomas Barrack, President Trump's personal friend of several decades and the Chairman of his Inaugural Committee. According to the *New York Times:*

> During the Trump campaign, Mr. Barrack was a top fundraiser and trusted gatekeeper who opened communications with the Emiratis and Saudis, recommended that the

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candidate bring on Paul Manafort as campaign manager—and then tried to arrange a secret meeting between Mr. Manafort and the crown prince of Saudi Arabia.[1]

According to this news report, 24% of the $7 billion in investments raised by Mr. Barrack's company since Donald Trump won the nomination "has come from the Persian Gulf—all from either the U.A.E. or Saudi Arabia."[2] During this period, Mr. Barrack reportedly "pondered the notion, for example, of buying a piece of Westinghouse, the bankrupt U.S. manufacturer of nuclear reactors."[3]

Summary of Whistleblower Concerns

According to the whistleblowers, Derek Harvey, the Senior Director for Middle East and North African Affairs at the National Security Council (NSC) from January to July 2017, stated during the first week of the Trump Administration that the decision to adopt IP3's nuclear plan, which it called the Middle East Marshall Plan, and develop "dozens of nuclear power plants" had already been made by General Flynn during the transition—while he was serving as an advisor to IP3.

Career staff warned that any transfer of nuclear technology must comply with the Atomic Energy Act, that the United States and Saudi Arabia would need to reach a 123 Agreement, and that these legal requirements could not be circumvented. Mr. Harvey reportedly ignored these warnings and insisted that the decision to transfer nuclear technology to Saudi Arabia had already been made.

Both career and political staff inside the White House reportedly agreed that Mr. Harvey's directive could violate the law. One senior political official stated that the proposal was "not a business plan," but rather "a scheme for these generals to make some money." That official stated: "Okay, you know we cannot do this."

Yet, just days after the President's inauguration, IP3 officials sent documents directly to General Flynn for President Trump to approve, including a draft Cabinet Memo stating that the President had appointed Mr. Barrack as a special representative to implement the plan and directing agencies to support Mr. Barrack's efforts.

According to the whistleblowers, the NSC Ethics Counsel and several attorneys in the NSC Legal Advisor's office agreed that General Flynn had a potential conflict of interest that could violate the criminal conflict of interest statute, 18 U.S.C. § 208. As a result, NSC Legal Advisor John Eisenberg instructed NSC staff to cease all work on the plan.

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[1] *Who is Behind Trump's Links to Arab Princes? A Billionaire Friend*, New York Times (June 13, 2018) (online at www.nytimes.com/2018/06/13/world/middleeast/trump-tom-barrack-saudi.html).

[2] *Id.*

[3] *White House May Share Nuclear Power Technology with Saudi Arabia*, ProPublica (Nov. 29, 2017) (online at www.propublica.org/article/white-house-may-share-nuclear-power-technology-with-saudi-arabia).

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Despite the concerns of whistleblowers and NSC attorneys, and even after the President fired General Flynn in mid-February, officials inside the White House continued to move forward on the IP3 nuclear plan. More than five individuals separately confirmed that Mr. Harvey stated during a meeting on March 2, 2017: "I speak with Michael Flynn every night."

In mid-March 2017, Deputy National Security Advisor K.T. McFarland reportedly stated during a meeting that President Trump told Mr. Barrack that he could lead the implementation of the plan. She also disclosed that Mr. Barrack would be speaking with Mr. Harvey that day. Mr. Harvey subsequently held a conference call with Mr. Barrack, along with Rick Gates, President Trump's former Deputy Campaign Manager and Deputy Chairman of the Inaugural Committee, whom Mr. Barrack had hired to manage the Washington, D.C. office of Mr. Barrack's company. A career NSC staffer who joined the call with Mr. Gates, Mr. Barrack, and Mr. Harvey later informed colleagues that Mr. Harvey was trying to promote the IP3 plan "so that Jared Kushner can present it to the President for approval."

According to the whistleblowers, on March 24, 2017, multiple employees raised to the NSC Legal Advisor their concerns, including a detailed description of reported unethical and potentially illegal actions by General Flynn and Mr. Harvey. In response to these concerns, National Security Advisor H.R. McMaster reportedly informed NSC staff that they should cease working on the IP3 proposal. However, NSC staff remained concerned because the same individuals continued their work on IP3's proposal.

Limitations and Next Steps

These whistleblowers provided a snapshot of events at the beginning of the Trump Administration, but it is limited. While serving as Ranking Member of the Committee, Rep. Cummings tried to investigate these actions for years, without Republican support.

The Committee also received documents bolstering the whistleblowers' accounts, showing repeated communications between IP3 officials and Trump Administration officials, and underscoring the central role played by Mr. Barrack and his associates in promoting the IP3 nuclear plan to the White House.

Based on this snapshot of events, the Committee is now launching an investigation to determine whether the actions being pursued by the Trump Administration are in the national security interests of the United States or, rather, serve those who stand to gain financially as a result of this potential change in U.S. foreign policy.

The Committee's investigation is particularly critical because the Administration's efforts to transfer sensitive U.S. nuclear technology to Saudi Arabia appear to be ongoing. On February 12, 2019, the President met with nuclear power developers at the White House about sharing nuclear technology with countries in the Middle East, including Saudi Arabia. In addition, next week Mr. Kushner will be embarking on a tour of Middle Eastern capitals—including Riyadh—to discuss the economic portion of the Administration's Middle East peace plan.

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I. TIMELINE OF REPORTED EVENTS

Set forth below are reports from the whistleblowers, along with references to specific documents that would corroborate their claims, as well as pertinent contextual events:

- **Transition:**
  - After President Trump won the election, a Saudi delegation consisting of "[t]op aides to Saudi Arabia's Prince Mohammed" reportedly met with Jared Kushner, President Trump's son-in-law, on a trip to New York. The delegation reportedly included "Khaled al-Falih, installed by the prince as minister of energy and chairman of the state oil company." The delegation reportedly proposed initiatives "timed to Mr. Trump's first term in office, like proposals to spend $50 billion over four years on American defense contracts," and "urged Mr. Trump to come to Saudi Arabia himself to 'launch the initiatives as part of a historic welcome celebration.'"[4]

- **January 1, 2017:**
  - IP3 leaders General Keith Alexander, General Jack Keane, Mr. Bud McFarlane, and Rear Admiral Michael Hewitt, as well as the chief executives of six companies— Exelon Corporation, Toshiba America Energy Systems, Bechtel Corporation, Centrus Energy Corporation, GE Energy Infrastructure, and Siemens USA— signed a letter to Deputy Crown Prince Mohammed bin Salman. The letter presented "the Iron Bridge Program as a 21st Century Marshall Plan for the Middle East" and stated that it was "designed to create long term government to government and commercial to commercial partnerships between the United States and the Kingdom of Saudi Arabia."[5]

- **January 20, 2017:**
  - Donald J. Trump was inaugurated as the 45th President of the United States.
  - Alex Copson, a former business colleague of National Security Advisor Michael Flynn who had been pitching a Middle East nuclear project from his company, ACU Strategic Partners, reportedly bragged at an Inauguration Day event that General Flynn had sent him a text message that the Middle East nuclear project was "good to go" and directing Mr. Copson to contact their business colleagues to "let them know to put things in place." This description was provided by a whistleblower who attended the Inauguration Day event.[6]

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[4] *The Wooing of Jared Kushner: How the Saudis Got a Friend in the White House*, New York Times (Dec. 8, 2018) (online at www.nytimes.com/2018/12/08/world/middleeast/saudi-mbs-jared-kushner.html).

[5] Letter from General Keith Alexander, IP3, et al. to Deputy Crown Prince Mohammed bin Salman (Jan. 1, 2017) (emailed from Frances Fragos Townsend to National Security Council staff as part of a package on Mar. 28, 2017).

[6] Letter from Ranking Member Elijah E. Cummings to Chairman Trey Gowdy, Committee on Oversight and Government Reform (Dec. 6, 2017) (online at

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- **Week of January 21, 2017:**

  - At an organizational meeting with NSC staff detailed from the intelligence community and the State Department, Derek Harvey, the Senior Director for Middle East and North African Affairs at the National Security Council and a top aide to General Flynn, stated that he had prepared a "new strategy" for U.S. engagement in the Middle East that included a new "regional economic and energy plan." He also stated that he developed this new strategy during the transition period in response to a request from General Flynn.

  - During the same meeting, NSC staff explained that two NSC offices were responsible for economic and energy issues and that subject matter experts at the NSC and departments typically worked together to prepare and vet proposals for the President and his national security team. The staff also told Mr. Harvey that the Obama Administration had prepared a transition memorandum outlining the status of ongoing U.S. energy and economic initiatives with countries in the Middle East.

  - Mr. Harvey declined to obtain input from economic and energy subject matter experts at the NSC or cabinet departments. Instead, he asserted that General Flynn had directed Mr. Harvey to take charge of the new "regional economic and energy plan" for the Middle East, which would include "dozens of nuclear power plants."

- **January 27, 2017:**

  - Seven days after the inauguration—and two days before a scheduled call with King Salman of Saudi Arabia—Mr. Harvey met in his office at the White House with a group of retired generals who work for IP3, including its co-founders, General Keane and Mr. McFarlane.

  - Immediately after the meeting, Mr. Harvey directed the NSC staff to add information about IP3's "plan for 40 nuclear power plants" to the briefing package for President Trump's call with King Salman. Mr. Harvey also stated that General Flynn wanted President Trump to raise the "plan for 40 nuclear power plants" with King Salman and that this was the "energy plan" that had been developed and approved by General Flynn during the presidential transition.

  - In response, several NSC staff informed Mr. Harvey that any specific plan to transfer nuclear technology to a foreign country must comply with several legal requirements. Specifically, staff explained to Mr. Harvey that under Section 123 of the Atomic Energy Act, the United States is required to reach a 123 Agreement before any nuclear technology may be transferred—a process that would take significant time and consultation with subject matter experts at the NSC, State Department, Department of Defense, and Department of Energy. NSC staff informed Mr. Harvey

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https://oversight.house.gov/sites/democrats.oversight.house.gov/files/2017-12-06.EEC%20to%20Gowdy.pdf).

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that these legal requirements could not be circumvented by General Flynn or Mr. Harvey.

- Despite these warnings, Mr. Harvey insisted that the decision to transfer nuclear technology to Saudi Arabia had already been made during the presidential transition and that General Flynn wanted President Trump to raise "the nuclear power plants" with King Salman.

- After the meeting, NSC staff consulted with several other career and political staff members who were more senior than Mr. Harvey, all of whom agreed that Mr. Harvey's directive could violate laws and regulations. Staff from the Middle East Directorate, the Nonproliferation Directorate, and the International Economic Affairs Directorate conferred and expressed concern that it would be inappropriate for President Trump to raise the unvetted—and potentially illegal—"plan for 40 nuclear power plants" during his call with King Salman.

- NSC staff also consulted with a senior political appointee currently serving in the Trump Administration who was not affiliated with the IP3 plan (Senior Official 1). Senior Official 1 told NSC staff that they "absolutely should not include the issue" in President Trump's talking points. Senior Official 1 stated that the official knew about Mr. Harvey's meeting with the retired generals from IP3, and said the proposal was "not a business plan," but rather "a scheme for these generals to make some money." Senior Official 1 stated that General Flynn had been part of the group of retired generals at IP3 prior to his appointment as National Security Advisor. Senior Official 1 stated to NSC staff: "Okay, you know we cannot do this."

- **January 28, 2017:**

  - General Flynn and Deputy National Security Advisor K.T. McFarland received two documents in their official White House email accounts in a message entitled, "Launching the Marshall Plan for the Middle East" from Mr. McFarlane, a co-founder and Director of IP3 and a former national security advisor to President Reagan who pleaded guilty to participating in the Iran-Contra cover-up in 1988.

  - Mr. McFarlane was not a member of the Trump Administration, and he apparently sent the email in his role as an IP3 official. The email included: (1) a draft cover memorandum written from General Flynn to President Trump; and (2) a draft memorandum "for the President to sign" directing agency heads to lend support to Thomas Barrack for the implementation of the IP3 plan. Mr. McFarlane also wrote that the IP3 team and Thomas Barrack, the President's personal friend and Chairman of the Inaugural Committee, concurred with both memos.

  - The first document was formatted as a Memorandum for the President authored by General Flynn. The Memorandum stated, "Tom Barrack has been thoroughly briefed on this strategy and wants to run it for you. He's perfect for the job. Rex and Jim are

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supportive of Tom's focus on this also."[7] It also stated, "In the enclosed memo you would call upon the relevant cabinet officers to lend their support to this historic program. I recommend that you sign it."[8]

- The second document was formatted as a Cabinet Memorandum from the President to the Secretaries of State, Defense, Treasury, and Energy; the Director of the Central Intelligence Agency; and the Chairman of the Joint Chiefs of Staff. It stated that President Trump had assigned Mr. Barrack as a special representative to oversee implementation of the Middle East Marshall Plan: "I have assigned a special representative, Tom Barrack, to lead this important initiative and I am requesting him to engage each of you over the next 30 days to gain your input and support for our Middle East Marshal [sic] Plan."[9]

Figure 1: Jan. 28, 2017, Email from McFarlane to Flynn and McFarland[10]

From: Robert McFarlane [redacted]@mcfarlaneassociatesinc.com
[redacted]@mcfarlaneassociatesinc.com>>
Date: January 28, 2017 at 10:41:47 AM EST
To: Michael FLYNN <Michael.T.Flynn@nsc.eop.gov <mailto:Michael.T.Flynn@nsc.eop.gov>>,
<K.T.McFarland@nsc.eop.gov <mailto:K.T.McFarland@nsc.eop.gov>>
Cc: 'Mike Hewitt' [redacted]@Ironbridgesecurity.com
[redacted]@ironbridgesecurity.com>>, Keith Alexander
[redacted]@ironnetcybersecurity.com
[redacted]@ironnetcybersecurity.com>>, Jack Keane <jkeane@scppartners.com
[redacted]@scppartners.com>>, Stuart SOLOMON [redacted]@gmail.com
[redacted]@gmail.com>>
Subject: Launching the Marshall Plan for the Middle East

Mike and KT,

Enclosed please find two memos as follows:

First, a cover memo from you Mike, to the President. It explains on one page the origins, geopolitical necessity, benefits -- to the U.S. and host countries – structure, and Tom Barrack's leadership for execution of the strategy; and

Second, a memo for the President to sign to relevant cabinet officers calling on them to lend support to Tom Barrack for the execution of the plan.

Our team and Tom Barrack concur with both memos.

Warm regards,

Bud

Robert C. McFarlane
Co-Founder
U.S. Energy Security Council
2700 Virginia Ave. NW (Suite 901)
Washington, DC 20037

[7] "Rex" appears to be reference to then-Secretary of State Rex Tillerson, and "Jim" appears to be a reference to then-Secretary of Defense James Mattis.

[8] Draft Memorandum for President Donald Trump from Michael T. Flynn, *The Marshall Plan for the Middle East* (undated).

[9] Draft Memorandum from the President of the United States to the Secretary of State; the Secretary of Defense; the Secretary of the Treasury; Director, Central Intelligence Agency; and Chairman, Joint Chiefs of Staff, *A Marshall Plan for the Middle East Based on Power, Peace and Prosperity* (undated).

[10] This email has been re-typed to protect its source.

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- General Flynn forwarded Mr. McFarlane's email and its attachments to White House staff and directed them: "Prep a staff packet to go to the POTUS."

- Mr. Harvey and others were instructed to finalize the decision memorandum by January 30, 2017.

- That evening, NSC staff tasked with carrying out General Flynn's instructions discussed the latest direction with other senior NSC appointees who outranked Mr. Harvey. They raised a concern that the directive created significant conflicts of interest since General Flynn's former business colleagues stood to benefit from the plan and because the plan could generate improper benefit for private parties, including Mr. Barrack, the President's personal friend. These officials agreed with the NSC staff's concerns and said they planned to contact the NSC Legal Advisor.

- **January 29, 2017:**

  - As discussions continued, Senior Official 1 reiterated to relevant NSC staff that it would be inappropriate for President Trump to raise the "40 nuclear plants" with King Salman.

- **January 30, 2017:**

  - NSC staff met with the NSC Ethics Counsel and several attorneys in the NSC Legal Advisor's office who agreed that General Flynn had a potential conflict of interest that could violate the criminal conflict of interest statute, 18 U.S.C. § 208. Those attorneys immediately arranged for NSC staff to meet with NSC Legal Advisor John Eisenberg.

  - Later that day, NSC staff met with Mr. Eisenberg and other NSC lawyers and again described the actions of General Flynn and Mr. Harvey. Mr. Eisenberg stated that NSC staff "did the right thing" by reporting the issue, and he promised to immediately raise the issue with K.T. McFarland, the Deputy National Security Advisor. Mr. Eisenberg instructed NSC staff to cease all work on the plan.

  - When Mr. Harvey learned of Mr. Eisenberg's directive to halt work, he reacted angrily, but conceded that General Flynn had an apparent conflict of interest.

- **January 31, 2017:**

  - The NSC Ethics Counsel and Senior Official 1 attended a meeting at the White House that General Flynn had been previously scheduled to have with IP3. They explained to IP3's backers that the White House was not the appropriate venue to receive IP3's proposal. They directed the company to submit its proposal to an appropriate Cabinet agency, per the standard interagency process of reviewing proposals from third parties.

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- Later, Mr. Eisenberg informed NSC staff who had brought this matter to his attention that "we don't need to do anything else about this." He stated that Deputy National Security Advisor K.T. McFarland had agreed there would be no further NSC action on the Middle East Marshall Plan.

- **February 2017:**

  - Mr. Barrack's investment firm, Colony NorthStar, reportedly "developed a plan to profit off its connections to the incoming administration and foreign dignitaries" and documented the plan in a confidential February 2017 memo authored by Rick Gates. Some of these key connections were invited to a January 17, 2017, inaugural event organized by Mr. Barrack, including the United Arab Emirates' ambassador to the United States and the foreign ministers from Qatar, Saudi Arabia, and the United Arab Emirates. The list appears to indicate that the foreign ministers from Qatar, Saudi Arabia, and the United Arab Emirates were associated with General Flynn.[11]

  - Colony NorthStar's memorandum proposed establishing a "combined international government and business team" that would "provide unparalleled convening power in Washington, DC and around the globe," including by convening "roundtables between Ambassadors and members of the Administration to cultivate relationships with a targeted focus" and tying Colony NorthStar projects "into international bilateral meetings already occurring with key members of the Trump Administration." The memo represented that Colony NorthStar already had "a pipeline of potential projects" and that the firm's employees had already made contact with "several of the key agencies that will direct those efforts." It concluded, "There are other groups forming but none that can currently match the relationships or resources that we possess."[12]

- **February 13, 2017:**

  - President Trump fired General Flynn for lying to the Vice President and the Federal Bureau of Investigation (FBI) about his secret conversations with the Russian Ambassador.[13]

- **March 2, 2017:**

  - More than five individuals have separately confirmed that Mr. Harvey stated during an internal meeting on March 2, 2017: "I speak with Michael Flynn every night."

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[11] *Confidential Memo: Company of Trump Inaugural Chair Sought to Profit from Connection to Administration, Foreigners*, WNYC Studios (Feb. 5, 2019) (online at www.wnycstudios.org/story/confidential-memo-company-trump-inaugural-chair-sought-profit-connection-administration-foreigners).

[12] *Strategic Plan for Colony NorthStar, Inc.*, Colony NorthStar (Feb. 2017) (online at www.documentcloud.org/documents/5726057-Colony-memo-February-2017.html).

[13] *Trump Says He Fired Michael Flynn "Because He Lied" to F.B.I.*, New York Times (Dec. 2, 2017) (online at www.nytimes.com/2017/12/02/us/politics/trump-michael-flynn.html).

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They noted that this statement was especially troubling given that President Trump fired General Flynn several weeks earlier and the FBI was reportedly investigating General Flynn.

- NSC staff subsequently met with the new National Security Advisor, General H.R. McMaster, and raised concerns about Mr. Harvey, including his ongoing contacts with General Flynn and efforts to circumvent the interagency procedures that General McMaster put in place.

- **March 3, 2017:**

  - General McMaster directed General Keith Kellogg, NSC Chief of Staff, to investigate reports of misconduct and gross mismanagement at NSC.

  - Over the course of that internal investigation, General Kellogg was informed about the previous actions of General Flynn and Mr. Harvey to advance the IP3 plan, the potential conflicts of interest and legal concerns involved, and the attempts by NSC staff to address these matters by consulting with multiple White House officials, including Mr. Eisenberg and Senior Official 1.

  - General Kellogg was informed that Mr. Harvey stated that he was in frequent contact with General Flynn following his termination.

  - General Kellogg confirmed that the IP3 plan had been "briefed" to the transition team.

- **March 4, 2017:**

  - Despite orders to halt all work, the IP3 plans continued at the White House. Mr. McFarlane, in his capacity as IP3's co-founder and director, sent an email to Mr. Harvey entitled "We're Very Close to Losing Our Position in the Middle East."

  - In the email, Mr. McFarlane sought Mr. Harvey's assistance to get IP3's plan presented to President Trump for approval. He expressed that he was seeking a public U.S. government statement or letter of support for the IP3 plan, ideally ahead of then-Saudi Deputy Crown Prince Mohammed bin Salman's visit to Washington, D.C.

  - In the email, he wrote to Mr. Harvey: "KT McFarland is fully conversant with our plan and suggested that I come see you to brainstorm on next steps."

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Figure 2: Mar. 4, 2017, Email from McFarlane to Harvey[14]

From: Robert McFarlane [redacted]@mcfarlaneassociatesinc.com]
Sent: Saturday, March 4, 2017 6:34 PM
To: Derek HARVEY (Derek.J.Harvey@nsc.eop.gov) <Derek.J.Harvey@nsc.eop.gov>
Subject: We're Very Close to Losing Our Position in the Middle East

Derek,

I hope that you're getting at least a day away from the office this weekend.

I'm writing to ask for a half hour of your time next week. Two issues: First,

Russia & China Are Very Close to Overturning 70 years of U.S. Dominance in the Middle East – I'm sure you've followed the traffic reporting Russian visits to Cairo to set a date for formalizing the Da'ba Nuclear Power Plant ($29 billion project being financed by Russia – the first of many in a long-term Russian initiative). Elsewhere in Saudi and Jordan, Russia has signed MOUs or letters of intent to build, own and operate more than 30 nuclear power plants. These plants are a central element of a much broader Russian plan to dislodge and replace the U.S. as the dominant power in the Middle East

Electric power is the linchpin, the *sine qua non* of any hope of achieving the ambitious Saudi goals expressed in Vision 2030 and parallel economic development goals of the other GCC countries. As you know from meetings with General Keane, our team has been focused on building a detailed plan for how to restore U.S. leadership in the region, while concurrently preempting a nuclear arms race between Iran and the Sunni Arab countries by building those 30 nuclear plants and also providing a robust physical, cyber and ISR regime in each host country. We've engaged at decision-making levels in every country involved. All are strongly supportive of our plan. But all of them ask the same question, **"Where is your government on this matter?"**

As you know we're not looking for financial support; the host countries will pay the entire cost – so strong is their wish to have the U.S. turn away from the "betrayal" (as they see it) expressed in the JCPOA, and return to honoring the pledge made by President Roosevelt in the Quincy Agreement 72 years ago. So what is my point?

We've been seeking to brief our plan to POTUS, the Secretary of State and the Secretary of Defense, and then to stimulate an expression of support – again from POTUS or Sec State – that clears the air. Such a statement or letter need not refer to us specifically, for indeed we understand that our government ought not be "picking winners." We'll be happy to compete with any other team that any other American wants to put together. But the Saudis and GCC countries want to hear a full throated statement from our government in Washington that the U.S. supports their plans for modernizing and industrializing the political-economy of their countries and that we want American companies to participate vigorously. Full stop.

We haven't been able to get those briefings scheduled, as a prelude to stimulating that kind of public statement (or letter). We need your help and have some ideas. KT McFarland is fully conversant with our plan and suggested that I come see you to brainstorm on next steps.

EGYPT – As you know, President Sisi has been struggling since taking over to cope with his country's desperate situation. He is beset by jihadists from Sinai to Libya and his economy is a shambles. The Egyptian people have become vocally anti-American. He desperately needs a visible boost from the United States and has sent a personal emissary to propose a step by step approach to rebuilding the relationship based upon a reciprocal series of steps designed to reduce tensions and turn around the restive sentiment of the Egyptian people. I'd like to pass his ideas on to you and propose a way forward.

Can I call you on Monday to fix a convenient time for us to get together?

Warm regards,

Bud

Robert C. McFarlane
Co-Founder
U.S. Energy Security Council
2700 Virginia Ave. NW (Suite 901)
Washington, DC 20037
Tel: 202 [redacted]

[14] This email has been re-typed to protect its source.

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- This email concerned NSC staff since Mr. Eisenberg had previously directed all NSC employees, including Ms. McFarland and Mr. Harvey, to cease all work on the Middle East Marshall Plan.

- **March 7, 2017:**

  - NSC staff reported Mr. Harvey's continued work on the IP3 plan to Mr. Eisenberg and others in the NSC legal office.

  - NSC staff described the roles played by General Flynn, Mr. Harvey, and Ms. McFarland in advocating for the IP3 plan, which appeared to be designed to benefit General Flynn, his former business colleagues, and Mr. Barrack, in potential violation of the federal criminal conflict of interest statute and ethics rules.

  - NSC staff also provided Mr. Eisenberg with a copy of Mr. McFarlane's March 4 email urging Mr. Harvey to present the IP3 plan to the President.

  - Mr. Eisenberg promised to investigate these reports.

- **March 14, 2017:**

  - President Trump met with Saudi Deputy Crown Prince Mohammed bin Salman in the Oval Office along with Mr. Kushner. President Trump and Deputy Crown Prince Mohammed bin Salman reportedly "discussed opportunities for U.S. companies to invest in Saudi Arabia."[15]

  - Mr. Harvey summarized President Trump's March 14, 2017, meeting with Saudi Deputy Crown Prince Mohammed bin Salman in a draft public "read out" submitted to Senior Official 1 and NSC staff. The draft included references to "a new United States-Saudi program . . . in energy, industry, infrastructure, and technology worth potentially more than $200 billion in direct and indirect investments within the next four years." These references ultimately remained in the final public copy.[16]

  - Neither career NSC staff nor Senior Official 1 were familiar with the program, and Senior Official 1 stated to NSC staff: "What the hell is going on?"

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[15] *Saudi Deputy Crown Prince, Trump Meeting A "Turning Point": Saudi Adviser*, Reuters (Mar. 14, 2017) (online at www.reuters.com/article/us-saudi-usa-idUSKBN16L2CT).

[16] *Readout of the President's Meeting with Mohammed bin Salman Abdulaziz Al Saud, Deputy Crown Prince and Minister of Defense of the Kingdom of Saudi Arabia*, The White House (Mar. 15, 2017) (online at www.whitehouse.gov/briefings-statements/readout-presidents-meeting-mohammed-bin-salman-abdulaziz-al-saud-deputy-crown-prince-minister-defense-kingdom-saudi-arabia//).

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- **March 15, 2017:**

  - Deputy National Security Advisor McFarland held an internal meeting with staff, during which she raised the subject of the Middle East Marshall Plan.

  - Ms. McFarland stated that Mr. Barrack had done an "amazing job" managing President Trump's inaugural committee and raising donations for Mr. Trump. She noted that Mr. Barrack had longstanding and extensive business ties across the Middle East.

  - Ms. McFarland stated that President Trump told Mr. Barrack that he could lead implementation of the Middle East Marshall Plan. She explained that President Trump said Mr. Barrack could not be paid for his role.

  - Ms. McFarland disclosed that Mr. Barrack would be meeting with Mr. Harvey that day to discuss the Middle East Marshall Plan, and she told NSC staff: "You should all be meeting *with* Tom."

  - In light of the standing directive to halt all work on this plan, NSC staff subsequently reported this meeting to Mr. Eisenberg's office.

- **March 17, 2017:**

  - IP3 leaders Mr. McFarlane, General Keane, Rear Admiral Hewitt, and General Alexander signed a letter to Saudi Deputy Crown Prince Mohammed bin Salman stating: "The agreements by President Trump and Mohammed bin Salman have established the framework for our unique opportunity to take the next steps with IP3 and the Kingdom of Saudi Arabia." The letter also referenced a "partnership to acquire Westinghouse between IP3 and Saudi Arabia."[17]

- **March 21, 2017:**

  - Mr. Harvey had a conference call with Mr. Barrack to discuss the Middle East Marshall Plan.

  - Present for this call in Mr. Harvey's White House office was Rick Gates, President Trump's Deputy Campaign Manager and Deputy Inaugural Committee Chairman, whom Mr. Barrack hired to manage the Washington, D.C. office of Mr. Barrack's company, Colony NorthStar. Rick Gates has now pleaded guilty to financial fraud and lying to investigators, and he is reportedly cooperating with Special Counsel Robert Mueller's inquiry into Russian interference in the 2016 election.[18]

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[17] Letter from Keith Alexander, Jack Keane, Bud McFarlane, and Michael Hewitt, IP3, to Deputy Crown Prince Mohammed bin Salman (Mar. 17, 2017). This letter was emailed from Frances Fragos Townsend to National Security Council staff as part of a package on March 28, 2019.

[18] *Plea Agreement*, United States v. Gates (D.D.C. Feb. 23, 2018) (online at

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- Also present was a career NSC staffer who later informed colleagues that Mr. Harvey was again trying to promote the IP3 plan "so that Jared Kushner can present it to the President for approval."

- **March 22, 2017:**

  - NSC staff reported Mr. Harvey's March 21 conference call with Rick Gates and Tom Barrack about the Middle East Marshall Plan to Mr. Eisenberg.

  - Mr. Eisenberg asked, "Who is Rick Gates?" NSC staff responded by providing an article from the *Washington Post* describing Mr. Gates's connections with Paul Manafort and Russian oligarchs.

  - Separately, Mr. Harvey raised the Middle East Marshall Plan again during an interagency coordination meeting that day and emphasized that it was a top priority.

  - NSC staff again contacted the NSC Ethics Counsel to report Mr. Harvey's ongoing engagement with the Middle East Marshall Plan.

- **March 23, 2017:**

  - Energy Secretary Rick Perry raised the subject of the Middle East Marshall Plan during an interagency meeting relating to Saudi Arabia convened by NSC.

  - After the meeting, Mr. Harvey introduced himself to Secretary Perry and expressed interest in continuing the discussion about the Middle East Marshall Plan.

- **March 24, 2017:**

  - Multiple employees of NSC staff reported to Mr. Eisenberg their detailed concerns about gross mismanagement in the Middle East Directorate.

  - They reported in detail unethical and potentially illegal actions by General Flynn and Mr. Harvey to advance the Middle East Marshall Plan, as well as subsequent efforts by General Kellogg and Mr. Harvey to terminate NSC staff's employment following their protected disclosures about these actions.

- **March 24–25, 2017:**

  - That weekend, Mr. Harvey instructed NSC staff to add language about IP3's Middle East Marshall Plan—and specifically nuclear power plants—into talking points for President Trump's upcoming meeting with Egyptian President Abdel Fattah al-Sisi.

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www.justice.gov/file/1038801/download).

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- Mr. Harvey claimed that Mr. Eisenberg and Senior Official 1 had both approved adding the Middle East Marshall Plan language into the talking points.

- Mr. Eisenberg and Senior Official 1 subsequently informed NSC staff that they had not approved including the Middle East Marshall Plan language in the talking points.

- **March 27, 2017:**

  - General McMaster informed relevant NSC staff that he and Eisenberg agreed that nobody at the NSC should work on the Middle East Marshall Plan anymore. "John [Eisenberg] and I agree that this is done. Nobody should work on this anymore."

  - NSC staff noted Mr. Harvey's attempts over the previous weekend to insert references to the Marshall Plan and nuclear power plants into talking points for President Trump's upcoming meeting with the Egyptian President.

  - NSC staff further inquired about why Derek Harvey and others were still pursuing the IP3 Middle East Marshall Plan. Mr. Eisenberg was unable to provide an explanation.

- **March 28, 2017:**

  - Frances Fragos Townsend—the Homeland Security Advisor under President George W. Bush and a Director on IP3's Board—contacted White House Homeland Security Advisor Thomas Bossert about the Middle East Marshall Plan.

  - Ms. Townsend subsequently sent NSC staff several documents: (1) an overview of the Middle East Marshall Plan that appeared to be produced by IP3; (2) a document entitled "The Trump Middle East Marshall Plan (White Paper by Tom Barrack)" dated March 10, 2017; (3) the letter that IP3 leaders Mr. McFarlane, General Keane, Rear Admiral Hewitt, and General Alexander addressed to Saudi Deputy Crown Prince Mohammed bin Salman on March 17, 2017; and (4) the January 1, 2017, letter to Deputy Crown Prince Mohammed bin Salman signed by IP3 leaders General Alexander, General Keane, Bud McFarlane, and Rear Admiral Hewitt, as well as the chief executives of six companies: Exelon Corporation, Toshiba Energy, Bechtel Corporation, Centrus, GE Power, and Siemens USA.

  - Mr. Barrack's white paper stated: "The President will appoint a special representative for the Trump Middle East Marshall Plan with the diplomatic rank of ambassador or special advisor the President." It also stated that the Special Envoy should "coordinate and work hand-in-hand" with government officials, including Mr. Kushner. The white paper stated that the President should implement the Middle East Marshall Plan through an executive order. It described the Special Envoy as building "long-line relationships with U.S. private sector leaders acting as their expediter in clearing the traditional regional and regulatory hurdles to their participation" and "trusted relationships with top leaders of GCC countries, Israel, Egypt, Jordan, and Iraq."

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- Mr. Bossert directed NSC Nonproliferation Directorate staff to meet with Ms. Townsend. This email chain was forwarded to Mr. Eisenberg.

- **March 2017:**

  - Sometime in March, President Trump and his advisors reportedly told Israeli Prime Minister Benjamin Netanyahu that "if the U.S. does not sell the Saudis nuclear reactors, other countries like Russia or France will."[19]

- **April 3, 2017:**

  - Andrea Thompson—the Vice President's National Security Advisor—asked a staffer on Vice President Pence's national security team to meet with IP3 to discuss the Middle East Marshall Plan.

  - This outreach from IP3 to the Vice President's national security team was reported to Mr. Eisenberg.

[19] *Israel Presented U.S. with "Red Lines" for Saudi Nuclear Deal*, Axios (July 8, 2018) (online at www.axios.com/israel-united-states-red-lines-demands-saudi-arabia-nuclear-deal-d010de3e-69ad-4de1-bc5e-0387dd5b91dc.html).

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II. CONTINUED EFFORTS TO PROMOTE THE TRANSFER OF SENSITIVE NUCLEAR TECHNOLOGY TO SAUDI ARABIA

The whistleblowers described above provided detailed information and references to specific documents to corroborate their claims. However, their accounts are limited to the beginning of the Trump Administration, and many questions remain unanswered—including whether and how the Trump Administration is moving forward with these efforts today.

Recent press accounts indicate that the effort to provide Saudi Arabia with sensitive U.S. nuclear technology has shifted to Secretary Rick Perry at the Department of Energy, although the White House—and Mr. Kushner—allegedly remain directly involved. In fact, the President is reported to be directly engaged in the effort, maintaining contact with IP3 about the plans and expressing his support for the transfer of nuclear technology to Saudi Arabia. These reports also indicate that Saudi Arabia is refusing to agree to prohibitions on enriching uranium and processing plutonium similar to those agreed to by other countries in the region.

- In November 2017, it was reported that the Middle East Marshall Plan had "stirred back to life as the Saudi government kicked off a formal process to solicit bids for their first reactors." In the "days before Thanksgiving, senior U.S. officials from several agencies met at the White House to discuss the policy, according to current and former officials."[20]

- In December 2017, Secretary Perry led a delegation to Saudi Arabia to conduct talks on civil nuclear cooperation with Crown Prince Mohammed bin Salman and Saudi Energy Minister Khalid al-Falih.[21] It was reported: "During the meeting, they discussed the strategic partnership between the two countries in various fields, especially in energy, environment, industry and joint investments between the two countries, especially in the petrochemical, infrastructure and energy sectors."[22]

- In January 2018, Brookfield Business Partners, a subsidiary of Brookfield Asset Management, announced its plans to acquire Westinghouse Electric for $4.6 billion. Westinghouse Electric is the bankrupt nuclear services company that is part of IP3's proposed consortium to build nuclear reactors in Saudi Arabia, and which stands to benefit from the Middle East Marshall Plan.[23] In August 2018, Brookfield Asset Management purchased a partnership stake in 666 Fifth Avenue, a building owned by Jared Kushner's family company.[24]

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[20] *White House May Share Nuclear Power Technology with Saudi Arabia*, ProPublica (Nov. 29, 2017) (online at www.propublica.org/article/white-house-may-share-nuclear-power-technology-with-saudi-arabia).

[21] @SecretaryPerry, Twitter (Dec. 5, 2017) (online at https://twitter.com/secretaryperry/status/938021024339251202).

[22] *Saudi Crown Prince Meets with US Secretary of Energy Rick Perry*, Al Arabiya English (Dec. 4, 2017) (online at http://english.alarabiya.net/en/business/energy/2017/12/04/Saudi-crown-prince-meets-with-US-Secretary-of-Energy-Rick-Perry.html).

[23] *Brookfield Business Partners to buy Westinghouse for $4.6 Billion*, Reuters (Jan. 4, 2018) (online at www.reuters.com/article/us-westinghouse-m-a-brookfieldbusinesspa/brookfield-business-partners-to-buy-westinghouse-for-4-6-billion-idUSKBN1ET1MQ).

[24] *Deal Gives Kushners Cash Infusion on 666 Fifth Avenue*, New York Times (Aug. 3, 2018) (online at

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- On February 27, 2018, Goldman Sachs announced that former Deputy National Security Advisor Dina Powell, who had helped manage Jared Kushner's relationship with Saudi Crown Prince Mohammed bin Salman and plan President Trump's 2017 visit to Saudi Arabia, would be joining the Goldman Sachs' sovereign wealth group.[25] Goldman Sachs wrote in an internal memorandum that "Dina will focus on enhancing the firm's relationships with sovereign clients around the world."[26] Ms. Powell reportedly "is especially close to Saudi Arabia's Public Investment Fund and the country's ruling family."[27]

- In February 2018, it was reported: "The administration is considering permitting Saudi Arabia to enrich and reprocess uranium as part of a deal that would allow Westinghouse Electric Co. and other American companies to build nuclear reactors in the Middle East kingdom."[28]

- In March 2018, it was reported that the Saudi government was spending more than $450,000 over a one-month period to lobby the Trump administration to approve a sale of nuclear reactors to Saudi Arabia.[29]

- A Foreign Agent Registration Act form filed by one law firm hired by Saudi Arabia stated that it "will advise the Ministry of Energy, Industry, and Resources of the Kingdom of Saudi Arabia in connection with a potential bilateral agreement on cooperation with the United States concerning peaceful uses of nuclear energy under Section 123 of the Atomic Energy Act of 1954 and related legal matters concerning the development of a commercial nuclear program within Saudi Arabia."[30]

- A filing by a consultant retained by Saudi Arabia stated: "Those matters on which the registrant will provide legal and consulting services have come to include the Saudi National Atomic Energy Project." It also stated: "It is anticipated that registrant will participate in interaction with agencies and departments of the U.S. Government and members of Congress on behalf of the Ministry with respect to the Section 123 Agreement and related agreements in connection with the Kingdom's development of a

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www.nytimes.com/2018/08/03/nyregion/kushners-building-fifth-avenue-brookfield-lease.html).

[25] *Dina Powell, Influential Foreign Policy Adviser, Is Set to Exit White House,* New York Times (Dec. 8, 2017) (online at www.nytimes.com/2017/12/08/us/politics/dina-powell-trump-resign.html).

[26] *Dina Powell is Returning to Goldman Sachs,* Axios (Feb. 27, 2018) (online at www.axios.com/dina-powell-returning-to-goldman-sachs-b762eeeb-f9dd-4a5b-b5c0-5b6bc8aeb6d8.html).

[27] *Dina Powell Withdraws from U.N. Ambassador Consideration,* Wall Street Journal (Oct. 11, 2018) (online at www.wsj.com/articles/dina-powell-withdraws-from-u-n-ambassador-consideration-1539302582).

[28] *Perry Plans Nuclear-Energy Talks with Saudis, Sources Say,* Bloomberg (Feb. 26, 2018) (online at www.bloomberg.com/news/articles/2018-02-26/u-s-energy-chief-is-said-to-plan-nuclear-deal-talks-with-saudis).

[29] *Saudis Spending Up to $450K in Push for US Nuclear Sale*, The Hill (Mar. 8, 2018) (online at http://thehill.com/business-a-lobbying/lobbying-contracts/377507-saudis-spending-up-to-450k-in-push-for-us-nuclear).

[30] Foreign Agents Registration Act Registration for Pillsbury Winthrop Shaw Pittman, Department of Justice (Feb. 20, 2018) (online at www.fara.gov/docs/5198-Exhibit-AB-20180220-43.pdf).

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commercial nuclear program, and Congressional review of the Section 123 Agreement."[31]

- Also in March 2018, Crown Prince Mohammed bin Salman undertook a "last-minute visit to New York," where he housed his entourage at the Trump International Hotel in Manhattan for five days, a stay that reportedly "was enough to boost the hotel's revenue" by 13 percent "for the entire quarter."[32]

- At a hearing on May 9, 2018, before the Committee on Science, Space, and Technology, Secretary Perry stated that the goal of his civil-nuclear discussions with Saudi Arabia was to convince it to use Westinghouse to construct its reactors: "[W]e tried to really drive home to the crown prince … that if you want the best reactors in world, you have to come to the United States and you have to use Westinghouse."[33]

- In July 2018, it was reported that "Energy Secretary Rick Perry has been pushing officials in Saudi Arabia to hire American companies like Westinghouse to build nuclear power plants."[34]

- On September 26, 2018, the U.S. consortium to build nuclear reactors was reported to be on Saudi Arabia's "shortlist of potential partners competing to build nuclear-power plants in the kingdom." Secretary Perry reportedly informed reporters that "the kingdom recently made a decision that keeps U.S. businesses—foremost Westinghouse Electric Co.—in the mix for what could ultimately become a market worth tens of billions of dollars."[35]

- On October 2, 2018, journalist Jamal Khashoggi, a prominent critic of Crown Prince Mohammed bin Salman, was murdered at the Saudi consulate in Istanbul, Turkey. After days of denying any Saudi role in Mr. Khashoggi's killing, Saudi Arabia admitted that Mr. Khashoggi died in a "fistfight" inside the Saudi consulate, and that Saudi officials who killed Mr. Khashoggi were involved in a "cover-up" of Mr. Khashoggi's murder.[36]

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[31] Foreign Agents Registration Act Registration for Law Office of David B. Kultgen, PLLC, Department of Justice (Feb. 20, 2018) (online at www.fara.gov/docs/6527-Exhibit-AB-20180220-1.pdf).

[32] *At President Trump's Hotel in New York, Revenue Went Up This Spring—Thanks to a Visit from Big-Spending Saudis*, Washington Post (Aug. 3, 2018) (online at www.washingtonpost.com/politics/at-president-trumps-hotel-in-new-york-revenue-went-up-this-spring--thanks-to-a-visit-from-big-spending-saudis/2018/08/03/58755392-9112-11e8-bcd5-9d911c784c38_story.html).

[33] Committee on Science, Space, and Technology, *Hearing on the Budget Proposal for the Department of Energy for FY 2019*, 115th Cong. (May 9, 2018) (online at https://science.house.gov/legislation/hearings/overview-budget-proposal-department-energy-fiscal-year-2019).

[34] *Kushner's Firm Deepens Ties to Those with Business in Washington*, New York Times (July 11, 2018) (online at www.nytimes.com/2018/07/11/business/jared-kushner-business-washington.html).

[35] *U.S. Makes Shortlist for Saudi Nuclear-Plant Deal*, Wall Street Journal (Sept. 26, 2018) (online at www.wsj.com/articles/u-s-makes-shortlist-for-saudi-nuclear-plant-deal-1538006144).

[36] *Saudi Arabia Admits Khashoggi Killed but Claims He Died in "Fistfight,"* The Guardian (Oct. 20, 2018) (online at www.theguardian.com/world/2018/oct/19/jamal-khashoggi-dead-saudi-arabian-state-television-confirms).

AMERICAN OVERSIGHT

After significant public pressure, Treasury Secretary Steven Mnuchin and Mr. Barrack dropped out of the Future Investment Initiative summit in Saudi Arabia, at which they were scheduled to speak together on a panel.[37] In the ensuing uproar over Mr. Khashoggi's killing, Mr. Kushner has reportedly "offered the crown prince advice about how to weather the storm, urging him to resolve his conflicts around the region and avoid further embarrassments."[38]

- On December 20, 2018, it was reported that Secretary Perry led an interagency delegation to Riyadh weeks earlier to discuss a potential deal to share American nuclear power technology with Saudi Arabia. Secretary Perry reportedly told the Saudis that it would be important "to be perceived to be strong on non-proliferation."[39]

- On February 7, 2019, the White House announced that Mr. Kushner would be traveling to Saudi Arabia, the United Arab Emirates, Oman, Bahrain, and Qatar in late February in order to "share elements of the economic plan" of a U.S. peace proposal for the Middle East.[40]

- On February 8, 2019, the White House ignored a 120-day statutory deadline to submit a report to Congress regarding the murder of Mr. Khashoggi, which had been requested on a bipartisan basis by the Senate Foreign Relations Committee.[41]

- On February 12, 2019, Mr. Barrack stated of Mr. Khashoggi's murder, "whatever happened in Saudi Arabia, the atrocities in America are equal, or worse."[42] On February 13, 2019, Mr. Barrack released a statement calling the Khashoggi murder "atrocious" and "inexcusable," and apologizing for "not making this clear in my comments earlier this week." He added, "I feel strongly that the bad acts of a few should not be interpreted as the failure of an entire sovereign kingdom."[43]

---

[37] *Investor and Trump Friend Tom Barrack Not Going to Saudi Conference*, CNBC (Oct. 19, 2018) (online at www.cnbc.com/2018/10/19/investor-and-trump-friend-tom-barrack-not-going-to-saudi-conference.html).

[38] *The Wooing of Jared Kushner: How the Saudis Got a Friend in the White House*, New York Times (Dec. 8, 2018) (online at www.nytimes.com/2018/12/08/world/middleeast/saudi-mbs-jared-kushner.html).

[39] *What We Know About the Progress on Saudi-US Nuclear Deal Discussions*, Al Arabiya English (Dec. 20, 2018) (online at http://english.alarabiya.net/en/business/energy/2018/12/20/What-we-know-about-the-progress-on-Saudi-US-nuclear-deal-discussions-.html).

[40] *Trump Adviser Kushner to Visit Middle East on Peace Plan's Economic Part*, Reuters (Feb. 7, 2019) (online at www.reuters.com/article/us-usa-trump-mideast/trump-adviser-kushner-to-visit-middle-east-on-peace-plans-economic-part-idUSKCN1PW2RF).

[41] *Trump Defies Congressional Deadline on Khashoggi Report*, New York Times (Feb. 8, 2019) (online at www.nytimes.com/2019/02/08/us/politics/trump-khashoggi-congress.html).

[42] *Trump Pal Tom Barrack Defends Khashoggi Murder*, Talking Points Memo (Feb. 12, 2019) (online at https://talkingpointsmemo.com/news/trump-pal-tom-barrack-defends-khashoggi-murder).

[43] *Trump Confidant Thomas Barrack Apologizes for Saying U.S. Has Committed "Equal Or Worse" Atrocities to Killing Of Saudi Journalist Jamal Khashoggi*, Washington Post (Feb. 13, 2019) (online at www.washingtonpost.com/politics/in-wake-of-khashoggi-killing-trump-confidant-thomas-barrack-defends-saudi-arabia-says-us-has-committed-equal-or-worse-atrocities/2019/02/13/5ed0f5e4-2fb3-11e9-86ab-5d02109aeb01_story.html).

AMERICAN OVERSIGHT

- On February 12, 2019, it was reported that President Trump participated in a White House meeting with private nuclear power developers, "initiated by IP3 International." The meeting was reported to include discussions about U.S. efforts "to secure agreements to share U.S. nuclear technology with Middle East nations, including Jordan and Saudi Arabia." Participants reportedly included Rear Admiral Hewitt and General Keane from IP3, as well as representatives from Westinghouse, General Electric, Exelon, Nuscale, TerraPower, Lightbridge, AECOM, BWXT, Centrus Energy Corp., and X-energy.[44] President Trump was reportedly "supportive" of the executives' plans to sell nuclear technology to Saudi Arabia.[45]

- On February 12, 2019, it was reported that a White House official stated about the White House meeting with nuclear developers: "This is being led by General Keane. This is a group that he has put together; the president talks with him periodically."[46]

---

[44] *CEOs Ask Trump to Help Them Sell Nuclear Power Plants Abroad*, Bloomberg News (Feb. 13, 2019) (online at www.bloomberg.com/news/articles/2019-02-12/trump-said-to-meet-with-nuclear-developers-looking-globally).

[45] *U.S. Senate Proposal Would Block Saudi Path to Atomic Weapon in Nuclear Deal*, Reuters (Feb. 12, 2019) (online at www.reuters.com/article/uk-usa-nuclear-saudi/u-s-senate-proposal-would-block-saudi-path-to-atomic-weapon-in-nuclear-deal-idUKKCN1Q2002).

[46] *Trump to Huddle with U.S. Energy Executives to Discuss Nuclear Exports*, Axios (Feb. 12, 2019) (online at www.axios.com/trump-to-discuss-nuclear-power-saudi-arabia-4c44905c-e38f-4f4c-ae6f-1108566c42be.html).

AMERICAN OVERSIGHT

CONCLUSION

There is now serious, bipartisan concern with the Trump Administration's efforts to transfer sensitive U.S. nuclear technology to Saudi Arabia.

For example, on October 31, 2018, Republican Senators Marco Rubio, Todd Young, Cory Gardner, Rand Paul, and Dean Heller sent a letter to President Trump urging him to "suspend talks related to a potential civil nuclear cooperation agreement between the United States and Saudi Arabia" due to "serious concerns about the transparency, accountability, and judgment of current decisionmakers in Saudi Arabia." They explained:

> [W]e remain concerned that the Saudi Government has refused, for many years, to consider any agreement that includes so-called "Gold Standard" requirements against pursuing technologies to enrich uranium and reprocess plutonium-laden spent nuclear fuel.[47]

On February 12, 2019, Senators Ed Markey, Jeff Merkley, and Rand Paul introduced a bipartisan resolution requiring that any deal to share nuclear technology with Saudi Arabia block the Kingdom from creating a nuclear weapon.[48]

Despite these concerns, the White House appears to be proceeding. As recently as February 12, 2019, the President reportedly met with nuclear power developers at the White House to discuss sharing nuclear technology with Saudi Arabia.

Further investigation is needed to determine whether the actions being pursued by the Trump Administration are in the national security interest of the United States or, rather, serve those who stand to gain financially as a result of this potential change in U.S. foreign policy.

In order to obtain this information, today the Committee is sending requests for additional documents to the White House, the Departments of Commerce, Defense, Energy, State, and Treasury, the Joint Chiefs of Staff, the Central Intelligence Agency, and companies involved with this effort, including IP3, the Flynn Intel Group, ACU Strategies, and Colony NorthStar. The Committee is also seeking interviews with key personnel involved with promoting this plan to the White House.

---

[47] Letter from Senators Marco Rubio, Todd Young, Cory Gardner, Rand Paul, and Dean Heller to President Donald J. Trump (Oct. 31, 2018) (online at www.rubio.senate.gov/public/_cache/files/0559a194-b2d2-46c5-b75a-5fd4ed7ec35b/920279CC56197E202AEEA9EB460402F2.20181031-letter-to-potus-re-u.s.-saudi-civil-nuclear-cooperation-agreeme....pdf).

[48] *U.S. Senate Proposal Would Block Saudi Path to Atomic Weapon in Nuclear Deal*, Reuters (Feb. 12, 2019) (online at www.reuters.com/article/uk-usa-nuclear-saudi/u-s-senate-proposal-would-block-saudi-path-to-atomic-weapon-in-nuclear-deal-idUKKCN1Q2002).

AMERICAN OVERSIGHT

Stanton, Kimberly (CONTR)

From: Cunningham, Derrick
Sent: Tuesday, February 19, 2019 10:03 AM
To: Stanton, Kimberly (CONTR); Cunningham, Cindy; Standley, Erica
Subject: FW: Letter to the Honorable Rick Perry, Secretary, U.S. Department of Energy
Attachments: 2019-02-19.EEC to Perry-DOE re IP3.pdf; Appendix A.pdf; Trump Saudi Nuclear Report - 2-19-2019.pdf

For the system

From: Tuttle, Robert
Sent: Tuesday, February 19, 2019 10:01 AM
To: Cunningham, Derrick <Derrick.Cunningham@hq.doe.gov>
Cc: Bolton, Dwayne S. <Dwayne.Bolton@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Nartker, Michael <Michael.Nartker@hq.doe.gov>
Subject: FW: Letter to the Honorable Rick Perry, Secretary, U.S. Department of Energy

Derrick,

Please provide to EXEC for assignment to GC Oversight.

Robert L Tuttle
Office of Congressional & Intergovernmental Affairs
US Department of Energy - 7B-170

Direct: (202) 586-4298

From: Foster, Olivia [mailto:Olivia.Foster@mail.house.gov]
Sent: Tuesday, February 19, 2019 9:12 AM
To: Tuttle, Robert <Robert.Tuttle@hq.doe.gov>
Cc: Kim, Janet <Janet.Kim@mail.house.gov>; Waters, Laura <Laura.Waters@mail.house.gov>; ElisaLaNier <Elisa.LaNier@mail.house.gov>
Subject: [EXTERNAL] Letter to the Honorable Rick Perry, Secretary, U.S. Department of Energy

Hello—

Please see the letter attached from Chairman Elijah. E. Cummings, House Committee on Oversight and Reform, to the Honorable Rick Perry, Secretary, U.S. Department of Energy. Please acknowledge receipt of letter.

Sincerely,

Olivia

--

Olivia Foster
Executive Assistant
House Committee on Oversight and Reform – Chairman Elijah E. Cummings
2157 Rayburn House Office Building

AMERICAN OVERSIGHT

(202) 225-5051

****

This message does not originate from a known Department of Energy email system.
Use caution if this message contains attachments, links or requests for information.

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From: Reilly, Thomas
To: Fellow, Laura
Subject: NNSA Equity
Date: Tuesday, June 20, 2017 5:33:06 PM
Attachments: NNSA Equity

FYI. Dave came to talk about another issue and I raised this with him. He's happy to have us join. He had the ticket largely because most of the issues raised at the board level are organizational, appropriations or personnel related.

(b) (5)

(b) (5)

Tom

From: Krentel, David
Sent: Tuesday, June 20, 2017 5:12 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: NNSA Equity

Tom –

This was the last monthly report. There are also reports from at least some of the individual offices abroad (b) (6) The third attachment above provides a good example of the types of things that come through OPAB. You can contact Laura Smiley to be invited to the next meeting, which are generally quarterly.

Thanks!

DK

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NNSA Equity

From: Reilly, Thomas
Sent: Tuesday, October 24, 2017 1:04 PM
To: Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>
Subject: NNSA Equity

Thanks - I should've checked first! Apologies.

Thanks though.

Tom

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

From: Reilly, Thomas
Sent: Tuesday, October 24, 2017 1:02 PM
To: Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>
Subject: NNSA Equity

Thanks Jose – do you happen to have the 2014 request?

Thanks.

Tom

NNSA Equity

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From: Markus, Stephen
To: Reilly, Thomas
Subject: NNSA Equity
Date: Thursday, October 26, 2017 12:23:56 PM
Attachments: (b) (5)

Hi Tom,

Attached are my initial comments on the draft analysis. (b) (5)

(b) (5)

Please let me know if you have any questions.

Thanks,
Stephen

From: Reilly, Thomas
Sent: Thursday, October 26, 2017 10:47 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Subject: NNSA Equity

Thanks!

Tom

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

NNSA Equity

From: Reilly, Thomas
Sent: Thursday, October 26, 2017 12:30 PM
To: Figueroa, Jose <Jose.Figueroa@nnsa.doe.gov>
Subject: NNSA Equity

Hi Jose,

Thanks again for sending our way. Please see attached comments on the analysis. Call with any questions.

Tom

NNSA Equity

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From: Fellow, Laura
To: Reilly, Thomas
Subject: RE: NNSA Equity
Date: Tuesday, February 6, 2018 12:03:53 PM
Attachments: (b) (5)

Tom,

Comments/edits attached for your consideration.

Laura

From: Reilly, Thomas
Sent: Friday, February 02, 2018 11:03 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: NNSA Equity

Hi Laura,

Would you be able to take this on, given the tight deadline? Thanks.

Tom

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From: Reilly, Thomas
To: Figueroa, Jose; Fellow, Laura
Subject: NNSA Equity
Date: Tuesday, February 6, 2018 12:10:40 PM
Attachments: (b) (5)

Thanks Jose.

Please see attached for our comments/changes.

Please call or email if there are any questions/concerns. Thanks.

Tom

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From: Fellow, Laura
To: Reilly, Thomas
Subject: RE: NNSA Equity
Date: Tuesday, April 10, 2018 2:04:16 PM
Attachments: (b) (5)

Tom,

Proposed edits attached.

Laura

From: Reilly, Thomas
Sent: Tuesday, April 10, 2018 11:35 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: NNSA Equity

Of course! Thanks!

From: Fellow, Laura
Sent: Tuesday, April 10, 2018 10:06 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: NNSA Equity

Can I get back to you at the end of the day? I think I should have the bandwidth to get through it today. If not, I can let you know with enough time for reasonable redistribution.

From: Reilly, Thomas
Sent: Tuesday, April 10, 2018 10:05 AM
To: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: NNSA Equity

Hi Laura,

Do you want this one or would you like me to redistribute? Thanks.

Tom

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From: Fellow, Laura
To: Reilly, Thomas
Subject: NNSA Equity
Date: Thursday, April 12, 2018 9:23:11 AM
Attachments: (b) (5)

Tom,

A few edits attached. (b) (5)

Laura

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From: GC Concurrence Actions
To: Figueroa, Jose; Skipper, Janna (CONTR); Strangis, Katie; Tucker, Shirley (CONTR); Malone, Deangelo (CONTR); Sellen, Joanna (CONTR); Sergent, Michael G. (LAB); Stern, Zachary; Postman, Max; Part810
Cc: GC Concurrence Actions; Reilly, Thomas; Fellow, Laura
Subject: FW: NNSA Equity
Date: Friday, April 13, 2018 5:13:43 PM
Attachments: NNSA Equity

(b) (5)

Jose,

On behalf of the Office of The General Counsel, (b) (5)
(b) (5)

Thanks,
Therese
****
M. Therese Keokuk
X6-5281

From: Lucas, John T.
Sent: Friday, April 13, 2018 5:03 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: NNSA Equity

(b) (5)

From: GC Concurrence Actions
Sent: Thursday, April 12, 2018 4:49 PM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: NNSA Equity

(b) (5) (b) (5)

AMERICAN OVERSIGHT

(b) (5)

Please advise.

Thanks,
Therese

From: Brown, Michael
Sent: Thursday, April 12, 2018 3:34 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: NNSA Equity

(b) (5)

From: GC Concurrence Actions
Sent: Wednesday, April 11, 2018 5:42 PM
To: Brown, Michael <Michael.Brown@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: NNSA Equity

(b) (5) (b) (5)

Please advise.

Thanks,
Therese

From: Reilly, Thomas
Sent: Wednesday, April 11, 2018 4:43 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Cc: Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>
Subject: NNSA Equity

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From: GC Concurrence Actions
To: Figueroa, Jose; Skipper, Janna (CONTR); Strangis, Katie; Tucker, Shirley (CONTR); Malone, Deangelo (CONTR); Sellen, Joanna (CONTR); Sergent, Michael G. (LAB); Stern, Zachary; Postman, Max; Part810
Cc: GC Concurrence Actions; Reilly, Thomas; Fellow, Laura
Subject: FW: NNSA Equity
Date: Friday, April 13, 2018 5:17:24 PM
Attachments: NNSA Equity

(b) (5)

Hi Jose,

(b) (5)

Thanks,
Therese
****
M. Therese Keokuk
X6-5281

From: Lucas, John T.
Sent: Friday, April 13, 2018 5:07 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: NNSA Equity

I defer to Michael.

From: GC Concurrence Actions
Sent: Friday, April 13, 2018 5:04 PM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: NNSA Equity

(b) (5) (b) (5)

Thanks,
Therese

AMERICAN OVERSIGHT

From: Brown, Michael
Sent: Friday, April 13, 2018 4:50 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: NNSA Equity

(b) (5)

From: GC Concurrence Actions
Sent: Friday, April 13, 2018 4:02 PM
To: Brown, Michael <Michael.Brown@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: NNSA Equity

(b) (5)

Thanks,
Therese

From: Reilly, Thomas
Sent: Friday, April 13, 2018 3:48 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: NNSA Equity

Hi Therese,

(b) (5)

Thanks.

Tom

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From: GC Concurrence Actions
To: Francis, Maria; Swinson, Wanda; Sweetnam, Glen; Buchan, Samuel
Cc: GC Concurrence Actions; Reilly, Thomas; Grant, William; Beard, Susan; Hymer, Christina
Subject: FW: ****IMMEDIATE ATTENTION**** FW: (b) (5)
Date: Friday, April 20, 2018 4:51:35 PM
Attachments: (b) (5)

Importance: High

IA,

On behalf of the Office of The General Counsel, (b) (5)

Thank you,
Therese
****
M. Therese Keokuk
X6-5281

From: Lucas, John T.
Sent: Friday, April 20, 2018 4:48 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: ****IMMEDIATE ATTENTION**** FW: (b) (5)
Importance: High

(b) (5)

From: GC Concurrence Actions
Sent: Friday, April 20, 2018 4:38 PM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: ****IMMEDIATE ATTENTION**** FW: (b) (5)
Importance: High

(b) (5)

Therese

From: Brown, Michael

AMERICAN OVERSIGHT

Sent: Friday, April 20, 2018 4:37 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: ****IMMEDIATE ATTENTION**** FW: (b) (5)

(b) (5)

From: GC Concurrence Actions
Sent: Friday, April 20, 2018 4:36 PM
To: Brown, Michael <Michael.Brown@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: ****IMMEDIATE ATTENTION**** FW: (b) (5)
Importance: High

(b) (5)

Therese

From: Reilly, Thomas
Sent: Friday, April 20, 2018 4:17 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Beard, Susan <Susan.Beard@hq.doe.gov>; Grant, William <William.Grant@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>
Subject: FW: ****IMMEDIATE ATTENTION**** FW: (b) (5)
Importance: High

Hi Therese,

(b) (5)

I have coordinated with GC 56 on edits to the letter.

Thanks.

Tom

From: GC Concurrence Actions
Sent: Friday, April 20, 2018 4:00 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Beard, Susan <Susan.Beard@hq.doe.gov>; Grant, William <William.Grant@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>

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Subject: ****IMMEDIATE ATTENTION**** FW: (b) (5)
Importance: High

Here's the complete package with the Action Memo now included. Please review and advise.

Thanks,
Therese

From: Francis, Maria
Sent: Friday, April 20, 2018 3:52 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Cc: Swinson, Wanda <Wanda.Swinson@hq.doe.gov>; Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>
Subject: (b) (5)
Importance: High

Action memo attached. Thank you!

From: Francis, Maria
Sent: Friday, April 20, 2018 2:38 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Cc: Swinson, Wanda <Wanda.Swinson@hq.doe.gov>; Sweetnam, Glen <Glen.Sweetnam@Hq.Doe.Gov>
Subject: (b) (5)
Importance: High

Hi GC Concurrence,

For your **URGENT** review and concurrence. The action memo will follow.

Thank you,
Maria Y. Francis/IA-1

-----Original Message-----
From: Swinson, Wanda
Sent: Friday, April 20, 2018 2:13 PM
To: Francis, Maria <Maria.Francis@hq.doe.gov>
Cc: Cooper, Victoria (CONTR) <Victoria.Cooper@hq.doe.gov>
Subject: (b) (5)

(b) (5) before
4pm TODAY.

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-----Original Message-----
From: Sweetnam, Glen
Sent: Friday, April 20, 2018 1:01 PM
To: Garrish, Theodore <Theodore.Garrish@hq.doe.gov>; Griffith, Wells <Wells.Griffith@hq.doe.gov>
Cc: Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Swinson, Wanda <Wanda.Swinson@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: (b) (5)

Ted,

This version includes Wells' edits.

Glen

-----Original Message-----
From: Sweetnam, Glen
Sent: Friday, April 20, 2018 12:45 PM
To: Garrish, Theodore <Theodore.Garrish@hq.doe.gov>; Wells Griffith (Wells.Griffith@hq.doe.gov) <Wells.Griffith@hq.doe.gov>
Cc: Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Swinson, Wanda <Wanda.Swinson@hq.doe.gov>; Edward McGinnis (Edward.McGinnis@Nuclear.Energy.Gov) <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: (b) (5)

Ted, Wells,

Ed has signed off on this letter. I am also copying Andrea, who has not yet had a chance to review this letter.

I have not sent this to GC for concurrence yet.

Glen

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(b) (5)

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(b) (5)

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From: Fellow, Laura
To: Reilly, Thomas
Subject: RE: First draft of a paper
Date: Monday, May 7, 2018 3:35:19 PM
Attachments: Draft 1.docx

With the attachment

-----Original Message-----
From: Fellow, Laura
Sent: Monday, May 07, 2018 3:33 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: First draft of a paper

Tom,

(b) (5)

(b) (6)

Feel free to give me a call after 4 pm (so I'm not talking on the road) - (b) (6)

Laura

Laura Fellow
Attorney-Advisor
Office of the General Counsel
Office for International and National Security Programs
U.S. Department of Energy
1000 Independence Ave. SW
Washington, D.C. 20585
Laura fellow@hq.doe.gov
(202) 586-9538

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(b) (5)

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NNSA Equity

From: Fellow, Laura
Sent: Tuesday, August 14, 2018 9:20 AM
To: Postman, Max <Max.Postman@NNSA.DOE.Gov>
Subject: NNSA Equity

Max,

Sorry to ask this of you, but is there any chance you have the e-docs package numbers for the last 4? (b) (6) In order to get an accurate update from our front office, I'll need the package numbers to run up to the front office.

Thanks,

Laura

NNSA Equity

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NNSA Equity

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From: GC Concurrence Actions
To: DL-OSE Collaborative Action Process
Cc: GC Concurrence Actions; Reilly, Thomas
Subject: FW: Notification to the Room: EXEC-2018-005246 - Due Date: 8/20/2018 5:00:00 PM
Date: Friday, August 17, 2018 3:11:32 PM
Attachments: (b) (5)

EXEC-2018-005246_folder profile.pdf

ES,

On behalf of the Office of The General Counsel, (b) (5)

Thanks,
Therese
****
M. Therese Keokuk
X6-5281

From: Brown, Michael
Sent: Friday, August 17, 2018 2:23 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: RE: MICHAEL: PLEASE REVIEW -- FW: Notification to the Room: EXEC-2018-005246 - Due Date: 8/20/2018 5:00:00 PM

(b) (5)

From: GC Concurrence Actions
Sent: Friday, August 17, 2018 10:51 AM
To: Brown, Michael <Michael.Brown@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: MICHAEL: PLEASE REVIEW -- FW: Notification to the Room: EXEC-2018-005246 - Due Date: 8/20/2018 5:00:00 PM

(b) (5)

Thanks,
Therese

From: Reilly, Thomas
Sent: Friday, August 17, 2018 9:37 AM

AMERICAN OVERSIGHT

To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: Notification to the Room: EXEC-2018-005246 - Due Date: 8/20/2018 5:00:00 PM

Thanks Therese.

(b) (5)

Tom

From: GC Concurrence Actions
Sent: Thursday, August 16, 2018 6:22 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: Notification to the Room: EXEC-2018-005246 - Due Date: 8/20/2018 5:00:00 PM

For your review and concurrence.

Therese

From: America.Bowie@hq.doe.gov [mailto:America.Bowie@hq.doe.gov]
Sent: Thursday, August 16, 2018 6:05 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Dorman, Jeffrey <Jeffrey.Dorman@hq.doe.gov>; Coleman, Teona S. (CONTR) <Teona.Coleman@hq.doe.gov>; Herron, Vernon <Vernon.Herron@hq.doe.gov>; Thompson, Heather (CONTR) <Heather.Thompson@nnsa.doe.gov>; Tullis, Cathy <Cathy.Tullis@nnsa.doe.gov>; Cole, Frances <Frances.Cole@hq.doe.gov>; Wade, Yvonne (CONTR) <Yvonne.Wade@hq.doe.gov>; Simms, Almeta (CONTR) <Almeta.Simms@nnsa.doe.gov>; Sanders, Renee A. (CONTR) <Renee.Sanders@nnsa.doe.gov>; Dinardo, Katherine (CONTR) <Katherine.Dinardo@NNSA.Doe.Gov>; Mccuen, Anna <Anna.Mccuen@NNSA.DOE.Gov>; Coleman, Devon (CONTR) <Devon.Coleman@NNSA.Doe.Gov>; Hill, Rosmary <Rosmary.Hill@nnsa.doe.gov>; Smith-Starks, Brendell <Brendell.Smith-Starks@nnsa.doe.gov>; Imbert, Adam (CONTR) <Adam.Imbert@Hq.Doe.Gov>; Simms, Almeta (CONTR) <Almeta.Simms@nnsa.doe.gov>; Sanders, Renee A. (CONTR) <Renee.Sanders@nnsa.doe.gov>; Smith-Starks, Brendell <Brendell.Smith-Starks@nnsa.doe.gov>; Cole, Frances <Frances.Cole@hq.doe.gov>; Thompson, Heather (CONTR) <Heather.Thompson@nnsa.doe.gov>; Wade, Yvonne (CONTR) <Yvonne.Wade@hq.doe.gov>; Jenkins, Alencia (CONTR) <Alencia.Jenkins@Nuclear.Energy.Gov>; Pellegrino, Stephen <Stephen.Pellegrino@Nuclear.Energy.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Honaker, Sarah (CONTR) <Sarah.Honaker@nuclear.energy.gov>
Cc: Watkins, Antionette <Antionette.Watkins@hq.doe.gov>; Casey, Teresa (CONTR) <Teresa.Casey@Hq.Doe.Gov>; Bowie, America <America.Bowie@hq.doe.gov>; Bowie, America <America.Bowie@hq.doe.gov>; Fuller, Tanisha <Tanisha.Fuller@hq.doe.gov>; Pitcher, Lisa <Lisa.Pitcher@hq.doe.gov>; Cunningham, Cindy <Cindy.Cunningham@hq.doe.gov>; Watkins, Antionette <Antionette.Watkins@hq.doe.gov>; Vindel, Gloria <Gloria.Vindel@hq.doe.gov>; Coogan,

AMERICAN OVERSIGHT

Michael <Michael.Coogan@Hq.Doe.Gov>; Johnsen, Steven (MA) <Steven.Johnsen@hq.doe.gov>; Blake-Kennerly, Shena <Shena.Kennerly@hq.doe.gov>; Smith, Wayne D <Wayne.Smith@hq.doe.gov>
Subject: Notification to the Room: EXEC-2018-005246

Room Instructions: Your review is requested for the Collaborative Action Process. Please send your comments to the Executive Secretariat by no later than COB, MONDAY, August 20, 2018. To request an extension of the deadline, please contact ES immediately.

Title: President of King Abdullah City for Atomic and Renewable Energy (K.A.CARE)
Subject: Whether to sign a letter to K.A.CARE?s new President, Dr. Khalid Al-Sultan, congratulating him on his new position and expressing support for Westinghouse as a contractor in Saudi Arabia?s civil nuclear sector development.
Drafted By: IA
Signature Level: Rick Perry
Room Due Date: **8/20/2018 5:00:00 PM**

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U.S. Department of Energy

The Electronic Document Online Correspondence and Collaboration System (eDOCS)

Folder Profile Report

Title: President of King Abdullah City for Atomic and Renewable Energy (K.A.CARE)

Subject: Whether to sign a letter to K.A.CARE's new President, Dr. Khalid Al-Sultan, congratulating him on his new position and expressing support for Westinghouse as a contractor in Saudi Arabia's civil nuclear sector development.

Control: EXEC-2018-005246

Assigned To:	IA / Ted Garrish	Created Date:	08/16/2018
Signature Level:	Rick Perry	Correspondence Date:	08/16/2018
Addressee Office:	Rick Perry	Received Date:	08/16/2018
Action Requested:	Approval/Signature	Completed Date:	[no date provided]
Priority:	High	PO Due Date:	[no date provided]
Entered By:	Francis, Maria	Due Date:	08/21/2018
Point of Contact:		Elapsed Time:	0 days
Program Contact:	Glen Sweetnam/IA-22 6-9250	Status:	open
External Assign To:		Source:	AM
Prog Office Number:		Contact Type:	
Sensitivity:	None	Topic:	
Event Trigger:	Memo	Reference:	

Special Instructions: URGENCY: Urgent – other countries competing for nuclear contracts in Saudi Arabia have already sent letters to Dr. Al-Sultan. 8/21/18

Case History (All updates and comments):

08/16/2018 12:54PM - [Case Import] from Francis, Maria to Francis, Maria — finished
Accepted by Francis, Maria on 08/16/2018 12:57PM
** Note from Francis, Maria on 8/16/2018 2:35PM
8/16: Action Memo from A/S Garrish to the Secretary
08/16/2018 2:37PM - [PA Review] from Francis, Maria to edocs_execsec_pa5 — dormant
Waiting for edocs_execsec_pa5 to accept.
** Note from Vindel, Gloria on 8/16/2018 3:19PM
08/16 Received in ES for processing
08/16 to ES/Vindel for CAP review due by COB 08/20; possible reviewers NE, NNSA, PA, and GC
08/16 to ES/Bowie for review
** Note from Bowie, America on 8/16/2018 6:01PM
08/16 Received in ES for processing
08/16 to ES/Vindel for CAP review due by COB 08/20; possible reviewers NE, NNSA, PA, and GC
08/16 to ES/Bowie for review; approved for CAP to GC, NE, NNSA, and PA w/CAP due date of 8/20/18
** Note from Bowie, America on 8/16/2018 6:01PM
08/16 to GC, NE, NNSA and PA for review; CAP due date: COB 08/20/18

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From: Williams, JoAnn
To: (b) (6)
Subject: FW: Letter to the Honorable Rick Perry, Secretary, U.S. Department of Energy
Date: Tuesday, February 19, 2019 4:48:06 PM
Attachments: 2019-02-19.EEC to Perry-DOE re IP3.pdf
Appendix A.pdf
Trump Saudi Nuclear Report - 2-19-2019.pdf
image002.png

From: Pak, Christina <Christina.Pak@hq.doe.gov>
Date: Tuesday, Feb 19, 2019, 3:00 PM
To: Williams, JoAnn <JoAnn.Williams@hq.doe.gov>
Subject: FW: Letter to the Honorable Rick Perry, Secretary, U.S. Department of Energy

Hi Jo Ann,

Do you know anything about this? Also, are you available on Thursday to meet with Mr. Fygi and litigation on this? Kristin is trying to get on Mr. Fygi's calendar, so I told her one of us will try to make the meeting.

Thanks,
Christina

From: Koernig, Kristin
Sent: Tuesday, February 19, 2019 12:29 PM
To: Pak, Christina <Christina.Pak@hq.doe.gov>
Subject: FW: Letter to the Honorable Rick Perry, Secretary, U.S. Department of Energy

Hi Christina,

I sent the below email to Tom but got an out of the office reply. I am not sure if he will be out the entire week, but if so I just wanted to make you aware of the incoming and to check your availability for a meeting with Mr. Fygi on Thursday morning.

Thanks,

Kristin

From: Koernig, Kristin
Sent: Tuesday, February 19, 2019 12:26 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Beard, Susan <Susan.Beard@hq.doe.gov>
Subject: FW: Letter to the Honorable Rick Perry, Secretary, U.S. Department of Energy

AMERICAN OVERSIGHT

Hi Tom and Susan,

Please see the attached letter from the House Oversight Committee seeking information regarding proposed plans to promote nuclear power plants in the Middle East and the Administration allegedly ignoring the advice of ethics advisors. Mr. Fygi wanted me to make you aware of the incoming and to check your availability (or the availability of anyone you would designate for your office) for a meeting to discuss the incoming either tomorrow or Thursday. Due to the snow projected for tomorrow, maybe Thursday would be best? Please let me know if you or your designees have any availability Thursday morning.

Thanks,

Kristin

From: Tuttle, Robert <Robert.Tuttle@hq.doe.gov>
Date: Tuesday, Feb 19, 2019, 10:01 AM
To: Cunningham, Derrick <Derrick.Cunningham@hq.doe.gov>
Cc: Bolton, Dwayne S. <Dwayne.Bolton@hq.doe.gov>, Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>, Nartker, Michael <Michael.Nartker@hq.doe.gov>
Subject: FW: Letter to the Honorable Rick Perry, Secretary, U.S. Department of Energy

Derrick,

Please provide to EXEC for assignment to GC Oversight.

Robert L Tuttle
Office of Congressional & Intergovernmental Affairs
US Department of Energy - 7B-170
Direct: (202) 586-4298

From: Foster, Olivia [mailto:Olivia.Foster@mail.house.gov]
Sent: Tuesday, February 19, 2019 9:12 AM
To: Tuttle, Robert <Robert.Tuttle@hq.doe.gov>
Cc: Kim, Janet <Janet.Kim@mail.house.gov>; Waters, Laura <Laura.Waters@mail.house.gov>; ElisaLaNier <Elisa.LaNier@mail.house.gov>
Subject: [EXTERNAL] Letter to the Honorable Rick Perry, Secretary, U.S. Department of Energy

Hello—

Please see the letter attached from Chairman Elijah. E. Cummings, House Committee on Oversight and Reform, to the Honorable Rick Perry, Secretary, U.S. Department of Energy. Please acknowledge receipt of letter.

Sincerely,

AMERICAN OVERSIGHT

Olivia

--

Olivia Foster
Executive Assistant
House Committee on Oversight and Reform – Chairman Elijah E. Cummings
2157 Rayburn House Office Building
(202) 225-5051

****
This message does not originate from a known Department of Energy email system.
Use caution if this message contains attachments, links or requests for information.
****

AMERICAN OVERSIGHT

ELIJAH E. CUMMINGS, MARYLAND
CHAIRMAN

ONE HUNDRED SIXTEENTH CONGRESS

JIM JORDAN, OHIO
RANKING MINORITY MEMBER

Congress of the United States

House of Representatives

COMMITTEE ON OVERSIGHT AND REFORM

2157 RAYBURN HOUSE OFFICE BUILDING

WASHINGTON, DC 20515–6143

MAJORITY (202) 225–5051
MINORITY (202) 225–5074

http://oversight.house.gov

February 19, 2019

The Honorable Rick Perry
Secretary
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585

Dear Secretary Perry:

The Committee is investigating credible information from multiple whistleblowers warning about efforts inside the White House to rush the transfer of highly sensitive U.S. nuclear technology to Saudi Arabia.[1]

The whistleblowers who came forward have warned of conflicts of interest among top White House advisers that could implicate federal criminal statutes. They have also warned about a working environment inside the White House marked by chaos, dysfunction, and backbiting. And they have warned about political appointees ignoring directives from top ethics advisors at the White House who repeatedly and unsuccessfully ordered senior Trump Administration officials to halt their efforts.

Specifically, according to whistleblowers, career staff warned that any transfer of nuclear technology must comply with the Atomic Energy Act, that the United States and Saudi Arabia would need to reach a 123 Agreement, and that these legal requirements could not be circumvented. Trump Administration officials reportedly ignored these warnings and insisted that the decision to transfer nuclear technology to Saudi Arabia had already been made.

Recent reports indicate that the White House appears to still be considering this plan.[2] As recently as February 12, 2019, it was reported that President Trump participated in a White House meeting "initiated by IP3 International." The meeting reportedly included discussions about U.S. efforts "to secure agreements to share U.S. nuclear technology with Middle East

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[1] Committee on Oversight and Reform, *Interim Staff Report: Whistleblowers Raise Grave Concerns with Trump Administration's Efforts to Transfer Sensitive Nuclear Technology to Saudi Arabia* (Feb. 2019).

[2] *Investor and Trump Friend Tom Barrack Not Going to Saudi Conference*, CNBC (Oct. 19, 2018) (online at www.cnbc.com/2018/10/19/investor-and-trump-friend-tom-barrack-not-going-to-saudi-conference.html).

AMERICAN OVERSIGHT

nations," including Saudi Arabia.[3] President Trump was reportedly "supportive" of plans to transfer nuclear technology to Saudi Arabia.[4]

For these reasons, the Committee requests that you produce the following documents by March 5, 2019, covering the period from November 8, 2016, to the present:

1. All documents and communications referring or relating to any actual or potential plan to construct, operate, staff, secure, support, facilitate, or promote nuclear power plants in any country in the Middle East, including but not limited to documents and communications referring or relating to plans, requests, efforts, or attempts by ACU, Thomas Barrack, Colony NorthStar, Michael Flynn, Flynn Intel Group, or IP3, or their agents to communicate with:

    a. then-candidate or now-President Donald Trump;

    b. any official within the Executive Office of the President;

    c. any official within the Trump Administration, including but not limited to the Departments of Energy, State, and Defense;

    d. any official or unofficial advisors to the Trump Transition Team; and

    e. any official or unofficial advisors to the Inaugural Committee;

2. All documents and communications referring or relating to proposed or actual contacts with White House officials, foreign business entities, foreign government officials, or foreign nationals regarding any actual or proposed plan to construct, operate, staff, secure, support, facilitate, or promote nuclear power plants in any country in the Middle East; and

3. All documents and communications referring or relating to ACU, Thomas Barrack, Colony NorthStar, Michael Flynn, Flynn Intel Group, Rick Gates, IP3, Westinghouse, or their principals or agents.

In addition to these documents, the Committee requests a briefing about the Department's contacts with the individuals and entities identified above; the Department's role in promoting the transfer of nuclear technology to Saudi Arabia and other Gulf nations; and the status of any proposed plan to transfer nuclear technology to Saudi Arabia or other Gulf nations. Please contact the Committee by February 22, 2019, to schedule the briefing.

---

[3] *CEOs Ask Trump to Help Them Sell Nuclear Power Plants Abroad*, Bloomberg News (Feb. 12, 2019) (online at www.bloomberg.com/news/articles/2019-02-12/trump-said-to-meet-with-nuclear-developers-looking-globally).

[4] *U.S. Senate Proposal Would Block Saudi Path to Atomic Weapon in Nuclear Deal*, Reuters (Feb. 12, 2019) (online at www.reuters.com/article/uk-usa-nuclear-saudi/u-s-senate-proposal-would-block-saudi-path-to-atomic-weapon-in-nuclear-deal-idUKKCN1Q2002).

AMERICAN OVERSIGHT

The Committee on Oversight and Reform is the principal oversight committee of the House of Representatives and has broad authority to investigate "any matter" at "any time" under House Rule X. In addition, House Rule X states that the Committee on Oversight and Reform has jurisdiction to "study on a continuing basis the operation of Government activities at all levels, including the Executive Office of the President."

An attachment to this letter provides additional instructions for responding to the Committee's request. If you have any questions regarding this request, please contact Committee staff at (202) 225-5051.

Thank you for your attention to this matter.

Sincerely,

Elijah E. Cummings
Chairman

Enclosure

cc: The Honorable Jim Jordan, Ranking Member

AMERICAN OVERSIGHT

Responding to Oversight Committee Document Requests

1. In complying with this request, produce all responsive documents that are in your possession, custody, or control, whether held by you or your past or present agents, employees, and representatives acting on your behalf. Produce all documents that you have a legal right to obtain, that you have a right to copy, or to which you have access, as well as documents that you have placed in the temporary possession, custody, or control of any third party.

2. Requested documents, and all documents reasonably related to the requested documents, should not be destroyed, altered, removed, transferred, or otherwise made inaccessible to the Committee.

3. In the event that any entity, organization, or individual denoted in this request is or has been known by any name other than that herein denoted, the request shall be read also to include that alternative identification.

4. The Committee's preference is to receive documents in electronic form (i.e., CD, memory stick, thumb drive, or secure file transfer) in lieu of paper productions.

5. Documents produced in electronic format should be organized, identified, and indexed electronically.

6. Electronic document productions should be prepared according to the following standards:

   a. The production should consist of single page Tagged Image File ("TIF"), files accompanied by a Concordance-format load file, an Opticon reference file, and a file defining the fields and character lengths of the load file.

   b. Document numbers in the load file should match document Bates numbers and TIF file names.

   c. If the production is completed through a series of multiple partial productions, field names and file order in all load files should match.

   d. All electronic documents produced to the Committee should include the following fields of metadata specific to each document, and no modifications should be made to the original metadata:

      BEGDOC, ENDDOC, TEXT, BEGATTACH, ENDATTACH, PAGECOUNT, CUSTODIAN, RECORDTYPE, DATE, TIME, SENTDATE, SENTTIME, BEGINDATE, BEGINTIME, ENDDATE, ENDTIME, AUTHOR, FROM, CC, TO, BCC, SUBJECT, TITLE, FILENAME, FILEEXT, FILESIZE, DATECREATED, TIMECREATED, DATELASTMOD, TIMELASTMOD,

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INTMSGID, INTMSGHEADER, NATIVELINK, INTFILPATH, EXCEPTION, BEGATTACH.

7. Documents produced to the Committee should include an index describing the contents of the production. To the extent more than one CD, hard drive, memory stick, thumb drive, zip file, box, or folder is produced, each should contain an index describing its contents.

8. Documents produced in response to this request shall be produced together with copies of file labels, dividers, or identifying markers with which they were associated when the request was served.

9. When you produce documents, you should identify the paragraph(s) or request(s) in the Committee's letter to which the documents respond.

10. The fact that any other person or entity also possesses non-identical or identical copies of the same documents shall not be a basis to withhold any information.

11. The pendency of or potential for litigation shall not be a basis to withhold any information.

12. In accordance with 5 U.S.C.§ 552(d), the Freedom of Information Act (FOIA) and any statutory exemptions to FOIA shall not be a basis for withholding any information.

13. Pursuant to 5 U.S.C. § 552a(b)(9), the Privacy Act shall not be a basis for withholding information.

14. If compliance with the request cannot be made in full by the specified return date, compliance shall be made to the extent possible by that date. An explanation of why full compliance is not possible shall be provided along with any partial production.

15. In the event that a document is withheld on the basis of privilege, provide a privilege log containing the following information concerning any such document: (a) every privilege asserted; (b) the type of document; (c) the general subject matter; (d) the date, author, addressee, and any other recipient(s); (e) the relationship of the author and addressee to each other; and (f) the basis for the privilege(s) asserted.

16. If any document responsive to this request was, but no longer is, in your possession, custody, or control, identify the document (by date, author, subject, and recipients), and explain the circumstances under which the document ceased to be in your possession, custody, or control.

17. If a date or other descriptive detail set forth in this request referring to a document is inaccurate, but the actual date or other descriptive detail is known to you or is otherwise apparent from the context of the request, produce all documents that would be responsive as if the date or other descriptive detail were correct.

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18. This request is continuing in nature and applies to any newly-discovered information. Any record, document, compilation of data, or information not produced because it has not been located or discovered by the return date shall be produced immediately upon subsequent location or discovery.

19. All documents shall be Bates-stamped sequentially and produced sequentially.

20. Two sets of each production shall be delivered, one set to the Majority Staff and one set to the Minority Staff. When documents are produced to the Committee, production sets shall be delivered to the Majority Staff in Room 2157 of the Rayburn House Office Building and the Minority Staff in Room 2105 of the Rayburn House Office Building.

21. Upon completion of the production, submit a written certification, signed by you or your counsel, stating that: (1) a diligent search has been completed of all documents in your possession, custody, or control that reasonably could contain responsive documents; and (2) all documents located during the search that are responsive have been produced to the Committee.

Definitions

1. The term "document" means any written, recorded, or graphic matter of any nature whatsoever, regardless of how recorded, and whether original or copy, including, but not limited to, the following: memoranda, reports, expense reports, books, manuals, instructions, financial reports, data, working papers, records, notes, letters, notices, confirmations, telegrams, receipts, appraisals, pamphlets, magazines, newspapers, prospectuses, communications, electronic mail (email), contracts, cables, notations of any type of conversation, telephone call, meeting or other inter-office or intra-office communication, bulletins, printed matter, computer printouts, teletypes, invoices, transcripts, diaries, analyses, returns, summaries, minutes, bills, accounts, estimates, projections, comparisons, messages, correspondence, press releases, circulars, financial statements, reviews, opinions, offers, studies and investigations, questionnaires and surveys, and work sheets (and all drafts, preliminary versions, alterations, modifications, revisions, changes, and amendments of any of the foregoing, as well as any attachments or appendices thereto), and graphic or oral records or representations of any kind (including without limitation, photographs, charts, graphs, microfiche, microfilm, videotape, recordings and motion pictures), and electronic, mechanical, and electric records or representations of any kind (including, without limitation, tapes, cassettes, disks, and recordings) and other written, printed, typed, or other graphic or recorded matter of any kind or nature, however produced or reproduced, and whether preserved in writing, film, tape, disk, videotape, or otherwise. A document bearing any notation not a part of the original text is to be considered a separate document. A draft or non-identical copy is a separate document within the meaning of this term.

2. The term "communication" means each manner or means of disclosure or exchange of information, regardless of means utilized, whether oral, electronic, by document or otherwise, and whether in a meeting, by telephone, facsimile, mail, releases, electronic

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message including email (desktop or mobile device), text message, instant message, MMS or SMS message, message application, or otherwise.

3. The terms "and" and "or" shall be construed broadly and either conjunctively or disjunctively to bring within the scope of this request any information that might otherwise be construed to be outside its scope. The singular includes plural number, and vice versa. The masculine includes the feminine and neutral genders.

4. The term "including" shall be construed broadly to mean "including, but not limited to."

5. The term "Company" means the named legal entity as well as any units, firms, partnerships, associations, corporations, limited liability companies, trusts, subsidiaries, affiliates, divisions, departments, branches, joint ventures, proprietorships, syndicates, or other legal, business or government entities over which the named legal entity exercises control or in which the named entity has any ownership whatsoever.

6. The term "identify," when used in a question about individuals, means to provide the following information: (a) the individual's complete name and title; (b) the individual's business or personal address and phone number; and (c) any and all known aliases.

7. The term "related to" or "referring or relating to," with respect to any given subject, means anything that constitutes, contains, embodies, reflects, identifies, states, refers to, deals with, or is pertinent to that subject in any manner whatsoever.

8. The term "employee" means any past or present agent, borrowed employee, casual employee, consultant, contractor, de facto employee, detailee, fellow, independent contractor, intern, joint adventurer, loaned employee, officer, part-time employee, permanent employee, provisional employee, special government employee, subcontractor, or any other type of service provider.

9. The term "individual" means all natural persons and all persons or entities acting on their behalf.

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Appendix A – Documents

- **Documents emailed from Bud McFarlane, IP3, to National Security Advisor Michael Flynn and Deputy National Security Advisor K.T. McFarland on January 28, 2017:**
    - Document formatted as a Memorandum for President Trump authored by General Flynn, entitled "The Marshall Plan for the Middle East"; and
    - Document formatted as a Cabinet Memorandum from the President of the United States to the Secretary of State; the Secretary of Defense; the Secretary of the Treasury; Director, Central Intelligence Agency; and Chairman, Joint Chiefs of Staff, entitled "A Marshall Plan for the Middle East Based on Power, Peace and Prosperity."

- **Documents emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017:**
    - An overview of the Middle East Marshall Plan that appears to be produced by IP3;
    - "The Trump Middle East Marshall Plan (White Paper by Tom Barrack)," dated March 10, 2017;
    - A letter that IP3 leaders Mr. McFarlane, General Keane, Rear Admiral Hewitt, and General Alexander addressed to Saudi Deputy Crown Prince Mohammed bin Salman on March 17, 2017; and
    - January 1, 2017, letter to Deputy Crown Prince Mohammed bin Salman, signed by IP3 leaders General Alexander, General Keane, Bud McFarlane, and Rear Admiral Hewitt, as well as the chief executives of six companies: Exelon Corporation, Toshiba Energy, Bechtel Corporation, Centrus, GE Power, and Siemens USA.

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Document emailed from Bud McFarlane, IP3, to National Security Advisor Michael Flynn and Deputy National Security Advisor K.T. McFarland on January 28, 2017, formatted as a Memorandum for President Trump authored by General Flynn, entitled "The Marshall Plan for the Middle East."

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DRAFT

MEMORANDUM FOR THE PRESIDENT

FROM: Michael T. Flynn

Subject: The Marshall Plan for the Middle East

The flaws of the Iranian Nuclear Agreement extend well beyond enabling Iran to develop nuclear weapons: it stimulated a determination among the Arab states throughout the region to possess an equivalent capability. Predictably, China and Russia have moved aggressively to fulfill their wish -- offering to build nuclear power plants in Saudi Arabia, Egypt, Jordan and the Gulf states, but without requiring a U.S. standard of control over the fuel cycle – thus setting off a potential nuclear arms race in the years ahead.

Fortunately, a team of distinguished, recently-retired military officers and diplomats could see this coming two years ago and began to develop a strategy for dealing with it effectively. These are men and women you know and admire. Their plan is ingenious for it not only meets the genuine need for massive power generation – especially in Egypt where it is desperately needed -- but in Saudi Arabia and the Gulf states as well where a new generation of leaders is awakening to the imperative of moving beyond oil and industrializing their countries so as to provide jobs and meet consumer demands for decent health care, housing, education, and better infrastructure.

Further, execution of the plan will involve the rebirth of the U.S. nuclear power industry with all that implies for job-creation. (Over the past thirty years the industry has atrophied –thanks to over-regulation and misguided environmental opposition.) The rebuilding of that industry will provide a major boost to our economy and a major reduction in carbon-based pollution.

You'll admire this team for they have not only developed a powerful strategy to deal with a huge geopolitical risk, but they have reached out to American industry to help execute the plan. The giants of American industry have committed to participate. I'd like for you to meet this team tomorrow. Finally, the ultimate, enormous benefit of the plan is that it will be paid for by the nations who will benefit in the Middle East – not by American taxpayers. Tom Barrack has been thoroughly briefed on this strategy and wants to run it for you. He's perfect for the job. Rex and Jim are supportive of Tom's focus on this also.

In the enclosed memo you would call upon the relevant cabinet officers to lend their support to this historic program. I recommend that you sign it.

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Document emailed from Bud McFarlane, IP3, to National Security Advisor Michael Flynn and Deputy National Security Advisor K.T. McFarland on January 28, 2017, formatted as a Cabinet Memorandum from the President of the United States to the Secretary of State; the Secretary of Defense; the Secretary of the Treasury; Director, Central Intelligence Agency; and Chairman, Joint Chiefs of Staff, entitled "A Marshall Plan for the Middle East Based on Power, Peace and Prosperity."

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DRAFT FOR DISCUSSION PURPOSES ONLY

MEMORANDUM FOR: THE SECRETARY OF STATE

THE SECRETARY OF DEFENSE

THE SECRETARY OF THE TREASURY

THE SECRETARY OF ENERGY

DIRECTOR, CENTRAL INTELLIGENCE AGENCY

CHAIRMAN, JOINT CHIEFS OF STAFF

SUBJECT: A MARSHALL PLAN FOR THE MIDDLE EAST BASED ON POWER, PEACE AND PROSPERITY

The policies of the last eight years both at home and abroad have created unprecedented challenges for our nation and our allies. Nowhere has a failure of American leadership been more profound than the Middle East. The regional problems of the Middle East have grown into global challenges threatening many of our vital national interests. Perhaps at no time in the history of our nation have the stakes been higher. History reflects that transformational ideas can lead to great industrial, political and human capital advancement. It is through this lens that we must act now to reestablish the United States as the indispensable partner of our Middle East Allies. It is befitting of our great nation to develop a 21st Century Marshall Plan for the Middle East which will be one important component of a comprehensive multifaceted strategy to stabilize peace and prosperity both in Israel and the entire Middle East region.

The strategy will be one that empowers the intellectual capital and industrial might of our nation's private sector in a public, private venture. It will align with the strategic interests and challenges of the United States, our Allies and global partners. The pillars of this plan will be the long term economic stability and security of a reimagined Middle East economy. Our plan will enable the visions of our GCC partners, Egypt, Israel and Jordan. This Marshall Plan will be funded primarily by the nations of the Middle East, not by US taxpayers.

Our administration is engaging with key private sector partners on an approach centered on energy and security that will be the catalyst for enabling many of the policy objectives of your departments and agencies. I have assigned a special representative, Tom Barrack, to lead this important initiative and I am requesting him to engage each of you over the next 30 days to gain your input and support for our Middle East Marshal Plan within a broader Middle East comprehensive strategy that is good for our Allies and makes America and our companies relevant and great again both domestically and abroad.

POTUS

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Document emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017—an overview of the Middle East Marshall Plan that appears to be produced by IP3.

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Summary / Overview of Middle East Marshall Plan

Background

The policies of the last eight years both at home and abroad have created unprecedented challenges for our nation and our allies. Nowhere has a failure of American Leadership been more profound than the Middle East. The regional problems of the Middle East have grown into global challenges which threaten many of our national interests. Perhaps at no time in the history of our nation have the stakes been higher.

History reflects that transformational economic leadership by America can lead to dynastic industrial political, and human capital advancements aboard. The Marshall Plan following the Second World War was one such initiative which became one of the greatest foreign policy and economic growth achievements in history. It is now time to develop a 21st Century Trump Marshall Plan to provide a coordinated economic development initiative for the Middle East. The goals of the Trump Marshall Plan and its European predecessor are similar in that the desired result is a balanced and cooperative regional economic unit which foregoes "nation-state" rivalries for the benefit of global economic prosperity and growth, and thereby establishes an enduring peace which accrues to American interests. A primary difference from the previous Marshall Plan is that the Trump Middle East Marshall Plan will be primarily funded by the GCC countries.

Situation

Our Middle East allies have a sense of abandonment by the U.S. Russia has been moving aggressively to fill the void through military aggression, security dependence and energy cooperation.

The JCPOA has set into motion a new arms race where Sunni nations will seek equivalency with Iranian Nuclear capability. Left unchecked, the potential for a "Mutually Assured Destruction" scenario could develop in the next 10 years. Additionally, the JCPOA has fueled and funded expansive Iranian influence through proxy networks.

The Middle East is going Nuclear. There are 30 various nuclear agreements in the region today, at all stages (cooperation through build). The first fissile material is scheduled to arrive on the Arabian Peninsula in UAE this year. Russia, China, South Korea are moving aggressively to build Nuclear power plants in the Middle East.

The United States has virtually no industry to compete against China and Russia for new nuclear build in the international marketplace. The U.S. has ceded the domestic nuclear reactor business and is currently dependent on Russian Nuclear fuel to operate our own civil reactors.

Two outcomes are essential for U.S. long-term success:

- We must reestablish the U.S: as the indispensable partner of our M.E. allies
- The U.S. must have a strong international and domestic presence in the civil nuclear power business for our own national security and that of the M.E.

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Strategy

The Trump Administration is designing a 21st Century Marshall Plan. The strategy will be one that empowers the intellectual capital and industrial might of our nation's private sector in a public/private model.

The GCC nations, Egypt, Jordan and Israel share some common and fundamental goals Stability and Security are the pillars of a reimagined Middle East. The development of safe and reliable power and water in the region, at scale, are two core components necessary to achieve the economic, stability goals in the M.E.

American industry stands ready to lead a renewal of industrial and intellectual resources in the region. Aramco is a clear example of the possibilities that arise when American industrial and international financial expertise joins in developing, leading and sustaining economic growth and stability.

Currently Russia and China are moving aggressively to become the Nuclear power providers and primary economic partners in the M.E. Russia, in particular, is using the introduction of Nuclear power as a geo-political tool to push out America during a perceived period of U.S. ambivalence.

A consortium of U.S. National Security, Energy and Foreign Policy experts along with U.S. industry and regional powers have combined to lead the U.S. Private Sector in a peace, power, and prosperity partnership with Saudi Arabia. (International Peace, Power, Prosperity, IP3)

Key Regional Objectives of IP3 "The Iron Bridge Project"

- Deliver a massive deployment of reliable electricity from nuclear power plants with a "Secure In-and-Out Fuel Cycle".
- Provide best in class U.S. Security to ensure preeminent protection of the Plants, Grid and extended critical infrastructure. Support the development of an "Arab Nato" designed to provide regional security constructs and institutions for long term stability.
- Accelerate the Transformation plans of the M.E. through development of the "Knowledge Economy."
- Create 500,000 highly skilled jobs and help meet the localization goals for the M.E. This will help to blunt the unemployed Youth Bulge, which is a top challenge for eradicating ISIS and other extremist groups.

Key U.S. Objectives

- Make America Great Again In Nuclear Energy. Reestablish U.S. commercial nuclear supplier base. Rebuild our U.S. Nuclear capacity as part of a revitalization strategy. Reestablish U.S. leadership for ensuring safe Nuclear operations worldwide.
- Reposition U.S as the preeminent partner of the Middle East. Create a durable economic entanglement between U.S. and Middle East while countering the expansionist commercial nuclear agenda of Russia and China.
- Secures U.S. Vital National Interests. Prevent Mutually Assured Destruction scenario and establish Mutually Assured Stability by providing integrated security as a service for the protection of the energy and other critical infrastructure assets
- Grow U.S. jobs and economic opportunity. Creates 200,000 jobs and $250 billion in U.S. revenue by reinvigorating the U.S. industry supply chain for civil nuclear power.
- Deliver U.S. non-proliferation and energy objectives. This Public/Private endeavor will be the catalyst for enabling many of the policy objectives of the U.S. departments and agencies.

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Document emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017— "The Trump Middle East Marshall Plan (White Paper by Tom Barrack)," dated March 10, 2017.

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The Trump Middle East Marshall Plan

(White Paper by Tom Barrack)

March 10, 2017

Overview

The policies of the last eight years have created unprecedented challenges for our nation at home and our allies abroad. Nowhere has a failure of American leadership been more profound than the Middle East. The regional problems of the Middle East have grown into global challenges which threaten many of our national interests. Perhaps at no time in the history of our nation have the stakes been higher.

History reflects that transformational economic leadership by America can lead to dynastic industrial, political, and human capital advancements abroad. The Marshall Plan following the Second World War was one such initiative which became one of the greatest foreign policy and economic growth achievements of the past century. It is now time to develop a 21st Century Trump Marshall Plan to provide a coordinated economic development initiative for the Middle East. The goals of the Trump Marshall Plan and its European predecessor are similar in that the desired result is a balanced and cooperative regional economic unit which foregoes "nation-state" rivalries for the benefit of global economic prosperity and growth, and thereby establishes an enduring peace which accrues to American interests. A primary difference from the previous Marshall Plan is that the Trump Middle East Marshall Plan will be funded and paid for by the GCC countries themselves; however, it will be directed by American ingenuity, industry, and financial diplomacy!

The Trump Plan's Five Objectives

1. Stop the exportation of radical Islamic terrorism.
    a. This goal will be accomplished by supporting our "benevolent Islamic allies" in the creation and implementation of a viable economic development plan which will provide hope and shared prosperity.
2. Aid in a peaceful resolution between Israel and Palestine.
    a. Egypt is paramount to this process, and Egypt must support an Israeli solution if any peace process is to be successful.
    b. However, Egypt can only survive the Muslim Brotherhood and other internal attacks if it develops a viable economic plan for hopeful prosperity for its people executed in a co-operative but not corrupt manner with its military.
3. Maintain the regional balance of power by countering Iranian and Russian intervention through USA economic cooperation.
    a. Russia, China and Iran have filled the voids created by American foreign policy missteps of the past.

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4. Generate USA economic stimulus and growth by expanding international opportunities for our domestic industries and service providers, thereby creating jobs, reducing our trade deficit and providing investment for research and development.
    a. American-made Engineering, Construction, Power, Water, Agricultural, Healthcare, Security, Legal, Logistics, and Financial industries will pave a new path of economic development.
5. Provide a countervailing and compassionate foreign policy initiative as the USA becomes more scrutinizing and firm with immigration and national defense policy across the Middle East and other Islamic regions.

A Regional Economic Blueprint: Uniting Tribes and Flags

A revised economic blueprint and vision is a major component of any Middle East Peace initiative for Israel, Palestine and the broader Middle East. In fact, there is no Middle East. There are only tribes, flags, and local loyalties which seldom corroborate on religion, geography, language, and political systems. The region's boundaries were drawn after the First World War by the dominant powers of the West to conform to the Western-exported notion of a nation-state for the purposes of the West. Along this road, the West engaged in a foreign relations policy of "catch and release." Western powers supported local ruling regimes to form "nation-states" and when the Western motivations shifted the West discarded those rulers and replaced them with changed regimes. The social barbell of "haves" and "have-nots" was to the benefit of the West in need of stable non-democratic regimes with whom to negotiate resource contracts for fossil fuels upon which the West was almost entirely reliant. This practice was magnified in the recent Arab Spring which failed in all aspects and transitioned into an Arab Fall. The fortunes of the primarily Sunni "oil-cursed" GCC countries have reversed in the wake of a changing global fossil fuel market, a series of misguided regime changes, an inconsistent foreign policy from the USA, and a growing threat from Iran and its proxies across the region.

It is time for a new alliance built upon a foundation of economic sustainability and growth for the various nation states within the region. Without economic direction, vision, and leadership from the West, the Middle East tribes will find alliances with Russia and Iran, which are the only groups that will provide hope and support for them. In the absence of the hope of economic growth and domestic prosperity, a cadre of radical Islamist groups, which are all competing to form borderless caliphates across the region, will capture the hearts and minds of the almost 100 million youth in the region who will mature into the working age demographic in the next decade. The growing regional economic illness left unattended will become an international terrorist epidemic of despair, hostility, and anger.

We must provide an economic action plan which fits "hand-in-glove" with a security and diplomatic plan. While the IMF and World Bank are important partners in the process as accessories, these institutions are not capable to serve as principals. Rather, USA

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Industrial resources when coupled with America's financial, legal and trade expertise, funded by our GCC allies, can create a path through this jungle. The development of power and water in the region, at scale, are two of the key ingredients that can lead a renewal of American industrial and intellectual resources in the region. ARAMCO is a clear example of the possibilities that arise when USA industrial and international financial expertise joins in developing and sustaining a nation state resource and industry on a global canvas.

The Strategy of the Trump Middle East Marshall Plan

The strategy will be one that empowers the intellectual capital and industrial might of the USA's private sector in a public-private venture. It will align with the strategic interests and challenges of the United States, our Allies, and global partners. The pillars of this Trump Plan will be the long-term economic stability and security of a reimagined Middle East economy. The Trump Plan will enable the visions of Israel, the GCC, Egypt, and Jordan to create an economic union which in itself can fuel an Israeli-Palestinian solution and a quelling of the civil displacements in the region.

This Trump Middle East Marshall Plan will be funded primarily by the nations of the GCC in the Middle East, not by US taxpayers. However, the Trump Plan will be led by USA industry, financial and trade experts working hand-in-hand with the traditional diplomatic channels and venues. American leadership in basic themes can change the landscape in the following ways:

- Power generation and distribution when combined with the security which assures its continuity;
- Water and gas, when coupled with cross-border transmission and cooperation;
- Food and agriculture, when coupled with the education of how to grow, process and distribute it;
- Housing, when coupled with a state housing policy which makes it affordable.
- Education and training, when coupled with a legal and financial system that encourages direct foreign investment by providing predictability and transparency.
- Streamlined regulation, business, and trade administration, and a reliable legal system with cross-border regional collaboration.

The Designation of a Special Envoy to Effectuate the Trump Plan

Under the Constitution, the President of the United States determines USA foreign policy. The Secretary of State, appointed by the President with the advice and consent of the Senate, is the President's chief foreign affairs adviser. Also, the President may

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appoint special envoys to carry out defined missions to further improve the foreign affairs of the United States.

The President will appoint a special representative for the Trump Middle East Marshall Plan with the diplomatic rank of ambassador or special advisor to the President. The primary objectives of the Trump Middle East Marshall Plan are to terminate the exportation of radical Islamic terrorism, to establish a lasting resolution between Israel and Palestine, to maintain the balance of power in the face of a growing Iranian and Russia threat, and to generate economic growth, exports and fiscal stimulus at home. The Trump Plan will generate commercial opportunities for U.S. companies both domestically and abroad while delivering security, infrastructure, and significant economic development for the host countries.

Implementing a Trump Middle East Marshall Plan

Under the Trump Middle East Marshall Plan, the President shall appoint a Special Envoy for the engagement on important economic and cross-border issues, and for developing a comprehensive economic vision for the Middle East region to address its youthful population and changing economy, and which would be funded by the GCC and supported by operating partnerships with USA industry and business.

Immediate Action

To appoint a Special Envoy who will then coordinate and work hand-in-hand with the Secretary of State, Rex Tillerson, Special Advisors to the President, Jared Kushner and Gary Cohn, and the National Security Advisor, Lt. Gen. H.R. McMaster, in formulating a Trump Plan. A Cabinet Council will then be formed which will be chaired by the Special Envoy. The Cabinet Council will consist of the Special Advisors to the President, Senior Deputy or Under-Secretaries from various designated USA agencies including the Dept. of Treasury, Dept. of Commerce, NSC, Dept. of Defense, Dept. of Energy, the DHS and the CIA. The Special Envoy, on behalf of the Cabinet Council, will constantly advise and inform POTUS on the Council's progress and actions.

Within 30 days of the implementation of the executive order, the Special Envoy will organize a working group - "Joint Cooperation Council" - to develop the salient issues and concerns which must be formulated in a working plan. This working group will consist of senior designees from relevant GCC and Middle East countries, the USA ambassadors in those countries, the relevant USA industries, and the IMF and World Bank. Within 90 days, this Joint Cooperation Council will set forth an action plan and priorities. It will set forth a relatively short study period and enumerate specific tasks and undertakings in conjunction with time frames necessary to accomplish these undertakings and the funding sources necessary for execution.

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The Duties of the Special Envoy:

- Serves as the President's special representative, working hand-in-hand with the Secretary of State and the Senior Advisors to the President, for the execution of a Trump Marshall Plan in the Middle East through an Executive Order.
- Solicits funding from participating GCC countries for studies and implementation of the Trump Plan.
- Acts as a liaison between conflicting Middle East regimes to resolve economic paralysis or conflicts.
- Coordinates activities with the relevant departments and agencies of the USA government including but not limited to the Departments of State, Treasury, Commerce, Defense, Energy and Homeland Security.
- Builds trusted relationships with the top leaders of GCC countries, Israel, Egypt, Jordan, and Iraq.
- Builds long-line relationships with U.S. private sector leaders acting as their expediter in clearing the traditional regional and regulatory hurdles to their participation.
- Advises the President, Secretary of State and Congress on the key operational and strategic issues directly related to the Trump Plan.
- Integrates the Trump Plan objectives with the appropriate USA Ambassadors to relevant host countries.
- Administers the overall objectives of the Trump Middle East Marshall Plan.

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Document emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017—a letter that IP3 leaders Mr. McFarlane, General Keane, Rear Admiral Hewitt, and General Alexander addressed to Saudi Deputy Crown Prince Mohammed bin Salman on March 17, 2017.

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International Peace, Power, Prosperity (IP3 Corp)
7900 Tysons One Place
McLean VA 22101

17 March 2017

His Royal Highness Mohammed bin Salman Al Saud
Deputy Crown Prince
Kingdom of Saudi Arabia

Your Royal Highness,

Following your monumental meeting this week with President Donald Trump, the United States and the Kingdom of Saudi Arabia will stand side by side in a new strategic partnership to support the stability and prosperity of the Middle East. This new partnership will be anchored on the pillars of Energy, Security and Prosperity, the life blood of any thriving nation. The policies of the last eight years have created unprecedented challenges for our two countries that must be addressed immediately. The agreements by President Trump and Mohammed bin Salman have established the framework for our unique opportunity to take the next steps with IP3 and the Kingdom of Saudi Arabia.

The IP3 (International Peace, Power, and Prosperity) program for Middle East can serve as the foundation of the first material solutions outlined this week in Washington, delivering significant benefits:

1. Economic. The program's economic impact, the largest since the creation of Aramco, will allow the United States and the Kingdom of Saudi Arabia to lead the peaceful, safe, secure introduction of nuclear power to the region. This will cement an 80-year economic, infrastructure, technology partnership that accelerates Vision 2030 and establishes Saudi Arabia as the leader across three continents.

2. Political. The partnership to acquire Westinghouse between IP3 and Saudi Arabia will save "an American Crown Jewel" and a strategic asset for our country. We cannot achieve this goal alone. IP3 has coordinated this opportunity with key interests in the United States and Japan.

3. Jobs. The program will create 500,000 jobs in the future knowledge economy of the Kingdom and GCC. The United States would equally benefit with the creation of 200,000 jobs while reinvigorating the U.S. Nuclear industry and supply chain.

4. Media. The partnership will give each of our respective countries the opportunity to have a "good news story" for our media and our citizens. The economic relationship will show results immediately for Vision 2030 and the Kingdom's "Saudization" goals. The partnership between our countries must transcend to actual positive impact to our collective people.

Not since President Roosevelt met with King Salman bin Abdul Aziz in 1945 has a more important engagement occurred between our countries. We stand ready to meet and proceed.

Very respectfully,

General Keith Alexander — General Jack Keane — Hon. Bud McFarlane — Rear Admiral Mike Hewitt

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Document emailed from Frances Fragos Townsend, IP3, to National Security Council staff on March 28, 2017—a January 1, 2017, letter to Deputy Crown Prince Mohammed bin Salman, signed by IP3 leaders General Alexander, General Keane, Bud McFarlane, and Rear Admiral Hewitt, as well as the chief executives of six companies: Exelon Corporation, Toshiba Energy, Bechtel Corporation, Centrus, GE Power, and Siemens USA.

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His Royal Highness Deputy Crown Prince Mohammed Bin Salman,

Your Royal Highness,

History reflects that transformational ideas can lead to great industrial, political, and human capital advancement. Today, we stand at another important threshold, one which has great promise for the future of the Middle East and North Africa, as well as the global economy and humanitarian well-being.

We admire the spirit of Vision 2030, a new transformational economic strategy to diversify and strengthen the prosperity of the Kingdom of Saudi Arabia and your citizens. Your efforts may resonate throughout the neighboring GCC nations as they work toward similar economic growth opportunities.

It is in the spirit of that shared vision of a new path toward durable economic prosperity and global partnership that International Peace Power and Prosperity Corporation (IP3) and the IronBridge Group, present the Iron Bridge Program as a 21st Century Marshall Plan for the Middle East. This plan is designed to create long term government to government and commercial to commercial partnerships between the United States and the Kingdom of Saudi Arabia. The Iron Bridge Program enables and aligns with Vision 2030 as a transformational model to build a public private partnership between IP3, and its U.S. security subsidiary IronBridge Group, alongside the Kingdom of Saudi Arabia and the GCC nations. The Iron Bridge Program sits directly at the intersection of security, energy, and prosperity.

This program is designed to resource the tools of stability and irrevocable security while providing the industrial infrastructure for long-term reliable electricity supply, bringing hundreds of thousands of jobs to Saudi Arabia and beyond. This program is also intended to expedite Vision 2030 and recast the alliances among the participating nations. Through this partnership our program intends to deliver the best in manufacturing, education, training, advanced technology, security, and energy resources for the advancement of prosperity and peace in the region as well as the global good. The Iron Bridge Program incorporates the knowledge capital and capabilities of the world's leading global infrastructure companies to the Kingdom and its GCC neighbors in pursuit of these commonly shared goals.

It is with great respect and anticipation that we voice our support for your Vision 2030 program and for the IronBridge Program as a strategic accelerator and enabler for your vision of building prosperity at "the heart of the Arab and Islamic worlds, the investment powerhouse, and the hub connecting three continents." We stand ready to engage further upon your direction.

Sincerely,

AMERICAN OVERSIGHT

General Keith Alexander

General Jack Keane

Honorable Robert McFarlane

Rear Admiral Mike Hewitt

Chris Crane: CEO Exelon Corporation

Danny Roderick: CEO Toshiba Energy

Bill Dudley: Bechtel Corporation

Dan Poneman: CEO Centrus

Stephen Bolze: CEO GE Power

Judy Marks: CEO Siemens USA

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Whistleblowers Raise Grave Concerns with Trump Administration's Efforts to Transfer Sensitive Nuclear Technology to Saudi Arabia

Prepared for Chairman Elijah E. Cummings

Interim Staff Report
Committee on Oversight and Reform
U.S. House of Representatives

February 2019

oversight.house.gov

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EXECUTIVE SUMMARY

This interim staff report was prepared for Rep. Elijah E. Cummings, the Chairman of the Committee on Oversight and Reform, after multiple whistleblowers came forward to warn about efforts inside the White House to rush the transfer of highly sensitive U.S. nuclear technology to Saudi Arabia in potential violation of the Atomic Energy Act and without review by Congress as required by law—efforts that may be ongoing to this day.

The Trump Administration's interactions with Saudi Arabia have been shrouded in secrecy, raising significant questions about the nature of the relationship.

In 2017, President Trump's son-in-law, Jared Kushner, orchestrated a visit to Saudi Arabia as the President's first overseas trip. Mr. Kushner also met on his own with then-Deputy Crown Prince Mohammed bin Salman, who subsequently ousted his cousin, Mohammed bin Nayef, launched a crackdown against dozens of Saudi royal family members, and reportedly bragged that Mr. Kushner was "in his pocket."

In October 2018, the brutal murder of *Washington Post* columnist Jamal Khashoggi was met with equivocation by President Trump and other top Administration officials. This month, the White House ignored a 120-day deadline for a report on Mr. Khashoggi's killing requested on a bipartisan basis by the Senate Committee on Foreign Relations.

Within the United States, strong private commercial interests have been pressing aggressively for the transfer of highly sensitive nuclear technology to Saudi Arabia—a potential risk to U.S. national security absent adequate safeguards. These commercial entities stand to reap billions of dollars through contracts associated with constructing and operating nuclear facilities in Saudi Arabia—and apparently have been in close and repeated contact with President Trump and his Administration to the present day.

However, experts worry that transferring sensitive U.S. nuclear technology could allow Saudi Arabia to produce nuclear weapons that contribute to the proliferation of nuclear arms throughout an already unstable Middle East. Saudi Crown Prince Mohammed bin Salman conceded this point in 2018, proclaiming: "Without a doubt, if Iran developed a nuclear bomb, we will follow suit as soon as possible."

When Congress passed the Atomic Energy Act, it imposed stringent controls on the export of U.S. technology to a foreign country that could be used to create nuclear weapons. Under Section 123 of the Act, the U.S. may not transfer nuclear technology to a foreign country without the approval of Congress, in order to ensure that the agreement reached with the foreign government meets nine specific nonproliferation requirements.

The whistleblowers who came forward have expressed significant concerns about the potential procedural and legal violations connected with rushing through a plan to transfer nuclear technology to Saudi Arabia. They have warned of conflicts of interest among top White House advisers that could implicate federal criminal statutes. They have also warned about a working environment inside the White House marked by chaos, dysfunction, and backbiting.

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And they have warned about political appointees ignoring directives from top ethics advisors at the White House who repeatedly and unsuccessfully ordered senior Trump Administration officials to halt their efforts.

Even though these disclosures to Congress are protected by law, every whistleblower who spoke with Committee staff expressed significant concern about how their disclosures could lead to political reprisal, retribution, or professional setbacks. However, they stated that they felt compelled to convey their profound concern with the abnormal acts they witnessed inside the White House, including the disregard of advice from career officials, who repeatedly warned about the potential dangers of proceeding with such a sensitive proposal without full consideration and review.

The whistleblowers provided specific dates and information from the relevant correspondence, as well as the names and identities of White House officials engaged in these activities.

For example, the whistleblowers provided new information about IP3 International, a private company that has assembled a consortium of U.S. companies to build nuclear plants in Saudi Arabia. According to media reports, IP3's only project to date is the Saudi nuclear plan.

A key proponent of this nuclear effort was General Michael Flynn, who described himself in filings as an "advisor" to a subsidiary of IP3, IronBridge Group Inc., from June 2016 to December 2016—at the same time he was serving as Donald Trump's national security advisor during the presidential campaign and the presidential transition. According to the whistleblowers, General Flynn continued to advocate for the adoption of the IP3 plan not only during the transition, but even after he joined the White House as President Trump's National Security Advisor.

General Flynn failed to report in his security clearance renewal application a trip he took to Saudi Arabia in June 2015 on behalf of IP3 and its predecessor company. Although he reported a separate trip to Saudi Arabia in October 2015, General Flynn omitted key details, including the identity of the "work sponsor" that financed the trip. General Flynn claimed that he spoke at a conference during that trip, but none of his three speakers' bureaus had any involvement with the trip or knew of any conference there. Finally, General Flynn told investigators that he stayed at the King Khaled International Hotel, but a U.S. consulate official could not identify any such hotel in Saudi Arabia.

Another key proponent of this effort was Thomas Barrack, President Trump's personal friend of several decades and the Chairman of his Inaugural Committee. According to the *New York Times:*

> During the Trump campaign, Mr. Barrack was a top fundraiser and trusted gatekeeper who opened communications with the Emiratis and Saudis, recommended that the

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candidate bring on Paul Manafort as campaign manager—and then tried to arrange a secret meeting between Mr. Manafort and the crown prince of Saudi Arabia.[1]

According to this news report, 24% of the $7 billion in investments raised by Mr. Barrack's company since Donald Trump won the nomination "has come from the Persian Gulf—all from either the U.A.E. or Saudi Arabia."[2] During this period, Mr. Barrack reportedly "pondered the notion, for example, of buying a piece of Westinghouse, the bankrupt U.S. manufacturer of nuclear reactors."[3]

Summary of Whistleblower Concerns

According to the whistleblowers, Derek Harvey, the Senior Director for Middle East and North African Affairs at the National Security Council (NSC) from January to July 2017, stated during the first week of the Trump Administration that the decision to adopt IP3's nuclear plan, which it called the Middle East Marshall Plan, and develop "dozens of nuclear power plants" had already been made by General Flynn during the transition—while he was serving as an advisor to IP3.

Career staff warned that any transfer of nuclear technology must comply with the Atomic Energy Act, that the United States and Saudi Arabia would need to reach a 123 Agreement, and that these legal requirements could not be circumvented. Mr. Harvey reportedly ignored these warnings and insisted that the decision to transfer nuclear technology to Saudi Arabia had already been made.

Both career and political staff inside the White House reportedly agreed that Mr. Harvey's directive could violate the law. One senior political official stated that the proposal was "not a business plan," but rather "a scheme for these generals to make some money." That official stated: "Okay, you know we cannot do this."

Yet, just days after the President's inauguration, IP3 officials sent documents directly to General Flynn for President Trump to approve, including a draft Cabinet Memo stating that the President had appointed Mr. Barrack as a special representative to implement the plan and directing agencies to support Mr. Barrack's efforts.

According to the whistleblowers, the NSC Ethics Counsel and several attorneys in the NSC Legal Advisor's office agreed that General Flynn had a potential conflict of interest that could violate the criminal conflict of interest statute, 18 U.S.C. § 208. As a result, NSC Legal Advisor John Eisenberg instructed NSC staff to cease all work on the plan.

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[1] *Who is Behind Trump's Links to Arab Princes? A Billionaire Friend*, New York Times (June 13, 2018) (online at www.nytimes.com/2018/06/13/world/middleeast/trump-tom-barrack-saudi html).

[2] *Id.*

[3] *White House May Share Nuclear Power Technology with Saudi Arabia*, ProPublica (Nov. 29, 2017) (online at www.propublica.org/article/white-house-may-share-nuclear-power-technology-with-saudi-arabia).

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Despite the concerns of whistleblowers and NSC attorneys, and even after the President fired General Flynn in mid-February, officials inside the White House continued to move forward on the IP3 nuclear plan. More than five individuals separately confirmed that Mr. Harvey stated during a meeting on March 2, 2017: "I speak with Michael Flynn every night."

In mid-March 2017, Deputy National Security Advisor K.T. McFarland reportedly stated during a meeting that President Trump told Mr. Barrack that he could lead the implementation of the plan. She also disclosed that Mr. Barrack would be speaking with Mr. Harvey that day. Mr. Harvey subsequently held a conference call with Mr. Barrack, along with Rick Gates, President Trump's former Deputy Campaign Manager and Deputy Chairman of the Inaugural Committee, whom Mr. Barrack had hired to manage the Washington, D.C. office of Mr. Barrack's company. A career NSC staffer who joined the call with Mr. Gates, Mr. Barrack, and Mr. Harvey later informed colleagues that Mr. Harvey was trying to promote the IP3 plan "so that Jared Kushner can present it to the President for approval."

According to the whistleblowers, on March 24, 2017, multiple employees raised to the NSC Legal Advisor their concerns, including a detailed description of reported unethical and potentially illegal actions by General Flynn and Mr. Harvey. In response to these concerns, National Security Advisor H.R. McMaster reportedly informed NSC staff that they should cease working on the IP3 proposal. However, NSC staff remained concerned because the same individuals continued their work on IP3's proposal.

Limitations and Next Steps

These whistleblowers provided a snapshot of events at the beginning of the Trump Administration, but it is limited. While serving as Ranking Member of the Committee, Rep. Cummings tried to investigate these actions for years, without Republican support.

The Committee also received documents bolstering the whistleblowers' accounts, showing repeated communications between IP3 officials and Trump Administration officials, and underscoring the central role played by Mr. Barrack and his associates in promoting the IP3 nuclear plan to the White House.

Based on this snapshot of events, the Committee is now launching an investigation to determine whether the actions being pursued by the Trump Administration are in the national security interests of the United States or, rather, serve those who stand to gain financially as a result of this potential change in U.S. foreign policy.

The Committee's investigation is particularly critical because the Administration's efforts to transfer sensitive U.S. nuclear technology to Saudi Arabia appear to be ongoing. On February 12, 2019, the President met with nuclear power developers at the White House about sharing nuclear technology with countries in the Middle East, including Saudi Arabia. In addition, next week Mr. Kushner will be embarking on a tour of Middle Eastern capitals—including Riyadh—to discuss the economic portion of the Administration's Middle East peace plan.

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I. TIMELINE OF REPORTED EVENTS

Set forth below are reports from the whistleblowers, along with references to specific documents that would corroborate their claims, as well as pertinent contextual events:

- **Transition:**
  - After President Trump won the election, a Saudi delegation consisting of "[t]op aides to Saudi Arabia's Prince Mohammed" reportedly met with Jared Kushner, President Trump's son-in-law, on a trip to New York. The delegation reportedly included "Khaled al-Falih, installed by the prince as minister of energy and chairman of the state oil company." The delegation reportedly proposed initiatives "timed to Mr. Trump's first term in office, like proposals to spend $50 billion over four years on American defense contracts," and "urged Mr. Trump to come to Saudi Arabia himself to 'launch the initiatives as part of a historic welcome celebration.'"[4]

- **January 1, 2017:**
  - IP3 leaders General Keith Alexander, General Jack Keane, Mr. Bud McFarlane, and Rear Admiral Michael Hewitt, as well as the chief executives of six companies— Exelon Corporation, Toshiba America Energy Systems, Bechtel Corporation, Centrus Energy Corporation, GE Energy Infrastructure, and Siemens USA— signed a letter to Deputy Crown Prince Mohammed bin Salman. The letter presented "the Iron Bridge Program as a 21st Century Marshall Plan for the Middle East" and stated that it was "designed to create long term government to government and commercial to commercial partnerships between the United States and the Kingdom of Saudi Arabia."[5]

- **January 20, 2017:**
  - Donald J. Trump was inaugurated as the 45th President of the United States.
  - Alex Copson, a former business colleague of National Security Advisor Michael Flynn who had been pitching a Middle East nuclear project from his company, ACU Strategic Partners, reportedly bragged at an Inauguration Day event that General Flynn had sent him a text message that the Middle East nuclear project was "good to go" and directing Mr. Copson to contact their business colleagues to "let them know to put things in place." This description was provided by a whistleblower who attended the Inauguration Day event.[6]

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[4] *The Wooing of Jared Kushner: How the Saudis Got a Friend in the White House*, New York Times (Dec. 8, 2018) (online at www.nytimes.com/2018/12/08/world/middleeast/saudi-mbs-jared-kushner html).

[5] Letter from General Keith Alexander, IP3, et al. to Deputy Crown Prince Mohammed bin Salman (Jan. 1, 2017) (emailed from Frances Fragos Townsend to National Security Council staff as part of a package on Mar. 28, 2017).

[6] Letter from Ranking Member Elijah E. Cummings to Chairman Trey Gowdy, Committee on Oversight and Government Reform (Dec. 6, 2017) (online at

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- **Week of January 21, 2017:**

  - At an organizational meeting with NSC staff detailed from the intelligence community and the State Department, Derek Harvey, the Senior Director for Middle East and North African Affairs at the National Security Council and a top aide to General Flynn, stated that he had prepared a "new strategy" for U.S. engagement in the Middle East that included a new "regional economic and energy plan." He also stated that he developed this new strategy during the transition period in response to a request from General Flynn.

  - During the same meeting, NSC staff explained that two NSC offices were responsible for economic and energy issues and that subject matter experts at the NSC and departments typically worked together to prepare and vet proposals for the President and his national security team. The staff also told Mr. Harvey that the Obama Administration had prepared a transition memorandum outlining the status of ongoing U.S. energy and economic initiatives with countries in the Middle East.

  - Mr. Harvey declined to obtain input from economic and energy subject matter experts at the NSC or cabinet departments. Instead, he asserted that General Flynn had directed Mr. Harvey to take charge of the new "regional economic and energy plan" for the Middle East, which would include "dozens of nuclear power plants."

- **January 27, 2017:**

  - Seven days after the inauguration—and two days before a scheduled call with King Salman of Saudi Arabia—Mr. Harvey met in his office at the White House with a group of retired generals who work for IP3, including its co-founders, General Keane and Mr. McFarlane.

  - Immediately after the meeting, Mr. Harvey directed the NSC staff to add information about IP3's "plan for 40 nuclear power plants" to the briefing package for President Trump's call with King Salman. Mr. Harvey also stated that General Flynn wanted President Trump to raise the "plan for 40 nuclear power plants" with King Salman and that this was the "energy plan" that had been developed and approved by General Flynn during the presidential transition.

  - In response, several NSC staff informed Mr. Harvey that any specific plan to transfer nuclear technology to a foreign country must comply with several legal requirements. Specifically, staff explained to Mr. Harvey that under Section 123 of the Atomic Energy Act, the United States is required to reach a 123 Agreement before any nuclear technology may be transferred—a process that would take significant time and consultation with subject matter experts at the NSC, State Department, Department of Defense, and Department of Energy. NSC staff informed Mr. Harvey

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https://oversight.house.gov/sites/democrats.oversight house.gov/files/2017-12-06.EEC%20to%20Gowdy.pdf).

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that these legal requirements could not be circumvented by General Flynn or Mr. Harvey.

- Despite these warnings, Mr. Harvey insisted that the decision to transfer nuclear technology to Saudi Arabia had already been made during the presidential transition and that General Flynn wanted President Trump to raise "the nuclear power plants" with King Salman.

- After the meeting, NSC staff consulted with several other career and political staff members who were more senior than Mr. Harvey, all of whom agreed that Mr. Harvey's directive could violate laws and regulations. Staff from the Middle East Directorate, the Nonproliferation Directorate, and the International Economic Affairs Directorate conferred and expressed concern that it would be inappropriate for President Trump to raise the unvetted—and potentially illegal—"plan for 40 nuclear power plants" during his call with King Salman.

- NSC staff also consulted with a senior political appointee currently serving in the Trump Administration who was not affiliated with the IP3 plan (Senior Official 1). Senior Official 1 told NSC staff that they "absolutely should not include the issue" in President Trump's talking points. Senior Official 1 stated that the official knew about Mr. Harvey's meeting with the retired generals from IP3, and said the proposal was "not a business plan," but rather "a scheme for these generals to make some money." Senior Official 1 stated that General Flynn had been part of the group of retired generals at IP3 prior to his appointment as National Security Advisor. Senior Official 1 stated to NSC staff: "Okay, you know we cannot do this."

- **January 28, 2017:**

  - General Flynn and Deputy National Security Advisor K.T. McFarland received two documents in their official White House email accounts in a message entitled, "Launching the Marshall Plan for the Middle East" from Mr. McFarlane, a co-founder and Director of IP3 and a former national security advisor to President Reagan who pleaded guilty to participating in the Iran-Contra cover-up in 1988.

  - Mr. McFarlane was not a member of the Trump Administration, and he apparently sent the email in his role as an IP3 official. The email included: (1) a draft cover memorandum written from General Flynn to President Trump; and (2) a draft memorandum "for the President to sign" directing agency heads to lend support to Thomas Barrack for the implementation of the IP3 plan. Mr. McFarlane also wrote that the IP3 team and Thomas Barrack, the President's personal friend and Chairman of the Inaugural Committee, concurred with both memos.

  - The first document was formatted as a Memorandum for the President authored by General Flynn. The Memorandum stated, "Tom Barrack has been thoroughly briefed on this strategy and wants to run it for you. He's perfect for the job. Rex and Jim are

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supportive of Tom's focus on this also."[7] It also stated, "In the enclosed memo you would call upon the relevant cabinet officers to lend their support to this historic program. I recommend that you sign it."[8]

- The second document was formatted as a Cabinet Memorandum from the President to the Secretaries of State, Defense, Treasury, and Energy; the Director of the Central Intelligence Agency; and the Chairman of the Joint Chiefs of Staff. It stated that President Trump had assigned Mr. Barrack as a special representative to oversee implementation of the Middle East Marshall Plan: "I have assigned a special representative, Tom Barrack, to lead this important initiative and I am requesting him to engage each of you over the next 30 days to gain your input and support for our Middle East Marshal [sic] Plan."[9]

Figure 1: Jan. 28, 2017, Email from McFarlane to Flynn and McFarland[10]

From: Robert McFarlane [redacted]@mcfarlaneassociatesinc.com
[redacted]@mcfarlaneassociatesinc.com>>
Date: January 28, 2017 at 10:41:47 AM EST
To: Michael FLYNN <Michael.T.Flynn@nsc.eop.gov <mailto:Michael.T.Flynn@nsc.eop.gov>>,
<K.T.McFarland@nsc.eop.gov <mailto:K.T.McFarland@nsc.eop.gov>>
Cc: 'Mike Hewitt' [redacted]@ironbridgesecurity.com
[redacted]@ironbridgesecurity.com>>, Keith Alexander
[redacted]@ironnetcybersecurity.com
[redacted]@ironnetcybersecurity.com>>, Jack Keane <jkeane@scppartners.com
[redacted]@scppartners.com>>, Stuart SOLOMON [redacted]@gmail.com
[redacted]@gmail.com>>
Subject: Launching the Marshall Plan for the Middle East

Mike and KT,

Enclosed please find two memos as follows:

First, a cover memo from you Mike, to the President. It explains on one page the origins, geopolitical necessity, benefits --to the U.S. and host countries – structure, and Tom Barrack's leadership for execution of the strategy; and

Second, a memo for the President to sign to relevant cabinet officers calling on them to lend support to Tom Barrack for the execution of the plan.

Our team and Tom Barrack concur with both memos.

Warm regards,

Bud

Robert C. McFarlane
Co-Founder
U.S. Energy Security Council
2700 Virginia Ave. NW (Suite 901)
Washington, DC 20037

[7] "Rex" appears to be reference to then-Secretary of State Rex Tillerson, and "Jim" appears to be a reference to then-Secretary of Defense James Mattis.

[8] Draft Memorandum for President Donald Trump from Michael T. Flynn, *The Marshall Plan for the Middle East* (undated).

[9] Draft Memorandum from the President of the United States to the Secretary of State; the Secretary of Defense; the Secretary of the Treasury; Director, Central Intelligence Agency; and Chairman, Joint Chiefs of Staff, *A Marshall Plan for the Middle East Based on Power, Peace and Prosperity* (undated).

[10] This email has been re-typed to protect its source.

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- General Flynn forwarded Mr. McFarlane's email and its attachments to White House staff and directed them: "Prep a staff packet to go to the POTUS."

- Mr. Harvey and others were instructed to finalize the decision memorandum by January 30, 2017.

- That evening, NSC staff tasked with carrying out General Flynn's instructions discussed the latest direction with other senior NSC appointees who outranked Mr. Harvey. They raised a concern that the directive created significant conflicts of interest since General Flynn's former business colleagues stood to benefit from the plan and because the plan could generate improper benefit for private parties, including Mr. Barrack, the President's personal friend. These officials agreed with the NSC staff's concerns and said they planned to contact the NSC Legal Advisor.

- **January 29, 2017:**

  - As discussions continued, Senior Official 1 reiterated to relevant NSC staff that it would be inappropriate for President Trump to raise the "40 nuclear plants" with King Salman.

- **January 30, 2017:**

  - NSC staff met with the NSC Ethics Counsel and several attorneys in the NSC Legal Advisor's office who agreed that General Flynn had a potential conflict of interest that could violate the criminal conflict of interest statute, 18 U.S.C. § 208. Those attorneys immediately arranged for NSC staff to meet with NSC Legal Advisor John Eisenberg.

  - Later that day, NSC staff met with Mr. Eisenberg and other NSC lawyers and again described the actions of General Flynn and Mr. Harvey. Mr. Eisenberg stated that NSC staff "did the right thing" by reporting the issue, and he promised to immediately raise the issue with K.T. McFarland, the Deputy National Security Advisor. Mr. Eisenberg instructed NSC staff to cease all work on the plan.

  - When Mr. Harvey learned of Mr. Eisenberg's directive to halt work, he reacted angrily, but conceded that General Flynn had an apparent conflict of interest.

- **January 31, 2017:**

  - The NSC Ethics Counsel and Senior Official 1 attended a meeting at the White House that General Flynn had been previously scheduled to have with IP3. They explained to IP3's backers that the White House was not the appropriate venue to receive IP3's proposal. They directed the company to submit its proposal to an appropriate Cabinet agency, per the standard interagency process of reviewing proposals from third parties.

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- Later, Mr. Eisenberg informed NSC staff who had brought this matter to his attention that "we don't need to do anything else about this." He stated that Deputy National Security Advisor K.T. McFarland had agreed there would be no further NSC action on the Middle East Marshall Plan.

- **February 2017:**

  - Mr. Barrack's investment firm, Colony NorthStar, reportedly "developed a plan to profit off its connections to the incoming administration and foreign dignitaries" and documented the plan in a confidential February 2017 memo authored by Rick Gates. Some of these key connections were invited to a January 17, 2017, inaugural event organized by Mr. Barrack, including the United Arab Emirates' ambassador to the United States and the foreign ministers from Qatar, Saudi Arabia, and the United Arab Emirates. The list appears to indicate that the foreign ministers from Qatar, Saudi Arabia, and the United Arab Emirates were associated with General Flynn.[11]

  - Colony NorthStar's memorandum proposed establishing a "combined international government and business team" that would "provide unparalleled convening power in Washington, DC and around the globe," including by convening "roundtables between Ambassadors and members of the Administration to cultivate relationships with a targeted focus" and tying Colony NorthStar projects "into international bilateral meetings already occurring with key members of the Trump Administration." The memo represented that Colony NorthStar already had "a pipeline of potential projects" and that the firm's employees had already made contact with "several of the key agencies that will direct those efforts." It concluded, "There are other groups forming but none that can currently match the relationships or resources that we possess."[12]

- **February 13, 2017:**

  - President Trump fired General Flynn for lying to the Vice President and the Federal Bureau of Investigation (FBI) about his secret conversations with the Russian Ambassador.[13]

- **March 2, 2017:**

  - More than five individuals have separately confirmed that Mr. Harvey stated during an internal meeting on March 2, 2017: "I speak with Michael Flynn every night."

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[11] *Confidential Memo: Company of Trump Inaugural Chair Sought to Profit from Connection to Administration, Foreigners*, WNYC Studios (Feb. 5, 2019) (online at www.wnycstudios.org/story/confidential-memo-company-trump-inaugural-chair-sought-profit-connection-administration-foreigners).

[12] *Strategic Plan for Colony NorthStar, Inc.*, Colony NorthStar (Feb. 2017) (online at www.documentcloud.org/documents/5726057-Colony-memo-February-2017.html).

[13] *Trump Says He Fired Michael Flynn "Because He Lied" to F.B.I.*, New York Times (Dec. 2, 2017) (online at www.nytimes.com/2017/12/02/us/politics/trump-michael-flynn.html).

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They noted that this statement was especially troubling given that President Trump fired General Flynn several weeks earlier and the FBI was reportedly investigating General Flynn.

- NSC staff subsequently met with the new National Security Advisor, General H.R. McMaster, and raised concerns about Mr. Harvey, including his ongoing contacts with General Flynn and efforts to circumvent the interagency procedures that General McMaster put in place.

- **March 3, 2017:**

  - General McMaster directed General Keith Kellogg, NSC Chief of Staff, to investigate reports of misconduct and gross mismanagement at NSC.

  - Over the course of that internal investigation, General Kellogg was informed about the previous actions of General Flynn and Mr. Harvey to advance the IP3 plan, the potential conflicts of interest and legal concerns involved, and the attempts by NSC staff to address these matters by consulting with multiple White House officials, including Mr. Eisenberg and Senior Official 1.

  - General Kellogg was informed that Mr. Harvey stated that he was in frequent contact with General Flynn following his termination.

  - General Kellogg confirmed that the IP3 plan had been "briefed" to the transition team.

- **March 4, 2017:**

  - Despite orders to halt all work, the IP3 plans continued at the White House. Mr. McFarlane, in his capacity as IP3's co-founder and director, sent an email to Mr. Harvey entitled "We're Very Close to Losing Our Position in the Middle East."

  - In the email, Mr. McFarlane sought Mr. Harvey's assistance to get IP3's plan presented to President Trump for approval. He expressed that he was seeking a public U.S. government statement or letter of support for the IP3 plan, ideally ahead of then-Saudi Deputy Crown Prince Mohammed bin Salman's visit to Washington, D.C.

  - In the email, he wrote to Mr. Harvey: "KT McFarland is fully conversant with our plan and suggested that I come see you to brainstorm on next steps."

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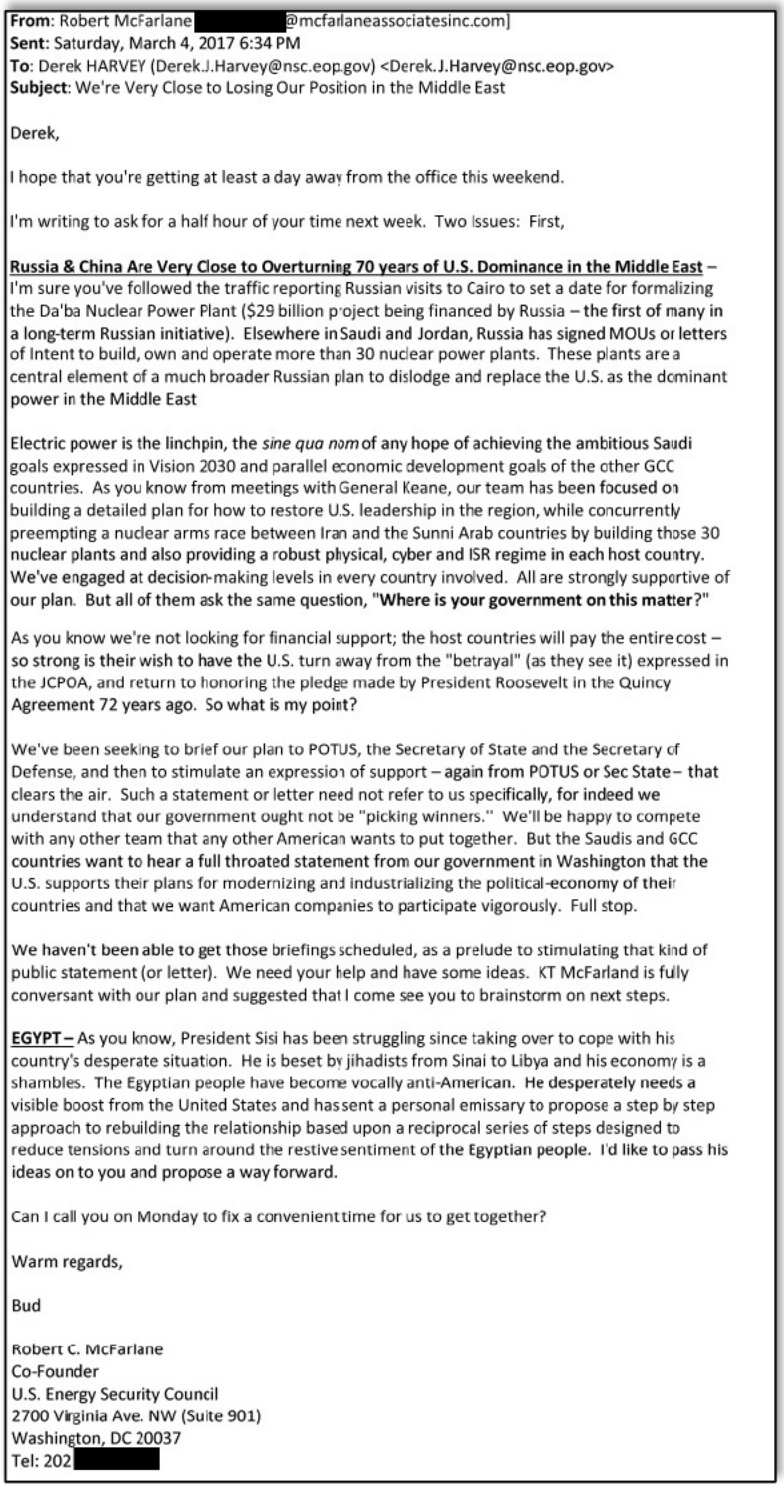
Figure 2: Mar. 4, 2017, Email from McFarlane to Harvey[14]



From: Robert McFarlane [redacted]@mcfarlaneassociatesinc.com]
Sent: Saturday, March 4, 2017 6:34 PM
To: Derek HARVEY (Derek.J.Harvey@nsc.eop.gov) <Derek.J.Harvey@nsc.eop.gov>
Subject: We're Very Close to Losing Our Position in the Middle East

Derek,

I hope that you're getting at least a day away from the office this weekend.

I'm writing to ask for a half hour of your time next week. Two issues: First,

Russia & China Are Very Close to Overturning 70 years of U.S. Dominance in the Middle East – I'm sure you've followed the traffic reporting Russian visits to Cairo to set a date for formalizing the Da'ba Nuclear Power Plant ($29 billion project being financed by Russia – the first of many in a long-term Russian initiative). Elsewhere in Saudi and Jordan, Russia has signed MOUs or letters of Intent to build, own and operate more than 30 nuclear power plants. These plants are a central element of a much broader Russian plan to dislodge and replace the U.S. as the dominant power in the Middle East

Electric power is the linchpin, the *sine qua non* of any hope of achieving the ambitious Saudi goals expressed in Vision 2030 and parallel economic development goals of the other GCC countries. As you know from meetings with General Keane, our team has been focused on building a detailed plan for how to restore U.S. leadership in the region, while concurrently preempting a nuclear arms race between Iran and the Sunni Arab countries by building those 30 nuclear plants and also providing a robust physical, cyber and ISR regime in each host country. We've engaged at decision-making levels in every country involved. All are strongly supportive of our plan. But all of them ask the same question, "**Where is your government on this matter?**"

As you know we're not looking for financial support; the host countries will pay the entire cost – so strong is their wish to have the U.S. turn away from the "betrayal" (as they see it) expressed in the JCPOA, and return to honoring the pledge made by President Roosevelt in the Quincy Agreement 72 years ago. So what is my point?

We've been seeking to brief our plan to POTUS, the Secretary of State and the Secretary of Defense, and then to stimulate an expression of support – again from POTUS or Sec State – that clears the air. Such a statement or letter need not refer to us specifically, for indeed we understand that our government ought not be "picking winners." We'll be happy to compete with any other team that any other American wants to put together. But the Saudis and GCC countries want to hear a full throated statement from our government in Washington that the U.S. supports their plans for modernizing and industrializing the political-economy of their countries and that we want American companies to participate vigorously. Full stop.

We haven't been able to get those briefings scheduled, as a prelude to stimulating that kind of public statement (or letter). We need your help and have some ideas. KT McFarland is fully conversant with our plan and suggested that I come see you to brainstorm on next steps.

EGYPT – As you know, President Sisi has been struggling since taking over to cope with his country's desperate situation. He is beset by jihadists from Sinai to Libya and his economy is a shambles. The Egyptian people have become vocally anti-American. He desperately needs a visible boost from the United States and has sent a personal emissary to propose a step by step approach to rebuilding the relationship based upon a reciprocal series of steps designed to reduce tensions and turn around the restive sentiment of the Egyptian people. I'd like to pass his ideas on to you and propose a way forward.

Can I call you on Monday to fix a convenient time for us to get together?

Warm regards,

Bud

Robert C. McFarlane
Co-Founder
U.S. Energy Security Council
2700 Virginia Ave. NW (Suite 901)
Washington, DC 20037
Tel: 202[redacted]

[14] This email has been re-typed to protect its source.

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- This email concerned NSC staff since Mr. Eisenberg had previously directed all NSC employees, including Ms. McFarland and Mr. Harvey, to cease all work on the Middle East Marshall Plan.

- **March 7, 2017:**

  - NSC staff reported Mr. Harvey's continued work on the IP3 plan to Mr. Eisenberg and others in the NSC legal office.

  - NSC staff described the roles played by General Flynn, Mr. Harvey, and Ms. McFarland in advocating for the IP3 plan, which appeared to be designed to benefit General Flynn, his former business colleagues, and Mr. Barrack, in potential violation of the federal criminal conflict of interest statute and ethics rules.

  - NSC staff also provided Mr. Eisenberg with a copy of Mr. McFarlane's March 4 email urging Mr. Harvey to present the IP3 plan to the President.

  - Mr. Eisenberg promised to investigate these reports.

- **March 14, 2017:**

  - President Trump met with Saudi Deputy Crown Prince Mohammed bin Salman in the Oval Office along with Mr. Kushner. President Trump and Deputy Crown Prince Mohammed bin Salman reportedly "discussed opportunities for U.S. companies to invest in Saudi Arabia."[15]

  - Mr. Harvey summarized President Trump's March 14, 2017, meeting with Saudi Deputy Crown Prince Mohammed bin Salman in a draft public "read out" submitted to Senior Official 1 and NSC staff. The draft included references to "a new United States-Saudi program . . . in energy, industry, infrastructure, and technology worth potentially more than $200 billion in direct and indirect investments within the next four years." These references ultimately remained in the final public copy.[16]

  - Neither career NSC staff nor Senior Official 1 were familiar with the program, and Senior Official 1 stated to NSC staff: "What the hell is going on?"

[15] *Saudi Deputy Crown Prince, Trump Meeting A "Turning Point": Saudi Adviser*, Reuters (Mar. 14, 2017) (online at www.reuters.com/article/us-saudi-usa-idUSKBN16L2CT).

[16] *Readout of the President's Meeting with Mohammed bin Salman Abdulaziz Al Saud, Deputy Crown Prince and Minister of Defense of the Kingdom of Saudi Arabia*, The White House (Mar. 15, 2017) (online at www.whitehouse.gov/briefings-statements/readout-presidents-meeting-mohammed-bin-salman-abdulaziz-al-saud-deputy-crown-prince-minister-defense-kingdom-saudi-arabia//).

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- **March 15, 2017:**

  - Deputy National Security Advisor McFarland held an internal meeting with staff, during which she raised the subject of the Middle East Marshall Plan.

  - Ms. McFarland stated that Mr. Barrack had done an "amazing job" managing President Trump's inaugural committee and raising donations for Mr. Trump. She noted that Mr. Barrack had longstanding and extensive business ties across the Middle East.

  - Ms. McFarland stated that President Trump told Mr. Barrack that he could lead implementation of the Middle East Marshall Plan. She explained that President Trump said Mr. Barrack could not be paid for his role.

  - Ms. McFarland disclosed that Mr. Barrack would be meeting with Mr. Harvey that day to discuss the Middle East Marshall Plan, and she told NSC staff: "You should all be meeting *with* Tom."

  - In light of the standing directive to halt all work on this plan, NSC staff subsequently reported this meeting to Mr. Eisenberg's office.

- **March 17, 2017:**

  - IP3 leaders Mr. McFarlane, General Keane, Rear Admiral Hewitt, and General Alexander signed a letter to Saudi Deputy Crown Prince Mohammed bin Salman stating: "The agreements by President Trump and Mohammed bin Salman have established the framework for our unique opportunity to take the next steps with IP3 and the Kingdom of Saudi Arabia." The letter also referenced a "partnership to acquire Westinghouse between IP3 and Saudi Arabia."[17]

- **March 21, 2017:**

  - Mr. Harvey had a conference call with Mr. Barrack to discuss the Middle East Marshall Plan.

  - Present for this call in Mr. Harvey's White House office was Rick Gates, President Trump's Deputy Campaign Manager and Deputy Inaugural Committee Chairman, whom Mr. Barrack hired to manage the Washington, D.C. office of Mr. Barrack's company, Colony NorthStar. Rick Gates has now pleaded guilty to financial fraud and lying to investigators, and he is reportedly cooperating with Special Counsel Robert Mueller's inquiry into Russian interference in the 2016 election.[18]

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[17] Letter from Keith Alexander, Jack Keane, Bud McFarlane, and Michael Hewitt, IP3, to Deputy Crown Prince Mohammed bin Salman (Mar. 17, 2017). This letter was emailed from Frances Fragos Townsend to National Security Council staff as part of a package on March 28, 2019.

[18] *Plea Agreement*, United States v. Gates (D.D.C. Feb. 23, 2018) (online at

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- Also present was a career NSC staffer who later informed colleagues that Mr. Harvey was again trying to promote the IP3 plan "so that Jared Kushner can present it to the President for approval."

- **March 22, 2017:**

  - NSC staff reported Mr. Harvey's March 21 conference call with Rick Gates and Tom Barrack about the Middle East Marshall Plan to Mr. Eisenberg.

  - Mr. Eisenberg asked, "Who is Rick Gates?" NSC staff responded by providing an article from the *Washington Post* describing Mr. Gates's connections with Paul Manafort and Russian oligarchs.

  - Separately, Mr. Harvey raised the Middle East Marshall Plan again during an interagency coordination meeting that day and emphasized that it was a top priority.

  - NSC staff again contacted the NSC Ethics Counsel to report Mr. Harvey's ongoing engagement with the Middle East Marshall Plan.

- **March 23, 2017:**

  - Energy Secretary Rick Perry raised the subject of the Middle East Marshall Plan during an interagency meeting relating to Saudi Arabia convened by NSC.

  - After the meeting, Mr. Harvey introduced himself to Secretary Perry and expressed interest in continuing the discussion about the Middle East Marshall Plan.

- **March 24, 2017:**

  - Multiple employees of NSC staff reported to Mr. Eisenberg their detailed concerns about gross mismanagement in the Middle East Directorate.

  - They reported in detail unethical and potentially illegal actions by General Flynn and Mr. Harvey to advance the Middle East Marshall Plan, as well as subsequent efforts by General Kellogg and Mr. Harvey to terminate NSC staff's employment following their protected disclosures about these actions.

- **March 24–25, 2017:**

  - That weekend, Mr. Harvey instructed NSC staff to add language about IP3's Middle East Marshall Plan—and specifically nuclear power plants—into talking points for President Trump's upcoming meeting with Egyptian President Abdel Fattah al-Sisi.

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www.justice.gov/file/1038801/download).

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- Mr. Harvey claimed that Mr. Eisenberg and Senior Official 1 had both approved adding the Middle East Marshall Plan language into the talking points.

- Mr. Eisenberg and Senior Official 1 subsequently informed NSC staff that they had not approved including the Middle East Marshall Plan language in the talking points.

- **March 27, 2017:**

  - General McMaster informed relevant NSC staff that he and Eisenberg agreed that nobody at the NSC should work on the Middle East Marshall Plan anymore. "John [Eisenberg] and I agree that this is done. Nobody should work on this anymore."

  - NSC staff noted Mr. Harvey's attempts over the previous weekend to insert references to the Marshall Plan and nuclear power plants into talking points for President Trump's upcoming meeting with the Egyptian President.

  - NSC staff further inquired about why Derek Harvey and others were still pursuing the IP3 Middle East Marshall Plan. Mr. Eisenberg was unable to provide an explanation.

- **March 28, 2017:**

  - Frances Fragos Townsend—the Homeland Security Advisor under President George W. Bush and a Director on IP3's Board—contacted White House Homeland Security Advisor Thomas Bossert about the Middle East Marshall Plan.

  - Ms. Townsend subsequently sent NSC staff several documents: (1) an overview of the Middle East Marshall Plan that appeared to be produced by IP3; (2) a document entitled "The Trump Middle East Marshall Plan (White Paper by Tom Barrack)" dated March 10, 2017; (3) the letter that IP3 leaders Mr. McFarlane, General Keane, Rear Admiral Hewitt, and General Alexander addressed to Saudi Deputy Crown Prince Mohammed bin Salman on March 17, 2017; and (4) the January 1, 2017, letter to Deputy Crown Prince Mohammed bin Salman signed by IP3 leaders General Alexander, General Keane, Bud McFarlane, and Rear Admiral Hewitt, as well as the chief executives of six companies: Exelon Corporation, Toshiba Energy, Bechtel Corporation, Centrus, GE Power, and Siemens USA.

  - Mr. Barrack's white paper stated: "The President will appoint a special representative for the Trump Middle East Marshall Plan with the diplomatic rank of ambassador or special advisor the President." It also stated that the Special Envoy should "coordinate and work hand-in-hand" with government officials, including Mr. Kushner. The white paper stated that the President should implement the Middle East Marshall Plan through an executive order. It described the Special Envoy as building "long-line relationships with U.S. private sector leaders acting as their expediter in clearing the traditional regional and regulatory hurdles to their participation" and "trusted relationships with top leaders of GCC countries, Israel, Egypt, Jordan, and Iraq."

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- Mr. Bossert directed NSC Nonproliferation Directorate staff to meet with Ms. Townsend. This email chain was forwarded to Mr. Eisenberg.

- **March 2017:**

  - Sometime in March, President Trump and his advisors reportedly told Israeli Prime Minister Benjamin Netanyahu that "if the U.S. does not sell the Saudis nuclear reactors, other countries like Russia or France will."[19]

- **April 3, 2017:**

  - Andrea Thompson—the Vice President's National Security Advisor—asked a staffer on Vice President Pence's national security team to meet with IP3 to discuss the Middle East Marshall Plan.

  - This outreach from IP3 to the Vice President's national security team was reported to Mr. Eisenberg.

[19] *Israel Presented U.S. with "Red Lines" for Saudi Nuclear Deal*, Axios (July 8, 2018) (online at www.axios.com/israel-united-states-red-lines-demands-saudi-arabia-nuclear-deal-d010de3e-69ad-4de1-bc5e-0387dd5b91dc html).

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II. CONTINUED EFFORTS TO PROMOTE THE TRANSFER OF SENSITIVE NUCLEAR TECHNOLOGY TO SAUDI ARABIA

The whistleblowers described above provided detailed information and references to specific documents to corroborate their claims. However, their accounts are limited to the beginning of the Trump Administration, and many questions remain unanswered—including whether and how the Trump Administration is moving forward with these efforts today.

Recent press accounts indicate that the effort to provide Saudi Arabia with sensitive U.S. nuclear technology has shifted to Secretary Rick Perry at the Department of Energy, although the White House—and Mr. Kushner—allegedly remain directly involved. In fact, the President is reported to be directly engaged in the effort, maintaining contact with IP3 about the plans and expressing his support for the transfer of nuclear technology to Saudi Arabia. These reports also indicate that Saudi Arabia is refusing to agree to prohibitions on enriching uranium and processing plutonium similar to those agreed to by other countries in the region.

- In November 2017, it was reported that the Middle East Marshall Plan had "stirred back to life as the Saudi government kicked off a formal process to solicit bids for their first reactors." In the "days before Thanksgiving, senior U.S. officials from several agencies met at the White House to discuss the policy, according to current and former officials."[20]

- In December 2017, Secretary Perry led a delegation to Saudi Arabia to conduct talks on civil nuclear cooperation with Crown Prince Mohammed bin Salman and Saudi Energy Minister Khalid al-Falih.[21] It was reported: "During the meeting, they discussed the strategic partnership between the two countries in various fields, especially in energy, environment, industry and joint investments between the two countries, especially in the petrochemical, infrastructure and energy sectors."[22]

- In January 2018, Brookfield Business Partners, a subsidiary of Brookfield Asset Management, announced its plans to acquire Westinghouse Electric for $4.6 billion. Westinghouse Electric is the bankrupt nuclear services company that is part of IP3's proposed consortium to build nuclear reactors in Saudi Arabia, and which stands to benefit from the Middle East Marshall Plan.[23] In August 2018, Brookfield Asset Management purchased a partnership stake in 666 Fifth Avenue, a building owned by Jared Kushner's family company.[24]

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[20] *White House May Share Nuclear Power Technology with Saudi Arabia*, ProPublica (Nov. 29, 2017) (online at www.propublica.org/article/white-house-may-share-nuclear-power-technology-with-saudi-arabia).

[21] @SecretaryPerry, Twitter (Dec. 5, 2017) (online at https://twitter.com/secretaryperry/status/938021024339251202).

[22] *Saudi Crown Prince Meets with US Secretary of Energy Rick Perry*, Al Arabiya English (Dec. 4, 2017) (online at http://english.alarabiya.net/en/business/energy/2017/12/04/Saudi-crown-prince-meets-with-US-Secretary-of-Energy-Rick-Perry html).

[23] *Brookfield Business Partners to buy Westinghouse for $4.6 Billion*, Reuters (Jan. 4, 2018) (online at www reuters.com/article/us-westinghouse-m-a-brookfieldbusinesspa/brookfield-business-partners-to-buy-westinghouse-for-4-6-billion-idUSKBN1ET1MQ).

[24] *Deal Gives Kushners Cash Infusion on 666 Fifth Avenue*, New York Times (Aug. 3, 2018) (online at

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- On February 27, 2018, Goldman Sachs announced that former Deputy National Security Advisor Dina Powell, who had helped manage Jared Kushner's relationship with Saudi Crown Prince Mohammed bin Salman and plan President Trump's 2017 visit to Saudi Arabia, would be joining the Goldman Sachs' sovereign wealth group.[25] Goldman Sachs wrote in an internal memorandum that "Dina will focus on enhancing the firm's relationships with sovereign clients around the world."[26] Ms. Powell reportedly "is especially close to Saudi Arabia's Public Investment Fund and the country's ruling family."[27]

- In February 2018, it was reported: "The administration is considering permitting Saudi Arabia to enrich and reprocess uranium as part of a deal that would allow Westinghouse Electric Co. and other American companies to build nuclear reactors in the Middle East kingdom."[28]

- In March 2018, it was reported that the Saudi government was spending more than $450,000 over a one-month period to lobby the Trump administration to approve a sale of nuclear reactors to Saudi Arabia.[29]

- A Foreign Agent Registration Act form filed by one law firm hired by Saudi Arabia stated that it "will advise the Ministry of Energy, Industry, and Resources of the Kingdom of Saudi Arabia in connection with a potential bilateral agreement on cooperation with the United States concerning peaceful uses of nuclear energy under Section 123 of the Atomic Energy Act of 1954 and related legal matters concerning the development of a commercial nuclear program within Saudi Arabia."[30]

- A filing by a consultant retained by Saudi Arabia stated: "Those matters on which the registrant will provide legal and consulting services have come to include the Saudi National Atomic Energy Project." It also stated: "It is anticipated that registrant will participate in interaction with agencies and departments of the U.S. Government and members of Congress on behalf of the Ministry with respect to the Section 123 Agreement and related agreements in connection with the Kingdom's development of a

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www nytimes.com/2018/08/03/nyregion/kushners-building-fifth-avenue-brookfield-lease html).

[25] *Dina Powell, Influential Foreign Policy Adviser, Is Set to Exit White House*, New York Times (Dec. 8, 2017) (online at www.nytimes.com/2017/12/08/us/politics/dina-powell-trump-resign html).

[26] *Dina Powell is Returning to Goldman Sachs*, Axios (Feb. 27, 2018) (online at www.axios.com/dina-powell-returning-to-goldman-sachs-b762eeeb-f9dd-4a5b-b5c0-5b6bc8aeb6d8.html).

[27] *Dina Powell Withdraws from U.N. Ambassador Consideration*, Wall Street Journal (Oct. 11, 2018) (online at www.wsj.com/articles/dina-powell-withdraws-from-u-n-ambassador-consideration-1539302582).

[28] *Perry Plans Nuclear-Energy Talks with Saudis, Sources Say*, Bloomberg (Feb. 26, 2018) (online at www.bloomberg.com/news/articles/2018-02-26/u-s-energy-chief-is-said-to-plan-nuclear-deal-talks-with-saudis).

[29] *Saudis Spending Up to $450K in Push for US Nuclear Sale*, The Hill (Mar. 8, 2018) (online at http://thehill.com/business-a-lobbying/lobbying-contracts/377507-saudis-spending-up-to-450k-in-push-for-us-nuclear).

[30] Foreign Agents Registration Act Registration for Pillsbury Winthrop Shaw Pittman, Department of Justice (Feb. 20, 2018) (online at www fara.gov/docs/5198-Exhibit-AB-20180220-43.pdf).

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commercial nuclear program, and Congressional review of the Section 123 Agreement."[31]

- Also in March 2018, Crown Prince Mohammed bin Salman undertook a "last-minute visit to New York," where he housed his entourage at the Trump International Hotel in Manhattan for five days, a stay that reportedly "was enough to boost the hotel's revenue" by 13 percent "for the entire quarter."[32]

- At a hearing on May 9, 2018, before the Committee on Science, Space, and Technology, Secretary Perry stated that the goal of his civil-nuclear discussions with Saudi Arabia was to convince it to use Westinghouse to construct its reactors: "[W]e tried to really drive home to the crown prince … that if you want the best reactors in world, you have to come to the United States and you have to use Westinghouse."[33]

- In July 2018, it was reported that "Energy Secretary Rick Perry has been pushing officials in Saudi Arabia to hire American companies like Westinghouse to build nuclear power plants."[34]

- On September 26, 2018, the U.S. consortium to build nuclear reactors was reported to be on Saudi Arabia's "shortlist of potential partners competing to build nuclear-power plants in the kingdom." Secretary Perry reportedly informed reporters that "the kingdom recently made a decision that keeps U.S. businesses—foremost Westinghouse Electric Co.—in the mix for what could ultimately become a market worth tens of billions of dollars."[35]

- On October 2, 2018, journalist Jamal Khashoggi, a prominent critic of Crown Prince Mohammed bin Salman, was murdered at the Saudi consulate in Istanbul, Turkey. After days of denying any Saudi role in Mr. Khashoggi's killing, Saudi Arabia admitted that Mr. Khashoggi died in a "fistfight" inside the Saudi consulate, and that Saudi officials who killed Mr. Khashoggi were involved in a "cover-up" of Mr. Khashoggi's murder.[36]

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[31] Foreign Agents Registration Act Registration for Law Office of David B. Kultgen, PLLC, Department of Justice (Feb. 20, 2018) (online at www fara.gov/docs/6527-Exhibit-AB-20180220-1.pdf).

[32] *At President Trump's Hotel in New York, Revenue Went Up This Spring—Thanks to a Visit from Big-Spending Saudis*, Washington Post (Aug. 3, 2018) (online at www.washingtonpost.com/politics/at-president-trumps-hotel-in-new-york-revenue-went-up-this-spring--thanks-to-a-visit-from-big-spending-saudis/2018/08/03/58755392-9112-11e8-bcd5-9d911c784c38_story html).

[33] Committee on Science, Space, and Technology, *Hearing on the Budget Proposal for the Department of Energy for FY 2019*, 115th Cong. (May 9, 2018) (online at https://science.house.gov/legislation/hearings/overview-budget-proposal-department-energy-fiscal-year-2019).

[34] *Kushner's Firm Deepens Ties to Those with Business in Washington*, New York Times (July 11, 2018) (online at www.nytimes.com/2018/07/11/business/jared-kushner-business-washington html).

[35] *U.S. Makes Shortlist for Saudi Nuclear-Plant Deal*, Wall Street Journal (Sept. 26, 2018) (online at www.wsj.com/articles/u-s-makes-shortlist-for-saudi-nuclear-plant-deal-1538006144).

[36] *Saudi Arabia Admits Khashoggi Killed but Claims He Died in "Fistfight,"* The Guardian (Oct. 20, 2018) (online at www.theguardian.com/world/2018/oct/19/jamal-khashoggi-dead-saudi-arabian-state-television-confirms).

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After significant public pressure, Treasury Secretary Steven Mnuchin and Mr. Barrack dropped out of the Future Investment Initiative summit in Saudi Arabia, at which they were scheduled to speak together on a panel.[37] In the ensuing uproar over Mr. Khashoggi's killing, Mr. Kushner has reportedly "offered the crown prince advice about how to weather the storm, urging him to resolve his conflicts around the region and avoid further embarrassments."[38]

- On December 20, 2018, it was reported that Secretary Perry led an interagency delegation to Riyadh weeks earlier to discuss a potential deal to share American nuclear power technology with Saudi Arabia. Secretary Perry reportedly told the Saudis that it would be important "to be perceived to be strong on non-proliferation."[39]

- On February 7, 2019, the White House announced that Mr. Kushner would be traveling to Saudi Arabia, the United Arab Emirates, Oman, Bahrain, and Qatar in late February in order to "share elements of the economic plan" of a U.S. peace proposal for the Middle East.[40]

- On February 8, 2019, the White House ignored a 120-day statutory deadline to submit a report to Congress regarding the murder of Mr. Khashoggi, which had been requested on a bipartisan basis by the Senate Foreign Relations Committee.[41]

- On February 12, 2019, Mr. Barrack stated of Mr. Khashoggi's murder, "whatever happened in Saudi Arabia, the atrocities in America are equal, or worse."[42] On February 13, 2019, Mr. Barrack released a statement calling the Khashoggi murder "atrocious" and "inexcusable," and apologizing for "not making this clear in my comments earlier this week." He added, "I feel strongly that the bad acts of a few should not be interpreted as the failure of an entire sovereign kingdom."[43]

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[37] *Investor and Trump Friend Tom Barrack Not Going to Saudi Conference*, CNBC (Oct. 19, 2018) (online at www.cnbc.com/2018/10/19/investor-and-trump-friend-tom-barrack-not-going-to-saudi-conference.html).

[38] *The Wooing of Jared Kushner: How the Saudis Got a Friend in the White House*, New York Times (Dec. 8, 2018) (online at www nytimes.com/2018/12/08/world/middleeast/saudi-mbs-jared-kushner.html).

[39] *What We Know About the Progress on Saudi-US Nuclear Deal Discussions*, Al Arabiya English (Dec. 20, 2018) (online at http://english.alarabiya.net/en/business/energy/2018/12/20/What-we-know-about-the-progress-on-Saudi-US-nuclear-deal-discussions-.html).

[40] *Trump Adviser Kushner to Visit Middle East on Peace Plan's Economic Part*, Reuters (Feb. 7, 2019) (online at www.reuters.com/article/us-usa-trump-mideast/trump-adviser-kushner-to-visit-middle-east-on-peace-plans-economic-part-idUSKCN1PW2RF).

[41] *Trump Defies Congressional Deadline on Khashoggi Report*, New York Times (Feb. 8, 2019) (online at www nytimes.com/2019/02/08/us/politics/trump-khashoggi-congress.html).

[42] *Trump Pal Tom Barrack Defends Khashoggi Murder*, Talking Points Memo (Feb. 12, 2019) (online at https://talkingpointsmemo.com/news/trump-pal-tom-barrack-defends-khashoggi-murder).

[43] *Trump Confidant Thomas Barrack Apologizes for Saying U.S. Has Committed "Equal Or Worse" Atrocities to Killing Of Saudi Journalist Jamal Khashoggi*, Washington Post (Feb. 13, 2019) (online at www.washingtonpost.com/politics/in-wake-of-khashoggi-killing-trump-confidant-thomas-barrack-defends-saudi-arabia-says-us-has-committed-equal-or-worse-atrocities/2019/02/13/5ed0f5e4-2fb3-11e9-86ab-5d02109aeb01_story html).

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- On February 12, 2019, it was reported that President Trump participated in a White House meeting with private nuclear power developers, "initiated by IP3 International." The meeting was reported to include discussions about U.S. efforts "to secure agreements to share U.S. nuclear technology with Middle East nations, including Jordan and Saudi Arabia." Participants reportedly included Rear Admiral Hewitt and General Keane from IP3, as well as representatives from Westinghouse, General Electric, Exelon, Nuscale, TerraPower, Lightbridge, AECOM, BWXT, Centrus Energy Corp., and X-energy.[44] President Trump was reportedly "supportive" of the executives' plans to sell nuclear technology to Saudi Arabia.[45]

- On February 12, 2019, it was reported that a White House official stated about the White House meeting with nuclear developers: "This is being led by General Keane. This is a group that he has put together; the president talks with him periodically."[46]

[44] *CEOs Ask Trump to Help Them Sell Nuclear Power Plants Abroad*, Bloomberg News (Feb. 13, 2019) (online at www.bloomberg.com/news/articles/2019-02-12/trump-said-to-meet-with-nuclear-developers-looking-globally).

[45] *U.S. Senate Proposal Would Block Saudi Path to Atomic Weapon in Nuclear Deal*, Reuters (Feb. 12, 2019) (online at www.reuters.com/article/uk-usa-nuclear-saudi/u-s-senate-proposal-would-block-saudi-path-to-atomic-weapon-in-nuclear-deal-idUKKCN1Q2002).

[46] *Trump to Huddle with U.S. Energy Executives to Discuss Nuclear Exports*, Axios (Feb. 12, 2019) (online at www.axios.com/trump-to-discuss-nuclear-power-saudi-arabia-4c44905c-e38f-4f4c-ae6f-1108566c42be.html).

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CONCLUSION

There is now serious, bipartisan concern with the Trump Administration's efforts to transfer sensitive U.S. nuclear technology to Saudi Arabia.

For example, on October 31, 2018, Republican Senators Marco Rubio, Todd Young, Cory Gardner, Rand Paul, and Dean Heller sent a letter to President Trump urging him to "suspend talks related to a potential civil nuclear cooperation agreement between the United States and Saudi Arabia" due to "serious concerns about the transparency, accountability, and judgment of current decisionmakers in Saudi Arabia." They explained:

> [W]e remain concerned that the Saudi Government has refused, for many years, to consider any agreement that includes so-called "Gold Standard" requirements against pursuing technologies to enrich uranium and reprocess plutonium-laden spent nuclear fuel.[47]

On February 12, 2019, Senators Ed Markey, Jeff Merkley, and Rand Paul introduced a bipartisan resolution requiring that any deal to share nuclear technology with Saudi Arabia block the Kingdom from creating a nuclear weapon.[48]

Despite these concerns, the White House appears to be proceeding. As recently as February 12, 2019, the President reportedly met with nuclear power developers at the White House to discuss sharing nuclear technology with Saudi Arabia.

Further investigation is needed to determine whether the actions being pursued by the Trump Administration are in the national security interest of the United States or, rather, serve those who stand to gain financially as a result of this potential change in U.S. foreign policy.

In order to obtain this information, today the Committee is sending requests for additional documents to the White House, the Departments of Commerce, Defense, Energy, State, and Treasury, the Joint Chiefs of Staff, the Central Intelligence Agency, and companies involved with this effort, including IP3, the Flynn Intel Group, ACU Strategies, and Colony NorthStar. The Committee is also seeking interviews with key personnel involved with promoting this plan to the White House.

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[47] Letter from Senators Marco Rubio, Todd Young, Cory Gardner, Rand Paul, and Dean Heller to President Donald J. Trump (Oct. 31, 2018) (online at www.rubio.senate.gov/public/_cache/files/0559a194-b2d2-46c5-b75a-5fd4ed7ec35b/920279CC56197E202AEEA9EB460402F2.20181031-letter-to-potus-re-u.s.-saudi-civil-nuclear-cooperation-agreeme....pdf).

[48] *U.S. Senate Proposal Would Block Saudi Path to Atomic Weapon in Nuclear Deal*, Reuters (Feb. 12, 2019) (online at www.reuters.com/article/uk-usa-nuclear-saudi/u-s-senate-proposal-would-block-saudi-path-to-atomic-weapon-in-nuclear-deal-idUKKCN1Q2002).

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From: Friedel, Loren
To: Lennon, Sarah
Cc: McGinnis, Edward
Subject: 2017 CERA MEETING S1: NE BACKGROUND, MEMO, TPS KAS
Date: Thursday, February 23, 2017 9:07:52 PM
Attachments: NE 2017-03 S1 Falih CERA Week Meeting Nuclear Energy Background Memo.docx
NE FINAL EDITS 2017-03 S1 Falih CERA Week Meeting Memo clean.docx
NE FINAL EDITS 2017-03 - S1 Falih CERA Week TPs clean.docx

Hi Sarah,

Here's my best shot at the Background Memo for the KAS nuclear energy program and attempt to include Ed's comments. I pulled the information from sources on the shared drive, country profile, and files.

I have attached the clean copies of the KAS S1 Memo and Talking Points with Ed's corrections. Once these 3 documents are cleared and you give me the approval, I will forward them in edit tracking format to IA. Thanks!

Respectfully,
Loren

From: McGinnis, Edward
Sent: Thursday, February 23, 2017 8:30 PM
To: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Thanks Loren. A few corrections.

(b) (5)

Talking Points for Meeting with Minister Falih

(b) (5)

From: Friedel, Loren
Sent: Thursday, February 23, 2017 6:02:55 PM
To: McGinnis, Edward
Cc: Lennon, Sarah
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

AMERICAN OVERSIGHT

Ed,

Here are the nuclear related excerpts from the KAS S1 Memo and TP's. (b) (5)

-Loren

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

From: McGinnis, Edward
Sent: Thursday, February 23, 2017 5:46 PM
To: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Thanks Loren. I am unable to open the documents for some reason. Can you cut and paste the nuclear points?

From: Friedel, Loren
Sent: Thursday, February 23, 2017 4:02:23 PM
To: McGinnis, Edward
Cc: Lennon, Sarah
Subject: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Dear Ed,

I have attached NE edits for the S1 CERA Week Meeting with KAS Memo and TP's for your review and clearance. I am working on the Background memo which I will send to you upon completion. Thank you!

Respectfully,
Loren

Loren Friedel
Foreign Affairs Specialist

Office of Bilateral, Multilateral and Commercial Cooperation
International Nuclear Energy Policy & Cooperation
Office of Nuclear Energy
U.S. Department of Energy
1000 Independence Avenue, S.W., 5A-148
Washington, D.C. 20585
Office: (202) 586-4518
Cell: (b) (6)
loren friedel@nuclear.energy.gov

AMERICAN OVERSIGHT

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(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

From: Friedel, Loren
To: Lennon, Sarah
Cc: McGinnis, Edward
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR UAE
Date: Thursday, February 23, 2017 9:21:50 PM
Attachments: NE Final Edits 2 00 Memo UAE S1 Al Mazrouei CERA Week March 2017 v5 clean.docx
NE FINAL Edits 01 Talking Points S1 UAE Al Mazrouei CERA Week v5 clean.docx

---

Hi Sarah,

Here are the final drafts of the S1 UAE memo and TPs incorporating Ed's comments. Please review for clearance. I will send the version with visible tracking edits.

(b) (6) Thanks.

-Loren

From: McGinnis, Edward
Sent: Thursday, February 23, 2017 8:35 PM
To: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Thanks Loren!

(b) (5)

Thanks!

From: Friedel, Loren
Sent: Thursday, February 23, 2017 5:54:37 PM
To: McGinnis, Edward
Cc: Lennon, Sarah
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Hello Ed,

I am sorry you cannot open the documents. I have cut and pasted below the relevant parts of the S1 Memo for UAE and Talking Points with their respective headings. Let me know if you need any more of the text. Thanks!
-Loren

(b) (5)

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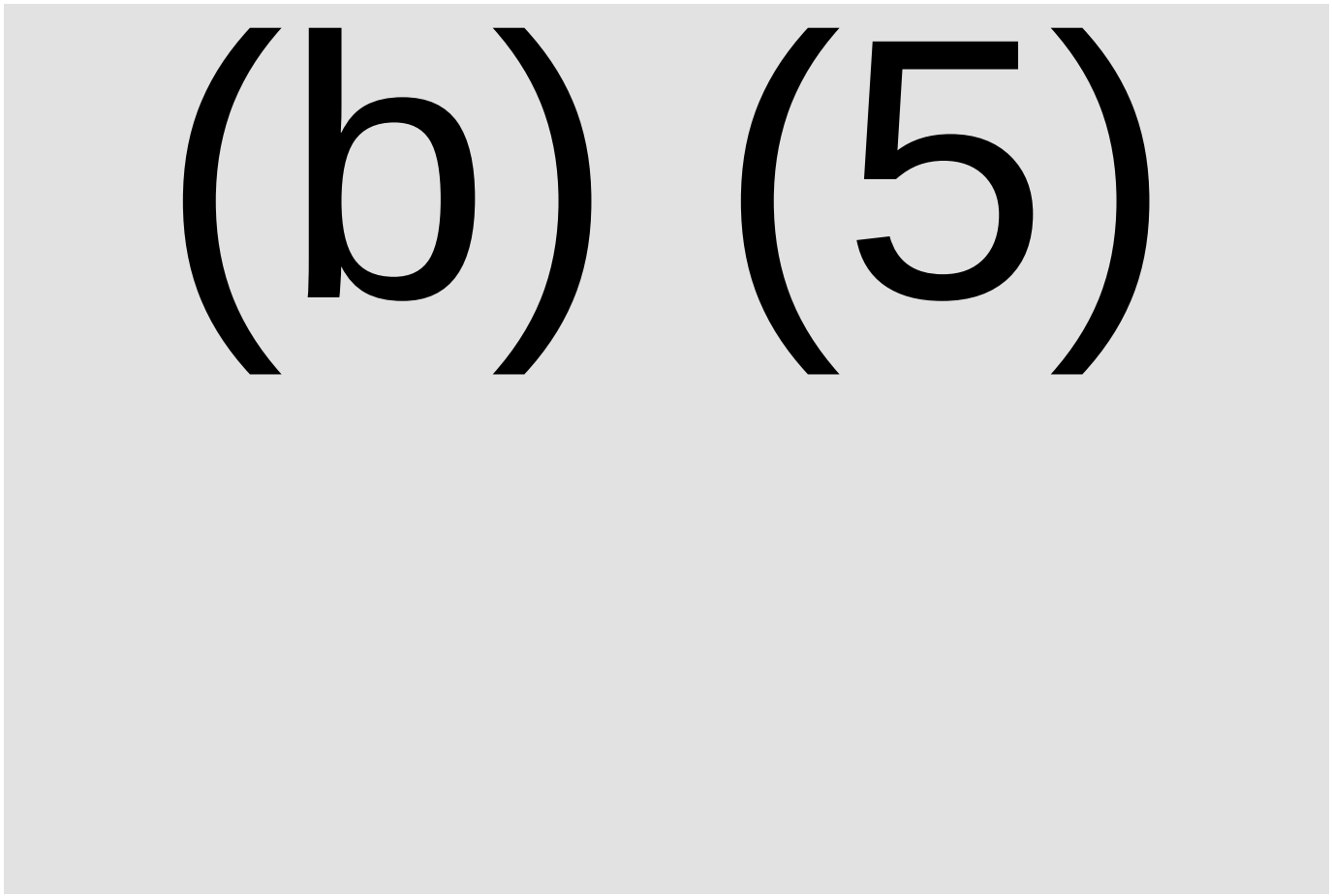
(b) (5)

AMERICAN OVERSIGHT



From: McGinnis, Edward
Sent: Thursday, February 23, 2017 5:46 PM
To: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Thanks Loren. I am unable to open the documents for some reason. Can you cut and paste the nuclear points?

From: Friedel, Loren
Sent: Thursday, February 23, 2017 4:02:23 PM
To: McGinnis, Edward
Cc: Lennon, Sarah
Subject: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Dear Ed,

I have attached NE edits for the S1 CERA Week Meeting with KAS Memo and TP's for your review and clearance. I am working on the Background memo which I will send to you upon completion. Thank you!

Respectfully,
Loren

AMERICAN OVERSIGHT

Loren Friedel
Foreign Affairs Specialist

Office of Bilateral, Multilateral and Commercial Cooperation
International Nuclear Energy Policy & Cooperation
Office of Nuclear Energy
U.S. Department of Energy
1000 Independence Avenue, S.W., 5A-148
Washington, D.C. 20585
Office: (202) 586-4518
Cell: (b) (6)
loren friedel@nuclear.energy.gov



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AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

From: Friedel, Loren
To: McGinnis, Edward; Lennon, Sarah
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS
Date: Friday, February 24, 2017 2:45:33 PM

Hello Sarah,
(b) (6)
. Do I submit the backgrounder on KAS to IA as well or is that for NE use only?
-Loren

Respectfully,
Loren

Loren Friedel
Foreign Affairs Specialist: International Nuclear Energy Policy & Cooperation
Office of Nuclear Energy, U.S. Department of Energy
1000 Independence Avenue, S.W., 5A-148
Washington, D.C. 20585
Office: (202) 586-4518
Cell: (b) (6)
loren.friedel@nuclear.energy.gov

From: McGinnis, Edward
Sent: Friday, February 24, 2017 1:01:17 PM
To: Lennon, Sarah; Friedel, Loren
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Yes please

From: Lennon, Sarah
Sent: Friday, February 24, 2017 9:19:01 AM
To: McGinnis, Edward; Friedel, Loren
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Ed, with the edits you have provided to the UAE and Saudi memos, can we send to IA?
Thanks,
Sarah

From: McGinnis, Edward
Sent: Thursday, February 23, 2017 8:35 PM
To: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Thanks Loren!

AMERICAN OVERSIGHT

(b) (5)

.

Thanks!

From: Friedel, Loren
Sent: Thursday, February 23, 2017 5:54:37 PM
To: McGinnis, Edward
Cc: Lennon, Sarah
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Hello Ed,

I am sorry you cannot open the documents. I have cut and pasted below the relevant parts of the S1 Memo for UAE and Talking Points with their respective headings. Let me know if you need any more of the text. Thanks!
-Loren

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

From: McGinnis, Edward
Sent: Thursday, February 23, 2017 5:46 PM
To: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>

AMERICAN OVERSIGHT

Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: RE: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Thanks Loren. I am unable to open the documents for some reason. Can you cut and paste the nuclear points?

From: Friedel, Loren
Sent: Thursday, February 23, 2017 4:02:23 PM
To: McGinnis, Edward
Cc: Lennon, Sarah
Subject: 2017 CERA MEETING S1 MEMO AND TPS FOR KAS

Dear Ed,

I have attached NE edits for the S1 CERA Week Meeting with KAS Memo and TP's for your review and clearance. I am working on the Background memo which I will send to you upon completion. Thank you!

Respectfully,
Loren

Loren Friedel
Foreign Affairs Specialist

Office of Bilateral, Multilateral and Commercial Cooperation
International Nuclear Energy Policy & Cooperation
Office of Nuclear Energy
U.S. Department of Energy
1000 Independence Avenue, S.W., 5A-148
Washington, D.C. 20585
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Cell: (b) (6)
loren friedel@nuclear.energy.gov

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NNSA Equity

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NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

Document 5

From: Reilly, Thomas
To: Fellow, Laura; Markus, Stephen
Subject: NNSA Equity
Date: Wednesday, March 22, 2017 11:47:56 AM
Attachments: NNSA Equity
ATT00001.htm

FYI (b) (5)

Thanks.

Tom

NNSA Equity

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NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

From: Kim, Dong
To: McGinnis, Edward
Subject: RE:
Date: Thursday, March 23, 2017 7:24:08 PM

Business Confidential - Trade Secret Information.

"Deliberative Process"

From: McGinnis, Edward
Sent: Thursday, March 23, 2017 6:55 PM
To: Kim, Dong <Dong.Kim@hq.doe.gov>
Subject: RE:

What was the heading? Business Proprietary?

From: Kim, Dong
Sent: Thursday, March 23, 2017 6:54 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject:

(b) (5)

AMERICAN OVERSIGHT

(b) (5) [redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

Dong K. Kim

Chief Operating Officer, Loan Programs Office

U.S. Department of Energy

(202) 586-7707 Office

AMERICAN OVERSIGHT

(b) (6) Moblie

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: McGinnis, Edward
Subject: 2017-04-04 S1 Westinghouse Meeting TPSv2.docx
Date: Tuesday, April 4, 2017 5:40:41 PM
Attachments: 2017-04-04 S1 Westinghouse Meeting TPSv2.docx

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

From: Reilly, Thomas
To: Scott, Michelle
Subject: (b) (5) - Finalrev1 incorporating GC 53 and 52
Date: Wednesday, April 5, 2017 4:46:00 PM
Attachments: (b) (5) - Finalrev1 incorporating GC 53 and 52.docx

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

From: Keokuk, Therese
To: Reilly, Thomas
Subject: (b) (5) - Finalrev1 incorporating GC 53 and 52
Date: Wednesday, April 5, 2017 4:51:57 PM

Got it and no problem. (b) (5)

Therese

-----Original Message-----
From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 4:50 PM
To: Keokuk, Therese <Therese.Keokuk@hq.doe.gov>
Subject: (b) (5) - Finalrev1 incorporating GC 53 and 52

No - thank you for putting up with this mess!

Also - (b) (5). I said we'll do what we can. I did send her a copy of this doc so that if there are no further changes she has a copy ready to roll.

Hope that was okay.

Thanks!

Tom

-----Original Message-----
From: Keokuk, Therese
Sent: Wednesday, April 05, 2017 4:48 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: (b) (5) - Finalrev1 incorporating GC 53 and 52

YOU'RE THE BEST.....THANKS!!!!

Therese

-----Original Message-----
From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 4:39 PM
To: Keokuk, Therese <Therese.Keokuk@hq.doe.gov>
Subject: (b) (5) - Finalrev1 incorporating GC 53 and 52

Therese,

(b) (5) (b) (5)

Thanks.

Tom

AMERICAN OVERSIGHT

From: Scott, Michelle
To: GC Concurrence Actions; Fetterly, Brett; McGinnis, Edward; Jaworowski, Suzanne; Goodman, Jac; Hallock, Andrew
Cc: Lucas, John T.; Reilly, Thomas; Markus, Stephen; McRae, Ben; Dickerson, Katharine; Richards, Andrew
Subject: (b) (5)
Date: Wednesday, April 5, 2017 5:05:36 PM
Attachments: (b) (5)

Brett,

Here are the clean finals of the 3 attachments.

Best
Michelle

From: GC Concurrence Actions
Sent: Wednesday, April 05, 2017 5:00 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Fetterly, Brett <Brett.Fetterly@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Lucas, John T. <John.T.Lucas@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>; Dickerson, Katharine <Katharine.Dickerson@hq.doe.gov>
Subject: FW: (b) (5)
Importance: High

Hi Michelle,

(b) (5)

Thanks,
Therese
****
M. Therese Keokuk
X6-5281

From: Lucas, John T.
Sent: Wednesday, April 05, 2017 4:59 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>

AMERICAN OVERSIGHT

Subject: (b) (5)

(b) (5)

From: GC Concurrence Actions
Sent: Wednesday, April 05, 2017 4:48 PM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Dickerson, Katharine <Katharine.Dickerson@hq.doe.gov>
Subject: (b) (5)

This package is now ready for your review and concurrence.

Thanks,
Therese

-----Original Message-----
From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 4:39 PM
To: Keokuk, Therese <Therese.Keokuk@hq.doe.gov>
Subject: (b) (5)

Therese,

(b) (5)

Thanks.

Tom

From: GC Concurrence Actions
Sent: Wednesday, April 05, 2017 1:10 PM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Crosland, Martha <Martha.Crosland@hq.doe.gov>; Dinunzio, Nicholas <Nicholas.Dinunzio@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>; Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: (b) (5)

AMERICAN OVERSIGHT

Importance: High

Tom – got it and thanks.

All – per the email below from Michelle Scott, (b) (5) Therefore, your immediate review is requested.

Many thanks,
Therese

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:29 PM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Subject: RE: NNSA Equity
Importance: High

Brett,

Attached are the latest versions of the all the attachments (b) (5) (b) (5) If there are any substantive changes from GC I will send them forward.

Best
Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 1:00 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Crosland, Martha <Martha.Crosland@hq.doe.gov>; Dinunzio, Nicholas <Nicholas.Dinunzio@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>; Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: (b) (5)

HI All,

AMERICAN OVERSIGHT

(b) (5)

Thanks.

Tom

From: GC Concurrence Actions
Sent: Wednesday, April 05, 2017 12:27 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Crosland, Martha <Martha.Crosland@hq.doe.gov>; Dinunzio, Nicholas <Nicholas.Dinunzio@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>; Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: (b) (5)

For your review and concurrence. Please let me know if I should forward to anyone else.

Thanks,
Therese

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 12:20 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Cc: McRae, Ben <Ben.McRae@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>
Subject: FW: NNSA Equity

Sorry –just got this updated version.

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:18 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: NNSA Equity

AMERICAN OVERSIGHT

Tom, Stephan and Ben,

Apologies, please use this version of the memo for your review.

Thank you
Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 12:17 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: NNSA Equity

Hi Therese,

I just go this from NNSA looking for GC concurrence. (b) (5)

I told them we would do our best.

Thanks.

Tom

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: NNSA Equity

Tom,

Attached for your routing trough GC are the following:

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: NNSA Equity

Thanks Jac, Michelle,

Michelle – as we discussed - (b) (5) We will then run this through our process for other offices within GC will need to see as well.

Thanks.

Tom

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: NNSA Equity

Michelle-

(b) (5)

Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards,

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Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: NNSA Equity

Tom and Stephen,

Jac Goodman from NA (b) (5) My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle
-----Original Message-----

NNSA Equity

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NNSA Equity

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From: McGinnis, Edward
To: Fryer, Sharwyn (CONTR)
Subject: FW: 2017-04-06 TAB 16E TOSHIBA Westinghouse - Updated SL edits 4-6-17
Date: Thursday, April 6, 2017 2:10:04 PM
Attachments: 2017-04-06 TAB 16E TOSHIBA Westinghouse - Updated (State edits) NE edits.docx

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Please print

From: Scott, Michelle
Sent: Thursday, April 6, 2017 2:06:36 PM
To: McGinnis, Edward; Lennon, Sarah
Cc: Meikle, Grace K. (CONTR)
Subject: RE: 2017-04-06 TAB 16E TOSHIBA Westinghouse - Updated SL edits 4-6-17

Here are Sarah additional edits.

-----Original Message-----
From: McGinnis, Edward
Sent: Thursday, April 06, 2017 1:47 PM
To: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Subject: RE: 2017-04-06 TAB 16E TOSHIBA Westinghouse - Updated SL edits 4-6-17

Thanks. Can you make tracked adjustments so we can see?

-----Original Message-----
From: Lennon, Sarah
Sent: Thursday, April 06, 2017 1:44 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: 2017-04-06 TAB 16E TOSHIBA Westinghouse - Updated SL edits 4-6-17
Importance: High

Ed, Michelle,

(b) (5)

--Sarah

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(b) (5)

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(b) (5)

AMERICAN OVERSIGHT

(b) (5)

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From: Jaworowski, Suzanne
To: Wilmot, Dan; Almstead, Deidre; Dannenfelser, Marty; Gerdes, Stan
Cc: Haus, Bob
Subject: RE: Westinghouse Briefing Request
Date: Tuesday, April 18, 2017 7:49:30 AM
Attachments: image001.png

Good question Dan.

Marty,

(b) (5)

Suzie

From: Wilmot, Dan
Sent: Monday, April 17, 2017 8:29:07 PM
To: Jaworowski, Suzanne; Almstead, Deidre; Dannenfelser, Marty; Gerdes, Stan
Cc: Haus, Bob
Subject: RE: Westinghouse Briefing Request

(b) (5)

-dan

From: Jaworowski, Suzanne
Sent: Monday, April 17, 2017 12:14 PM
To: Almstead, Deidre <Deidre.Almstead@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Gerdes, Stan <Stan.Gerdes@hq.doe.gov>
Cc: Haus, Bob <Bob.Haus@hq.doe.gov>; Wilmot, Dan <Dan.Wilmot@hq.doe.gov>
Subject: RE: Westinghouse Briefing Request

(b) (5)

Suzie

From: Almstead, Deidre
Sent: Monday, April 17, 2017 10:48:27 AM
To: Dannenfelser, Marty; Gerdes, Stan
Cc: Jaworowski, Suzanne; Haus, Bob; Wilmot, Dan
Subject: RE: Westinghouse Briefing Request

Is this something SRP is ready to do this week? I know there is a tentative call on Friday on this

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topic- should we push off for a bit?

From: Dannenfelser, Marty
Sent: Monday, April 17, 2017 10:37 AM
To: Gerdes, Stan <Stan.Gerdes@hq.doe.gov>; Almstead, Deidre <Deidre.Almstead@hq.doe.gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Haus, Bob <Bob.Haus@hq.doe.gov>
Subject: Westinghouse Briefing Request

Stan and Deidre,

We've been working with NE, LPO, GC and PA to set up a Westinghouse bankruptcy-related briefing for House Energy and Commerce Oversight & Investigations Subcommittee Chairman Tim Murphy (he has a large Westinghouse plant near his Pittsburgh-area district) but were told this morning that he would like to speak with Secretary Perry on the topic. Mike King (contact info below) is the point of contact on this request. Please let me know if you need any additional information and how you would like to respond to this request.

Best regards,

Marty

From: King, Mike [mailto:Mike.King@mail.house.gov]
Sent: Monday, April 17, 2017 9:53 AM
To: Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>
Cc: Dziengelski, Scott <scott.dziengelski@mail.house.gov>
Subject: RE: Westinghouse

Yes please. I apologize for any miscommunication. Congressman Murphy is hoping to speak with Sec Perry.

Mike King
Special Assistant
Congressman Tim Murphy (PA-18)
2332 Rayburn House Office Building
Washington, DC 20515
(202) 225-2301

From: Dannenfelser, Marty [mailto:Marty.Dannenfelser@hq.doe.gov]
Sent: Monday, April 17, 2017 9:50 AM
To: King, Mike
Cc: Dziengelski, Scott
Subject: RE: Westinghouse

I wasn't coordinating this with the Secretary's schedule, but with the legal and policy team leaders on this matter. If Congressman Murphy wants to speak with Secretary Perry on this topic, I can pass the request on to his scheduling team.

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From: King, Mike [mailto:Mike.King@mail.house.gov]
Sent: Monday, April 17, 2017 9:37 AM
To: Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>
Cc: Dziengelski, Scott <scott.dziengelski@mail.house.gov>
Subject: RE: Westinghouse

Thank you. Marty, I just wanted to ask if Sec Perry will be on the call as well. The Congressman would like to speak with him as well.

Mike King
Special Assistant
Congressman Tim Murphy (PA-18)
2332 Rayburn House Office Building
Washington, DC 20515
(202) 225-2301

From: Dannenfelser, Marty [mailto:Marty.Dannenfelser@hq.doe.gov]
Sent: Monday, April 17, 2017 9:30 AM
To: King, Mike; Dziengelski, Scott
Subject: RE: Westinghouse

Thanks, Mike. I'll check with our people and get back to you as soon as possible.

Marty

From: King, Mike <Mike.King@mail.house.gov>
Sent: Monday, April 17, 2017 9:16:10 AM
To: Dannenfelser, Marty; Dziengelski, Scott
Subject: RE: Westinghouse

Good Morning,

I'll be working with you to find a tie that works for Congressman Murphy. Currently his schedule is full today but I do have availability for tomorrow. Does 4:30 tomorrow work?

Mike King
Special Assistant
Congressman Tim Murphy (PA-18)
2332 Rayburn House Office Building
Washington, DC 20515
(202) 225-2301

From: Dannenfelser, Marty [mailto:Marty.Dannenfelser@hq.doe.gov]
Sent: Monday, April 17, 2017 9:14 AM
To: Dziengelski, Scott
Cc: King, Mike
Subject: RE: Westinghouse

Thanks, Scott. If you can tell us a few time windows that work for Chairman Murphy, we'll try to coordinate with key people here.

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From: Dziengelski, Scott [mailto:scott.dziengelski@mail.house.gov]
Sent: Monday, April 17, 2017 9:04 AM
To: Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>
Cc: King, Mike <Mike.King@mail.house.gov>
Subject: RE: Westinghouse

I am looping in our scheduler to lock in a time for this.

Scott Dziengelski
Legislative Director
Congressman Tim Murphy (PA-18)
2332 Rayburn House Office Building
Washington, DC 20515
(202) 225-2301

From: Dannenfelser, Marty [mailto:Marty.Dannenfelser@hq.doe.gov]
Sent: Wednesday, April 12, 2017 11:08 PM
To: Dziengelski, Scott
Subject: RE: Westinghouse

I believe 4:30 was also good for some key people. Would that work?

From: Dziengelski, Scott <scott.dziengelski@mail.house.gov>
Sent: Wednesday, April 12, 2017 9:04:25 PM
To: Dannenfelser, Marty; Spector, Samuel
Subject: RE: Westinghouse

11 AM does not work Monday, is there another time?

Scott Dziengelski
Legislative Director
Congressman Tim Murphy (PA-18)
2332 Rayburn House Office Building
Washington, DC 20515
(202) 225-2301

From: Dannenfelser, Marty [mailto:Marty.Dannenfelser@hq.doe.gov]
Sent: Wednesday, April 12, 2017 5:23 PM
To: Dziengelski, Scott; Spector, Samuel
Subject: RE: Westinghouse

Scott and Sam,

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One of the key people we would like to have on the call isn't available tomorrow but is in on Monday. Would Monday at 11:00 work for Chairman Murphy?

Marty

From: Dziengelski, Scott [mailto:scott.dziengelski@mail.house.gov]
Sent: Tuesday, April 11, 2017 8:25 PM
To: Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Spector, Samuel <Samuel.Spector@mail.house.gov>
Subject: RE: Westinghouse

Congressman Murphy wants to talk about the impact of the bankruptcy on domestic energy production and jobs.

Scott Dziengelski
Legislative Director
Congressman Tim Murphy (PA-18)
2332 Rayburn House Office Building
Washington, DC 20515
(202) 225-2301

From: Dannenfelser, Marty [mailto:Marty.Dannenfelser@hq.doe.gov]
Sent: Tuesday, April 11, 2017 2:39 PM
To: Dziengelski, Scott; Spector, Samuel
Subject: RE: Westinghouse

I'm hoping to get it scheduled for this week but working through some internal steps. Do you know the key questions he would like our staff to address?

From: Dziengelski, Scott [mailto:scott.dziengelski@mail.house.gov]
Sent: Tuesday, April 11, 2017 1:13 PM
To: Spector, Samuel <Samuel.Spector@mail.house.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>
Subject: RE: Westinghouse

Yes, when can we make this happen?

Scott Dziengelski
Legislative Director
Congressman Tim Murphy (PA-18)
2332 Rayburn House Office Building
Washington, DC 20515
(202) 225-2301

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From: Spector, Samuel
Sent: Monday, April 10, 2017 4:16 PM
To: Dannenfelser, Marty
Cc: Dziengelski, Scott
Subject: RE: Westinghouse

This would be for Chairman Murphy, as far as I know.

From: Dannenfelser, Marty [mailto:Marty.Dannenfelser@hq.doe.gov]
Sent: Monday, April 10, 2017 3:30 PM
To: Spector, Samuel
Cc: Dziengelski, Scott
Subject: RE: Westinghouse

Thanks, Sam. It looks like we're going to be able to get this arranged; just working through a few details here. Would this be for Chairman Murphy or staff?

Marty

From: Spector, Samuel [mailto:Samuel.Spector@mail.house.gov]
Sent: Monday, April 10, 2017 1:54 PM
To: Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>
Cc: Dziengelski, Scott <scott.dziengelski@mail.house.gov>
Subject: RE: Westinghouse

Hi Marty –

When you get a chance, I'd be interested in following up on this request.

Thanks again,

Sam

From: Dannenfelser, Marty [mailto:Marty.Dannenfelser@hq.doe.gov]
Sent: Wednesday, April 05, 2017 5:21 PM
To: Spector, Samuel
Cc: Dziengelski, Scott
Subject: RE: Westinghouse

Thanks, Sam. I'll touch base with a couple of folks and see if we can get that arranged.

From: Spector, Samuel [mailto:Samuel.Spector@mail.house.gov]
Sent: Wednesday, April 05, 2017 4:33 PM
To: Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>
Cc: Dziengelski, Scott <scott.dziengelski@mail.house.gov>
Subject: Westinghouse

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Hi Marty,

I'm writing to you from my new role in Congressman Tim Murphy's office (and shared staff with E&C). The Congressman asked if I could help arrange a call with someone in DOE Legislative Affairs re: the situation with Westinghouse. Can we set up a call in the very near future?

Thanks, and look forward to staying in touch,

Sam

Samuel J. Spector
Senior Legislative Counsel
Congressman Tim Murphy (PA-18)
2332 Rayburn House Office Building
Washington, DC 20515
(202) 225-2301

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From: McGinnis, Edward
To: Tuck, John
Subject: RE: Westinghouse could run out of cash in bankruptcy, utilities tell court | Utility Dive
Date: Sunday, April 23, 2017 7:21:50 AM

Thanks John. Much appreciated. Talk to you soon.

Ed

From: Tuck, John <jtuck@bakerdonelson.com>
Sent: Sunday, April 23, 2017 6:58:06 AM
To: McGinnis, Edward
Subject: Westinghouse could run out of cash in bankruptcy, utilities tell court | Utility Dive

Ed. Thanks for the call on Saturday. See story below in re issue we discussed. Correction .... the bankruptcy hearing is on the 26th not the 25th as I said yesterday. Will call again next week for update discussion. T.
http://www.utilitydive.com/news/westinghouse-could-run-out-of-cash-in-bankruptcy-utilities-tell-court/440972/

Sent from my iPad

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From: Kim, Dong
To: McCormack, Brian; Wilmot, Dan
Subject: FW: Westinghouse Electric Company LLC (U.S. Intelligence) - UPDATE 1: SCANA"s Management Seeks to Extend Nuclear Project Assessment Period by 60 Days
Date: Friday, April 28, 2017 1:56:03 PM

Attouney Client Privilege ----

Brian/Dan -

Here are the updates we are getting

-----Original Message-----
From: Moore, Karen
Sent: Thursday, April 27, 2017 6:09 PM
To: Cestari, Kenneth <Kenneth Cestari@hq doe gov>; Cortes, Hernan <Hernan Cortes@Hq Doe Gov>; Davis, Edward (CONTR) <Edward Davis@Hq Doe Gov>; Harris, Ronald <Ronald Harris@hq doe gov>; Hill, Stephen T <Stephen Hill@hq doe gov>; Kania, Edward <Edward Kania@hq doe gov>; Kim, Dong <Dong Kim@hq doe gov>; Marcum, Robert <Robert Marcum@Hq Doe Gov>; Mishkin, Alexander <Alexander Mishkin@hq doe gov>; Pickering, Marc (CONTR) <Marc Pickering@hq doe gov>; Pollog, Thomas <Thomas Pollog@Hq Doe Gov>; Popa, Markus <Markus Popa@Hq Doe Gov>; Ratliffe, Jerome <Jerome Ratliffe@hq doe gov>; Reed, Michael <Michael Reed@hq doe gov>; Schultz, Douglas <Douglas Schultz@hq doe gov>; Smith, Melissa <Melissa Smith@Hq Doe Gov>; Stevens, Woody <Woody Stevens@Hq Doe Gov>; Trebules, Victor (CONTR) <Victor Trebules@hq doe gov>
Subject: FW: Westinghouse Electric Company LLC (U S Intelligence) - UPDATE 1: SCANA's Management Seeks to Extend Nuclear Project Assessment Period by 60 Days

FYI

From: Rivera, Christy <CRivera@chadbourne com>

Sent: Thursday, April 27, 2017 5:47:58 PM

To: Moore, Karen

Subject: Fwd: Westinghouse Electric Company LLC (U S Intelligence) - UPDATE 1: SCANA's Management Seeks to Extend Nuclear Project Assessment Period by 60 Days

See below

Christy Rivera

Chadbourne & Parke LLP

1301 Avenue of the Americas

New York, NY 10019-6022

tel: 212-408-5530

Begin forwarded message:

From: Reorg Research Alert <dockets@reorg-research com<mailto:dockets@reorg-research com>>

Date: April 27, 2017 at 5:40:29 PM EDT

To: <crivera@chadbourne com<mailto:crivera@chadbourne com>>

Subject: Westinghouse Electric Company LLC (U S Intelligence) - UPDATE 1: SCANA's Management Seeks to Extend Nuclear Project Assessment Period by 60 Days

Westinghouse Electric Company LLC

UPDATE 1: SCANA's Management Seeks to Extend Nuclear Project Assessment Period by 60 Days <https://urldefense proofpoint com/v2/url?u=http-3A__email-2Dlinks reorg-2Dresearch com_wf_click-3Fupn-3DHSdZaWkdpHoHK0qWl8MaN6jw9qdbP1Su87F7JA6C-2D2Fzu4TAru7pH50ECZlIvAkOoQqe5jdGb4zlvCTzjPMx5rH4Vg2CM23-2D2BXIXJwFU7xh2cM-2D3D-5FbdjmZp9IaNisjICK5TTzxUpjJXa6xjc-2D2BxI7MjhHK3KHJIVrqis1y50poHlQhm3K3LrQi1uHUpxxUiMxD-2D2BkKDvuWVO5FjWm3q2E8VuVZRH7ktdhaFZYGdpk1V-2D2BDeSwIYJHOsJuHspC2vFFuqbtAlbRQSCflZs7kmxW77Fr6ULgpbfwh5RFouC2SvCu7aFNy009BdW93ybZiMh51BvBo1-2D2B3oNbIYpGaR0VUmDeZzUgVHQVLab-2D2FW8x29-2D2F7oRhmH5Wxf-2D2BilJIrePFxnbyevFoJ6Qqg-2D3D-2D3D&d=DwMFaQ&c=zLCWUg_Ni4SL_mp-quaZ_UmJPb_7_9EK0-KEth2irTw&r=XOUOgtKOuhNbelOsAgmJ_Be5v2_PJXvCY_JHxsQ_oBc&m=zOPRt_0EDWOT8kUwJAX61HpC8DdTjF-hzAyYYP4opJg&s=A1L-6rudZB0SGje5_w3seMuwNdtESIJRXaTvP5JwPh8&e=>

UPDATE 1: 5:32 p m EDT 4/27/2017: On a conference call with investors this afternoon, SCANA's management said they were attempting to extend the 30 day assessment period for their nuclear project with Westinghouse by another 60 days "Our goal is to extend it another 60 days" for a total of 90 day period, management said The current assessment period's deadline is tomorrow, April 28

Original Story 6:29 p m EDT on Mar 29, 2017

SCANA Reaffirms Hope to Complete Nuclear Power Plant Projects With Westinghouse, Subject to 30-Day Review; Georgia Power Warns of Material Impact on Construction

Relevant Documents:

SCANA Presentation <https://urldefense proofpoint com/v2/url?u=http-3A__email-2Dlinks reorg-2Dresearch com_wf_click-3Fupn-3DNbo-2D2BfpKBc2-2D2B-2D2Bj3GM98OJrR1L8QyOqF4QyUoyLk8L-2D2FM2QKfNzrppJ1-2D2FPw8dbt5R7mbMiuhivZASE-2D2F4kvfyigKgoJXei6x4Amxi-2D2B7LDYroape0S-

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2D2FVCY8x4-2D2Fx9gqJdPi41Pwb3WnN-2D2BA5r3yWFnhbv5PoQwxXOv-2D2BhGKPunw5UIGi3ITKkNH3K19Dtx5Xo4WTeWTB-5FbdjmZp9IaNisjICK5TTzxUpjJXa6xjc-2D2BxI7MjhHK3KHJIVrqis1y50poHlQhm3K3LrQi1uHUpxxUiMxD-2D2BkKDvuWVO5FjWm3q2E8VuVZRH7ktdhaFZYGdpk1V-2D2BDeSwIYJzLTg2qgwxDsi2nXr55y4tlijiQO-2D2FrDJxkYnDBRAiyVJvtAjZpqyYBC8nrcDTp9dHsvDF4WdlTl6eFEiejTjAgx2RUuSPwGu5YahLSXgWr8Wxc5pr5NSRInVP4xTVS97EFFratWTd7ToUaWvGb7khJg-2D3D-2D3D&d=DwMFaQ&c=zLCWUg_Ni4SL_mp-quaZ_UmJPb_7_9EK0-KEth2irTw&r=XOUOgtKOuhNbelOsAgmJ_Be5v2_PJXvCY_JHxsQ_oBc&m=zOPRt_0EDWOT8kUwJAX61HpC8DdTjF-hzAyYYP4opJg&s=0x64WvxMk8UsCCtDh4eLCeGva2b08yjOHonzdQmB0m4&e=>

Georgia Power 8-K<https://urldefense proofpoint com/v2/url?u=http-3A__email-2Dlinks reorg-2Dresearch com_wf_click-3Fupn-3DHSdZaWkdpHoHK0qWl8MaN6jw9qdbP1Su87F7JA6C-2D2Fzv5MINIUmq-2D2BQbwx-2D2FNLaqwzzkQhMzZVR9QDT19Xvw4yG4K-2D2B15Td2jkrTYGTsaBBKNxE-2D3D-5FbdjmZp9IaNisjICK5TTzxUpjJXa6xjc-2D2BxI7MjhHK3KHJIVrqis1y50poHlQhm3K3LrQi1uHUpxxUiMxD-2D2BkKDvuWVO5FjWm3q2E8VuVZRH7ktdhaFZYGdpk1V-2D2BDeSwIYJcTQePi0XdVbHC4WGztV2rOfWnE93h520ln0v1Dgc7JaTDBL3BxmxDityt8uZ4n5cR6za-2D2FZcw3rGfu2MVKxpzhcNl-2D2Fugprm3gpncSi0PcvXwyY3XZiXQEUCDVRllP1Wc9SS1xD2lBJPaDdbBfwOuyGA-2D3D-2D3D&d=DwMFaQ&c=zLCWUg_Ni4SL_mp-quaZ_UmJPb_7_9EK0-KEth2irTw&r=XOUOgtKOuhNbelOsAgmJ_Be5v2_PJXvCY_JHxsQ_oBc&m=zOPRt_0EDWOT8kUwJAX61HpC8DdTjF-hzAyYYP4opJg&s=f-b86Dhx7gVEIV7_T0_mqghe9NH54RPlUOddEp9wClQ&e=>

On a conference call with investors this afternoon, SCANA's management reaffirmed its commitment to finish the two nuclear power plant projects contracted with Westinghouse The company said that it has received further details from Westinghouse regarding the completion of the projects, which will be assessed over a 30-day transition period under an interim agreement with Westinghouse "We expect that the resources available from Westinghouse and Toshiba, including its parental guarantee, are adequate to compensate us for the Westinghouse estimate of additional costs," management wrote in a presentation<https://urldefense proofpoint com/v2/url?u=http-3A__email-2Dlinks reorg-2Dresearch com_wf_click-3Fupn-3DNbo-2D2BfpKBc2-2D2B-2D2Bj3GM98OJrR1L8QyOqF4QyUoyLk8L-2D2FM2QKfNzrppJ1-2D2FPw8dbt5R7mbMiuhivZASE-2D2F4kvfyigKgoJXei6x4Amxi-2D2B7LDYroape0S-2D2FVCY8x4-2D2Fx9gqJdPi41Pwb3WnN-2D2BA5r3yWFnhbv5PoQwxXOv-2D2BhGKPunw5UIGi3ITKkNH3K19Dtx5Xo4WTeWTB-5FbdjmZp9IaNisjICK5TTzxUpjJXa6xjc-2D2BxI7MjhHK3KHJIVrqis1y50poHlQhm3K3LrQi1uHUpxxUiMxD-2D2BkKDvuWVO5FjWm3q2E8VuVZRH7ktdhaFZYGdpk1V-2D2BDeSwIYJJHoVfNJM6DQdFIKr74-2D2FBPQ-2D2Ff-2D2FMlT-2D2BeNbEUvmrcRbU8E3REca6EPwcH07VuzJCefdIGNPA09kSd-2D2BwVlHnj5LurFPhrNHjGVBg7ezZ0RuY6Kz-2D2B8aHaWow2LSIMmwj5EC1Q7aNT7WorGQ5rGKsHjo3X6Q-2D3D-2D3D&d=DwMFaQ&c=zLCWUg_Ni4SL_mp-quaZ_UmJPb_7_9EK0-KEth2irTw&r=XOUOgtKOuhNbelOsAgmJ_Be5v2_PJXvCY_JHxsQ_oBc&m=zOPRt_0EDWOT8kUwJAX61HpC8DdTjF-hzAyYYP4opJg&s=WunFV5yHsvRH2x6YQQ10fVAcHUTV4vJFHG5afI_z-Y4&e=> for investors

SCANA said it is evaluating the various options including the complete construction, delay or abandonment of the two new units The various options outlined during transition period include:

* Continuing the construction of both new units;
* Focusing on construction of one unit and delaying construction of the other;
* Continuing with construction of one unit, abandoning the other and seeking recovery of the abandoned unit under South Carolina's regulatory framework; and
* Abandoning the project and seeking recovery under the South Carolina statute

"All paths would need to satisfy generation needs," management stressed on the call, adding that they "will assess the most prudent path forward " The company also said that under the bankruptcy proceedings, they have reached an agreement with Westinghouse that allows the projects to continue during the transition period without interruption Construction will continue at the site until a further assessment has been reached by all parties involved

SCANA said that if by the end of the 30-day transition a final decision has not been made based on the information provided, they will extend the agreement's timeline in order to finish their valuation of the projects "We are in regular conversation with Westinghouse," management said on the call, stating that before they commit to an option, they need to evaluate the estimates in more detail in order to figure out the total impact on the company The company said that it "continue[s] to become more informed" as it reviews the estimated "inputs and outputs" of the projects provided by Westinghouse SCANA's management said they will evaluate whether the numbers presented are sufficient to cover the costs, a process that is already underway

Discussing the implication of Westinghouse's bankruptcy, SCANA's management told investors they would be a "substantial creditor" in the case "We think there's some substantial value" to the Westinghouse bankruptcy estate when combined with Toshiba's guarantees, they said on the call "That's why we're comfortable " Management also said that the potential sale of Westinghouse "would be positive," although the government may have concerns

Separately, Georgia Power - the owner of the other plant under construction by Westinghouse - filed an 8-K<https://urldefense proofpoint com/v2/url?u=http-3A__email-2Dlinks reorg-2Dresearch com_wf_click-3Fupn-3DHSdZaWkdpHoHK0qWl8MaN6jw9qdbP1Su87F7JA6C-2D2Fzv5MINIUmq-2D2BQbwx-2D2FNLaqwzzkQhMzZVR9QDT19Xvw4yG4K-2D2B15Td2jkrTYGTsaBBKNxE-2D3D-5FbdjmZp9IaNisjICK5TTzxUpjJXa6xjc-2D2BxI7MjhHK3KHJIVrqis1y50poHlQhm3K3LrQi1uHUpxxUiMxD-2D2BkKDvuWVO5FjWm3q2E8VuVZRH7ktdhaFZYGdpk1V-2D2BDeSwIYJ4vt-2D2FpoD8V-2D2B3ncX1GNEv5mu81bWuRjakUJBoNoCWK854tnunJlrg9onWOyjht-2D2FCK7UJw7nyijOPWu9PBJ0LjNFkKm5kp5oMLj-2D2FxTX6q3jANUkq1FOq6jxbuzhqDqgbkY18CqmsueAKwwOZwx9y0ad4g-2D3D-2D3D&d=DwMFaQ&c=zLCWUg_Ni4SL_mp-quaZ_UmJPb_7_9EK0-KEth2irTw&r=XOUOgtKOuhNbelOsAgmJ_Be5v2_PJXvCY_JHxsQ_oBc&m=zOPRt_0EDWOT8kUwJAX61HpC8DdTjF-hzAyYYP4opJg&s=_7-SpkIlADmv-HR12yD442RAuQ1Zxbfk8EysMj7QXDg&e=> noting its own interim assessment agreement with Westinghouse, and adding:

"While Georgia Power is working to provide for a transition that will allow work to continue on Plant Vogtle Units 3 and 4, Georgia Power, along with the other Vogtle Owners, also is undertaking a full-scale schedule and cost-to-complete assessment to determine the impact the Contractor's bankruptcy filing will have on the construction of Plant Vogtle Units 3 and 4 Georgia Power intends to work with the Georgia Public Service Commission and the other Vogtle Owners to determine future actions related to Plant Vogtle Units 3 and 4 In addition, Georgia Power intends to take all actions available to it to enforce its rights related to the Vogtle 3 and 4 Agreement, including enforcing the Toshiba Guarantee, subject to the Interim Assessment Agreement, and accessing $920 million of letters of credit provided by Westinghouse to the Vogtle Owners

The Contractor's bankruptcy filing is expected to have a material impact on the construction of Plant Vogtle Units 3 and 4 and could have a material impact on Georgia Power's financial statements; however, the ultimate outcome of these matters cannot be determined at this time "

See on Reorg Research<https://urldefense proofpoint com/v2/url?u=http-3A__email-2Dlinks reorg-2Dresearch com_wf_click-3Fupn-3DHSdZaWkdpHoHK0qWl8MaN6jw9qdbP1Su87F7JA6C-2D2Fzu4TAru7pH50ECZlIvAkOoQqe5jdGb4zlvCTzjPMx5rH4Vg2CM23-2D2BXIXJwFU7xh2cM-2D3D-5FbdjmZp9IaNisjICK5TTzxUpjJXa6xjc-2D2BxI7MjhHK3KHJIVrqis1y50poHlQhm3K3LrQi1uHUpxxUiMxD-2D2BkKDvuWVO5FjWm3q2E8VuVZRH7ktdhaFZYGdpk1V-2D2BDeSwIYJYQGLOSRqlMnymOZYTnKdEhoAcmOJG0t3phmP-2D2FQKAHbgGzW6F6tFaXCWHrah4WOeRolntFrT78H-2D2Fcvov0EMDub7Igeg9F-2D2FqklO1qZbFZxhEizC6CCoxBR7Elf3-2D2Bw0l-2D2BpnQyC-2D2BUHx0kIrSXqnkAhKSXw-2D3D-2D3D&d=DwMFaQ&c=zLCWUg_Ni4SL_mp-quaZ_UmJPb_7_9EK0-KEth2irTw&r=XOUOgtKOuhNbelOsAgmJ_Be5v2_PJXvCY_JHxsQ_oBc&m=zOPRt_0EDWOT8kUwJAX61HpC8DdTjF-hzAyYYP4opJg&s=AOU0niQ9ibQKdm4LgP3hIndNh4-zmZ_lXSBe2ZhWKo4&e=>

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2D2Fzs61xucdpluOZUwvo0IDyhQ6jTScK8trBb53sqg4wYgUTykQzif5vnGgF9iW6UTRgA-2D3D-5FbdjmZp9IaNisjICK5TTzxUpjJXa6xjc-2D2BxI7MjhHK3KHJIVrqis1y50poHlQhm3K3LrQi1uHUpxxUiMxD-2D2BkKDvuWVO5FjWm3q2E8VuVZRH7ktdhaFZYGdpk1V-2D2BDeSwIYJuUs209jx-2D2BD4VH04oOWtPrsAOwB9H39YiQ7WOb4pJBZU0bxzKyqe3dDCKVvH9V1yGRK-2D2B0enVXf14UxxJrEEXN1LGfrkzQbxARAjXC8omcjsd1ssocMplUGDQDhs1C91CotvW9sWUc4C96sBo8hVZDXw-2D3D-2D3D&d=DwMFaQ&c=zLCWUg_Ni4SL_mp-quaZ_UmJPb_7_9EK0-KEth2irTw&r=XOUOgtKOuhNbelOsAgmJ_Be5v2_PJXvCY_JHxsQ_oBc&m=zOPRt_0EDWOT8kUwJAX61HpC8DdTjF-hzAyYYP4opJg&s=davr9bo-rR85mxmbYhnlNEvBwIDMyUcrszs7452S4tY&e=>

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From: McGinnis, Edward
To: McGinnis, Edward
Subject: 2017.06.06 - Memo - Update on the Toshiba-Westinghouse Situation_clean_NNSA_EM (002)
Date: Thursday, June 8, 2017 7:43:32 AM
Attachments: 2017.06.06 - Memo - Update on the Toshiba-Westinghouse Situation_clean_NNSA_EM (002).docx

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From: Aaron Thomas-DuRussel Weston
To: Moore, Karen; McGinnis, Edward; McRae, Ben; Capoferri, Anita
Cc: Skubel, Stephen; Meikle, Grace K. (CONTR)
Subject: RE: Westinghouse Bankruptcy
Date: Friday, December 22, 2017 11:28:37 AM

(b) (5)

-------- Original Message --------
From: "Moore, Karen" <Karen.Moore@hq.doe.gov>
Date: Fri, Dec 22, 2017, 11:20 AM
To: "McGinnis, Edward" <Edward.McGinnis@nuclear.energy.gov>, "McRae, Ben" <Ben.McRae@hq.doe.gov>, "Capoferri, Anita" <Anita.Capoferri@hq.doe.gov>, "Weston, Aaron Thomas-DuRussel" <aaron.weston@inl.gov>
CC: "Skubel, Stephen" <Stephen.Skubel@hq.doe.gov>, "Meikle, Grace K. (CONTR)" <Grace.Meikle@nuclear.energy.gov>
Subject: RE: Westinghouse Bankruptcy

LPO has also worked with JD Barnea with DOJ in New York on the Westinghouse bankruptcy as well as Christy Rivera with Norton Rose Fulbright – NRF is LPO's outside counsel on the Vogtle matter. Let me know if you would like their contact info. Karen

---

From: McGinnis, Edward
Sent: Friday, December 22, 2017 11:09 AM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Weston, Aaron Thomas-DuRussel <aaron.weston@inl.gov>; Moore, Karen <Karen.Moore@hq.doe.gov>
Cc: Skubel, Stephen <Stephen.Skubel@hq.doe.gov>; Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Subject: RE: Westinghouse Bankruptcy

One of my NE colleagues (Grace) who frequently works with GC on WEC bankruptcy updates informs me she has worked in the past with Marilyn Madarang, Marilyn.madarang@hq.doe.gov.

From: McGinnis, Edward
Sent: Friday, December 22, 2017 11:04 AM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Weston, Aaron Thomas-DuRussel <aaron.weston@inl.gov>; Moore, Karen <Karen.Moore@hq.doe.gov>
Cc: Skubel, Stephen <Stephen.Skubel@hq.doe.gov>
Subject: RE: Westinghouse Bankruptcy

And to the extent it is helpful, Karen Moore of LPO (an attorney) has been closely monitoring the Bankruptcy situation.

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From: McRae, Ben
Sent: Friday, December 22, 2017 9:54 AM
To: Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Weston, Aaron Thomas-DuRussel <aaron.weston@inl.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Skubel, Stephen <Stephen.Skubel@hq.doe.gov>
Subject: RE: Westinghouse Bankruptcy

I believe the right person would be Steve Skubel or someone from his office.

From: Capoferri, Anita
Sent: Friday, December 22, 2017 9:04 AM
To: Weston, Aaron Thomas-DuRussel <aaron.weston@inl.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Subject: RE: Westinghouse Bankruptcy

While I'd be happy to help, I believe Ben handled the Westinghouse bankruptcy issues. I'll touch base with him as soon as he gets in to arrange a call.

Thanks,
Anita

From: Weston, Aaron Thomas-DuRussel [mailto:aaron.weston@inl.gov]
Sent: Thursday, December 21, 2017 10:04 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Capoferri, Anita <Anita.Capoferri@hq.doe.gov>
Subject: Re: Westinghouse Bankruptcy

Anita, are you available for a quick phone call tomorrow morning? Thanks. -Aaron

On Thu, Dec 21, 2017 at 7:13 PM, McGinnis, Edward <Edward.McGinnis@nuclear.energy.gov> wrote:

> Anita, I believe you were involved in the Westinghouse bankruptcy issue early on as a GC rep. If not, can you tell me who that might be? Aaron Weston, (b) (6) , had a few GC questions.
>
> Thanks!
>
> Ed

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From: McGinnis, Edward
To: Varnasidis, Sophia
Cc: Richards, Andrew
Subject: RE: Westinghouse CEO request for Feb. 6.
Date: Tuesday, January 30, 2018 7:43:50 PM

Thanks

From: Varnasidis, Sophia <Sophia.Varnasidis@hq.doe.gov>
Date: Tuesday, Jan 30, 2018, 7:41 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: Westinghouse CEO request for Feb. 6.

Thanks, I let S3 know

From: McGinnis, Edward
Sent: Tuesday, January 30, 2018 6:56 PM
To: Varnasidis, Sophia <Sophia.Varnasidis@hq.doe.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: Westinghouse CEO request for Feb. 6.

FYI

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Tuesday, Jan 30, 2018, 6:55 PM
To: Habansky, Sarah <Sarah.Habansky@hq.doe.gov>
Cc: Moore, Janelle (CONTR) <Janelle.Moore@hq.doe.gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: Westinghouse CEO request for Feb. 6.

Sure thing, Sarah. Andrew will forward you our points when they are ready.

Very best,

Ed

From: Habansky, Sarah <Sarah.Habansky@hq.doe.gov>
Date: Tuesday, Jan 30, 2018, 6:47 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>

AMERICAN OVERSIGHT

Cc: Moore, Janelle (CONTR) <Janelle.Moore@hq.doe.gov>
Subject: FW: Westinghouse CEO request for Feb. 6.

Hi Ed - can you help us with talking points?

From: Gerdes, Stan <Stan.Gerdes@hq.doe.gov>
Date: Tuesday, Jan 30, 2018, 5:45 PM
To: Habansky, Sarah <Sarah.Habansky@hq.doe.gov>
Cc: Haddad, Zead <Zead.Haddad@hq.doe.gov>, Almstead, Deidre <Deidre.Almstead@hq.doe.gov>
Subject: FW: Westinghouse CEO request for Feb. 6.

Sarah,

Meeting w/ Westinghouse CEO for Feb 6th @ 3pm was just added to schedule…

S2 will be included.

Thanks,
Stan

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Tuesday, January 30, 2018 5:29 PM
To: Gerdes, Stan <Stan.Gerdes@hq.doe.gov>
Cc: Almstead, Deidre <Deidre.Almstead@hq.doe.gov>
Subject: RE: Westinghouse CEO request for Feb. 6.

Stan, Thank you very much. This is perfect and we confirm Feb 6 at 3:00 for a meeting at DOE. I will accompany Mr. Gutierrez to the meeting. Thank you! Jeanne Lopatto

---

From: Gerdes, Stan [mailto:Stan.Gerdes@hq.doe.gov]
Sent: Tuesday, January 30, 2018 2:52 PM
To: Lopatto, Jeanne T.
Cc: Almstead, Deidre
Subject: RE: Westinghouse CEO request for Feb. 6.

Hi Jeanne,

Secretary Perry has availability to meet on Tuesday, February 6th at 3:00pm – please let me know if this works for Mr. Gutierrez and then we can coordinate logistics.

Thank you,
Stan

Stan Gerdes
Office of the Secretary
Department of Energy

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202-586-5534

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Monday, January 29, 2018 8:51 AM
To: Gerdes, Stan <Stan.Gerdes@hq.doe.gov>
Cc: Doggett, Juanita <Juanita.Doggett@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; McCormack, Brian <Brian.Mccormack@hq.doe.gov>
Subject: Westinghouse CEO request for Feb. 6.

Mr. Gerdes, Westinghouse's President and CEO Jose Emeterio Gutierrez will be in DC on Feb. 6 and is requesting a meeting with Secretary Perry. The purpose of the meeting is to update the Secretary on Westinghouse's acquisition by Brookfield Business Partners, on the general status of the company, and to also discuss Westinghouse's opportunities in Saudi Arabia. Would it be possible for Mr. Gutierrez to meet with Sec. Perry on Feb. 6? Thank you for your consideration. Jeanne Lopatto.

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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From: McGinnis, Edward
To: Varnasidis, Sophia; Cade, Steven
Subject: FW: Westinghouse Paper
Date: Tuesday, March 6, 2018 11:12:56 PM
Attachments: Westinghouse - A World Leading Nuclear Company.docx

FYI

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Tuesday, Mar 06, 2018, 8:11 PM
To: McCormack, Brian <Brian.Mccormack@hq.doe.gov>
Subject: Westinghouse Paper

Brian, per our discussion, please see attached. Hope this hits the mark. If not, happy to adjust as needed.

Very best,

Ed
(b) (6)

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(b) (5)

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From: Wilmot, Dan
To: Hanzlik, Rayburn D.; Hynes, Shaylyn; Vande Beek, Dirk; Love, Kelly; Szymanski, Jessica; McCormack, Brian; Turenne, William; Wong, Emily
Subject: NNSA Equity
Date: Monday, April 1, 2019 3:20:55 PM
Attachments: NNSA Equity

Dan Wilmot
Deputy COS
Department of Energy
202-586-9712 Direct
(b) (6) Cell

NNSA Equity

NNSA Equity

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From: Michaels, K.C.
To: Lucas, John T.
Subject: (b) (5)
Date: Wednesday, February 8, 2017 9:51:40 AM

Will do.

-----Original Message-----
From: Lucas, John T.
Sent: Wednesday, February 08, 2017 9:50 AM
To: Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Subject: (b) (5)

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-----Original Message-----
From: Hoffman, Patricia
Sent: Wednesday, February 08, 2017 9:27 AM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Subject: FW: (b) (5)

Here you go...

-----Original Message-----
From: Richards, Andrew
Sent: Tuesday, February 07, 2017 4:14 PM
To: S1 Briefing <S1Briefing@Hq.Doe.Gov>; S2 Briefing <S2Briefing@Hq.Doe.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Gonzales Harsha, Marcos <Marcos.GonzalesHarsha@hq.doe.gov>; Abbey, Tristan <Tristan.Abbey@hq.doe.gov>; Cohen, Adam <Adam.Cohen@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Greene, William <BGreene@hq.doe.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>; Hakes, Laurie (CONTR) <Laurie.Hakes@Hq.Doe.Gov>
Subject: (b) (5)

Good afternoon,

(b) (5)

Andrew Richards

AMERICAN OVERSIGHT

From: Lucas, John T.
To: Michaels, K.C.
Subject: (b) (5)
Date: Wednesday, February 8, 2017 9:50:00 AM
Attachments: (b) (5)
State Equity

(b) (5)

-----Original Message-----
From: Hoffman, Patricia
Sent: Wednesday, February 08, 2017 9:27 AM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Subject: FW: (b) (5)

Here you go...

-----Original Message-----
From: Richards, Andrew
Sent: Tuesday, February 07, 2017 4:14 PM
To: S1 Briefing <S1Briefing@Hq.Doe.Gov>; S2 Briefing <S2Briefing@Hq.Doe.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Gonzales Harsha, Marcos <Marcos.GonzalesHarsha@hq.doe.gov>; Abbey, Tristan <Tristan.Abbey@hq.doe.gov>; Cohen, Adam <Adam.Cohen@hq.doe.gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Greene, William <BGreene@hq.doe.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>; Hakes, Laurie (CONTR) <Laurie.Hakes@Hq.Doe.Gov>
Subject: (b) (5)

Good afternoon,

(b) (5)

Andrew Richards

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Department of Energy
Washington, DC 20585

MEMORANDUM FOR THE ACTING SECRETARY

(b) (5)

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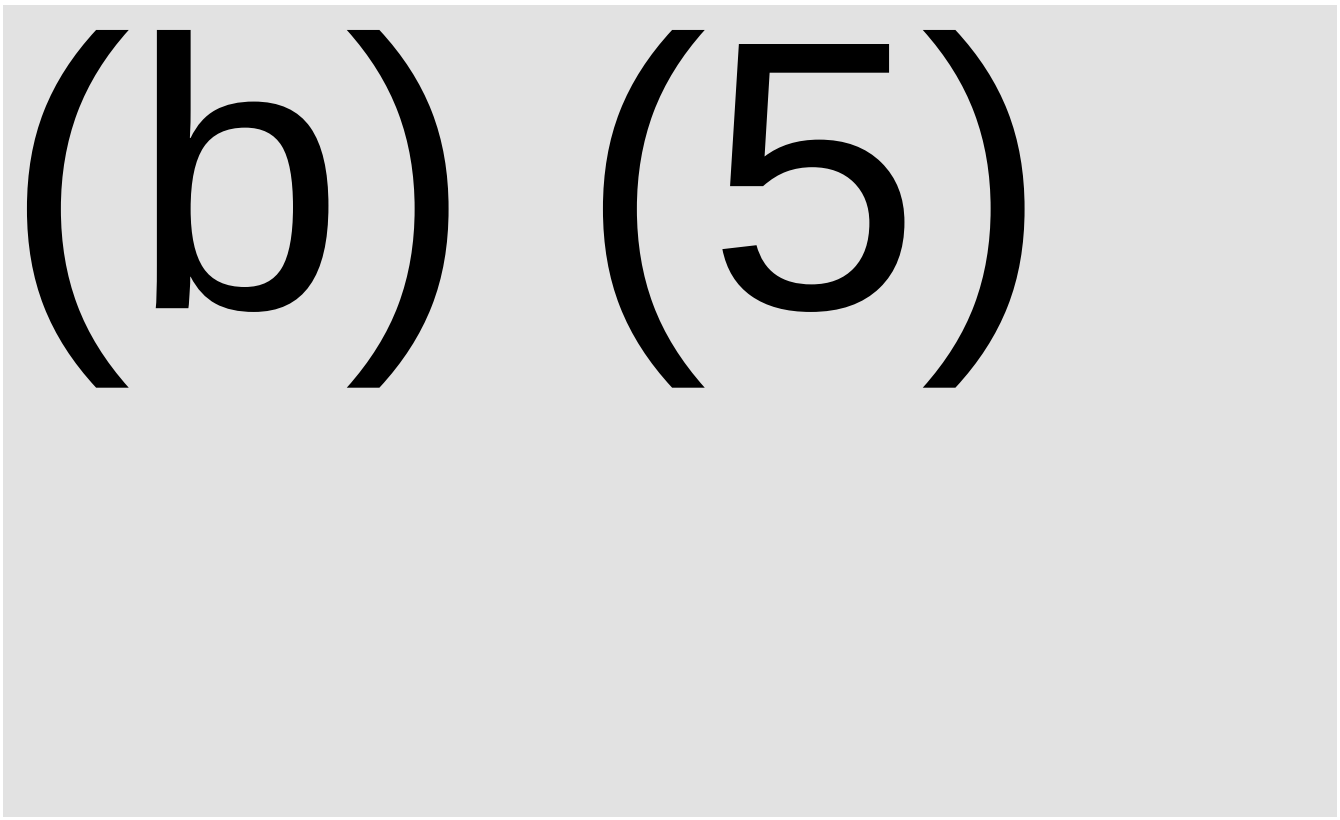
Printed with soy ink on recycled paper



AMERICAN OVERSIGHT

State Equity

AMERICAN OVERSIGHT

State Equity

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: Jaworowski, Suzanne; Fisher, Travis
Subject: FW: Toshiba letters
Date: Monday, March 13, 2017 8:24:05 PM
Attachments: FW For your review by COB today Thurs 39 NE input to IA memo for S1 Mtg with METI Minister Seko.msg

One other for your info

From: Furstenau, Raymond (HQ)
Sent: Monday, March 13, 2017 5:38:52 PM
To: McGinnis, Edward
Subject: FW: Toshiba letters

Ed:
Related to the note you cc'd me.

Ray

From: Furstenau, Raymond (HQ)
Sent: Monday, March 13, 2017 3:27 PM
To: Cohen, Adam <Adam.Cohen@hq.doe.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: Toshiba letters

Adam:
(b) (5)

(b) (5)
I have attached a briefing memo being prepared by IA with input from NE that discusses this in more detail.

Thanks.
Ray

From: Cohen, Adam
Sent: Monday, March 13, 2017 2:53 PM
To: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: Toshiba letters

Ray,

FYI – not sure if there is any action on this yet, but at the very least, I wanted to give you a heads up.

AMERICAN OVERSIGHT

(b) (5)

Adam

From: Hoffman, Patricia
Sent: Monday, March 13, 2017 2:02 PM
To: Cohen, Adam <Adam.Cohen@hq.doe.gov>
Subject: FW: Toshiba letters

Can you please handle this one. Thanks pat.

Patricia Hoffman
Acting UnderSecretary Science and Energy
(202) 586-0505 (U/S Science and Energy)
Acting Assistant Secretary Office of Electricity Delivery and Energy Reliability
(202) 586-6074 (OE phone)
(b) (6) (cell)

Executive Assistant – UnderSecretary Science and Energy
Laurie Hakes
Laurie.Hakes@hq.doe.gov
(202) 586-0505

Executive Assistant- Office of Electricity Delivery and Energy Reliability
Vivian Swisher
Vivian.swisher@hq.doe.gov
(202) 586-9002
(b) (6)

(please contact Laurie and Vivian for all meeting and scheduling requests)

From: McCormack, Brian
Sent: Monday, March 13, 2017 2:02 PM
To: Davenport, Shari <Shari.Davenport@hq.doe.gov>; Urbanas, Elizabeth <Elizabeth.Urbanas@Hq.Doe.Gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>
Cc: Wilmot, Dan <Dan.Wilmot@hq.doe.gov>; Griffith, Wells <Wells.Griffith@hq.doe.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Subject: FW: Toshiba letters

Pat, Beth and Shari,

Attached are the letters I mentioned in this morning's meeting.

AMERICAN OVERSIGHT

Please let me know if there is DOE background or position on this issue.

Thanks,
Brian

AMERICAN OVERSIGHT

From: Richards, Andrew
To: Furstenau, Raymond (HQ)
Subject: FW: For your review by COB today Thurs 3/9: NE input to IA memo for S1 Mtg with METI Minister Seko
Date: Friday, March 10, 2017 8:43:41 AM
Attachments: 2017-03-09 S1-METI Seko Memo_NE6.docx
Att 2_S1-METI Seko_NE6.docx

Can you take a look at the attached memo to S1 from IA on an upcoming METI meeting with Minister Seko? (b) (5)

-----Original Message-----
From: Meikle, Grace K. (CONTR)
Sent: Thursday, March 09, 2017 10:06 AM
To: Benahmed, Farah (CONTR) <Farah.Benahmed@nuclear.energy.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: For your review by COB today Thurs 3/9: NE input to IA memo for S1 Mtg with METI Minister Seko

Good morning Farah and Andrew,

I received an IA request for NE input to a briefing memo to the Secretary for his March 16 meeting with Japan's METI Minister Seko. METI has said that Minister Seko will raise U.S. LNG exports and civil nuclear cooperation. It will largely be a courtesy call, so there will not be time for many topics. I've attached the memo and talking points (b) (5) IA provided this format for memos & TPs.

If possible, can you please provide NE-1 clearance by COB today, Thursday 3/9.

Thank you,

Grace Meikle
Japan Desk Officer
Office of International Nuclear Energy Policy & Cooperation

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S1 BRIEFING

EVENT: **Meeting with Mr. Hiroshige SEKO, Minister of Economy, Trade and Industry of Japan**

DATE: March 16, 2017

TIME: TBD

LOCATION: Secretary's conference room

PURPOSE: The Embassy of Japan has requested this meeting in order for Minister Seko to exchange greetings and introduce himself to the Secretary. The Ministry of Economy, Trade and Industry (METI) is DOE's main counterpart in the Japanese Government and would be a key player in the initiative proposed by Prime Minister Abe to expand Japanese investment in U.S. infrastructure to promote energy production and trade.

This meeting will be a courtesy call by Minister Seko. The purpose of Minister Seko's visit is to begin building a relationship with the Secretary. The minister will exchange greetings with the Secretary and discuss the future direction of U.S.-Japan energy cooperation, including U.S. exports of liquefied natural gas (LNG) and civil nuclear cooperation.

PRESS: Closed

LOGISTICS: TBD

ATTENDEES: SRP
Japan Delegation *(See Attachment 3)*

BACKGROUND:

Prime Minister Abe Visit: (b) (5)

Ministry of Economy, Trade and Industry (METI) Background: METI [Phonetic: MEH-TEE] is Japan's lead agency for economic policy and trade relations. Support for Japanese industry and ensuring the country has adequate energy resources are core objectives of METI's mission. Japan is the world's third-largest oil consumer and net importer after the United States and China, and the third-largest importer of coal behind Indian and China. Japan is the world's largest importer of liquefied natural gas (LNG). Prior to the 2011 Fukushima nuclear accident, Japan was the world's third-largest nuclear power generator, with nuclear power supplying about 27 percent of Japan's electricity. With three reactors currently in operation, nuclear power makes up only about one percent of Japan's energy supply mix.

In response to Japan's energy security concerns, METI actively supports Japanese industry in investing in overseas upstream oil and gas resources, including in the United States. METI also plays a key role in promoting exports of energy-sector capital equipment, including highly efficient coal-fired power plants. While Japan's domestic nuclear industry is still recovering from the Fukushima accident, METI actively promotes efforts by Japanese companies to export nuclear power reactors. Domestically, METI is a major funder of applied energy research and development (R&D) and demonstrations of near-

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commercial technologies, including renewable energy systems, energy efficiency, demand management, energy storage, and carbon capture, utilization and storage (CCUS). METI is working with DOE, or seeking greater collaboration in several of these areas. DOE, the Department of Commerce and the U.S. Trade Representative are METI's main U.S. Government counterparts. Minister Seko will also meet with Secretary Ross on March 16.

Liquefied Natural Gas (LNG) Exports:

(b) (5)

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(b) (5)

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MEETING/ REQUESTED BY: Embassy of Korea

ATTACHMENTS:

1. Clearance page
2. Talking Points
3. Japan delegation list
4. Minister Seko
5. LNG

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ATTACHMENT 2: TALKING POINTS

(b) (5)

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From: McGinnis, Edward
To: Jaworowski, Suzanne
Subject: RE: Toshiba letters
Date: Monday, March 13, 2017 9:16:57 PM

My pleasure! By the way, I passed on your warmest regards to the nuclear industry executives that I met with today. Good top-leave discussion about the importance of nuclear energy in America. NEI/Carol Berrigan, who put the event on for NEI, said she would be sure to invite you for future events like this. The group consisted mostly of nuclear suppliers.

Very best,

Ed

From: Jaworowski, Suzanne
Sent: Monday, March 13, 2017 9:04:23 PM
To: McGinnis, Edward
Subject: RE: Toshiba letters

Thanks for keeping me in the loop.

Suzie

From: McGinnis, Edward
Sent: Monday, March 13, 2017 8:24:04 PM
To: Jaworowski, Suzanne; Fisher, Travis
Subject: FW: Toshiba letters

One other for your info

From: Furstenau, Raymond (HQ)
Sent: Monday, March 13, 2017 5:38:52 PM
To: McGinnis, Edward
Subject: FW: Toshiba letters

Ed:
Related to the note you cc'd me.

Ray

From: Furstenau, Raymond (HQ)
Sent: Monday, March 13, 2017 3:27 PM
To: Cohen, Adam <Adam.Cohen@hq.doe.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: Toshiba letters

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Adam:
(b) (5)

(b) (5)
I have attached a briefing memo being prepared by IA with input from NE that discusses this in more detail.

Thanks.
Ray

From: Cohen, Adam
Sent: Monday, March 13, 2017 2:53 PM
To: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: Toshiba letters

Ray,

FYI – not sure if there is any action on this yet, but at the very least, I wanted to give you a heads up.
(b) (5)

Adam

From: Hoffman, Patricia
Sent: Monday, March 13, 2017 2:02 PM
To: Cohen, Adam <Adam.Cohen@hq.doe.gov>
Subject: FW: Toshiba letters

Can you please handle this one. Thanks pat.

Patricia Hoffman
Acting UnderSecretary Science and Energy
(202) 586-0505 (U/S Science and Energy)
Acting Assistant Secretary Office of Electricity Delivery and Energy Reliability
(202) 586-6074 (OE phone)
(b) (6) (cell)

Executive Assistant – UnderSecretary Science and Energy
Laurie Hakes
Laurie.Hakes@hq.doe.gov

AMERICAN OVERSIGHT

(202) 586-0505

Executive Assistant- Office of Electricity Delivery and Energy Reliability
Vivian Swisher
Vivian.swisher@hq.doe.gov
(202) 586-9002
(b) (6)

(please contact Laurie and Vivian for all meeting and scheduling requests)

From: McCormack, Brian
Sent: Monday, March 13, 2017 2:02 PM
To: Davenport, Shari <Shari.Davenport@hq.doe.gov>; Urbanas, Elizabeth <Elizabeth.Urbanas@Hq.Doe.Gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>
Cc: Wilmot, Dan <Dan.Wilmot@hq.doe.gov>; Griffith, Wells <Wells.Griffith@hq.doe.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Subject: FW: Toshiba letters

Pat, Beth and Shari,

Attached are the letters I mentioned in this morning's meeting.

Please let me know if there is DOE background or position on this issue.

Thanks,
Brian

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: McCormack, Brian; Hoffman, Patricia; Jaworowski, Suzanne; Davenport, Shari; Urbanas, Elizabeth
Cc: Wilmot, Dan; Griffith, Wells; Fisher, Travis; Dannenfelser, Marty; Lockwood, Andrea; Fetterly, Brett
Subject: RE: S1 Talking Points and Background Information on Toshiba/Westinghouse
Date: Tuesday, March 14, 2017 7:31:08 AM

Thanks Brian. I was just about to send, but I see Pat has already kindly provided both the DOE and State memos a few minutes ago with you on distro. Standing by to provide anything else needed.

Best,

Ed

From: McCormack, Brian
Sent: Tuesday, March 14, 2017 6:52:05 AM
To: McGinnis, Edward; Hoffman, Patricia; Jaworowski, Suzanne; Davenport, Shari; Urbanas, Elizabeth
Cc: Wilmot, Dan; Griffith, Wells; Fisher, Travis; Dannenfelser, Marty; Lockwood, Andrea; Fetterly, Brett
Subject: RE: S1 Talking Points and Background Information on Toshiba/Westinghouse

Ed,

Please resend the briefing memo to the Acting and the State memo you mentioned. Thanks.

Brian

From: McGinnis, Edward
Sent: Monday, March 13, 2017 9:12 PM
To: Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; McCormack, Brian <Brian.Mccormack@hq.doe.gov>; Davenport, Shari <Shari.Davenport@hq.doe.gov>; Urbanas, Elizabeth <Elizabeth.Urbanas@Hq.Doe.Gov>
Cc: Wilmot, Dan <Dan.Wilmot@hq.doe.gov>; Griffith, Wells <Wells.Griffith@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Subject: S1 Talking Points and Background Information on Toshiba/Westinghouse

Folks, below are S1 points that reflect (b) (5)

(b) (5)

Lastly, just a reminder that NE sent a Feb 9 background memo to the DOE Acting Secretary

AMERICAN OVERSIGHT

on Westinghouse's situation at the time, (b) (5) The memo also attached a State Department Situational Report on the same issue that was provided by State's Acting Under Secretary for International Security and Nonproliferation to Secretary Tillerson. Just wanted to remind folks of this. Happy to provide copies if folks want to see again.

Best,

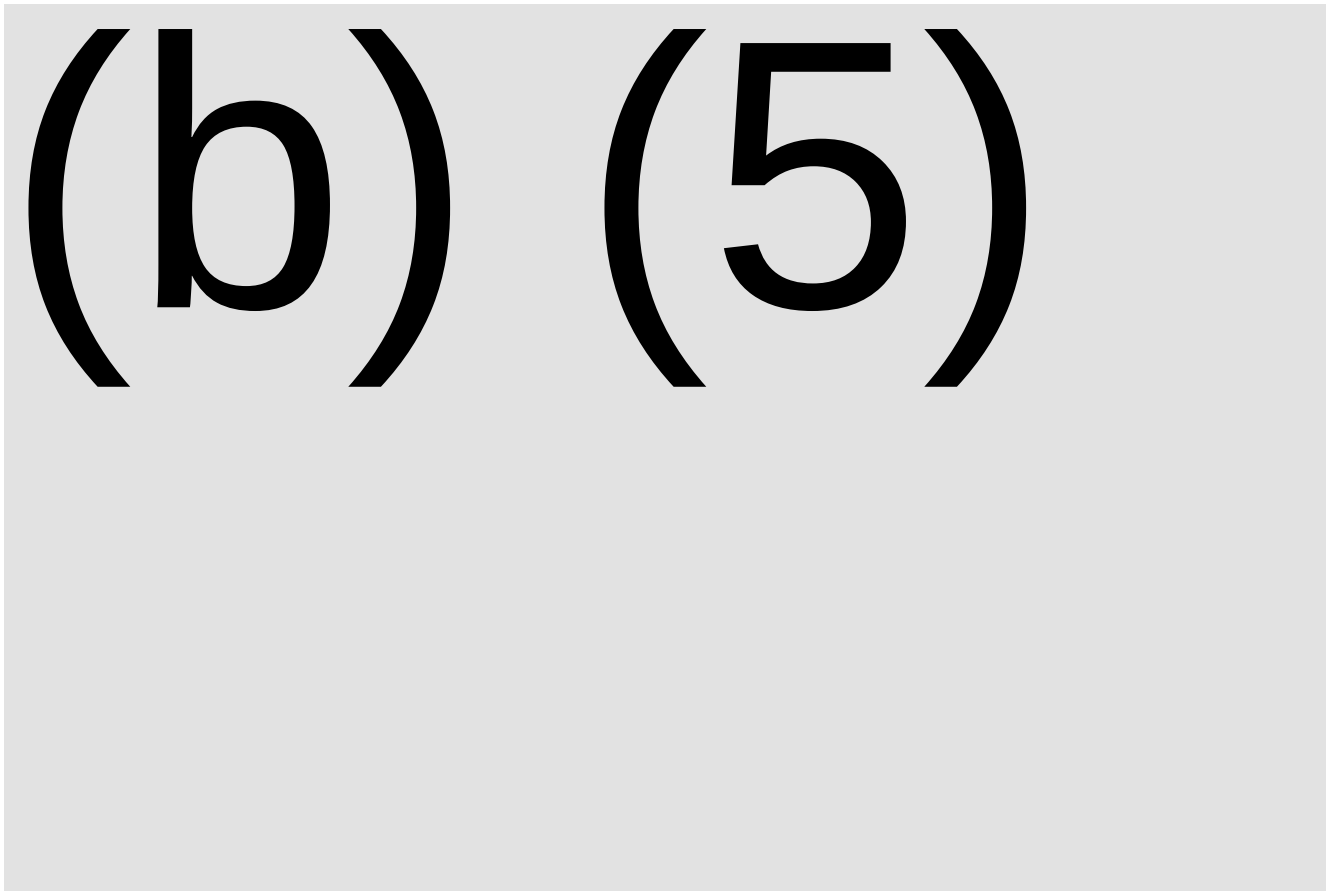
Ed
(b) (6) (cell)

==========

TALKING POINTS:
(b) (5)

BACKGROUND:
(b) (5)

AMERICAN OVERSIGHT



From: Hoffman, Patricia
Sent: Monday, March 13, 2017 5:46:38 PM
To: McGinnis, Edward; Jaworowski, Suzanne; McCormack, Brian; Davenport, Shari; Urbanas, Elizabeth
Cc: Wilmot, Dan; Griffith, Wells; Fisher, Travis; Dannenfelser, Marty; Lockwood, Andrea; Fetterly, Brett
Subject: RE: Toshiba letters

Ed will work with the loan guarantee program to develop cleared talking points by tomorrow morning. Pat.

Patricia Hoffman
Acting UnderSecretary Science and Energy
(202) 586-0505 (U/S Science and Energy)
Acting Assistant Secretary Office of Electricity Delivery and Energy Reliability
(202) 586-6074 (OE phone)
(b) (6) (cell)

Executive Assistant – UnderSecretary Science and Energy
Laurie Hakes
Laurie.Hakes@hq.doe.gov
(202) 586-0505

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Executive Assistant- Office of Electricity Delivery and Energy Reliability
Vivian Swisher
Vivian.swisher@hq.doe.gov
(202) 586-9002
(b) (6)

(please contact Laurie and Vivian for all meeting and scheduling requests)

From: McGinnis, Edward
Sent: Monday, March 13, 2017 4:26 PM
To: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; McCormack, Brian <Brian.Mccormack@hq.doe.gov>; Davenport, Shari <Shari.Davenport@hq.doe.gov>; Urbanas, Elizabeth <Elizabeth.Urbanas@Hq.Doe.Gov>; Hoffman, Patricia <Pat.Hoffman@hq.doe.gov>
Cc: Wilmot, Dan <Dan.Wilmot@hq.doe.gov>; Griffith, Wells <Wells.Griffith@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>; Dannenfelser, Marty <Marty.Dannenfelser@hq.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Subject: RE: Toshiba letters

Thanks Suzie. BRIAN: Happy to provide background. Would be much appreciated if someone can forward me the attached letters. They didn't come through on the email below. My cell is (b) (6) . Or I can call you, if you'd like.

Very best,

Ed

From: Jaworowski, Suzanne
Sent: Monday, March 13, 2017 3:43:47 PM
To: McCormack, Brian; Davenport, Shari; Urbanas, Elizabeth; Hoffman, Patricia
Cc: Wilmot, Dan; Griffith, Wells; Fisher, Travis; Dannenfelser, Marty; Lockwood, Andrea; Fetterly, Brett; McGinnis, Edward
Subject: RE: Toshiba letters

Hi Brian,

(b) (6)

However, I am copying Ed McGinnis on this email. And can provide DOE background from the nuclear perspective. He is the DAS for International Nuclear Policy & Cooperation.

Please feel free to call me or Ed with questions.

Suzie

From: McCormack, Brian
Sent: Monday, March 13, 2017 2:01:41 PM
To: Davenport, Shari; Urbanas, Elizabeth; Hoffman, Patricia

AMERICAN OVERSIGHT

Cc: Wilmot, Dan; Griffith, Wells; Jaworowski, Suzanne; Fisher, Travis; Dannenfelser, Marty; Lockwood, Andrea; Fetterly, Brett
Subject: FW: Toshiba letters

Pat, Beth and Shari,

Attached are the letters I mentioned in this morning's meeting.

Please let me know if there is DOE background or position on this issue.

Thanks,
Brian

AMERICAN OVERSIGHT

From: Moore, Karen
To: McGinnis, Edward
Subject: State Equity
Date: Wednesday, March 15, 2017 10:18:05 AM

Ed, thanks for being understanding about the delay in getting back to you. Yesterday was a tough day to get this done but I didn't want you to think that I was ignoring your request. Karen

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 14, 2017 11:35 AM
To: Moore, Karen <Karen.Moore@hq.doe.gov>; Matzkin-Bridger, Ross (Embassy Tokyo) <Matzkin-Bridgerr@state.gov>; Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov>
Cc: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>; Kania, Edward <Edward.Kania@hq.doe.gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Reed, Michael <Michael.Reed@hq.doe.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: State Equity

Thanks, Karen. I very much agree with you!

-----Original Message-----
From: Moore, Karen
Sent: Tuesday, March 14, 2017 11:30 AM
To: Matzkin-Bridger, Ross (Embassy Tokyo) <Matzkin-Bridgerr@state.gov>; Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>; Kania, Edward <Edward.Kania@hq.doe.gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Reed, Michael <Michael.Reed@hq.doe.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: State Equity

Ross, we are meeting in Atlanta on Vogtle today and have not had a chance to do a final turn on the talking points. Please do not forward any talking points to anything until LPO Front Office has signed off and I will let you know when that happens. Thanks. Karen



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State Equity

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: March 10, 2017 at 2:41:58 PM EST
To: Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>, Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>, Popa, Markus <Markus.Popa@Hq.Doe.Gov>, Moore, Karen <Karen.Moore@hq.doe.gov>, Kania, Edward <Edward.Kania@hq.doe.gov>, Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>, Matzkin-Bridger, Ross <Matzkin-BridgerR@state.gov>, Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Reed, Michael <Michael.Reed@hq.doe.gov>
Subject: State Equity

Thanks, Tom! Good to hear.

From: Pollog, Thomas
Sent: Friday, March 10, 2017 1:47 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>; Matzkin-Bridger, Ross (Embassy Tokyo) <Matzkin-Bridgerr@state.gov>; Reed, Michael <Michael.Reed@hq.doe.gov>; Popa, Markus <Markus.Popa@Hq.Doe.Gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Kania, Edward <Edward.Kania@hq.doe.gov>; Moore, Karen <Karen.Moore@hq.doe.gov>
Subject: RE: Toshiba-Westinghouse and DOE Loan Guarantee

Ed,

We met with Ross Matzkin-Bridger, the DOE representative at the US Embassy in Tokyo, yesterday concerning the same topic. He happened to be in town and contacted us about the same topic. He is acquainted with Ben Weiner (see below - email originator from US Embassy in Tokyo). Ross will share the information with Ben that we conveyed to him yesterday.

AMERICAN OVERSIGHT

From: McGinnis, Edward
Sent: Thursday, March 09, 2017 11:48 AM
To: Pollog, Thomas <Thomas.Pollog@Hq.Doe.Gov<mailto:Thomas.Pollog@Hq.Doe.Gov>>; Popa, Markus <Markus.Popa@Hq.Doe.Gov<mailto:Markus.Popa@Hq.Doe.Gov>>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov<mailto:MICHELLE.SCOTT@nuclear.energy.gov>>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov<mailto:Suzanne.Jaworowski@hq.doe.gov>>; Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov<mailto:Grace.Meikle@Nuclear.Energy.Gov>>
Subject: State Equity

Tom/Markus,

Please see below from US Embassy Tokyo. Not sure if you all have already begun getting questions about the guarantee or not. Do you have any standard TPs you would like the USG/Embassy to use? If not, do you have a suggestion as to how we should reply to this incoming below?

Best,

Ed

State Equity

AMERICAN OVERSIGHT

State Equity

AMERICAN OVERSIGHT

From: Lenhard, Joseph
To: McRae, Ben; Reilly, Thomas
Cc: Lucas, John T.; Brown, Michael
Subject: RE: TOSHIBA.docx
Date: Tuesday, March 21, 2017 1:58:19 PM

Ben,

(b) (5)

Thanks,

Joe

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:44 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Lenhard, Joseph <JOSEPH.LENHARD@hq.doe.gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: TOSHIBA.docx

(b) (5)

AMERICAN OVERSIGHT

Ed is working on a tight deadline and needs comments by 2pm.

Thanks, Ben

-----Original Message-----
From: McRae, Ben
Sent: Tuesday, March 21, 2017 11:36 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE: TOSHIBA.docx

Ed,

Good start. Here are my initial comments.

I have circulated to those in GC who have more expertise on particular matters and will get their comments to you as soon as possible.

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 11:14 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: TOSHIBA.docx

PLEASE USE THIS LATEST DRAFT FOR ANY FURTHER INPUT. This reflects additional input I just received.

Thanks,

Ed

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 10:12 AM
To: Considine, Michael <Michael.Considine@hq.doe.gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: TOSHIBA.docx

Thanks, Mike! RICH AND BEN: If you have not yet made changes, would appreciate it if you could work from this version that has Mike's input.

Best,

Ed

-----Original Message-----
From: Considine, Michael
Sent: Tuesday, March 21, 2017 10:01 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>

AMERICAN OVERSIGHT

Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: RE: TOSHIBA.docx

Please see my track changes attached.

Michael S. Considine
Committee on Foreign Investment in the United States (CFIUS)
Office of International Affairs
U.S. Department of Energy
IA-1 Room 7G-021A (Limited Area)
1000 Independence Ave., SW
Washington, DC 20585
Tel: 202-586-8218 (Unclassified)
(b) (6)

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, March 21, 2017 9:51 AM
To: Goorevich, Richard <Richard.Goorevich@nnsa.doe.gov>; Considine, Michael <Michael.Considine@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>
Subject: TOSHIBA.docx

Ok, folks. Here is the draft per our 5pm meeting yesterday with Brian, Dan and Wells. Please see the specific UPPER CASE BOLD PARENTHETICAL notes where I ask (respectfully!) each of you to please review the referenced sections, ensure they are correct, and that the sections state what you believe as the experts should be included. Please use track changes and send back to me as soon as can but not later than 2pm if possible. I have attempted to get this in as close a final draft as possible in order to save time. Please also review the entire document and let me know if you have any comments or proposed edits.

I can be reached at (b) (6) or my email at any time today.

Thank you VERY much,

Ed

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From: Jaworowski, Suzanne
To: Scott, Michelle; McGinnis, Edward; Johnson, Shane; Larson, Seth; Richards, Andrew
Cc: Furstenau, Raymond (HQ)
Subject: RE: PLS REVIEW: Vogtle-Westinghouse QA draft
Date: Friday, March 24, 2017 5:07:52 PM

Seth,

That approach sounds good. Once we have the basic framework I am happy to provide political POV.

I'll be in the office Monday morning.

Thanks.

Suzie

From: Scott, Michelle
Sent: Friday, March 24, 2017 3:02:16 PM
To: McGinnis, Edward; Johnson, Shane; Larson, Seth; Richards, Andrew
Cc: Jaworowski, Suzanne; Furstenau, Raymond (HQ)
Subject: RE: PLS REVIEW: Vogtle-Westinghouse QA draft

Sure. Will do.

Seth,

Can you send me the attachment?

Thanks

From: McGinnis, Edward
Sent: Friday, March 24, 2017 2:59 PM
To: Johnson, Shane <SHANE.JOHNSON@nuclear.energy.gov>; Larson, Seth <Seth.Larson@nuclear.energy.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: RE: PLS REVIEW: Vogtle-Westinghouse QA draft

Thanks. Happy to discuss. Also, Michelle can help pinch hit for me.

From: Johnson, Shane
Sent: Friday, March 24, 2017 1:28 PM
To: Larson, Seth <Seth.Larson@nuclear.energy.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; McGinnis, Edward

AMERICAN OVERSIGHT

<Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: RE: PLS REVIEW: Vogtle-Westinghouse QA draft

Okay. Ed has the most comprehensive understanding of the current situation and possible impacts on the four US units under construction. I'll pull together some info on possible impacts to the existing fleet.

Shane

Sent with Good (www.good.com)

From: Larson, Seth
Sent: Friday, March 24, 2017 12:00:42 PM
To: Richards, Andrew; McGinnis, Edward; Johnson, Shane
Cc: Jaworowski, Suzanne; Furstenau, Raymond (HQ)
Subject: RE: PLS REVIEW: Vogtle-Westinghouse QA draft

Ok. Shane and Ed, if you can take a first cut I will be happy to review your draft from a comms perspective. They want to have this done Wednesday, so if you can get something to me on Monday that should provide plenty of time.

From: Richards, Andrew
Sent: Friday, March 24, 2017 11:41:12 AM
To: McGinnis, Edward; Larson, Seth; Johnson, Shane
Cc: Jaworowski, Suzanne; Furstenau, Raymond (HQ)
Subject: RE: PLS REVIEW: Vogtle-Westinghouse QA draft

I would suggest Shane and Ed take the first cut at answering that question ("What does the Westinghouse situation mean for the U.S. nuclear industry?), and then we can run it through Suzie and Ray.

From: Larson, Seth
Sent: Friday, March 24, 2017 11:16 AM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: PLS REVIEW: Vogtle-Westinghouse QA draft

Andrew, see below and attached. (b) (5)

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From: Mahar, Brian (CONTR)
Sent: Friday, March 24, 2017 10:34:21 AM
To: Davenport, Shari; Peery, Kathy; Habansky, Sarah; Geisler, Lindsey; Larson, Seth
Cc: Kim, Dong; Schneir, Sydney; Fisher, Travis
Subject: PLS REVIEW: Vogtle-Westinghouse QA draft

Given today's news that Westinghouse appears likely to file bankruptcy next week, I wanted to get this circulating upstairs. Per Dong's good suggestion, I had reached out to Ed McGinnis for some input on the "what does this mean for the future of the U.S. industry" question, but he appears to be pretty tied up, so I'm leaving that still open. But the rest of the QA reflects LPO's input on the Vogtle impacts.

I'm including Travis from an LPO perspective, but I leave it to your own judgments on which appointees your offices think need eyes on this.

If news reports indicate that Westinghouse may declare on March 31, then I think it would be fair to try to get this finalized by COB March 29, which gives us more than 3 business days. I am happy to collect and combine edits and work with Lindsey to finalize.

Brian

Brian Mahar
Loan Programs Office
U.S. Department of Energy
Communications & Public Affairs
Contractor
Brian.Mahar@hq.doe.gov
Office: 202-287-6574
Mobile: (b) (6)

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: Jaworowski, Suzanne
Subject: FW: Southern Visit to Tokyo -- Latest from DOE Attache
Date: Monday, March 27, 2017 8:57:05 AM

Let me know if you think I should add Dan or Wells. With the number of emails going back and forth and the sensitivities, I don't want to overwhelm their emails not spoke out more than what Brian ones as we are working this all through.

-----Original Message-----
From: McGinnis, Edward
Sent: Monday, March 27, 2017 8:52 AM
To: McCormack, Brian <Brian.Mccormack@hq.doe.gov>
Cc: Suzanne Jaworoski (suzanne.jaworowski@hq.doe.gov) <suzanne.jaworowski@hq.doe.gov>
Subject: Southern Visit to Tokyo -- Latest from DOE Attache

Brian,

(b) (5)

(b) (5)

Best,

Ed

State Equity

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State Equity

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From: Jaworowski, Suzanne
To: Jaworowski, Suzanne
Subject: FW: S1 Meeting with the CEO of Westinghouse tomorrow APR 5 @3:30
Date: Tuesday, April 4, 2017 9:50:41 PM
Attachments: Att 4 Westinghouse Bios.docx

From: Scott, Michelle
Sent: Tuesday, April 4, 2017 6:23:09 PM
To: Fetterly, Brett; McGinnis, Edward
Cc: Jaworowski, Suzanne
Subject: RE: S1 Meeting with the CEO of Westinghouse tomorrow APR 5 @3:30

Brett,

Here you go.

-----Original Message-----
From: Fetterly, Brett
Sent: Tuesday, April 04, 2017 6:19 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: S1 Meeting with the CEO of Westinghouse tomorrow APR 5 @3:30

Bios didn't make it into the attachments. Michelle do you happen to have those?

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, April 04, 2017 6:13 PM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: S1 Meeting with the CEO of Westinghouse tomorrow APR 5 @3:30

Brett, feel free to call me at any time if you need at (b) (6) . Was quite the challenge pulling all this together in the 4 hours approx. But, we got it to you! With the exception of the NNSA draft holder text that still needs GC review. A bit thanks for Michelle Scott for pulling this all together!!

Very best,

Ed

-----Original Message-----
From: Scott, Michelle
Sent: Tuesday, April 04, 2017 6:07 PM
To: Huizenga, David <David.Huizenga@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Hamilton, Rilla <Rilla.Hamilton@nnsa.doe.gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Urbanski, Andrew <Andrew.Urbanski@NNSA.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Fetterly, Brett <Brett.Fetterly@hq.doe.gov>

AMERICAN OVERSIGHT

Subject: RE: S1 Meeting with the CEO of Westinghouse tomorrow APR 5 @3:30

Brett,

Attached is the S1 memo, Tps, and other materials for Thursday meeting with WEC. NNSA will final their input in the morning.
Thanks
Michelle

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, April 04, 2017 12:19 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Huizenga, David <David.Huizenga@nnsa.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>
Subject: FW: S1 Meeting with the CEO of Westinghouse tomorrow APR 5 @3:30

Michelle and Sarah, regardless of when we have to have this ready, (b) (5)

Hopefully we will have until tomorrow. But until we hear otherwise, we need to work to the 5pm time-line today! Which means we have very little time. Please immediately let IA and NNSA know. For awareness, I am adding Andrea Lockwood, Dong Kim of LPO, and Kasia Dave Huizenga of NNSA.

ANDREA/DAVE/DK: It would be great if you could identify a POC and/or have input sent to Michelle Scott and Sarah Lennon. They will also make sure to send you all, or your POC's, the draft memo, though please also recognize we will not have much of a turn around -- particularly is the 5pm due time holds for today.

Best,

Ed

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, April 04, 2017 12:10 PM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Travis, Owen <Owen.Travis@NNSA.DOE.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>; Maddox, Mark <MRMaddox@hq.doe.gov>; Abbey, Tristan <Tristan.Abbey@hq.doe.gov>
Cc: Smith, Wayne D <Wayne.Smith@hq.doe.gov>; Gerdes, Stan <Stan.Gerdes@hq.doe.gov>; Lennon, Sarah (Sarah.Lennon@Nuclear.Energy.gov) <Sarah.Lennon@Nuclear.Energy.gov>; Michelle Scott (MICHELLE.SCOTT@nuclear.energy.gov) <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: S1 Meeting with the CEO of Westinghouse tomorrow APR 5 @3:30

Thanks, Brett. Roger all. NE will take the baton on this. Our leads, Sarah Lennon and Michelle Scott, will ensure to coordinate with IA and NNSA. NOTE: I just got off the phone with Westinghouse's VP for Gov Affairs, Jeanne Lapotto. She by happens stance said that Westinghouse/Jose Gutierrez confirmed with Stan in DOE Scheduling (according to her) for 3:30pm this Thursday, since Jose could not be here Wednesday/tomorrow. Can we confirm? And if Thursday, can we get a little bit more time?

AMERICAN OVERSIGHT

Very best,

Ed

-----Original Message-----
From: Fetterly, Brett
Sent: Tuesday, April 04, 2017 11:45 AM
To: Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Travis, Owen <Owen.Travis@NNSA.DOE.Gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Fisher, Travis <Travis.Fisher@hq.doe.gov>; Maddox, Mark <MRMaddox@hq.doe.gov>; Abbey, Tristan <Tristan.Abbey@hq.doe.gov>
Cc: Smith, Wayne D <Wayne.Smith@hq.doe.gov>; Gerdes, Stan <Stan.Gerdes@hq.doe.gov>
Subject: S1 Meeting with the CEO of Westinghouse tomorrow APR 5 @3:30
Importance: High

All,

Apologies for the late notice on this but I just got word that the CEO of Westinghouse, Jose Emeterio Gutierrez, will be meeting with S1 Tomorrow, APR 5, at 3:30pm in the S1 Conference Room.

NE should take the lead on compiling the briefing materials (background, bio, talking points, etc) that I will need by 5:00pm today. I believe the purpose of this meeting will be to touch base following recent events.

Please send materials to S1 Briefing and cc me. Stan will send out the calendar invite later today.

Thank you.

Best,
Brett

Brett J. Fetterly
U.S. Department of Energy
(202) 586-6431

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José Emeterio Gutiérrez
Interim President & CEO



José Emeterio Gutiérrez has been recently appointed Interim President and CEO of Westinghouse Electric Company following his position as Senior Vice President of the Westinghouse global Nuclear Fuel and Components Manufacturing organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and services to a global customer base.

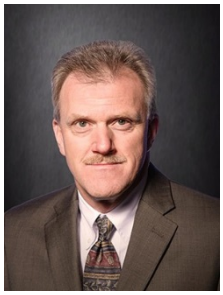
Prior to this role, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

He has been and continues to serve as chairman, CEO and president of several Westinghouse subsidiaries across the globe. Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States. He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st Green Belt.

David A. Howell, P.E.
President – Americas Region



David Howell brings over 34 years of strategic nuclear industry leadership to his role as president, Americas Region.

Appointed to the position in March 2017, Howell leads Westinghouse customer relationship management and all commercial responsibilities for the core business of Westinghouse in the Americas Region including account team development and deployment. He oversees the company's global commercial and marketing organization, government and international affairs, global security and facilities management. Most recently, Howell was senior vice president, Operating Plant Business, where he held executive operational responsibility for all products and services related to growth and enhancement of the company's instrumentation and control (I&C) business, outage support and plant

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modification services. He also oversaw engineering products and nuclear parts for pressurized water reactors and boiling water reactors worldwide.

In a previous role as Westinghouse vice president of Global Field Services, Howell had complete executive oversight of the company's outage support, advanced products, nuclear power plant component services and customer training globally.

Howell has held engineering and field operations management positions for the company's business lines related to reactor vessel and steam generator inspection, and repair for pressurized water reactor nuclear steam supply systems. He also was a lead design engineer for remote reactor repair projects.

He holds six patents for innovative equipment serving this market. Howell is a black belt in Six Sigma and Lean processes. He also is a certified Customer 1st Leader and was the deployment director for that program within the Westinghouse Nuclear Fuel business, where he drove implementation throughout that business.

A registered professional engineer in Pennsylvania, Howell has a bachelor's degree in mechanical engineering from Geneva College in Beaver Falls, Pennsylvania (USA). He is a member of the Geneva College Advanced Board, and is an elder in the Presbyterian Church in America.

Howell also is a member of the Westinghouse Operating Committee and a past member of the Westinghouse Board of Directors. He is also a member of several advisory committees and steering groups sponsored by the Nuclear Energy Institute.

Jeanne T. Lopatto
Vice President, Government & International Affairs



Jeanne T. Lopatto, Vice President of Government and International Affairs at Westinghouse Electric Company, heads the firm's Washington, D.C. office and is the primary point of contact between the company and the U.S. Government, as well as with Washington, D.C.-based foreign embassies. In this capacity, she plays a crucial role in formulating Westinghouse's policy strategies and advises decision makers on issues important to Westinghouse.

Before joining Westinghouse, Jeanne was the Special Assistant for International and Federal Affairs to Nils Diaz, Chairman of the U.S. Nuclear Regulatory Commission. From 2001 to 2005, she was the Director of Public Affairs at the U.S. Department of Energy, where she served as the official spokesperson for Energy Secretary Spencer Abraham and directed the public relations programs for DOE. Before that she worked on Capitol Hill for Sen. Orrin G. Hatch (R-UT) in a variety of media relations positions, including Press Secretary for the U.S. Senate Judiciary Committee.

A native of Pennsylvania, Ms. Lopatto is a graduate of Dickinson College, in Carlisle, PA.

AMERICAN OVERSIGHT

From: Fryer, Sharwyn (CONTR)
To: McGinnis, Edward; Herczeg, John
Cc: Gillespie, Mary; Jaworowski, Suzanne
Subject: RE: Request for a Briefing on the Westinghouse Bankruptcy --- NEAC FC Subcommittee
Date: Friday, May 5, 2017 2:45:44 PM

Hi John/Mary,

Will a call in number be sent along with an official invite?

Thanks,
Shar

From: McGinnis, Edward
Sent: Friday, May 05, 2017 2:12 PM
To: Herczeg, John <JOHN.HERCZEG@nuclear.energy.gov>; Fryer, Sharwyn (CONTR) <Sharwyn.Fryer@nuclear.energy.gov>
Cc: Gillespie, Mary <Mary.Gillespie@Nuclear.Energy.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: RE: Request for a Briefing on the Westinghouse Bankruptcy --- NEAC FC Subcommittee

Ok thanks. Happy to do so. SHARWYN: please put on my calendar.

Thanks,

Ed

From: Herczeg, John
Sent: Friday, May 5, 2017 2:06:46 PM
To: McGinnis, Edward
Cc: Gillespie, Mary
Subject: RE: Request for a Briefing on the Westinghouse Bankruptcy --- NEAC FC Subcommittee

Thanks, Ed. The NEAC sub-committee meeting is close to the public.

The form is freeform - you just have to give us you wisdom!

We have a speaker phone in the room A-410) so we can call you directly, or you can call us. I want to make sure the line is secure.

Appreciate your willingness to accommodate this last minute request.

John

-----Original Message-----
From: McGinnis, Edward
Sent: Friday, May 05, 2017 1:19 PM
To: Herczeg, John <JOHN.HERCZEG@nuclear.energy.gov>

AMERICAN OVERSIGHT

Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Gillespie, Mary <Mary.Gillespie@Nuclear.Energy.gov>; Golub, Sal <sal.golub@nuclear.energy.gov>; Rova, Robert <Robert.Rova@nuclear.energy.gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Fryer, Sharwyn (CONTR) <Sharwyn.Fryer@nuclear.energy.gov>
Subject: RE: Request for a Briefing on the Westinghouse Bankruptcy --- NEAC FC Subcommittee

Thanks, John. Is this a public meeting or closed? Happy to speak on this, but want to make sure I know the format/context. 12 noon can work for me.

Best,

Ed

-----Original Message-----
From: Herczeg, John
Sent: Friday, May 05, 2017 1:01 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Gillespie, Mary <Mary.Gillespie@Nuclear.Energy.gov>; Golub, Sal <sal.golub@nuclear.energy.gov>; Rova, Robert <Robert.Rova@nuclear.energy.gov>
Subject: Request for a Briefing on the Westinghouse Bankruptcy --- NEAC FC Subcommittee

Ed,

I have a request from Al Sattelberger, the Chair of the Nuclear Technology Research & Development Sub-committee, for a short briefing on the Westinghouse bankruptcy.

Would you be willing and available to call-into the NEAC sub-committee meeting on May 10th, between 12:00 and 1:00PM? The meeting will be held in the Germantown facility, room A-410. If this time does not work for you, we could arrange another time.

Also, you are welcome to come in person, we just thought a call-in would save you time.

Best Regards,

John H

AMERICAN OVERSIGHT

From: Jaworowski, Suzanne
To: McGinnis, Edward; Scott, Michelle
Subject: RE: time line for Saudi
Date: Saturday, October 28, 2017 1:02:49 PM

Thanks.

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Saturday, Oct 28, 2017, 12:56 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: FW: time line for Saudi

Thanks very much, Nice work. Michelle. See my UPPER CASE COMMENTS. Please resend when done. Thanks again! Ed

(b) (5)

(b) (5)

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(b) (5)

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(b) (5)

(b) (5)

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Saturday, Oct 28, 2017, 8:08 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: RE: time line for Saudi

Ed,

Attached is the document you requested for the KSA RFI/CD process as I understand it based on the information I have gleaned. Also, I have listed every USG/US to date that I'm aware of. The document ended up being 3 page as oppose to a one pager.

AMERICAN OVERSIGHT

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: McGinnis, Edward
Sent: Friday, October 27, 2017 1:46 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: RE: time line for Saudi

Thanks!

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Friday, Oct 27, 2017, 1:30 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: RE: time line for Saudi

I will work up something based on the the checklist of engagement that I provided to IA earlier this week. (b) (6) , so I will send something out to you by this evening.

Also to note, most of the information related to the 123 agreement is on the other system so I will be very limited as what I can add with regard to that topic, that what you meant by "123 reference".

Michelle

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>

AMERICAN OVERSIGHT

Date: Friday, Oct 27, 2017, 12:31 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>
Subject: time line for Saudi

Michelle, can you put together a 1 page time-line of the key KSA upcoming procurement and USG/industry actions? For the LNPP RFI and for the Roundtable, including when Part 810s need to be done for both the LNPP and the other as well as 123 reference? Please send to me preferably by COB today. If you cannot, I will ask Sarah to do.

Thanks,

Ed

Ed McGinnis
Assistant Secretary (Acting) for Nuclear Energy
U.S. Department of Energy
Washington, D.C. 20585
202 586-2240 (office/main)
(b) (6) (cell)

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: McCormack, Brian
Cc: Wilmot, Dan; Colgary, James; Jaworowski, Suzanne; Griffith, Wells
Subject: Saudi Meetings and IAEA Nuclear Energy Ministerial
Date: Tuesday, October 31, 2017 5:58:13 PM
Attachments: 2017.10.25 - Saudi Response to DOC.pdf

Brian,

On my way back from Abu Dhabi. Trip was very productive. I am headed back with a letter hand-delivered to me by Saudi K.A.CARE's Chief Nuclear Energy Officer in charge of the commercial tender-related actions. (b) (5)

The Saudis had two formal meetings with us— one just gov-to-gov and the other a combined US gov/US industry meeting (Westinghouse, GE, NuScale, Bechtel, NEI and others). (b) (5)

Happy to provide additional info if you'd like.

Ed

From: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Date: Monday, Oct 30, 2017, 9:46 PM
To: ian.steff@trade.org <ian.steff@trade.org>, McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: 'aaron.weston@inl.gov' <aaron.weston@inl.gov>, Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Devin Horne <Devin.Horne@trade.gov>, 'Jonathan Chesebro' <Jonathan.Chesebro@trade.gov>, Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: Signed Response from SA to DOC

Hi Ian,

AMERICAN OVERSIGHT

Attached the original copy of the Saudi's response to the Secretary Ross's letter. The letter was personally handed to Ed McGinnis during a very successful government-to-government bilateral meeting with Dr. Dr. Maher Alodan this afternoon at the IAEA Ministerial Conference in Abu Dhabi, UAE. The Saudi's also met with US Industry representatives, who are very excited at the proposal for a meeting in December, and are eager to get started.

Andrew Richards
Deputy Chief of Staff
Office of Nuclear Energy
US Department of Energy

AMERICAN OVERSIGHT

Trade/Commerce Equity

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Trade/Commerce Equity

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AMERICAN OVERSIGHT

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Trade/Commerce Equity

AMERICAN OVERSIGHT

Trade/Commerce Equity

AMERICAN OVERSIGHT

From: Reilly, Thomas
To: Brown, Michael; Lucas, John T.; Keokuk, Therese; Fellow, Laura
Subject: FW: URGENT - NNSA Equity
Date: Wednesday, March 21, 2018 2:28:13 PM
Attachments: NNSA Equity

Hi All,

(b) (5)

Thanks.

Tom

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

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NNSA Equity

AMERICAN OVERSIGHT

From: Buchan, Samuel
To: Vincent, Kenneth; Lennon, Sarah; Sandoli, Robert
Cc: Maddox, Mark; Jaworowski, Suzanne; Fitzsimmons, Alexander; Lockwood, Andrea
Subject: OPAB Assessment MONDAY
Date: Friday, April 6, 2018 6:17:09 PM
Attachments: IO FY2018-19 programming (Rev01) ALL (002) IA32 jl.docx

---

All,

Attached are IA's edits to the OPAB needs assessment for awareness prior to submission. Feel free to add to this document prior to final submission.

Let me know if you have any questions.

Best,

Samuel Buchan, Special Advisor
U.S. Department of Energy, Office of International Affairs
O: +1.202.586.0222
M: +(b) (6)

AMERICAN OVERSIGHT

The key duties described below are in addition to the baseline critical functions that each overseas office are expected to perform. While some of these critical functions may differ slightly between office locations, duties such as supporting U.S. companies and products overseas, supporting U.S. delegations, and daily and weekly reporting are expected to be routinely performed by each office.

Office	C/H/I	KEY DUTIES	STAKEHOLDERS	STRENGTHS & WEAKNESSES OF COVERAGE	OPPORTUNITIES FOR GAIN	Consideration of New Issues, Opportunities or Threats Not Covered by the existing OP Program:	Program Measures

(b) (5)

AMERICAN OVERSIGHT

Office	C/H/I	KEY DUTIES	STAKEHOLDERS	STRENGTHS & WEAKNESSES OF COVERAGE	OPPORTUNITIES FOR GAIN	Consideration of New Issues, Opportunities or Threats Not Covered by the existing OP Program:	Program Measures

(b) (5)

AMERICAN OVERSIGHT

Office	C/H/I	KEY DUTIES	STAKEHOLDERS	STRENGTHS & WEAKNESSES OF COVERAGE	OPPORTUNITIES FOR GAIN	Consideration of New Issues, Opportunities or Threats Not Covered by the existing OP Program:	Program Measures

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

From: Miotla, Dennis
To: Jaworowski, Suzanne
Subject: FW: Support for NPI from DOE-NE through INL
Date: Thursday, October 4, 2018 8:24:52 AM

(b) (5)

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Wednesday, Oct 03, 2018, 5:18 PM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Cc: Miotla, Dennis <Dennis.Miotla@nuclear.energy.gov>
Subject: FW: Support for NPI from DOE-NE through INL

I believe we were working on this. Can someone remind me?

Thanks,

Ed

From: Peddicord, Kenneth L [mailto:k-peddicord@tamu.edu]
Sent: Wednesday, October 03, 2018 5:15 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Nate McDonald <nmcdonald@co.matagorda.tx.us>; Peddicord, Kenneth L <k-peddicord@tamu.edu>
Subject: [EXTERNAL] Support for NPI from DOE-NE through INL

Ed:

We've discussed this several times in the past but it is key now, in my opinion, to move forward with this collaboration. To revisit it again, the approach would be for NE to allocate $400,000 to INL to support the international initiatives in collaboration with NPI. Of the $400K, $200K would be allotted to NPI to help fund the many ways we are engaged on behalf of the USG and Team USA on international civil nuclear initiatives. The time is critical now for a number of reasons, but perhaps foremost is the action on FEED B with K.A.CARE. On Tuesday of last week I participated in the workshop with Westinghouse, Fluor, Exelon and Ex-Im Bank in Riyadh. As you well know, human capacity development is at the top level of priorities for K.A.CARE in moving forward with their nuclear program. I conveyed to the group the U.S. capabilities not only at the universities but at the community college level, industry and companies in the nuclear supply chain, and the opportunities at out national labs and especially INL as outlined by Amy Lientz on the earlier visit this year. Incidentally, I was the only one among our group that made sure the INL programs were mentioned. If we are to compete successfully in KSA, the quality of the U.S. capability in human capacity development must be at the forefront of our presentations to K.A.CARE. Human capacity development is the area in which there is absolutely no international competition that can match us. In addition, regarding the proposal for the upcoming Study Tour for K.A.CARE that is being put together by Carol Berrigan, NPI,. Texas A&M and Texas in the form of

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Matagorda County figure prominently with three days on the agenda. This is the same for bott the two week and the three week versions. I think this appropriately reflects K.A.CARE's emphasis on human resource development. We will also include some elements of our research function since it was mentioned by Kim Pringle last week that K.A.CARE will be resuming its research mission at the direction of the new president.

The idea of collaboration of DOE-NE, INL and NPI has been under discussion for sometime. Judge McDonald brought it up with you in January, 2017 when he was in DC and met with you. He was under the impression that this was a done deal. I corresponded with Sarah Lennon again in March of this year. However, there hasn't been any action, at least nothing that has reached us. I've also discussed it with Mark Peters and Tom Weir and they are supportive of this action. Now that period of continuing resolutions are past and budget increases in place, it is time to move forward with this initiative and wrap it up in a timely way. It is even more relevant because for several countries, the NPI engagement with them is often the only time they hear about or have contact with USG initiatives, Team USA and the U.S. nuclear supply chain.

The proposed NPI/INL collaboration would link and highlight INL activities with the NPI international programs and would connect Team USA and the U. S. nuclear supply chain to NPI initiatives. The project manager at INL would be Amy Lientz. As noted in the envisioned approach, NE would support this collaboration through an overall budget to INL of $400,000 with $200,000 remaining at the Lab to support its program management function and its participation in the collaboration, and $200,000 being subcontracted to NPI through the Texas A&M Engineering Experiment Station (TEES), a component of the Texas A&M University System, to support staff time, travel and programmatic costs for the activities listed below.

The proposed NPI/INL collaboration would involve the following activities:

(1) NPI would incorporate INL into the programs that are carried out by NPI. INL would present on its various programs, including research in advanced reactor technology and small modular reactors that are of high interest to many of these countries. The INL participation in these programs could either be in person or through video links, as appropriate.

(2) NPI and INL will highlight the breadth of opportunities available at INL for students, researchers and professionals to become engaged with INL programs such as summer schools and student internships, teacher programs, collaborative research projects and opportunities for researchers to participate in joint programs.

(3) NPI will participate in overseas missions conducted by INL and DOE-NE such as the recent Civil Nuclear Roundtable in Riyadh and other similar initiatives to promote the interests of the USG and the U.S. nuclear supply chain in international markets.

(4) In its meetings and interaction with foreign delegation and groups, both multilateral and bilateral, NPI will highlight the INL capabilities in the field of nuclear, and the opportunities for countries and individuals to participate. NPI will encourage countries to take advantage of these opportunities.

Working with Mark and Amy, we would be able to implement these activities and build a strong collaboration. It would fill an existing gap and strengthen the vital message of U.S. capabilities in nuclear. I think it would be immensely valuable and provide a significant benefit to advancing U.S. interests in the field of civil nuclear energy.

I have copied Nate this to be see if my recollections are any different than his. This is also a good time to implement this action before any administrative changes.

Thanks. Looking forward to hearing back from you.

Lee

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****
This message does not originate from a known Department of Energy email system.
Use caution if this message contains attachments, links or requests for information.

****

AMERICAN OVERSIGHT

From: Mike Hewitt
To: McGinnis, Edward; Jaworowski, Suzanne; Stu Solomon
Subject: Toshiba"s troubled Westinghouse may be strategic fit for China or South Korea | The Japan Times
Date: Tuesday, March 14, 2017 12:40:07 PM

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http://www.japantimes.co.jp/news/2017/03/14/business/corporate-business/toshibas-troubled-westinghouse-may-strategic-fit-china-south-korea/#.WMgbh9XSBKQ.gmail

We are working hard to get in front of this and return to US control. This is moving very fast and it has become a key component of the IP3 strategy with KSA

Mike

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Reilly, Thomas; Markus, Stephen
Cc: McGinnis, Edward; Jaworowski, Suzanne; Stern, Zachary; Hallock, Andrew; Goodman, Jac; Richards, Andrew; Diamond, Bruce; Lockwood, Andrea; Kim, Dong; Cestari, Kenneth; Phillips, Anne L; Mendelsohn, Kasia
Subject: FW: Version to Clear with DOE-GC
Date: Wednesday, April 5, 2017 8:14:19 AM
Attachments: (b) (5)
(b) (5)

Tom and Stephen,

(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle

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S|I BRIEFING

AMERICAN OVERSIGHT

From: Markus, Stephen
To: Scott, Michelle
Cc: McGinnis, Edward; Jaworowski, Suzanne; Stern, Zachary; Hallock, Andrew; Goodman, Jac; Richards, Andrew; Diamond, Bruce; Lockwood, Andrea; Kim, Dong; Cestari, Kenneth; Phillips, Anne L; Mendelsohn, Kasia; Reilly, Thomas
Subject: RE: Version to Clear with DOE-GC
Date: Wednesday, April 5, 2017 10:02:31 AM
Attachments: (b) (5)

Michelle-

On quick review, attached are my few suggested nits and one comment on the last talking point. Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

My

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Thank you
Michelle

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AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

From: Gillespie, Mary
To: Scott, Michelle
Cc: Herczeg, John; McCaughey, Bill; Goldner, Frank; Richards, Andrew
Subject: FW: Version to Clear with DOE-GC
Date: Wednesday, April 5, 2017 11:01:36 AM
Attachments: (b) (5)

Michelle,

Per our conversation at 10am, I appreciate very much your including in the attached S-1 memo the following input and talking point.

(b) (5)

Talking Point: (b) (5)

Thank you,

Mary

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 10:19 AM
To: Gillespie, Mary <Mary.Gillespie@Nuclear.Energy.gov>
Subject: FW: Version to Clear with DOE-GC

AMERICAN OVERSIGHT

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Suzanne Jaworowski (Suzanne.Jaworowski@hq.doe.gov) <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Kasia.Mendelsohn@nnsa.doe.gov
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

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Michelle

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DOE-19-0315, 19-0316, 19-0318-A-002188

(b) (5)

SI BRIEFING

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(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Reilly, Thomas; Goodman, Jac; Markus, Stephen
Cc: McGinnis, Edward; Jaworowski, Suzanne; Stern, Zachary; Hallock, Andrew; Richards, Andrew; Diamond, Bruce; Lockwood, Andrea; Kim, Dong; Cestari, Kenneth; Phillips, Anne L; Mendelsohn, Kasia
Subject: RE: Version to Clear with DOE-GC
Date: Wednesday, April 5, 2017 12:08:22 PM
Attachments: (b) (5)

Att 4 Westinghouse Bios.docx

Tom,

Attached for your routing trough GC are the following:

S1 memo
S1 TPs
USG approved Adv cases for WEC
Status of Part 810 cases
WEC Bios

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

Michelle – as we discussed - we are standing by for the language. We will then run this through our process for other offices within GC will need to see as well.

Thanks.

Tom

NNSA Equity

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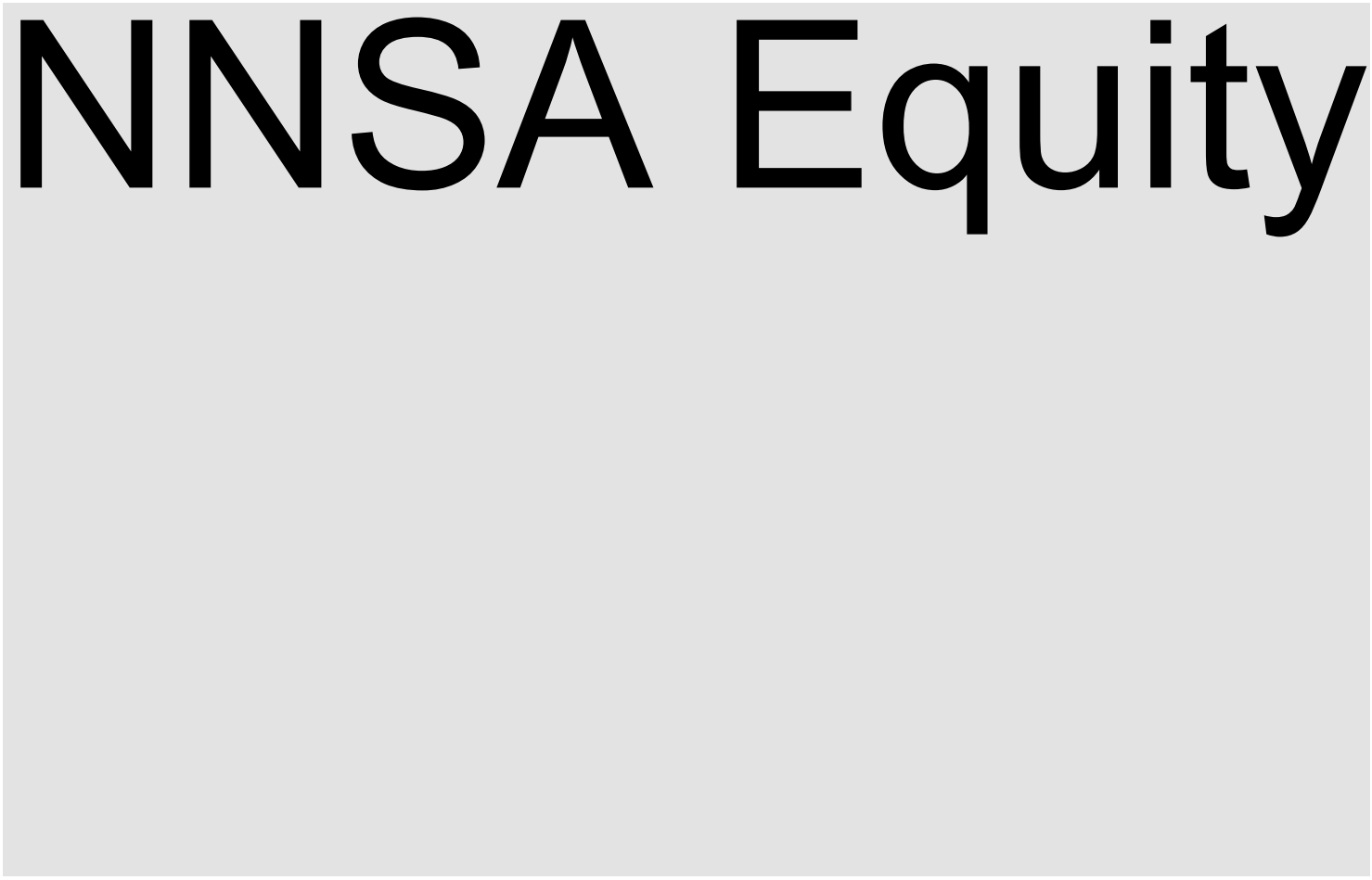

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

On quick review, attached are my few suggested nits and one comment on the last talking point. Please let me know if you have any questions.

Thanks,
Stephen

AMERICAN OVERSIGHT

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

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Thank you
Michelle

NNSA Equity

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(b) (5)

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DOE-19-0315, 19-0316, 19-0318-A-002200

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AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-002206

José Emeterio Gutiérrez
Interim President & CEO



José Emeterio Gutiérrez has been recently appointed Interim President and CEO of Westinghouse Electric Company following his position as Senior Vice President of the Westinghouse global Nuclear Fuel and Components Manufacturing organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and services to a global customer base.

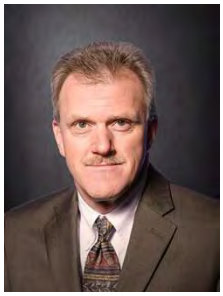
Prior to this role, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

He has been and continues to serve as chairman, CEO and president of several Westinghouse subsidiaries across the globe. Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States. He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st Green Belt.

David A. Howell, P.E.
President – Americas Region



David Howell brings over 34 years of strategic nuclear industry leadership to his role as president, Americas Region.

Appointed to the position in March 2017, Howell leads Westinghouse customer relationship management and all commercial responsibilities for the core business of Westinghouse in the Americas Region including account team development and deployment. He oversees the company's global commercial and marketing organization, government and international affairs, global security and facilities management. Most recently, Howell was senior vice president, Operating Plant Business, where he held executive operational responsibility for all products and services related to growth and enhancement of the company's instrumentation and control (I&C) business, outage support and plant

AMERICAN OVERSIGHT

modification services. He also oversaw engineering products and nuclear parts for pressurized water reactors and boiling water reactors worldwide.

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Jeanne T. Lopatto
Vice President, Government & International Affairs



Jeanne T. Lopatto, Vice President of Government and International Affairs at Westinghouse Electric Company, heads the firm's Washington, D.C. office and is the primary point of contact between the company and the U.S. Government, as well as with Washington, D.C.-based foreign embassies. In this capacity, she plays a crucial role in formulating Westinghouse's policy strategies and advises decision makers on issues important to Westinghouse.

Before joining Westinghouse, Jeanne was the Special Assistant for International and Federal Affairs to Nils Diaz, Chairman of the U.S. Nuclear Regulatory Commission. From 2001 to 2005, she was the Director of Public Affairs at the U.S. Department of Energy, where she served as the official spokesperson for Energy Secretary Spencer Abraham and directed the public relations programs for DOE. Before that she worked on Capitol Hill for Sen. Orrin G. Hatch (R-UT) in a variety of media relations positions, including Press Secretary for the U.S. Senate Judiciary Committee.

A native of Pennsylvania, Ms. Lopatto is a graduate of Dickinson College, in Carlisle, PA.

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Reilly, Thomas; Goodman, Jac; Markus, Stephen; McRae, Ben
Cc: McGinnis, Edward; Jaworowski, Suzanne; Stern, Zachary; Hallock, Andrew; Richards, Andrew; Diamond, Bruce; Lockwood, Andrea; Kim, Dong; Cestari, Kenneth; Phillips, Anne L; Mendelsohn, Kasia
Subject: RE: Version to Clear with DOE-GC
Date: Wednesday, April 5, 2017 12:17:32 PM
Attachments: (b) (5)

Tom, Stephan and Ben,

Apologies, please use this version of the memo for your review.

Thank you
Michelle

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom,

Attached for your routing trough GC are the following:

S1 memo
S1 TPs
USG approved Adv cases for WEC
Status of Part 810 cases
WEC Bios

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock,

AMERICAN OVERSIGHT

Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

Michelle – as we discussed - we are standing by for the language. We will then run this through our process for other offices within GC will need to see as well.

Thanks.

Tom

NNSA Equity

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne

AMERICAN OVERSIGHT

<Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

On quick review, attached are my few suggested nits and one comment on the last talking point. Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

AMERICAN OVERSIGHT

(b) (5) . My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle



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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

From: Scott, Michelle
To: Richards, Andrew
Subject: FW: Version to Clear with DOE-GC
Date: Wednesday, April 5, 2017 12:30:16 PM
Attachments: (b) (5)

Att 4 Westinghouse Bios.docx

Apologies that I did not add you to the original email.

.

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:29 PM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Hallock, Andrew (Andrew.Hallock@nnsa.doe.gov) <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Ben.McRae@hq.doe.gov
Subject: RE: Version to Clear with DOE-GC
Importance: High

Brett,

Attached are the latest versions of the all the attachments for tomorrow S1 meeting with WEC officials. (b) (5)

Best
Michelle

From: Fetterly, Brett
Sent: Wednesday, April 05, 2017 10:41 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Hi Michelle,
That sounds great. Thank you!

Brett

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 10:26 AM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>

AMERICAN OVERSIGHT

Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Brett,

I will have some updates to the memo and tps, so I'm targeting getting finals to you by 11:30ish.

Best
Michelle

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 10:24 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Stephen.

Just spoke with Jac, I'm waiting to receive all new edits on the memo from either Jac or Andy which will include your comments as well. I shooting to get the updated memo to Brett by 11:30ish.

Best
Michelle

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
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Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

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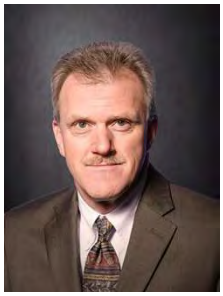
President – Americas Region



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AMERICAN OVERSIGHT

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Jeanne T. Lopatto
Vice President, Government & International Affairs



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A native of Pennsylvania, Ms. Lopatto is a graduate of Dickinson College, in Carlisle, PA.

AMERICAN OVERSIGHT

From: Richards, Andrew
To: Gillespie, Mary
Subject: FW: Version to Clear with DOE-GC
Date: Wednesday, April 5, 2017 12:36:00 PM
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Final.docx
2017-04-05 S1 Westinghouse Meeting TPs - Final.docx
Att 3 - 2017-04-04 Active Westinghouse Advocacy Center Cases.xlsx
Attachment Part 810s for WEC.docx
Att 4 Westinghouse Bios.docx

Attached is the final memo.

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:30 PM
To: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: Version to Clear with DOE-GC
Importance: High

Apologies that I did not add you to the original email.
.

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:29 PM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Hallock, Andrew (Andrew.Hallock@nnsa.doe.gov) <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Ben.McRae@hq.doe.gov
Subject: RE: Version to Clear with DOE-GC
Importance: High

Brett,

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Best
Michelle

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Sent: Wednesday, April 05, 2017 10:41 AM
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Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

AMERICAN OVERSIGHT

Hi Michelle,
That sounds great. Thank you!

Brett

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 10:26 AM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Brett,

I will have some updates to the memo and tps, so I'm targeting getting finals to you by 11:30ish.

Best
Michelle

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 10:24 AM
To: Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Stephen.

Just spoke with Jac, I'm waiting to receive all new edits on the memo from either Jac or Andy which will include your comments as well. I shooting to get the updated memo to Brett by 11:30ish.

Best
Michelle

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM

AMERICAN OVERSIGHT

To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

On quick review, attached are my few suggested nits and one comment on the last talking point. Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

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(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle

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DOE GC

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: March 6, 2017
TIME: 3:30-4:00
LOCATION: S1 Conference Room

PURPOSE: This meeting is with Jose Gutierrez, the interim President and CEO of Westinghouse Company (WEC). Mr. Gutierrez requested this meeting to discuss the impact of WEC's March 29 filing for Chapter 11 bankruptcy filing and reorganization plan, provide an overview of WEC's business, and discuss issues relevant to DOE and its mission. You recently had an initial call with Mr. Gutierrez last week regarding WEC's filing of Chapter 11. Also to note, Mr. Gutierrez will meet with Department of Commerce Secretary Ross at 9:30 to discuss the same issues prior to your meeting.

PRESS: **Closed**

LOGISTICS: **N/A**

ATTENDEES:

Westinghouse:

- Mr. Gutierrez, Interim President and CEO
- David Howell, President, Americas Region,
- Jeanne Lopatto, Vice President, Government and International Affairs.

DOE:

- Suzanne Jaworowski, Chief of Staff for Nuclear Energy
- Ed McGinnis, Deputy Secretary for International Nuclear Energy Policy & Cooperation, NE
- Other NE staff (TBD)
- NNSA Staff (TBD)
  - Kelly Cummins, Uranium Program Manager (NA-19)
  - Kasia Mendelsohn, Assistant Deputy Administrator for Nonproliferation and Arms Control (NA-24)
- Andrea Lockwood, Acting Assistant Secretary for International Affairs (IA)

BACKGROUND:

Westinghouse Chapter 11 Filing. On March 29, WEC—a prominent builder of nuclear power plants and nuclear fuel supplier—filed a petition of relief under Chapter 11 with the U.S. Bankruptcy Court of New York seeking bankruptcy protection as a result of significant financial losses. The bankruptcy process will consist of two stages: The first 30 days, with a possible extension, will be used to restructure and renegotiate the Vogtle and Summer nuclear power plant contracts. The second period will focus on finding a new owner for WEC since Toshiba Corporation, - the current parent, has noted it

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does not intend to maintain ownership of WEC. The fate of WEC impacts U.S. economic and national security for several reasons: 1) WEC is the only American nuclear company currently building commercial nuclear reactors, both in the United States and globally, and supplies fuel to one-third of the world's reactors, including the majority in the United States; 2) U.S. leadership in the nuclear power industry helps set the highest safety and security standards in nuclear power globally and supports tens of thousands of American jobs (WEC has 14,000 employees and supports 10,000 jobs at two nuclear facility construction sites in the United States); 3) WEC performs vital work for the Departments of Defense and Energy related to U.S. national security and nonproliferation missions.

Defense Program Work with WesDyne. Defense Programs (NA-10) relies on WesDyne, a wholly owned subsidiary of WEC, to meet tritium requirements of the nuclear stockpile through three key activities:

- Fabrication and assembly of Tritium Producing Burnable Absorber Rods (TPBARs) that are irradiated in Tennessee Valley Authority (TVA) reactors to support tritium production
- Production of Low-Enriched Uranium (LEU) fuel, including downblending of Highly Enriched (HEU) to LEU, for TVA reactors that irradiate TPBARs
- Design of reactor cores for TVA Watts Bar Units 1 and 2 to increase tritium production to meet stockpile requirements

Note: WesDyne is not one of the Westinghouse subsidiaries included in the Westinghouse bankruptcy filings.

Key Global Markets: WEC maintains nuclear reactor design, engineering, manufacturing, research and development, and nuclear services-related facilities at 70 locations in 17 countries worldwide. WEC's primary new reactor design is the AP1000, an advanced, passively-safe pressurized water reactor. There are no AP1000 units in operation, however there are four units under construction in China in addition to the four units in the United States. The first reactor unit is expected to start operations in China by the end of this year, and the remaining three Chinese units entering service by 2020. The four U.S. AP1000 units under construction are expected to begin operation by the 2021 timeframe unless the contract renegotiations are not successful under the Chapter 11 reorganization. WEC is also in negotiations on a contract to build six AP1000s in India and is negotiating contracts in the UK for the NuGen project to build three reactor units at the Moorside site. Toshiba currently has a 60% stake in the NuGen project with French utility Engie holding a 40% stake. However, press reporting on April 4 confirmed that Engie exercised its right to sell its 40% stake in the NuGen venture back to Toshiba. This follows the Chapter 11 bankruptcy filing, resulting in Toshiba being the sole stake owner of NuGen. Toshiba has stated that it is looking for additional investors to join the NuGen project or to sell its stake in the project altogether. Korea Electric Power Corporation (KEPCO) has been in discussions with NuGen and Toshiba officials to potentially join the consortium. WEC's other opportunities include current negotiations with China's State Nuclear Power Technology Corporation (SNPTC) to serve as a subcontractor for the construction of ten additional AP1000s, and is in discussions with China National Nuclear Corporation (CNNC) to provide plant instrumentation and control systems. These projects would support billions of dollars in U.S. civil nuclear exports. WEC also has very strong global nuclear fuel supply and reactor services business lines.

(If Raised) **Status of Vogtle and Summer Nuclear Reactors and Loan Guarantee.** Four AP1000 units are under construction in the United States -- units 3 and 4 at the Vogtle Nuclear Power Plant in Georgia and units 2 and 3 at the Summer Nuclear Power Plant in South Carolina. Construction of the

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Vogtle units began in 2013, but it has experienced significant delays. The current time-line for completion is 2019 and 2020. The Summer units were started in 2013, with a target completion date 2018/19, but now the operational dates are estimated for 2019 and 2020. NOTE: The AP1000 units in China have also experienced approximately 1+ year delays; however the first unit is expected to become operational by the end of this year, with the remaining three expected to be operational by 2020.

DOE's Loan Program Office provided loans to three of the owners of the Vogtle 3&4 Nuclear Power Plant (Georgia Power Company, Oglethorpe Power Company, and Municipal Electric Authority of Georgia (MEAG)), but did not provide loans for the construction of the Summer nuclear projects. The aggregate amount of loans guaranteed by DOE for Vogtle 3&4 is $8.3 billion and the estimated project cost for Vogtle 3&4 is $12.4 billion. DOE is not obligated for any costs in excess $8.3 billion. Georgia Power Company, Oglethorpe Power Company, and Municipal Electric Authority of Georgia (MEAG) are investment grade entities and are responsible for repayment of their respective loans. Construction of the Project has not been interrupted by the WEC bankruptcy filing.

For Vogtle, the borrowers have agreed to pay WEC Vogtle-related overhead costs and its sub-contractors' invoices for an interim period (30 days, subject to extension upon agreement of WEC and the Borrowers) in order fund the construction at the Project. All Borrowers have stated that they are committed to completing the Project, including funding reasonable cost overruns and anticipated delays. LPO has been actively monitoring the Borrowers and the status of the Project from a technical, legal and financial perspective.

(If Raised) **Russian Fuel Entering the U.S. Pressurized Water Reactor Market.** Westinghouse is expected to raise its concerns about the announced May 2016 Joint Venture between TVEL (Russia) and GE-Hitachi (U.S.-Japan) that would facilitate GE-Hitachi's (GEH) production of Russian-designed pressurized water reactor (PWR) fuel for the U.S. market. WEC can be expected to express opposition to the plan on the basis that the Russian nuclear fuel market currently remains closed to WEC and other U.S. nuclear fuel suppliers. GEH plans to fabricate the Russian-designed fuel at its Wilmington, NC, facility. GEH and its utility partner Exelon are in discussions with the Department regarding certain activities related to fuel fabrication in Russia in cooperation with TVEL. Westinghouse has incorrect presumptions about the intent of the GEH/Exelon requests. *However, as a regulatory matter, the Department does not comment on another company's request involving Part 810 activities to another company. It is recommended that you not provide a specific response to WEC's concerns*. If WEC raises the pending Part 810 applications for GE-Hitachi and Exelon, or any other non-Westinghouse companies, you should decline to comment.

(b) (5)

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(b) (5)

(b) (5)

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

[1] Under Part 810, the Secretary has granted a general authorization for certain categories of activities which the Secretary has found to be non-inimical to the interest of the United States, including assistance or transfers involving non-sensitive technology to a listed set of generally-authorized countries. The determination of which countries are generally authorized depends on a number of factors, including the existence of a bilateral agreement for peaceful nuclear cooperation (123 Agreement) with the United States, the country's nonproliferation credentials, and the significance and scope of its nuclear trade relationship with the United States.

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ATTACHMENT 2: TALKING POINTS

Westinghouse Chapter 11 Filing

- We appreciate the challenging financial situation facing Westinghouse. DOE and other U.S. Government agencies are closely monitoring the situation and want to be supportive as possible as you proceed through your reorganization plans.

- We recognize the importance of completing the Vogtle and Summer sites to support future new construction in the US and maintaining the thousands of skilled people Westinghouse employs.

- The work Westinghouse is doing is not only very important for the thousands of Americans you employ and the significant benefit to our U.S. manufacturing base, but also critical to our US national security interests.

- We certainly appreciate your statement "Westinghouse looks to come out of this bankruptcy process even stronger than before". We hope that will be the case as well. Your success is very important to our nation.

- My staff stands ready to remain in close communications with you as you work through this challenging time.

Defense Program Work with WesDyne

- I recognize the important role that Westinghouse plays in helping us meet the U.S. tritium needs of the nuclear stockpile.

- We look forward to continuing this national security work with you as Westinghouse reorganizes.

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Key Global Markets

- We also appreciate the significant global market that Westinghouse has secured, but in reactors and fuel services.

- We understand your work in India to build 6 reactors is still proceeding and would welcome hearing more about your global market priorities.

TALKING POINTS FOR "IF RAISED" ISSUES

(If Raised) Status of Vogtle and Summer Nuclear and Loan Guarantee

- DOE is committed to these projects and the owner have committed to the completion publicly.

(If Raised) Russian Fuel in US Pressurized Water Reactor Market

- Thank you for your points.

(b) (5)

(If Raised) Pending Part 810 Applications for WEC

- The Department is continuing to evaluate its path forward for these applications.

(If Raised) Office of Nuclear Energy Accident Tolerant Fuel Development Program Work with Westinghouse

(b) (5)

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Advocacy Center Active Cases for Westinghouse - OUO

Case Number	AC Project Name	AC Project Status	AC Expected Project Value	AC Expected U.S. Export Content	Case Owner: Full Name	Actual Create Date
(b) (5)						

DOE-19-0315, 19-0316, 19-0318-A-002247

Attachment 3

(ACTIVE 810 SPECIFIC AUTHORIZATIONS WITH WESTINGHOUSE

For work in China

(b) (5)

For work in India

(b) (5)

For work in Mexico

For work in China

(b) (5)

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José Emeterio Gutiérrez
Interim President & CEO



José Emeterio Gutiérrez has been recently appointed Interim President and CEO of Westinghouse Electric Company following his position as Senior Vice President of the Westinghouse global Nuclear Fuel and Components Manufacturing organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and services to a global customer base.

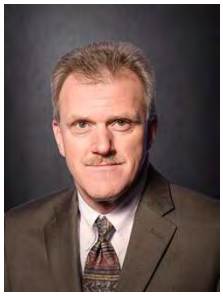
Prior to this role, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

He has been and continues to serve as chairman, CEO and president of several Westinghouse subsidiaries across the globe. Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States. He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st Green Belt.

David A. Howell, P.E.
President – Americas Region



David Howell brings over 34 years of strategic nuclear industry leadership to his role as president, Americas Region.

Appointed to the position in March 2017, Howell leads Westinghouse customer relationship management and all commercial responsibilities for the core business of Westinghouse in the Americas Region including account team development and deployment. He oversees the company's global commercial and marketing organization, government and international affairs, global security and facilities management. Most recently, Howell was senior vice president, Operating Plant Business, where he held executive operational responsibility for all products and services related to growth and enhancement of the company's instrumentation and control (I&C) business, outage support and plant

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modification services. He also oversaw engineering products and nuclear parts for pressurized water reactors and boiling water reactors worldwide.

In a previous role as Westinghouse vice president of Global Field Services, Howell had complete executive oversight of the company's outage support, advanced products, nuclear power plant component services and customer training globally.

Howell has held engineering and field operations management positions for the company's business lines related to reactor vessel and steam generator inspection, and repair for pressurized water reactor nuclear steam supply systems. He also was a lead design engineer for remote reactor repair projects.

He holds six patents for innovative equipment serving this market. Howell is a black belt in Six Sigma and Lean processes. He also is a certified Customer 1st Leader and was the deployment director for that program within the Westinghouse Nuclear Fuel business, where he drove implementation throughout that business.

A registered professional engineer in Pennsylvania, Howell has a bachelor's degree in mechanical engineering from Geneva College in Beaver Falls, Pennsylvania (USA). He is a member of the Geneva College Advanced Board, and is an elder in the Presbyterian Church in America.

Howell also is a member of the Westinghouse Operating Committee and a past member of the Westinghouse Board of Directors. He is also a member of several advisory committees and steering groups sponsored by the Nuclear Energy Institute.

Jeanne T. Lopatto
Vice President, Government & International Affairs



Jeanne T. Lopatto, Vice President of Government and International Affairs at Westinghouse Electric Company, heads the firm's Washington, D.C. office and is the primary point of contact between the company and the U.S. Government, as well as with Washington, D.C.-based foreign embassies. In this capacity, she plays a crucial role in formulating Westinghouse's policy strategies and advises decision makers on issues important to Westinghouse.

Before joining Westinghouse, Jeanne was the Special Assistant for International and Federal Affairs to Nils Diaz, Chairman of the U.S. Nuclear Regulatory Commission. From 2001 to 2005, she was the Director of Public Affairs at the U.S. Department of Energy, where she served as the official spokesperson for Energy Secretary Spencer Abraham and directed the public relations programs for DOE. Before that she worked on Capitol Hill for Sen. Orrin G. Hatch (R-UT) in a variety of media relations positions, including Press Secretary for the U.S. Senate Judiciary Committee.

A native of Pennsylvania, Ms. Lopatto is a graduate of Dickinson College, in Carlisle, PA.

AMERICAN OVERSIGHT

From: McRae, Ben
To: Scott, Michelle; Reilly, Thomas; Goodman, Jac; Markus, Stephen
Cc: McGinnis, Edward; Jaworowski, Suzanne; Stern, Zachary; Hallock, Andrew; Richards, Andrew; Diamond, Bruce; Lockwood, Andrea; Kim, Dong; Cestari, Kenneth; Phillips, Anne L; Mendelsohn, Kasia
Subject: RE: Version to Clear with DOE-GC
Date: Wednesday, April 5, 2017 1:21:50 PM
Attachments: (b) (5)

A few additional edits and comments

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:18 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom, Stephan and Ben,

Apologies, please use this version of the memo for your review.

Thank you
Michelle

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom,

Attached for your routing trough GC are the following:

AMERICAN OVERSIGHT

S1 memo
S1 TPs
USG approved Adv cases for WEC
Status of Part 810 cases
WEC Bios

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

Michelle – as we discussed - we are standing by for the language. We will then run this through our process for other offices within GC will need to see as well.

Thanks.

Tom

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NNSA Equity

From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

On quick review, attached are my few suggested nits and one comment on the last talking point. Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle

AMERICAN OVERSIGHT

Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Tom and Stephen,

(b) (5)

My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle

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AMERICAN OVERSIGHT

(b) (5)

SI BRIEFING

AMERICAN OVERSIGHT

From: McCormack, Brian
To: Jaworowski, Suzanne
Subject: RE: Update
Date: Wednesday, April 26, 2017 11:37:40 AM

I'm fine with you all continuing to gather information from them and others on these topics.

From: Jaworowski, Suzanne
Sent: Wednesday, April 26, 2017 8:48 AM
To: McCormack, Brian <Brian.Mccormack@hq.doe.gov>
Subject: FW: Update

IP3 invited Ed and me to come to their office for a status update on Saudi & WEC possible purchase. Are you okay if we go?

Suzie

From: Mike Hewitt [mailto (b) (6)]
Sent: Monday, April 24, 2017 6:32 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stu Solomon <(b) (6) >
Subject: Update

Suzie, Ed

Let us know if you have time on Friday to get together. We are fairly open that day.

Best, mike
--
--
RDML Michael Hewitt, USN (Ret)
CEO, Iron Bridge Group

Executive Assistant: Molly Denham
(b) (6)

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AMERICAN OVERSIGHT

From: McGinnis, Edward
To: Johnson, Shane
Cc: Furstenau, Raymond (HQ); Richards, Andrew
Subject: FW: FYI: Westinghouse cuts office space in Pennsylvania
Date: Tuesday, August 22, 2017 12:55:13 PM

FYI.

-----Original Message-----
From: McGinnis, Edward
Sent: Tuesday, August 22, 2017 12:55 PM
To: Sneed, John <John.Sneed@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Maddox, Mark <MRMaddox@hq.doe.gov>
Cc: Suzanne Jaworoski (suzanne.jaworowski@hq.doe.gov) <suzanne.jaworowski@hq.doe.gov>; Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>; Richards, Andrew (CONTR) (Andrew.Richards@Nuclear.Energy.Gov) <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: FYI: Westinghouse cuts office space in Pennsylvania
Importance: High

FYI. Tough times.

Westinghouse has renegotiated leases to shrink its footprint and save money as it reorganizes in bankruptcy.

By Anya Litvak / Pittsburgh Post-Gazette

Related Media:
bullet
Westinghouse furloughed 870 employees in fallout from the canceled South Carolina nuclear project

bullet
Company that led failed effort to build two South Carolina nuclear reactors paid its executives millions in bonuses

bullet
Westinghouse: Project canceled 'without warning'

bullet
Westinghouse needs more time in crafting bankruptcy plan

Westinghouse Electric Co. has negotiated to cut its office space at Keystone Summit Park by more than 75 percent as the Cranberry-based bankrupt nuclear firm reorganizes to survive.

The surrendered space in Marshall Township includes two floors and 63,000 square feet, leaving Westinghouse with 18,000 square feet for offices while maintaining its shop space of 95,032 square feet in an adjacent building.

Westinghouse signed the amended lease a month ago, but the company made it public in its bankruptcy filings Tuesday.

The company, which filed for bankruptcy in late March, is working to reposition the focus of its business on money-making pursuits, such as nuclear fuel and services. It has been forced to de-emphasize new nuclear construction, first by the bankruptcy and more recently by the abandonment of two of the four AP1000 power plants under construction in the United States.

AMERICAN OVERSIGHT

The emptied office space will save the company $1.73 million a year until the lease expires in 2025, Westinghouse said in documents. Another amended lease made public Tuesday cut nearly in half Westinghouse's space in a large warehouse in Connecticut for $1 million in annual savings.

On July 31, Westinghouse had said it has submitted a five-year business forecast to its bankruptcy lenders which includes "transformation savings" of $205 million over that period.

Included in that plan is a 7 percent reduction in headcount across the company's operations. Westinghouse employs 14,000 people globally and about 4,500 in the Pittsburgh region.

Two weeks ago, Westinghouse laid off 870 employees who were working on or supporting the VC Summer nuclear power plant project in South Carolina, which was canceled.

Anya Litvak: alitvak@post-gazette.com or 412-263-1455.

-----Original Message-----
From: Lennon, Sarah
Sent: Tuesday, August 22, 2017 12:37 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Cc: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: FYI: Westinghouse cuts office space in Pennsylvania
Importance: High

Ed et al,
Didn't know if you'd already seen this....

--Sarah

Sarah G. J. Lennon
Acting Deputy Assistant Secretary
for International Nuclear Energy Policy & Cooperation (NE-6)
& Director, NE-61

DOE/Office of Nuclear Energy
202-586-7089 (office)
(b) (6) (cell)

-----Original Message-----
From: Gross, John
Sent: Tuesday, August 22, 2017 11:09 AM
To: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: FW: FYI: Westinghouse cuts office space in Pennsylvania

Sarah-

You may want to share this with Ed as soon as possible. Westinghouse has 'furloughed' 870 people and just negotiated a reduction in office space of about 75% at its Pittsburgh HQ.

AMERICAN OVERSIGHT

John

-----Original Message-----
From: Hagen, Ronald
Sent: Tuesday, August 22, 2017 9:27 AM
To: Gross, John <John.Gross@nuclear.energy.gov>
Subject: FYI: Westinghouse cuts office space in Pennsylvania

http://powersource.post-gazette.com/powersource/companies/2017/08/16/Westinghouse-bankruptcy-news-cranberry-offices-keystone-summit-park-warrendale-marshall-township/stories/201708150116

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: Scott, Michelle
Cc: Furstenau, Raymond (HQ); Jaworowski, Suzanne; Richards, Andrew; Lennon, Sarah
Subject: RE: FYI: NNSA Equity
Date: Tuesday, December 12, 2017 1:01:43 PM

great

From: Scott, Michelle
Sent: Tuesday, December 12, 2017 10:15 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: FW: FYI: NNSA Equity

Fyi

(b) (5)

NNSA Equity

AMERICAN OVERSIGHT

From: Stuart Solomon
To: Jaworowski, Suzanne
Subject: RE: Request for help - CONFIDENTIAL/BUSINESS PROPRIETARY
Date: Thursday, March 8, 2018 10:00:58 AM

Suzie, no one at DOE has been briefed on this yet...only a few comments were shared by Bud McFarlane. Can you give me 15-30 minutes to make sure that it is understood and remains contained without disruption or surprise? The timing is quite urgent.

Our country and businesses would be significantly advantaged by this option.

Really appreciate it if you could hear it from us.

Thanks!

On Mar 8, 2018 9:50 AM, "Jaworowski, Suzanne" <Suzanne.Jaworowski@hq.doe.gov> wrote:

> Hi Stu-
>
> I spoke with Ed about this issue. He has already elevated it to the seventh floor. They are out of town at the moment but they will take care of this. At this time there's nothing more I can do to push it forward at my level.
> I would like to stay in the loop as information evolves. Thank you.
>
> ---
>
> **From:** Stuart Solomon <(b) (6) >
> **Date:** Thursday, Mar 08, 2018, 9:42 AM
> **To:** Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
> **Subject:** RE: Request for help - CONFIDENTIAL/BUSINESS PROPRIETARY
>
> No problem. I assumed we were meeting at GWU, but can meet anywhere. Please me know where you'd like to me and I'll see you there
>
> On Mar 8, 2018 9:34 AM, "Jaworowski, Suzanne" <Suzanne.Jaworowski@hq.doe.gov> wrote:
>
> > Thank you. I am running late but will text or call when I'm on my way.
> >
> > Suzie
> >
> > ---
> >
> > **From:** Stuart Solomon (b) (6) >
> > **Date:** Wednesday, Mar 07, 2018, 5:44 PM
> > **To:** Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
> > **Subject:** Request for help - CONFIDENTIAL/BUSINESS PROPRIETARY
> >
> > CONFIDENTIAL/BUSINESS PROPRIETARY TREATMENT REQUESTED

AMERICAN OVERSIGHT

Dear Suzie:

For context, we have an opportunity for a (b) (4) proposal requiring immediate action regarding US participation in the Saudi civil nuclear energy program. In order to prevent misinformation from negatively affecting USG interests or ours, we would like to coordinate immediately. The benefits to US interests of what we can explain in person include:

- Ensuring (b) (4) US content & services in the bid for the first two Saudi nuclear reactors
- Showcasing strength of (b) (4)
- Signaling our (b) (4) ' partnership in nuclear safety & security
- Significantly extending US ability to reduce proliferation risks in the Middle East
- Providing the strongest opportunity for a US win, countering Russia & China
- Diversifying US risk arising from WEC bankruptcy & uncertain future direction

If we coordinate quickly, we can ensure this opportunity is handled in a way that avoids publicity and does not disrupt the US-KSA 123 negotiations or the MBS visit to DC. It is a good opportunity for the USG to broadly support US industry.

The opportunity we are bringing forward respects the existing response structure for Saudi Arabia's current RFI (b) (4)). This, (b) (4) , provides the best overall probability of significant US participation in Saudi Arabia's nuclear energy program and US ability to promote its nonproliferation interests. If we coordinate and appropriately manage this, the US can effectively ensure the Saudis realize that the US is fully cognizant of their interests as well.

I appreciate your understanding of the high sensitivity of this business matter, and your and your staff's discretion in treating this opportunity as confidential.

Much appreciated,

--
Stu Solomon
President
C: (b) (6)
www.ip3international.com
Assistant: Molly Denham, (b) (6)

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AMERICAN OVERSIGHT

From: Mapes, Thomas E.
To: Haddad, Zead; Nicholas, Kyle; Uddo, Joe; Garrish, Theodore
Cc: Boyer, Aliya
Subject: IA Talking Points
Date: Tuesday, April 23, 2019 3:07:13 PM
Attachments: Revised IA Talking Points WEC_S1 (002).docx

Zead –

The document seems to be locked.

Attached are final talking point with Teds input.

AMERICAN OVERSIGHT

Talking Points – Meeting with José Emeterio Gutiérrez, President and CEO, Westinghouse Electric Company

Poland Nuclear Power Development and Deployment

- We have been incredibly supportive of Westinghouse's efforts in Poland, KSA, and India, including high-level visits and engagement in direct support of your efforts.

- Also, we appreciate your position on equity and construction risk.

- We understand the difficulties Westinghouse is facing against state owned enterprises without U.S. government involvement; we are working on the new Build Act and EXIM bank.

- What we are asking is for you to work with us in Poland to see what we can do to get them going.

- We are asking for your participation and your help in leading this project forward.

- We have an immediate path forward in Poland establishing a small Project Development Team staffed and resourced by DOE consultants. Poland is adding staff to the team on their side.

- The purpose of the team is to focus our collective efforts with Poland and drive the project forward – it is vital that Westinghouse participate as a critical partner.

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: Shannon, Jasmine (CONTR)
Cc: Richards, Andrew
Subject: FW: Pre-brief and Meeting with Jose Gutierrez
Date: Tuesday, April 23, 2019 5:06:34 PM
Attachments: Package for Meeting with Jose Gutierrez_4.24.pdf

---

Please print

From: Haddad, Zead <zead.haddad@hq.doe.gov>
Date: Tuesday, Apr 23, 2019, 5:02 PM
To: McGinnis, Edward <edward.mcginnis@nuclear.energy.gov>, Richards, Andrew <andrew.richards@nuclear.energy.gov>, Garrish, Theodore <theodore.garrish@hq.doe.gov>, Uddo, Joe <joe.uddo@hq.doe.gov>, Nicholas, Kyle <kyle.nicholas@hq.doe.gov>
Cc: Mapes, Thomas E. <thomas.mapes@hq.doe.gov>
Subject: Pre-brief and Meeting with Jose Gutierrez

Good evening,

Attached is the package for the Pre-brief and Meeting with Jose Gutierrez.

Thank you.

AMERICAN OVERSIGHT

EVENT: **Pre-brief and Meeting with Jose Gutierrez, President and CEO, Westinghouse**

DATE: Wednesday, April 24, 2019
TIME: 10:40 AM – 11:30 AM
LOCATION: **Pre-Brief:** Office of the Secretary **Meeting:** General Groves Conference Room

PURPOSE: Mr. Gutiérrez requested this meeting to discuss opportunities for Westinghouse in international markets.

PRESS: Closed **VISUALS:** DOE Photographer

SCENARIO:

10:40 AM Your pre-brief for your meeting with Mr. Gutiérrez is scheduled to begin.

10:55 AM Your pre-brief is scheduled to conclude.

11:00 AM Your meeting with Mr. Gutiérrez is scheduled to begin.

11:30 AM Your meeting with Mr. Gutiérrez is scheduled to conclude.

PARTICIPANTS:

Jose E. Gutiérrez, *President and CEO, Westinghouse Electric Company*
David Durham, *President, Plant Solutions, Westinghouse Electric Company*
Ron Bloom, *Managing Partner and Vice Chairman, Private Equity, Brookfield*
Jeanne T. Lopatto, *Vice President, Government and International Affairs, Westinghouse Electric Company*

Theodore Garrish, *Assistant Secretary for International Affairs, (IA)*
Brian McCormack, *Chief of Staff*
Dan Wilmot, *Deputy Chief of Staff*
Edward McGinnis, *Principal Deputy Assistant Secretary for Nuclear Energy*
Joseph Uddo, *Deputy Assistant Secretary for Innovation and Markets, IA*

STAFF: Kyle Nicholas, *Senior Advisor, IA*

PREVIOUS INTERACTION: You last met with Mr. Gutiérrez at the White House meeting with Nuclear Industry Executives on February 12, 2019.

KEY ISSUES:

1. Brookfield's commitment to Westinghouse's new builds and interest in potential opportunities in foreign markets.
2. Poland's interest in nuclear power development and deployment.
3. The status of Westinghouse's bid for the Kingdom of Saudi Arabia's nuclear reactors tender.

BACKGROUND:

Westinghouse Electric Company and Brookfield Ownership

Westinghouse Electric Company, LLC (Westinghouse) is a U.S.-based nuclear energy company formed in 1998 from the nuclear power division of the original Westinghouse Electric Corporation. It is a leading global provider of nuclear plant products and technologies.

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Today, Westinghouse technology is the basis for approximately one-half of the world's operating nuclear plants.

- Westinghouse, filed for Chapter 11 bankruptcy in March 2017 as a result of the troubled U.S. nuclear construction projects primarily due to cost overruns.

- In August 2018, Westinghouse exited Chapter11 and was acquired and owned by Brookfield. Brookfield is among the world's largest investors in stable, long-lived assets such as utilities, real estate, energy and infrastructure.

- In government meetings with Brookfield representatives, they have prioritized Westinghouse's business units in the order of fuels, operations and maintenance, and new builds.

Among the interagency there seems to be some uncertainty as to Brookfield's commitment to Westinghouse's new builds business unit and interest in potential opportunities in foreign markets. In light of this uncertainty, you can underscore to Brookfield the importance of nuclear energy for both energy security and national security.

Poland Nuclear Power Development and Deployment
Poland's Ministry of Energy released its draft 2040 Energy Plan on November 23, 2018, and a public comment period and deliberation by the Council of Ministers has followed. The draft Plan includes a timeline for development of nuclear power.

- The first unit of 1 to 1.5 GW will be completed by 2033.

- Five more units are planned by 2043.

- In total, Poland will build 6 to 9 GW of nuclear power capacity.

- Selection of the nuclear technology and a strategic partner is estimated to occur in 2020.

Poland is looking for the United States to be a strategic partner to provide capital investment in addition to technology. During the Strategic Dialogue on March 11, Poland emphasized that it wants to sign an intergovernmental agreement with the U.S. for cooperation on developing Poland's civil nuclear program.

- Minister Naimski conveyed that Poland wants to finance its nuclear plants solely through equity investment, not through debt financing.

- He also explained that Poland wants to establish a special purpose company for developing its nuclear plants, with Polish equity at 51% or greater and U.S. equity up to 49%.

On February 21, Minister Naimski's office sent Assistant Secretary Garrish a non-paper on potential cooperation in the nuclear sector, including signing of an

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intergovernmental agreement. Initial reaction is that industry input to the non-paper is needed. Although DOE supports the full development of nuclear power as outlined in the non-paper, with up to nine reactors, it will be important to focus on financing the first two reactor projects to de-risk the larger expansion ahead.

On April 10-11, Assistant Secretary Garrish led a team to Warsaw, Poland and held meetings on nuclear development and cooperation with Minister Naimski, Deputy Minister of Environment Michał Kurtyka, the President's Cabinet Chief, Ministry of Energy, and the national utility PGE in coordination with a U.S.-Poland Business Council trade mission that included Westinghouse. It was determined that Polish entities would finance a portion of any potential deal and provide the appropriate sovereign guarantees. Minister Naimski promised to articulate the next phase of Poland's civilian nuclear strategy leading up to the Brussels LNG Conference. He also identified Deputy Minister Kurtyka and a small team to collaborate with a DOE-sponsored Project Development Team led by DOE-IA to begin to implement a Project Development Plan for the first two units with respect to Poland's nuclear power strategy.

As it stands, the Poles have shifted off of their previously articulated "all-equity" deal. A more robust and flexible structure is to be determined in conjunction with the Project Development Team and inclusive of private sector and public bilateral entities.

Kingdom of Saudi Arabia Nuclear Reactors Tender

In November 2017, Westinghouse entered negotiations with other U.S.-based companies to organize a consortium to bid on the construction of two nuclear power reactors in Saudi Arabia. Westinghouse's role in the tender would be a significant milestone for the company. The Department of Commerce formally approved Westinghouse for exclusive U.S. advocacy with Saudi Arabia in support of Westinghouse's reactor bid.

- Westinghouse's most recent engagement with Saudi Arabia on the tender process was in February 2019.
- Westinghouse and King Abdullah City for Atomic and Renewable Energy (KACARE) officials held their 2nd workshop of the Front End Engineering design (FEED B) Preparatory phase in Riyadh.
- The workshop focused on compliance of supplier candidate's design with the preliminary key requirements, discussions on regulatory issues and site characterization.
- During the workshop, KACARE officials noted that the Preparatory phase would be extended an additional 15 months to have the supplier candidates provide additional technical information to inform the FEED B process without proving any compensation to the supplier candidates.
- Westinghouse has raised their concerns to the interagency regarding the 15 month extension of additional technical work without providing any compensation.

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In this context, you issued a specific authorization pursuant to 10 CFR Part 810 to Westinghouse to transfer its AP-1000 nuclear reactor design information to Saudi Arabia to compete in the Saudi Arabia reactor tender. You also have provided specific authorization to Fluor and Exelon to support the Westinghouse tender.

Civil nuclear cooperation with Saudi Arabia, and issuance of Part 810 authorizations to U.S. companies to transfer unclassified civil nuclear technology to Saudi Arabia, have come under scrutiny by Members of Congress, the House Committee on Oversight and Reform, and other congressional committees. In addition, several media outlets have reported on this issue.

(*If Raised*) Negotiations with the Government of India for the Kovvada Project

Westinghouse is interested in building six nuclear reactors in southeast India, which is referred to as the Kovvada Atomic Power Project. Westinghouse regularly meets with their Indian counterparts in India on the path forward to signing a contract to build the AP-1000. Two areas that Westinghouse and the Indians have still not come to agreement on the construction responsibility and division of labor for the project.

- For the construction responsibility issue, Westinghouse no longer has construction capability and is no longer able to provide the first two units as turnkey.

- Westinghouse has since requested the Indians to take on the construction. Westinghouse has reported to the interagency that the Indian's are reluctant to take on modular construction for the project.

- To address the Indians concerns, Westinghouse has agreed to be responsible for the assembly in India of the 5 structural modules. In addition, Westinghouse intends to contract with Larsen & Toubro to weld together the 5 structural modules on site.

- The constructor for the Nuclear Power Corporation of India Limited (NPCIL) would only be responsible to lift and set these 5 modules in place and undertake the remainder of the "stick built" construction scope (e.g., pouring concrete, welding pipe and steel together, laying cable, placing and attaching equipment, etc.).

- Westinghouse wants to come to closure on the construction issue, which includes agreeing on the division of responsibilities between Westinghouse and NPCIL.

- However, agreeing on the division of responsibilities will not begin until NPCIL agrees to take on the construction of project.

The second issue is the official position of India that the AP-1000 at the Vogtle site has to be operating prior to proceeding with signing of an engineering and procurement contract. The Indians consider the Vogtle units as the reference plant for the Kovvada project.

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(*If Raised*) Sanmen 2 Reactor Coolant Pump Issue

(b) (5)

(*If Raised*) Westinghouse Fuel Services in Ukraine

(b) (5)

AMERICAN OVERSIGHT

(*If Raised*) Westinghouse Follow-on Projects in China

(b) (5)

(*If Raised*) Czech Republic Nuclear Power Development and Deployment

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

(*If Raised*) Westinghouse in Brazil

Westinghouse has a long history of operations in Brazil. Angra 1 (640 MW PWR) was purchased from Westinghouse in 1985. Westinghouse is currently providing services for the nuclear power plant, and is also assisting with the upcoming life time extension application and process for the plant. Westinghouse's future goals are to continue their work with Angra 1, and pursue similar service projects with Angra 2. Brazil is now in the process of promoting energy infrastructure projects around the country, including the completion of the Angra 3 nuclear power plant. The Government of Brazil is seeking industry for comments on the project structure, and holding is information sessions with other stakeholders. Brazil has expressed that the plan is to open a tender for these projects within the upcoming months. While Westinghouse has openly discussed interest in work on Angra 3's completion, they have yet to express any specific project type or to request USG assistance.

(*If Raised*) Vogtle & Summer Projects

In July 2017, the owners of the V.C. Summer nuclear project (SCANA and Santee Cooper) in South Carolina stopped work on the construction of two additional nuclear reactors. Reasons given were huge cost overruns attributable to Westinghouse. Note: Dominion Resources has made an offer to buy SCANA.

- The owners of Summer have come under intense criticism for their management of the project and they could not find an economical path forward.
- The owners of Vogtle stated they could complete construction of the new AP1000 reactors (Vogtle Units 3 and 4). Some of the reasons given were the larger customer base for power generated at Vogtle vs. Summer's customer base; better management; and, stronger negotiations with Westinghouse. I don't recall ever hearing better management and stronger negotiations)

The owners of the Vogtle Project (Georgia Power Company, Oglethorpe Power Corporation, the City of Dalton, and three subsidiaries of the Municipal Electric Authority of Georgia) continue to move forward with completing construction of

AMERICAN OVERSIGHT

Units 3 and 4. While the Westinghouse bankruptcy caused some disruptions, it never caused progress on the construction of the Project to stop.

- The Vogtle Project currently employs around 7,500 workers. There will be 800 permanent jobs created to operate the new reactors.
- Georgia Power Company has reported to the Georgia Public Service Commission (GPSC) that Vogtle Unit 3 is scheduled to begin commercial operation in November 2021, and November 2022 for Unit 4.
- When completed, Vogtle Units 3 and 4 will be the first new commercial nuclear reactors constructed in the U.S. in 30 years.
- Vogtle Units 3 and 4 are projected to generate 17,200,000 MWh annually.

In 2010, the Department offered a total of $8.3 billion in conditional commitments for the Vogtle project to GPC, OPC, and three subsidiaries of MEAG Power. In February 2014, the Department closed on $6.5 billion in loan guarantees to GPC and OPC, and in June 2015, $1.8 billion in loan guarantees for the three subsidiaries of MEAG Power.

In September 2017, DOE issued a conditional commitment for up to an additional $3.7 billion in loan guarantees. DOE closed on the additional $3.7 billion in loan guarantees on March 22, 2019 to GPC, OPC, and the three subsidiaries of MEAG Power. In total, DOE is guaranteeing loans for up to $12 billion to the Project.

DOE guaranteed loans to GPC and OPC are structured as corporate obligations (as opposed to project finance), such that debt service is not solely dependent on Project cash flows or the achievement of project completion, but rather the borrowers' cash flow and creditworthiness. DOE guaranteed loans to the MEAG SPVs have credit protections from MEAG parent and offtakers' "hell or high water" contractual payment obligations (required to pay regardless of project completion or energy delivery). Therefore, the Vogtle Project loans have a high likelihood of repayment.

BRIEFING PREPARED BY: Andrew Richards, Office of Nuclear Energy, x6-2909

BRIEFING REVIEWED BY: Ted Garrish, IA-1, Office of International Affairs
Sean Oehlbert, NA-20, National Nuclear Security Administration
Michelle Scott, NE-1, Office of Nuclear Energy
Dong Kim, LP-1, Loan Programs Office

STAFF SEC POC: Zead Haddad, Policy Advisor

ATTACHMENTS:
1. Talking Points: Poland Nuclear Power Development and Deployment
2. Talking Points
3. Biographies

AMERICAN OVERSIGHT

Talking Points: Poland Nuclear Power Development and Deployment

- We have been incredibly supportive of Westinghouse's efforts in Poland, KSA, and India, including high-level visits and engagement in direct support of your efforts.

- Also, we appreciate your position on equity and construction risk.

- We understand the difficulties Westinghouse is facing against state owned enterprises without U.S. government involvement; we are working on the new Build Act and EXIM bank.

- What we are asking is for you to work with us in Poland to see what we can do to get them going.

- We are asking for your participation and your help in leading this project forward.

- We have an immediate path forward in Poland establishing a small Project Development Team staffed and resourced by DOE consultants. Poland is adding staff to the team on their side.

- The purpose of the team is to focus our collective efforts with Poland and drive the project forward – it is vital that Westinghouse participate as a critical partner.

AMERICAN OVERSIGHT

Talking Points

Westinghouse Electric Company and Brookfield Ownership

- The U.S. government views the vibrant civilian nuclear industry as crucial to meeting the Nation's energy security, national security and nonproliferation goals.

- This includes sustaining a pipeline of skilled labor force which includes our service members to enter the civilian nuclear workforce, which is vital to expanding the nuclear infrastructure.

- Finally, exporting U.S. nuclear reactors and technology not only creates jobs at home, but also enhances the United States' nuclear safety and non-proliferation position globally.

- I understand Brookfield is very supportive of Westinghouse's continued presence in the global market.

- Does Brookfield still support Westinghouse's endeavors in new build opportunities?

Kingdom of Saudi Arabia Nuclear Reactors Tender

- As you are aware, the issue of civil nuclear cooperation with Saudi Arabia has been a matter of keen interest for Congress and the media.
- We remain interested in putting in place the necessary legal arrangements with Saudi Arabia consistent with the requirements of law and the highest nonproliferation standards possible.

- In addition, the Department of Energy has taken steps to clarify various misperceptions regarding the extent of U.S. support for civil nuclear cooperation in Saudi Arabia, in particular the Part 810 process.

- I would be interested in your views on the current situation, both here in the United States as well as in Saudi Arabia.

(*If Raised*) Negotiations with the Government of India for the Kovvada Project

- What is the current situation with the Kovvada project in India?

- How can the U.S. Government assist in keeping the project moving forward toward signing a contract to build?

AMERICAN OVERSIGHT

(*If Raised*) Sanmen 2 Reactor Coolant Pump Issue

- DOE has worked in close coordination with Westinghouse on this issue, and appreciates their willingness to ensure full compliance with the terms of their 810 authorization as the analysis of the cause of the pump failure is being completed.

(*If Raised*) WEC Fuel Services in Ukraine

- I appreciate the progress WEC made with securing contracts to provide fuel to several of Ukraine's VVER-1000 reactors.

- What is the current situation of those fuel contracts?

- I understand WEC is in discussions with Ukraine on developing a VVER-440 fuel product.

- How likely is it that this will lead to an actual product and contract with Ukraine?

- Is there anything that the U.S. government can do to help?

(*If Raised*) Czech Republic Nuclear Power Development and Deployment

- Ask Mr. Gutiérrez his views on the recent developments of the Government of Czech to start a new tender process for the Dukovany site.

- Congratulate Westinghouse on the recent load of six lead test assemblies (LTAs) in the core of the Temlin Unit 1.

(*If Raised*) Westinghouse in Brazil

- What is the current situation with the license renewal project of Angra 1?

- I understand that WEC is interested in pursuing similar servicing projects at the Angra 2 power plant.

- Have you defined what type of projects WEC could be pursue?

- We hear from the Government of Brazil that they are seeking to complete Angra 3 and other infrastructure projects in the coming years.

- What are WEC's interests in Angra 3's completion and the other projects?

- Is there anything that the U.S. government can do to assist WEC's efforts?

AMERICAN OVERSIGHT

José Emeterio Gutiérrez
President and Chief Executive Officer



José Emeterio Gutiérrez was named president and chief executive officer in June 2017.

Prior to being named to the company's highest leadership role, Mr. Gutiérrez led the Westinghouse global Nuclear Fuel and Components Manufacturing (NF&CM) organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and global nuclear supply chain services to a global customer base.

Mr. Gutiérrez, who also had been a member of the Westinghouse Board of Directors, will retain his role on the board as the president and CEO.

Prior to serving as senior vice president of NF&CM, which he assumed in April 2012, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States.

He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st (continuous improvement) Green Belt.

AMERICAN OVERSIGHT

David Durham
President, Plant Solutions



David Durham was named president, Plant Solutions in January 2019. He is responsible for the development of key growth areas for Westinghouse related to the specific stages of plant lifecycle solutions, including new plant delivery; plant deconstruction; decommissioning and remediation services; and government services.

Mr. Durham joined Westinghouse in 2015. Mr. Durham had most recently served as senior vice president, New Projects Business, with responsibility for AP1000® plant projects and business development, as well as president, WECTEC LLC, a wholly owned Westinghouse subsidiary that includes government services, project support services and contingency staffing services. Before coming to Westinghouse, Mr. Durham was senior vice president and chief commercial officer at GE Hitachi Nuclear Energy. Previously, he was vice president of Fluor Corporation, leading commercial activities for the company's global nuclear power and government businesses.

Earlier in his career, Mr. Durham served in the administration of U.S. President George H.W. Bush, overseeing the creation and operations of the defense nuclear facilities cleanup program for Energy Secretary James Watkins, as well as federal facilities enforcement for U.S. Environmental Protection Agency Administrator Bill Reilly.

Mr. Durham holds a juris doctor degree from the George Washington University National Law Center and bachelor's degrees in foreign affairs and history from Assumption College.

AMERICAN OVERSIGHT

Ron Bloom
Managing Partner and Vice Chair, Private Equity Group, Brookfield



Ron Bloom is a Managing Partner and Vice Chair in Brookfield's Private Equity Group, responsible for investment origination, analysis and execution across North America.

Prior to joining Brookfield, Mr. Bloom was Vice Chairman, U.S. Investment Banking, at Lazard, focused on restructurings, and mergers and acquisitions. Prior to that, he served as Assistant to the President for Manufacturing Policy where he provided leadership on policy development and strategic planning for the Administration's agenda to revitalize the manufacturing sector. Prior to joining the White House, Mr. Bloom served as Senior Advisor to the Secretary of the Treasury where he helped lead the restructuring of General Motors and Chrysler LLC, and then led the Treasury's oversight of the companies thereafter.

Mr. Bloom received his undergraduate degree from Wesleyan University and holds an MBA from Harvard Business School, where he graduated with distinction.

AMERICAN OVERSIGHT

From: Richards, Andrew
To: Strangis, Katie
Subject: KSA
Date: Wednesday, May 1, 2019 2:46:00 PM
Attachments: Saudi Arabia Profile 12-31-18.pdf

AMERICAN OVERSIGHT

SAUDI ARABIA

CUSTOMER

Reactors Operating	Under Construction	Planned
0 DOMESTIC	0 DOMESTIC	2 DOMESTIC [1]



Planned reactor sites TBD

QUICK FACTS

Nuclear capacity / Overall generating capacity	0 GWe / 69 GWe	[2]
Nuclear growth rate per annum	N/A	[3]
Average annual growth in electricity demand 2006-2016/ 2017	+6.6% / +1.7%	[4]
Percentage of energy imported	0%	[5]
Percentage of population with electricity access	100%	[6]
Number of nuclear research reactors operating	0	[7]
Number of research reactors under construction	1 (Pool)	[8]
Credit rating	A- (S&P 2016)	[9]

REACTOR TECHNOLOGY

- **Baseload Capacity**: Considering PWR [10]
- **Small Modular Reactors (SMRs)**: Smart Reactor (Korea); CAREM (Argentina); HTR-PM (China); NuScale [11]

KEY TAKEAWAYS

- ✓ The KSA initiated an international competitive dialogue (CD) process for tender bids for the construction of two large nuclear power plants (LNPP) with plans to award a construction contract by early 2019
- ✓ Developing a civil nuclear program by setting up nuclear infrastructure and establishing safety standards
- ✓ Saudis have asked for bids from China, France, Russia, South Korea, and United States
- ✓ Presently looking at sites on the coast between Qatar and UAE

MULTILATERAL ENGAGEMENT [12]

	IFNEC	Observer
GIF		NO
INPRO		NO
Safeguards Agreement		YES
Additional Protocol		NO
Liability Regime		
CSC	NO	Paris NO
Vienna	Acceded	Joint Protocol NO

BILATERAL ENGAGEMENT [13]

123 Agreement	NO
DOE/KSA Bilateral Agreement	YES
MOU	YES
I-NERI	NO
DOE/NE Bilateral Cooperation	NO
Other USG	NO

BACKGROUND

DOMESTIC ENERGY SITUATION:

- Second largest petroleum producer in the world after the United States; largest exporter of petroleum and petroleum products in the world [14]
- Oil and gas exports accounted for about 50% of the GDP and about 85% of export earnings in 2015 [15]
- Status as the largest consumer of petroleum in the Middle East is rapidly evolving. [16]
- KACARE's energy plan for 2032 includes 2.8 GWe nuclear energy at up to 17.6 GWe, solar at 41 GWe, wind at 9 GWe, waste-to-energy at 3 GWe and geothermal at 1 GWe [17]
- In 2016, Saudi announced its Vision 2030 and the National Transformation Program (NTP) Reforms for economic reform in response to a significant fiscal deficit. Reforms include: reducing its dependence on hydrocarbon exports, expanding the private sector, and attracting foreign investment [18]

NATIONAL NUCLEAR POLICY:

- Government is trying to diversify its energy portfolio adding nuclear energy to the mix to end its domestic dependency on oil and to increase its oil exports [19]
- Government set up the Saudi Arabian Atomic Regulatory Authority (SAARA) to work to set up required regulatory frameworks for nuclear power plants [20]
- Government is using nuclear as a means to stimulate its commercial and human capital investments by attracting foreign energy investment in the KSA, by investing in global energy industries, and by increasing localization and human capital development [21]

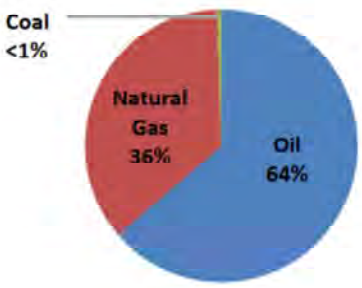
NUCLEAR PLANS:

- Targeted production would give nuclear power up to 15% share of domestic electricity by 2040 [22]
- Present plans include a mix of SMRs, Advanced Reactors, and 2 larger LWRs [23]

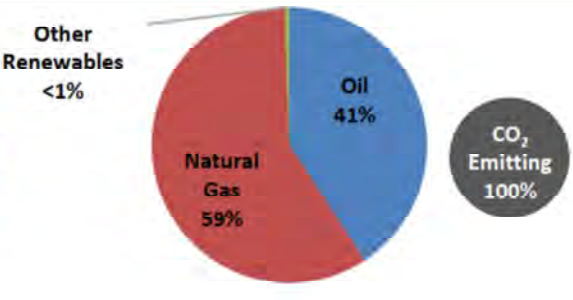
OBSTACLES:

- Lack of established regulatory frameworks, nuclear training, and infrastructure [24]
- Lack of a 123 Agreement [25]

ENERGY CONSUMED 2017 [26]



ELECTRICITY CONSUMED 2017 [27]



IMPORTS [28]

None

EXPORTS [29]

None

AMERICAN OVERSIGHT



SAUDI ARABIA

ADDITIONAL INFORMATION

BILATERAL ENGAGEMENT

- The Kingdom of Saudi Arabia (KSA) has been reluctant to enter into a 123 Agreement with the United States, partly due to potential restrictions on enrichment programs with concerns over Iran's potential for obtaining a nuclear weapon; however, negotiations are ongoing.[30]
- In May 2008, the United States Government (USG) and KSA signed a Memorandum of Understanding (MOU) for cooperation in nuclear energy and other energy fields. In this agreement, the USG and KSA will establish a comprehensive framework for cooperation in the development of environmentally sustainable, safe, and secure civilian nuclear energy through a series of complementary agreements. The scope of the MOU includes medicine, industry, and power generation, and covers both human and infrastructure development.[31]
- In February 2010, the U.S. Department of Energy (DOE) and the President of the KSA King Abdulaziz City for Science and Technology (KACST) signed an MOU on Renewable and Alternative Energy to further enhance cooperation in a range of energy, environmental, scientific, and technological issues, including nuclear energy.[32]
- In November 2010, the U.S. interagency approved a consortium consisting of General Electric and Hitachi (GEH) for national advocacy for U.S. industry engagement in KSA. The consortium proposed the Advanced Boiling Water Reactor (ABWR) technology at an estimated cost of $5.7 billion per unit for as many as eight nuclear power plants (NPPs) with each unit containing an estimated $1.2 billion in U.S. export content, including engineering, procurement, and construction (EPC) services associated with the construction of the plants.[33]
- A separate consortium, led by the Chicago Bridge & Iron Company (CB&I), formerly the Shaw Group, including Exelon and Bluewater Strategies, offered Westinghouse Electric Company (WEC) AP-1000 technology and EPC services at an estimated value of $5.1 billion with approximately $2.5 billion in U.S. export content. CB&I was approved for advocacy, but CB&I and WEC dissolved their consortium.[34]
- In September 2011, U.S. contractor Battelle, requested program approval from DOE to engage in a $230,000 Work-For-Others contract for four months to support King Abdullah City for Atomic and Renewable Energy (KACARE) as a consultant for laboratory development, adaption of best practices in the management and operation of nuclear laboratories, development of joint research programs, and consultation on development of nuclear research facilities to support its proposed nuclear energy industry. DOE did not approve the Battelle proposal due to DOE policy that prevents the use of DOE laboratory assets where proposed work is in competition with U.S. industry.[35]
- In July 2012, representatives from KACARE visited the DOE to learn about DOE's process for creating and implementing nuclear policies and about future trends in the nuclear energy sector.[36]
- In November 2012, the U.S. Chamber of Commerce in partnership with the U.S.-Saudi Business Council sent a high-level business delegation to Riyadh for meetings focused on nuclear and solar technologies.[37]
- In December 2014/March 2015, DOE and the KACARE signed an MOU to create a framework for sharing technical knowledge, advice, skills, and expertise in the areas of renewable energy and nuclear energy.[38]
- In early 2016, DOE and KACARE proposed an agreement for KSA to pay DOE $300,000 for a DOE-lab review and assessment of KACARE's nuclear energy program agenda as it applies to its strategic objectives over the next 5-10 years. DOE, however, has not received comments from KSA on the draft since mid-2016.[39]
- The United States and KSA continue to engage in ongoing activities related to energy efficiency with biennial energy consultations.[40]

AMERICAN OVERSIGHT



SAUDI ARABIA

- KSA expressed an interest in early 2017 on the margins of the President of the United States visit to Riyadh in initiating cooperation in civil nuclear energy under the 2015 MOU.[41]
- In January 2017, Minister of Energy Al-Falih announced that the KSA is moving forward with plans to construct two LNPP, each in excess of 1 gigawatt (GW). The KSA initiated an international competitive dialogue (CD) process for tender bids for the construction of two LNPPs with plans to award a construction contract by early 2019. Rosatom, Korea Electric Power Corporation (KEPCO), China National Nuclear Corporation (CNNC), and Électricité de France (EDF) are participating in the CD. The initial Large Nuclear Power Plant reactor tender is valued at approximately $11 billion, with an estimated $3.85 billion in U.S. content and supporting 20,000 U.S. jobs.[42]
- Secretary Perry met with President of KACARE, Dr. Yamani, at the 2017 IAEA General Conference (GC) in September in Vienna and asked him to consider U.S. technology in the CD. Since then, KACARE issued letters to Secretary Perry and Department of Commerce (DOC) Secretary Ross, formally inviting U.S. nuclear industry to participate in the full breath of KSA's nuclear market tender processes. KACARE's Chief Atomic Energy Officer Dr. Maher Alodan further specified that the KSA was only evaluating pressurized water reactor technology and not considering boiling water reactor technology. Both Westinghouse (WEC) and General Electric-Hitachi (GEH) received the KSA Non-Disclosure Agreement (NDA) to participate in the CD process; however, since GEH does not have the specified technology, WEC is the only qualified U.S. company to participate in the KSA LNPP CD process.[43]
- Secretary Ross' response letter proposed a separate partnering process for KSA's consideration of U.S. advanced reactors to include SMRs, products, and services in support of their proposed nuclear infrastructure. DOC's International Trade Administration (ITA) with support of DOE, held the U.S.-KSA Civil Nuclear Energy Roundtable on December 17-18, 2017 in Riyadh to initiate the partnership process.[44]
- During the U.S.-KSA Civil Nuclear Energy Roundtable held on December 17-19, 2017 in Riyadh, Principal Deputy Assistant Secretary McGinnis, DOC's Deputy Assistant Secretary Steff and KACARE's Chief Atomic Energy Officer, Dr. Alodan concluded the U.S.-KSA Civil Nuclear Action Plan to further civil nuclear collaboration between the respective governments and industries across the civil nuclear supply chain. The Action Plan included plans to hold a civil nuclear study tour of some of DOE's national laboratory complex in 2018.[45]

MULTILATERAL ENGAGEMENT

- KSA is a Member State of the International Atomic Energy Agency (IAEA).[46]
- KSA joined the International Framework for Nuclear Energy Cooperation (IFNEC) as an Observer when it sent a representative to the IFNEC Finance Workshop in Paris in May 2012.[47]
- In 1988, KSA became a Party to the Nuclear Non-Proliferation Treaty (NPT). In January 2009, its IAEA safeguards agreement came into force. KSA has not signed the IAEA Additional Protocol.[48]
- In 2008, KSA endorsed the Proliferation Security Initiative (PSI).[49]
- In 2006, KSA signed the International Convention for the Suppression of Acts of Nuclear Terrorism.[50]
- KSA has explored regional nuclear policies and programs through its membership in the Gulf Cooperation Council (GCC).[51]

BACKGROUND

SAUDI ARABIA'S CIVIL NUCLEAR POWER PROGRAM

- KSA has the largest economy in the Middle East.[52]
- KSA holds 18% of the world's proven petroleum reserves. It is the world's second largest oil producer (after the United States) and the largest oil exporter.[53]

AMERICAN OVERSIGHT



SAUDI ARABIA

- KSA's electricity demand has recently grown around 8-10% per year. Electricity generating capacity is expected to grow to approximately 120 GWe by 2032 primarily through renewable (mainly solar) energy.[54]
- KSA desalinates 70% of its potable water using electricity generated by oil and gas and is considering using nuclear energy for desalination as well as power generation.[55]
- KSA has been researching the possibility of developing nuclear power since the 1980s. In 1988, the KSA government established the Atomic Energy Research Institute to adapt nuclear science and technologies in support of its economic, industrial, and agricultural strategic plans.[56]
- In 2006, KSA first investigated a regional approach to civil nuclear power within the Gulf Cooperation Council (GCC). In 2007, KSA participated with the IAEA in a feasibility study for construction of a regional nuclear power and desalination plant.[57]
- In August 2009, KSA like many nations in the region decided to proceed with its own civil nuclear program.[58]
- In April 2010, the KSA created the KACARE to support its nuclear energy plans and to engage in international agreements for nuclear energy on behalf of the Kingdom. KACARE is responsible for drafting a national policy on nuclear energy development, managing commercial uses of nuclear power by promoting private sector nuclear and renewable energy applications for agriculture, health care, water desalination, and power generation, and handling radioactive waste. KACARE also supports university research and R&D training programs and conferences.[59]
- In its National Transformation Program 2020 initiative, KACARE set milestones for integrating atomic energy into its national energy mix with electricity generating capacity expected to grow to approximately 120 GWe by 2032. The KACARE nuclear energy initiative includes conducting infrastructure assessments, site surveys, value chain studies, human capacity development analyses, R&D research reactor studies, business models and investment analyses, as well as establishing an independent regulatory body and engaging in international bilateral cooperative agreements.[60]
- KSA established Nuclear Energy Research Centers at the KACST and the King Abdullah University of Science and Technology (KAUST).[61]
- KSA does not have an operation research reactor; however, King Fadh University of Petroleum and Minerals (KFUPM) has a Tandetron accelerator used in nuclear physics experiments and King Faisal Specialist Hospital in Riyadh has a cyclotron used to produce medical isotopes. There is one research reactor currently under construction in KSA.[62]
- Although the media cites plans of up to 16 reactors and 17 GWe, Chief Atomic Energy Officer at KACARE, Maher al-Odan, stated to U.S. Embassy representatives in February 2018 that Saudi Arabia plans to construct 16 nuclear reactors over the next 20-25 years are erroneous. He said that the Saudi National Atomic Energy Plan called for the construction of two large reactors, not 16, to produce about 2.8 GWe of power, plus possible construction of small modular reactors. Al-Odan explained that media reports were using outdated information from an old KACARE national energy plan that has been discarded.[63]
- KSA plans to construct 2 large nuclear power plants with up to 2.8 GWe of nuclear capacity and 40 GWe of solar.[64]
- KACARE is also considering SMRs for desalination.[65]

AMERICAN OVERSIGHT

SAUDI ARABIA

Reactors[66]

Unit Name	Technology	Imported From	Net Generating Capacity (MWe)	Year of Commercial Operation
DOMESTIC				
OPERATING				
None				
UNDER CONSTRUCTION				
None				
PLANNED				
Reactors 1-2	Unknown	Potential suppliers: United States, France, China, S. Korea, Russia	TBD	TBD

INTERNATIONAL COOPERATION

- In 2010, KSA hired several international firms to begin its infrastructure development and site selection, including Finnish- and Swiss-based Poyry consulting firm, hired to build a high-level renewable and nuclear energy strategy for KACARE, and Worley Parsons Ltd, an Australian consulting firm, hired to conduct site selection and nuclear tenders.[67]
- In February 2011, KSA and France signed an agreement on peaceful nuclear energy cooperation that allows the two countries to cooperate in the fields of production, use, and transfer of knowledge of peaceful uses of nuclear energy.[68]
- In 2011, KSA signed agreements signed with Argentina to explore its CAREM reactor for water desalination and with South Korea on nuclear research and development, building NPPs and research reactors, training, safety and waste management.[69]
- In January 2012, KSA signed a nuclear cooperation agreement with China that focuses on nuclear plant development and maintenance, research reactors and fabricated fuel. In August 2014, KSA signed an agreement with CNNC for human resource development.[70]
- In September 2013, GEH Nuclear Energy and Toshiba/Westinghouse signed contracts with Exelon Nuclear Partners (ENP), a division of Exelon Generation, to pursue reactor construction deals with KACARE. GEH is proposing its ABWR and ESBWR, while Toshiba/Westinghouse is proposing the AP1000 and its ABWR version. The agreements are currently facing delays due to lower oil prices.[71]
- In January 2014, KSA and Jordan agreed to cooperate on nuclear energy and technologies, design, construction, and operation.[72]
- In March 2015, the Korea Atomic Energy Research Institute (KAERI) signed an agreement with KACARE to assess the potential for building at least two SMART reactors in the country.[73]
- In March 2015, Argentinian state-owned company, INVAP, and Saudi technology innovation company, Taqnia, set up Invania, a joint venture to develop technology for KSA's nuclear power program.[74]
- In June 2015, KSA signed an agreement with Rosatom for cooperation in nuclear energy, including design, construction, operation, and decommissioning of nuclear power and research reactors; nuclear fuel cycle services, management of used nuclear fuel and radioactive waste management; production of isotopes and their application in industry; medicine and agriculture; and nuclear related training and education.[75]

AMERICAN OVERSIGHT



SAUDI ARABIA

- In January 2016, KACARE signed an agreement with China Nuclear Engineering Corporation (CNEC) to build a high-temperature reactor (HTR) in the country, based on the HTR-PM now under construction in China by CNEC.[76]
- In March 2017, KSA signed an agreement with Jordan for cooperation in uranium exploration and an SMR feasibility study for the construction of two small SMRs in Jordan.[77]
- See above (bilateral engagement) for recent cooperation and U.S. bilateral engagement under 2017 Competitive Dialogue process.[78]

NUCLEAR ORGANIZATIONAL CHARTS

- In April 2010, KSA established KACARE in Riyadh to advance KSA's contributions to sustainable development in nuclear and renewable energy. In the nuclear area, KACARE is the authority to advance the civil nuclear agenda and supervise nuclear energy projects and radioactive waste projects.[79]
- In 2014, KSA set up the National Saudi Arabian Atomic Regulatory Authority (SAARA) for regulatory activity.[80]

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-002293

SAUDI ARABIA

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Desk Officer, Office of Nuclear Energy, U.S. Department of Energy. Aug. 2017.
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SAUDI ARABIA

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AMERICAN OVERSIGHT

From: Ed McGinnis
To: Scott, Michelle
Cc: Lennon, Sarah
Subject: Westinghouse
Date: Sunday, February 5, 2017 2:55:20 PM
Attachments: 2017-02-05 S1 Informational on Toshiba and Westinghouse - Short Version (01).docx

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(SBU). Thanks again, Michelle. I have made some adjustments. Please take another pass to make sure I don't have any obvious type-o's. Unless you have any other changes, please clean up, remove all tracked changes, and send forward,

Thanks!!!
Ed

Sent from my iPad

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From: Scott, Michelle
To: McGinnis, Edward
Cc: DiGiulian, Maria
Subject: WEC attachments
Date: Wednesday, April 5, 2017 5:24:00 PM
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Final.docx
2017-04-05 S1 Westinghouse Meeting TPs-Final.docx
Att 3 - 2017-04-04 Active Westinghouse Advocacy Center Cases.xlsx
Attachment Part 810s for WEC.docx
Att 4 Westinghouse Bios.docx

For tomorrow meetings.

Michelle Scott
Senior Advisor
Office of International Nuclear Energy Policy & Cooperation
Office of Nuclear Energy
202-586-9719

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S1 BRIEFING

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: April 6, 2017
TIME: 3:30-4:00
LOCATION: S1 Conference Room

PURPOSE: This meeting is with Jose Gutierrez, the interim President and CEO of Westinghouse Electric Company (WEC). Mr. Gutierrez requested this meeting to discuss the impact of WEC's March 29 filing for Chapter 11 bankruptcy filing and reorganization plan, provide an overview of WEC's business, and discuss issues relevant to DOE and its mission. You recently had an initial call with Mr. Gutierrez last week regarding WEC's filing of Chapter 11. Also to note, Mr. Gutierrez is scheduled to meet with Department of Commerce Secretary Ross at 9:30 to discuss the same issues prior to your meeting.

PRESS: **Closed**

LOGISTICS: **N/A**

ATTENDEES:

Westinghouse:

- Mr. Gutierrez, Interim President and CEO
- David Howell, President, Americas Region,
- Jeanne Lopatto, Vice President, Government and International Affairs.

DOE:

- Ed McGinnis, Deputy Secretary for International Nuclear Energy Policy and Cooperation, NE-6
- Michelle Scott, Senior Advisor, International Nuclear Energy Policy and Cooperation, NE-6
- NNSA Staff (TBD)
  - Kelly Cummins, Uranium Program Manager (NA-19)
  - Kasia Mendelsohn, Assistant Deputy Administrator for Nonproliferation and Arms Control (NA-24)
- Andrea Lockwood, Acting Assistant Secretary for International Affairs (IA)

BACKGROUND:

Westinghouse Chapter 11 Filing. On March 29, WEC—a prominent builder of nuclear power plants and nuclear fuel supplier—filed a petition of relief under Chapter 11 with the U.S. Bankruptcy Court of New York seeking bankruptcy protection as a result of significant financial losses. The bankruptcy process will be used to restructure and renegotiate the Vogtle and Summer nuclear power plant contracts. The initial stage of the bankruptcy proceeding will last for thirty days, but the proceeding can be extended for as long as it takes to achieve an acceptable restructuring and address related issues. Successful restructuring is an essential prerequisite for achieving Toshiba's primary objective -- finding

AMERICAN OVERSIGHT

a new owner for WEC. Toshiba Corporation, - the current parent of WEC, has indicated it does not intend to maintain ownership of WEC. The fate of WEC impacts U.S. economic and national security for several reasons: 1) WEC is the only American nuclear company currently building commercial nuclear reactors, both in the United States and globally, and supplies fuel to one-third of the world's reactors, including the majority in the United States; 2) U.S. leadership in the nuclear power industry helps set the highest safety and security standards in nuclear power globally and supports tens of thousands of American jobs (WEC has 14,000 employees and supports 10,000 jobs at two nuclear facility construction sites in the United States); 3) WEC performs vital work for the Departments of Defense and Energy related to U.S. national security and nonproliferation missions.

Defense Program Work with WesDyne. Defense Programs (NA-10) relies on WesDyne, a wholly-owned subsidiary of WEC, to meet tritium requirements of the nuclear stockpile through three key activities:

- Fabrication and assembly of Tritium Producing Burnable Absorber Rods (TPBARs) that are irradiated in Tennessee Valley Authority (TVA) reactors to support tritium production
- Production of Low-Enriched Uranium (LEU) fuel, including downblending of Highly Enriched (HEU) to LEU, for TVA reactors that irradiate TPBARs
- Design of reactor cores for TVA Watts Bar Units 1 and 2 to increase tritium production to meet stockpile requirements

Note: WesDyne is not one of the Westinghouse subsidiaries included in the Westinghouse bankruptcy filings.

Key Global Markets: WEC maintains nuclear reactor design, engineering, manufacturing, research and development, and nuclear services-related facilities at 70 locations in 17 countries worldwide. WEC's primary new reactor design is the AP1000, an advanced, passively-safe pressurized water reactor. There are no AP1000 units in operation, however there are four units under construction in China in addition to the four units in the United States. The first reactor unit is expected to start operations in China by the end of this year, and the remaining three Chinese units entering service by 2020. The four U.S. AP1000 units under construction are expected to begin operation by the 2020 timeframe unless the contract renegotiations are not successful under the Chapter 11 reorganization. WEC is also in negotiations on a contract to build six AP1000s in India and is negotiating contracts in the UK for the NuGen project to build three reactor units at the Moorside site. Toshiba currently has a 60% stake in the NuGen project with French utility Engie holding a 40% stake. However, press reporting on April 4 confirmed that Engie exercised its right to sell its 40% stake in the NuGen venture back to Toshiba. This follows the Chapter 11 bankruptcy filing, resulting in Toshiba being the sole stake owner of NuGen. Toshiba has stated that it is looking for additional investors to join the NuGen project or to sell its stake in the project altogether. Korea Electric Power Corporation (KEPCO) has been in discussions with NuGen and Toshiba officials to potentially join the consortium. WEC's other opportunities include current negotiations with China's State Nuclear Power Technology Corporation (SNPTC) to serve as a subcontractor for the construction of ten additional AP1000s, and is in discussions with China National Nuclear Corporation (CNNC) to provide plant instrumentation and control systems. These projects would support billions of dollars in U.S. civil nuclear exports. WEC also has very strong global nuclear fuel supply and reactor services business lines. USG has strong interest in maintaining US control of WEC and keeping WEC intact as a strong player in global markets.

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***(If Raised)* Status of Vogtle and Summer Nuclear Reactors and Loan Guarantee.** Four AP1000 units are under construction in the United States -- units 3 and 4 at the Vogtle Nuclear Power Plant in Georgia and units 2 and 3 at the Summer Nuclear Power Plant in South Carolina. Construction of the Vogtle units began in 2013, but it has experienced significant delays. The current time-line for completion is 2019 and 2020. The Summer units were started in 2013, with a target completion date of 2020. NOTE: The AP1000 units in China have also experienced approximately 1+ year delays; however the first unit is expected to become operational by the end of this year, with the remaining three expected to be operational by 2020.

DOE's Loan Program Office provided loans to three of the owners of the Vogtle 3&4 Nuclear Power Plant (Georgia Power Company, Oglethorpe Power Company, and Municipal Electric Authority of Georgia (MEAG)), but did not provide loans for the construction of the Summer nuclear projects. The aggregate amount of loans guaranteed by DOE for Vogtle 3&4 is $8.3 billion and the estimated project cost for Vogtle 3&4 is $12.4 billion. DOE is not obligated for any costs in excess $8.3 billion. Georgia Power Company, Oglethorpe Power Company, and Municipal Electric Authority of Georgia (MEAG) are investment grade entities and are responsible for repayment of their respective loans. Construction of the Project has not been interrupted by the WEC bankruptcy filing.

For Vogtle, the borrowers have agreed to pay WEC Vogtle-related overhead costs and its sub-contractors' invoices for an interim period (30 days, subject to extension upon agreement of WEC and the Borrowers) in order fund the construction at the Project. All Borrowers have stated that they are committed to completing the Project, including funding reasonable cost overruns and anticipated delays. LPO has been actively monitoring the Borrowers and the status of the Project from a technical, legal and financial perspective.

***If Raised*) Russian Fuel entering the U.S. Pressurized Water Reactor Market.** WEC is expected to raise its concerns about the announced May 2016 Joint Venture between TVEL (Russia) and GE-Hitachi (U.S.-Japan) that would facilitate GE-Hitachi's (GEH) production of Russian-designed pressurized water reactor (PWR) fuel for the U.S. market. WEC can be expected to express opposition to the plan on the basis that the Russian nuclear fuel market currently remains closed to WEC and other U.S. nuclear fuel suppliers. GEH plans to fabricate the Russian-designed fuel at its Wilmington, NC, facility. Although GEH and its utility partner Exelon are currently in discussions with the Department regarding certain activities related to fuel fabrication in Russia in cooperation with TVEL. WEC has incorrect presumptions about the intent of the GEH/Exelon requests. *However, as a regulatory matter, the Department does not comment on another company's request involving Part 810 activities to another company*. It is recommended that you not provide a specific response to WEC's concerns. If WEC raises the pending Part 810 applications for GEH and Exelon, or any other non-WEC companies, you should decline to comment.

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MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

[1] Under Part 810, the Secretary has granted a general authorization for certain categories of activities which the Secretary has found to be non-inimical to the interest of the United States, including assistance or transfers involving non-sensitive technology to a listed set of generally-authorized countries. The determination of which countries are generally authorized depends on a number of factors, including the existence of a bilateral agreement for peaceful nuclear cooperation (123 Agreement) with the United States, the country's nonproliferation credentials, and the significance and scope of its nuclear trade relationship with the United States.

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ATTACHMENT 2: TALKING POINTS

Westinghouse Chapter 11 Filing

- We appreciate the challenging financial situation facing Westinghouse. DOE and other U.S. Government agencies are closely monitoring the situation and want to be supportive as possible as you proceed through your reorganization plans.

- We recognize the importance of completing the Vogtle and Summer sites to support future new construction in the US and maintaining the thousands of skilled people Westinghouse employs.

- The work Westinghouse is doing is not only very important for the thousands of Americans you employ and the significant benefit to our U.S. manufacturing base, but also critical to our US national security interests.

- We certainly appreciate your statement "Westinghouse looks to come out of this bankruptcy process even stronger than before". We hope that will be the case as well. Your success is very important to our nation.

- My staff stands ready to remain in close communications with you as you work through this challenging time.

Defense Program Work with WesDyne

- I recognize the important role that Westinghouse plays in helping us meet the U.S. tritium needs of the nuclear stockpile.

- We look forward to continuing this national security work with you as Westinghouse reorganizes.

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Key Global Markets

- We also appreciate the significant global market that Westinghouse has secured, both in reactors and fuel services.

- We understand your work in India to build 6 reactors is still proceeding and would welcome hearing more about your global market priorities.

TALKING POINTS FOR "IF RAISED" ISSUES

(If Raised) Status of Vogtle and Summer Nuclear Reactors and Loan Guarantee

- DOE is committed to these projects, and the owners have committed to the completion publicly.

(If Raised) Russian Fuel in US Pressurized Water Reactor Market

- Thank you for your points.

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(If Raised) Pending Westinghouse Part 810 Applications

- The Department is continuing to evaluate its path forward for these applications.

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Advocacy Center Active Cases for Westinghouse - OUO

Case Number	AC Project Name	AC Project Status	AC Expected Project Value	AC Expected U.S. Export Content	Case Owner: Full Name	Actual Create Date
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Attachment 3

ACTIVE WEC PART 810 SPECIFIC AUTHORIZATIONS

For work in China

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For work in India

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For work in Mexico

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\PENDING WEC PART 810 SPECIFIC AUTHORIZATIONS

For work in China

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AMERICAN OVERSIGHT

José Emeterio Gutiérrez
Interim President & CEO



José Emeterio Gutiérrez has been recently appointed Interim President and CEO of Westinghouse Electric Company following his position as Senior Vice President of the Westinghouse global Nuclear Fuel and Components Manufacturing organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and services to a global customer base.

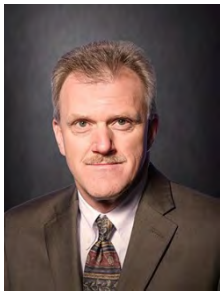
Prior to this role, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

He has been and continues to serve as chairman, CEO and president of several Westinghouse subsidiaries across the globe. Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States. He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st Green Belt.

David A. Howell, P.E.
President – Americas Region



David Howell brings over 34 years of strategic nuclear industry leadership to his role as president, Americas Region.

Appointed to the position in March 2017, Howell leads Westinghouse customer relationship management and all commercial responsibilities for the core business of Westinghouse in the Americas Region including account team development and deployment. He oversees the company's global commercial and marketing organization, government and international affairs, global security and facilities management. Most recently, Howell was senior vice president, Operating Plant Business, where he held executive operational responsibility for all products and services related to growth and enhancement of the company's instrumentation and control (I&C) business, outage support and plant

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modification services. He also oversaw engineering products and nuclear parts for pressurized water reactors and boiling water reactors worldwide.

In a previous role as Westinghouse vice president of Global Field Services, Howell had complete executive oversight of the company's outage support, advanced products, nuclear power plant component services and customer training globally.

Howell has held engineering and field operations management positions for the company's business lines related to reactor vessel and steam generator inspection, and repair for pressurized water reactor nuclear steam supply systems. He also was a lead design engineer for remote reactor repair projects.

He holds six patents for innovative equipment serving this market. Howell is a black belt in Six Sigma and Lean processes. He also is a certified Customer 1st Leader and was the deployment director for that program within the Westinghouse Nuclear Fuel business, where he drove implementation throughout that business.

A registered professional engineer in Pennsylvania, Howell has a bachelor's degree in mechanical engineering from Geneva College in Beaver Falls, Pennsylvania (USA). He is a member of the Geneva College Advanced Board, and is an elder in the Presbyterian Church in America.

Howell also is a member of the Westinghouse Operating Committee and a past member of the Westinghouse Board of Directors. He is also a member of several advisory committees and steering groups sponsored by the Nuclear Energy Institute.

Jeanne T. Lopatto
Vice President, Government & International Affairs



Jeanne T. Lopatto, Vice President of Government and International Affairs at Westinghouse Electric Company, heads the firm's Washington, D.C. office and is the primary point of contact between the company and the U.S. Government, as well as with Washington, D.C.-based foreign embassies. In this capacity, she plays a crucial role in formulating Westinghouse's policy strategies and advises decision makers on issues important to Westinghouse.

Before joining Westinghouse, Jeanne was the Special Assistant for International and Federal Affairs to Nils Diaz, Chairman of the U.S. Nuclear Regulatory Commission. From 2001 to 2005, she was the Director of Public Affairs at the U.S. Department of Energy, where she served as the official spokesperson for Energy Secretary Spencer Abraham and directed the public relations programs for DOE. Before that she worked on Capitol Hill for Sen. Orrin G. Hatch (R-UT) in a variety of media relations positions, including Press Secretary for the U.S. Senate Judiciary Committee.

A native of Pennsylvania, Ms. Lopatto is a graduate of Dickinson College, in Carlisle, PA.

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Jonathan Chesebro; Devin Horne (Devin.Horne@trade.gov)
Subject: FW: WEC attachments
Date: Wednesday, April 5, 2017 5:30:00 PM
Attachments: 2017-04-05 S1 Westinghouse Meeting Memo - Final.docx
2017-04-05 S1 Westinghouse Meeting TPs-Final.docx
Att 3 - 2017-04-04 Active Westinghouse Advocacy Center Cases.xlsx
Attachment Part 810s for WEC.docx
Att 4 Westinghouse Bios.docx

Attached is the S1 meeting memo, tps and other background material.

-----Original Message-----
From: Scott, Michelle
Sent: Wednesday, April 05, 2017 5:24 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: DiGiulian, Maria <Maria.DiGiulian@Hq.Doe.Gov>
Subject: WEC attachments

For tomorrow meetings.

Michelle Scott
Senior Advisor
Office of International Nuclear Energy Policy & Cooperation
Office of Nuclear Energy
202-586-9719

AMERICAN OVERSIGHT

S1 BRIEFING

EVENT: **Meeting with José Emeterio Gutiérrez, Interim President and CEO, Westinghouse Electric Company**

DATE: April 6, 2017
TIME: 3:30-4:00
LOCATION: S1 Conference Room

PURPOSE: This meeting is with Jose Gutierrez, the interim President and CEO of Westinghouse Electric Company (WEC). Mr. Gutierrez requested this meeting to discuss the impact of WEC's March 29 filing for Chapter 11 bankruptcy filing and reorganization plan, provide an overview of WEC's business, and discuss issues relevant to DOE and its mission. You recently had an initial call with Mr. Gutierrez last week regarding WEC's filing of Chapter 11. Also to note, Mr. Gutierrez is scheduled to meet with Department of Commerce Secretary Ross at 9:30 to discuss the same issues prior to your meeting.

PRESS: **Closed**

LOGISTICS: **N/A**

ATTENDEES:

Westinghouse:

- Mr. Gutierrez, Interim President and CEO
- David Howell, President, Americas Region,
- Jeanne Lopatto, Vice President, Government and International Affairs.

DOE:

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- Michelle Scott, Senior Advisor, International Nuclear Energy Policy and Cooperation, NE-6
- NNSA Staff (TBD)
  - Kelly Cummins, Uranium Program Manager (NA-19)
  - Kasia Mendelsohn, Assistant Deputy Administrator for Nonproliferation and Arms Control (NA-24)
- Andrea Lockwood, Acting Assistant Secretary for International Affairs (IA)

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a new owner for WEC. Toshiba Corporation, - the current parent of WEC, has indicated it does not intend to maintain ownership of WEC. The fate of WEC impacts U.S. economic and national security for several reasons: 1) WEC is the only American nuclear company currently building commercial nuclear reactors, both in the United States and globally, and supplies fuel to one-third of the world's reactors, including the majority in the United States; 2) U.S. leadership in the nuclear power industry helps set the highest safety and security standards in nuclear power globally and supports tens of thousands of American jobs (WEC has 14,000 employees and supports 10,000 jobs at two nuclear facility construction sites in the United States); 3) WEC performs vital work for the Departments of Defense and Energy related to U.S. national security and nonproliferation missions.

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***(If Raised)* Status of Vogtle and Summer Nuclear Reactors and Loan Guarantee.** Four AP1000 units are under construction in the United States -- units 3 and 4 at the Vogtle Nuclear Power Plant in Georgia and units 2 and 3 at the Summer Nuclear Power Plant in South Carolina. Construction of the Vogtle units began in 2013, but it has experienced significant delays. The current time-line for completion is 2019 and 2020. The Summer units were started in 2013, with a target completion date of 2020. NOTE: The AP1000 units in China have also experienced approximately 1+ year delays; however the first unit is expected to become operational by the end of this year, with the remaining three expected to be operational by 2020.

DOE's Loan Program Office provided loans to three of the owners of the Vogtle 3&4 Nuclear Power Plant (Georgia Power Company, Oglethorpe Power Company, and Municipal Electric Authority of Georgia (MEAG)), but did not provide loans for the construction of the Summer nuclear projects. The aggregate amount of loans guaranteed by DOE for Vogtle 3&4 is $8.3 billion and the estimated project cost for Vogtle 3&4 is $12.4 billion. DOE is not obligated for any costs in excess $8.3 billion. Georgia Power Company, Oglethorpe Power Company, and Municipal Electric Authority of Georgia (MEAG) are investment grade entities and are responsible for repayment of their respective loans. Construction of the Project has not been interrupted by the WEC bankruptcy filing.

For Vogtle, the borrowers have agreed to pay WEC Vogtle-related overhead costs and its sub-contractors' invoices for an interim period (30 days, subject to extension upon agreement of WEC and the Borrowers) in order fund the construction at the Project. All Borrowers have stated that they are committed to completing the Project, including funding reasonable cost overruns and anticipated delays. LPO has been actively monitoring the Borrowers and the status of the Project from a technical, legal and financial perspective.

***If Raised*) Russian Fuel entering the U.S. Pressurized Water Reactor Market.** WEC is expected to raise its concerns about the announced May 2016 Joint Venture between TVEL (Russia) and GE-Hitachi (U.S.-Japan) that would facilitate GE-Hitachi's (GEH) production of Russian-designed pressurized water reactor (PWR) fuel for the U.S. market. WEC can be expected to express opposition to the plan on the basis that the Russian nuclear fuel market currently remains closed to WEC and other U.S. nuclear fuel suppliers. GEH plans to fabricate the Russian-designed fuel at its Wilmington, NC, facility. Although GEH and its utility partner Exelon are currently in discussions with the Department regarding certain activities related to fuel fabrication in Russia in cooperation with TVEL. WEC has incorrect presumptions about the intent of the GEH/Exelon requests. *However, as a regulatory matter, the Department does not comment on another company's request involving Part 810 activities to another company*. It is recommended that you not provide a specific response to WEC's concerns. If WEC raises the pending Part 810 applications for GEH and Exelon, or any other non-WEC companies, you should decline to comment.

(b) (5)

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(b) (5)

(b) (5)

MEETING/ REQUESTED BY: Jeanne Lopatto, Vice President, Government and International Affairs

BRIEFING PREPARED BY: Michelle Scott, NE

BRIEFING REVIEWED BY: Name (Office)

ATTACHMENTS:

1. Talking Points
2. WEC Current USG Approved Advocacy Cases
3. WEC Current and Pending Part 810 Authorizations
4. Biography for Mr. Gutierrez, Interim President and CEO, Biography for David Howell, President, Americas Region, Westinghouse, and Biography for Jeanne Lopatto, Vice President, Government and International

[1] Under Part 810, the Secretary has granted a general authorization for certain categories of activities which the Secretary has found to be non-inimical to the interest of the United States, including assistance or transfers involving non-sensitive technology to a listed set of generally-authorized countries. The determination of which countries are generally authorized depends on a number of factors, including the existence of a bilateral agreement for peaceful nuclear cooperation (123 Agreement) with the United States, the country's nonproliferation credentials, and the significance and scope of its nuclear trade relationship with the United States.

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ATTACHMENT 2: TALKING POINTS

Westinghouse Chapter 11 Filing

- We appreciate the challenging financial situation facing Westinghouse. DOE and other U.S. Government agencies are closely monitoring the situation and want to be supportive as possible as you proceed through your reorganization plans.

- We recognize the importance of completing the Vogtle and Summer sites to support future new construction in the US and maintaining the thousands of skilled people Westinghouse employs.

- The work Westinghouse is doing is not only very important for the thousands of Americans you employ and the significant benefit to our U.S. manufacturing base, but also critical to our US national security interests.

- We certainly appreciate your statement "Westinghouse looks to come out of this bankruptcy process even stronger than before". We hope that will be the case as well. Your success is very important to our nation.

- My staff stands ready to remain in close communications with you as you work through this challenging time.

Defense Program Work with WesDyne

- I recognize the important role that Westinghouse plays in helping us meet the U.S. tritium needs of the nuclear stockpile.

- We look forward to continuing this national security work with you as Westinghouse reorganizes.

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Key Global Markets

- We also appreciate the significant global market that Westinghouse has secured, both in reactors and fuel services.

- We understand your work in India to build 6 reactors is still proceeding and would welcome hearing more about your global market priorities.

TALKING POINTS FOR "IF RAISED" ISSUES

(If Raised) Status of Vogtle and Summer Nuclear Reactors and Loan Guarantee

- DOE is committed to these projects, and the owners have committed to the completion publicly.

(If Raised) Russian Fuel in US Pressurized Water Reactor Market

- Thank you for your points.

(b) (5)

(If Raised) Pending Westinghouse Part 810 Applications

- The Department is continuing to evaluate its path forward for these applications.

(b) (5)

(b) (5)

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Advocacy Center Active Cases for Westinghouse - OUO

Case Number	AC Project Name	AC Project Status	AC Expected Project Value	AC Expected U.S. Export Content	Case Owner: Full Name	Actual Create Date
(b) (5)						

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S1 BRIEFING

Attachment 3

ACTIVE WEC PART 810 SPECIFIC AUTHORIZATIONS

For work in China

(b) (5)

For work in India

(b) (5)

For work in Mexico

(b) (5)

\PENDING WEC PART 810 SPECIFIC AUTHORIZATIONS

For work in China

(b) (5)

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José Emeterio Gutiérrez
Interim President & CEO



José Emeterio Gutiérrez has been recently appointed Interim President and CEO of Westinghouse Electric Company following his position as Senior Vice President of the Westinghouse global Nuclear Fuel and Components Manufacturing organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and services to a global customer base.

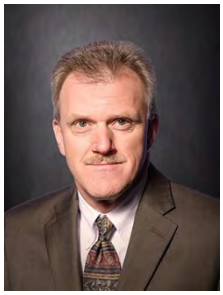
Prior to this role, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

He has been and continues to serve as chairman, CEO and president of several Westinghouse subsidiaries across the globe. Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States. He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st Green Belt.

David A. Howell, P.E.
President – Americas Region



David Howell brings over 34 years of strategic nuclear industry leadership to his role as president, Americas Region.

Appointed to the position in March 2017, Howell leads Westinghouse customer relationship management and all commercial responsibilities for the core business of Westinghouse in the Americas Region including account team development and deployment. He oversees the company's global commercial and marketing organization, government and international affairs, global security and facilities management. Most recently, Howell was senior vice president, Operating Plant Business, where he held executive operational responsibility for all products and services related to growth and enhancement of the company's instrumentation and control (I&C) business, outage support and plant

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modification services. He also oversaw engineering products and nuclear parts for pressurized water reactors and boiling water reactors worldwide.

In a previous role as Westinghouse vice president of Global Field Services, Howell had complete executive oversight of the company's outage support, advanced products, nuclear power plant component services and customer training globally.

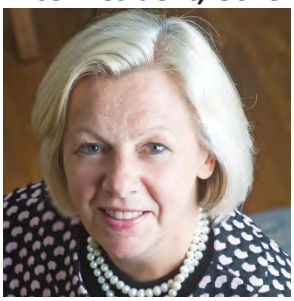
Howell has held engineering and field operations management positions for the company's business lines related to reactor vessel and steam generator inspection, and repair for pressurized water reactor nuclear steam supply systems. He also was a lead design engineer for remote reactor repair projects.

He holds six patents for innovative equipment serving this market. Howell is a black belt in Six Sigma and Lean processes. He also is a certified Customer 1st Leader and was the deployment director for that program within the Westinghouse Nuclear Fuel business, where he drove implementation throughout that business.

A registered professional engineer in Pennsylvania, Howell has a bachelor's degree in mechanical engineering from Geneva College in Beaver Falls, Pennsylvania (USA). He is a member of the Geneva College Advanced Board, and is an elder in the Presbyterian Church in America.

Howell also is a member of the Westinghouse Operating Committee and a past member of the Westinghouse Board of Directors. He is also a member of several advisory committees and steering groups sponsored by the Nuclear Energy Institute.

Jeanne T. Lopatto
Vice President, Government & International Affairs



Jeanne T. Lopatto, Vice President of Government and International Affairs at Westinghouse Electric Company, heads the firm's Washington, D.C. office and is the primary point of contact between the company and the U.S. Government, as well as with Washington, D.C.-based foreign embassies. In this capacity, she plays a crucial role in formulating Westinghouse's policy strategies and advises decision makers on issues important to Westinghouse.

Before joining Westinghouse, Jeanne was the Special Assistant for International and Federal Affairs to Nils Diaz, Chairman of the U.S. Nuclear Regulatory Commission. From 2001 to 2005, she was the Director of Public Affairs at the U.S. Department of Energy, where she served as the official spokesperson for Energy Secretary Spencer Abraham and directed the public relations programs for DOE. Before that she worked on Capitol Hill for Sen. Orrin G. Hatch (R-UT) in a variety of media relations positions, including Press Secretary for the U.S. Senate Judiciary Committee.

A native of Pennsylvania, Ms. Lopatto is a graduate of Dickinson College, in Carlisle, PA.

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Trade/Commerce Equity

> -----Original Message-----
> From: Scott, Michelle
> Sent: Wednesday, April 05, 2017 5:24 PM
> To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
> Cc: DiGiulian, Maria <Maria.DiGiulian@Hq.Doe.Gov>
> Subject: WEC attachments
>
> For tomorrow meetings.
>
>
>
> Michelle Scott
> Senior Advisor
> Office of International Nuclear Energy Policy & Cooperation
> Office of Nuclear Energy
> 202-586-9719
>
>
> <2017-04-05 S1 Westinghouse Meeting Memo - Final.docx>
> <2017-04-05 S1 Westinghouse Meeting TPs-Final.docx>
> <Att 3 - 2017-04-04 Active Westinghouse Advocacy Center Cases.xlsx>
> <Attachment Part 810s for WEC.docx>
> <Att 4 Westinghouse Bios.docx>

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From: Lopatto, Jeanne T.
To: Scott, Michelle
Subject: VC Summer
Date: Wednesday, August 2, 2017 4:38:49 PM

Michelle, here are some TPs for your use re impact of VC Summer decision. Please don't email these around to a big crew. Thanks! And good luck tomorrow!

V.C. Summer Early Project Closure Background

Westinghouse has been working closely with U.S. AP1000 plant construction customers to assess the paths forward, since the company's Chapter 11 bankruptcy filing on March 29, 2017.

The V.C. Summer 2&3 AP1000 plant construction project in South Carolina, USA was under an interim assessment agreement when the board of directors of Santee Cooper on July 31 declared that they would not support the continued construction of the two Westinghouse AP1000 nuclear power plants. In turn, the project's majority owner SCANA terminated the Interim Assessment Agreement and closed the project.

Westinghouse respects the actions of the owners, but is disappointed:

- The significant progress made on these two units – demonstrated by the recently completed installation of the entire nuclear steam supply system (NSSS) – no longer will go forward

Westinghouse applauds the steadfast work completed to date by the project's team.

This action in no way diminishes the benefits of the AP1000 plant design, including its passive safety features and strong licensing pedigree, continue to be recognized worldwide.

Westinghouse remains committed to its AP1000 technology as the industry's premier Gen III+ nuclear power plant design, and plans to continue work on existing projects in Georgia in the U.S., and China, as well as the pursuit of other potential future projects

Westinghouse announced July 31 that it reached a critical milestone in the Chapter 11 bankruptcy process by submitting its five-year business plan to the company's debtor-in-possession (DIP) financing lenders and the unsecured creditors committee on July 27.

The five-year business plan supports the successful operation of the company's core businesses as well as the company's New Projects Business.

In light of the V.C. Summer 2&3 closure decision, Westinghouse will evaluate the implications on its business plan and its announced headcount adjustment in the normal course of business.

Westinghouse remains confident that the company will emerge from this financial reorganization as a stronger company and a global nuclear technology leader.

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com

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Home Page: www.westinghousenuclear.com

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From: Scott, Michelle
To: Lopatto, Jeanne T.
Subject: RE: Wed is good for us for a call
Date: Tuesday, August 15, 2017 1:04:00 PM

Jeanne,

Please see below the agenda topics for tomorrow:

Agenda for Conf Call with WEC:

- Summarize the meeting with BEIS Officials
- Discuss the 5 elements' WEC laid out to support moving forward on the NuGen project
- Discuss any impediments that WEC may have due to the Bankruptcy process to structure a deal
- Discuss with WEC how a could a deal be structured
- Hear an update from WEC on their engagement to reach out to Agencies' Principals and the Administration

Let me know if you have any questions
Michelle

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Tuesday, August 15, 2017 11:37 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: Wed is good for us for a call

Very good. Thanks!

From: Scott, Michelle [mailto:MICHELLE.SCOTT@nuclear.energy.gov]
Sent: Tuesday, August 15, 2017 11:35 AM
To: Lopatto, Jeanne T.
Subject: RE: Wed is good for us for a call

10am to 11:30 is confirmed. I will send you the invite.

From: Lopatto, Jeanne T. <lopattjt@westinghouse.com>
Date: Monday, Aug 14, 2017, 4:02 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: Wed is good for us for a call

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We are holding the time open 930 to 12 so just let me know what you settle on.

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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From: Gillespie, Mary
Cc: Scott, Michelle
Subject: WEC NE4 Presentation Sarah Lennon (9-13-17).ppt
Date: Friday, September 15, 2017 9:42:28 AM
Attachments: WEC NE4 Presentation Sarah Lennon (9-13-17).ppt

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Westinghouse Bankruptcy: Status & Implications for U.S. Industry

Sarah G.J. Lennon

NE-4 Staff Meeting

September 13, 2017

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Westinghouse Electric Company (WEC)

- Company of 14,000 employees based out of Cranberry, PA
- Parent company is Toshiba
- Designer of the AP1000 nuclear reactor
- Provides fuel, service, maintenance, instrumentation and control systems for nuclear facilities worldwide
- Declared Chapter 11 Bankruptcy on March 29, 2017 due to losses associated with U.S. Summer & Vogtle projects

Westinghouse



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- **Ownership of WEC:** Toshiba is currently the 87% owner of WEC. IHI owns 3% and Kazatomprom owns 10%. Both IHI and Kazatomprom have options that force Toshiba to buy back their shares, which activate this fall. After they sell back their shares, Toshiba will own 100%.

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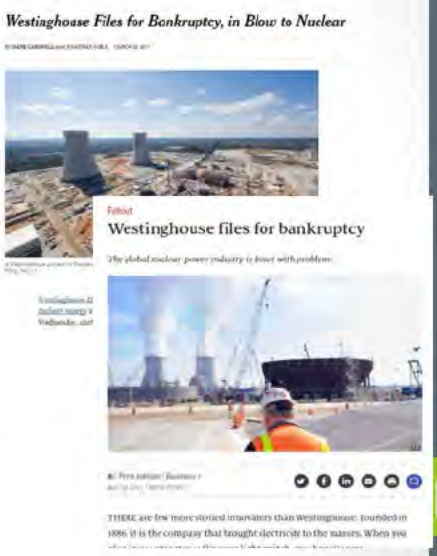
What caused Westinghouse's Bankruptcy?

Explanations vary, but some speculative reasons include:

- Cost overruns due to first-of-a-kind construction
- Disagreements between contractors, leading to delays
- Atrophied nuclear construction experience
- Low construction productivity rate
- New regulatory requirements following 9/11/01 and Fukushima Daiichi accident
- The "nuclear renaissance" never materialized


Westinghouse Files for Bankruptcy, in Blow to Nuclear

Fallout

Westinghouse files for bankruptcy

"The global nuclear power industry is beset with problems."

THERE are few more storied innovators than Westinghouse. Founded in 1886, it is the company that brought electricity to the masses. When you

3

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- The AP1000 was supposed to use efficient, modular construction to deploy an entire fleet across the United States. They had a number of problems with parts not being up to spec and having to be sent back and remade – due partly to lack of nuclear construction experience and new regulatory requirements. The sites also had very low productivity.
- **Total costs for Summer:** Original budget was $11 billion; now estimated at $16 billion (plus $2.2 billion from Toshiba).
- **Total costs for Vogtle:** Original estimate was $9.5 billion; now estimates range from $14-16 billion (plus $3.7 billion from Toshiba).

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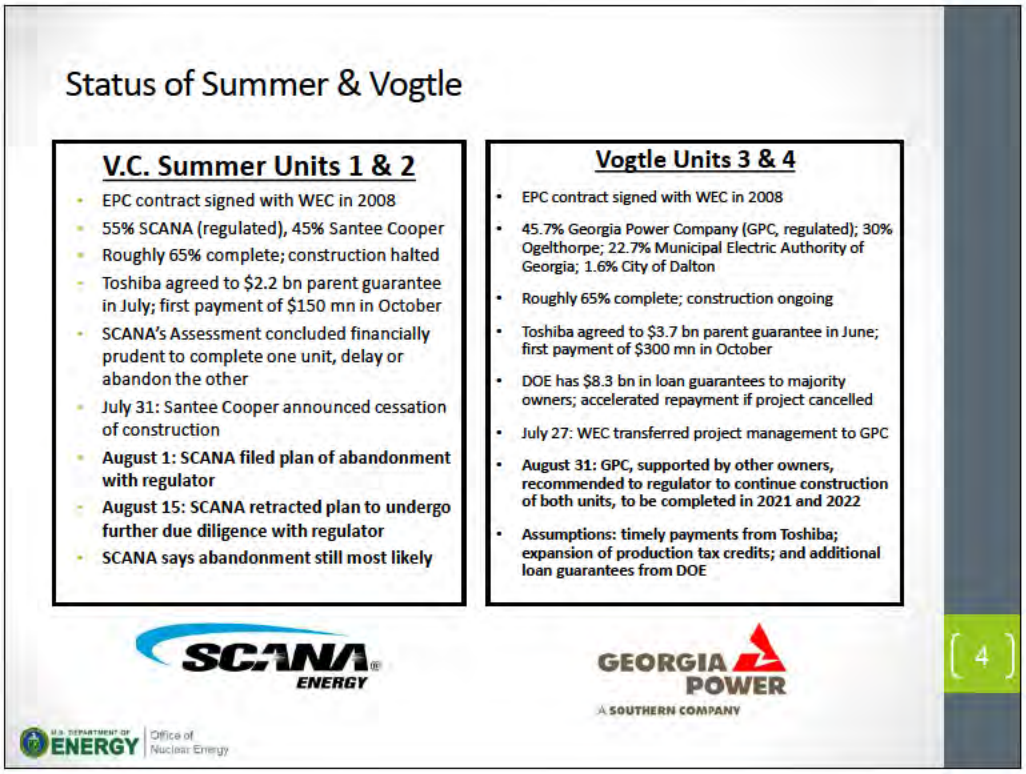

Why has Vogtle always been more likely to go forward?

- Georgia Power Company has a much larger rate base (2.4 million) compared to SCANA (700k).
- The Vogtle owners receive more from Toshiba than the Summer owners due to having a better original EPC contract (Vogtle was signed first).
- The Vogtle project has four owners underwriting the project, whereas Summer has only two – so Vogtle's risk is more spread out.

Vogtle loan guarantee:

- $8.3 billion guarantee is to three of Vogtle's owners (GPC, Ogelthorpe, and Municipal Electric Authority of Georgia).
- Cancellation of project means owners must repay in 5 years versus 27 years.
- GPC is negotiating with DOE/LPO to increase its loan guarantee.

Summer loan guarantee:

- Summer was offered the opportunity to pursue a loan guarantee with DOE, but chose not to.

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Steam generator placed in Vogtle Unit 3 on August 15



5

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- Toshiba can sell its equity interest in WEC at any time (but no one is interested in taking on those liabilities right now)
- The Bankruptcy Court determines how and to whom WEC's assets will be sold, and how to resolve its liabilities
- Toshiba declared a negative net worth of about $5 billion for Japanese FY2016 ending in March 2017; it must bring its balance sheet into the positives by March 2018 to avoid being delisted from the Tokyo Stock Exchange.

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- **China:** Fuel loading for the first AP1000 at Sanmen-1 expected this fall (has been delayed several times due to customer decision).
- **India:** WEC is negotiating with the Government of India to take on construction risk.
- **NuGen:** Toshiba is planning to sell NuGen, and has received bids from China and Korea, who will likely wish to build a different technology.

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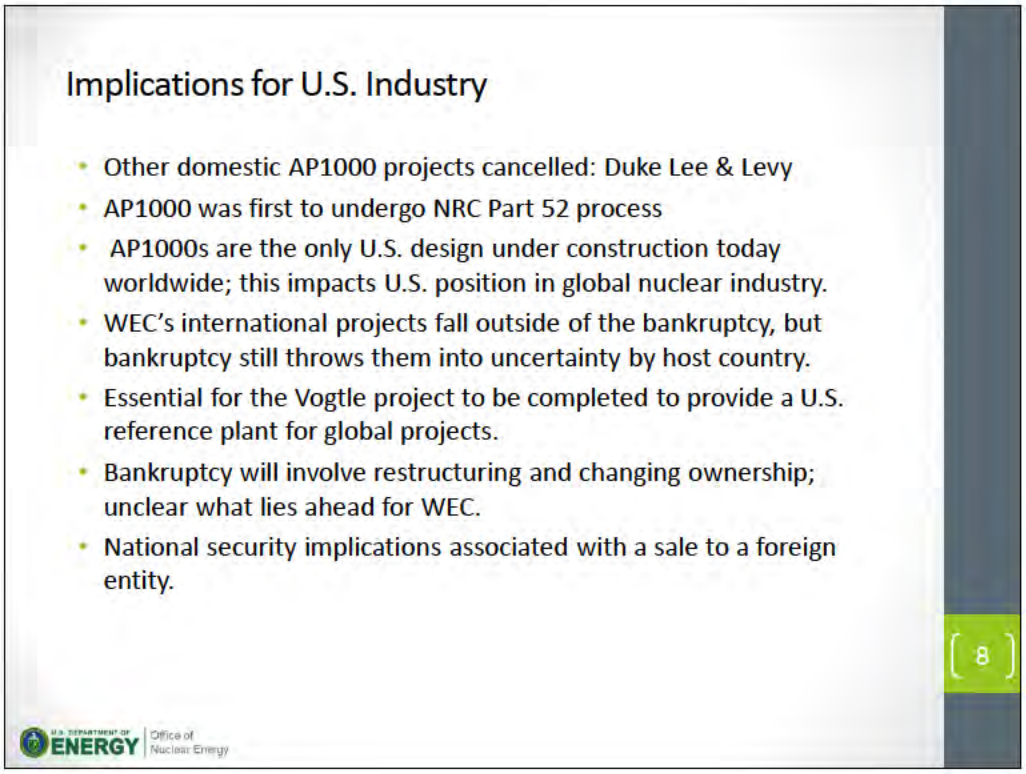

- Duke Lee and Duke Levy were planning to build AP1000s (North Anna was planning to build GE ESBWRs).

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From: Scott, Michelle
To: Cutler, Kirsten B; Strangis, Katie; Orndorff, Sarah
Cc: Goodman, Jac
Subject: NNSA Equity
Date: Wednesday, November 15, 2017 12:32:00 PM

It's my understanding that when WEC engages with other companies and countries to potentially work together, WEC enters into MOUs with them to be able to collaborate.

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

State Equity

NNSA Equity

AMERICAN OVERSIGHT

From: Lopatto, Jeanne T.
To: Scott, Michelle
Subject: RE: WEC Team"s Request to Meet with Embassy Staff, November 20th
Date: Wednesday, November 15, 2017 1:17:23 PM

Thank you!

From: Scott, Michelle [mailto:MICHELLE.SCOTT@nuclear.energy.gov]
Sent: Wednesday, November 15, 2017 12:45 PM
To: Lopatto, Jeanne T.
Subject: FW: WEC Team's Request to Meet with Embassy Staff, November 20th

fyi

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Scott, Michelle
Sent: Wednesday, November 15, 2017 12:43 PM
To: Carver, Michael J <CarverMJ@state.gov>; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; Nasir Abbasi <Nasir.Abbasi@trade.gov>; Vidal-Sammoud, Vanessa LC <VidalSammoudVLC@state.gov>
Cc: 'Jonathan Chesebro' <Jonathan.Chesebro@trade.gov>; Cutler, Kirsten B <CutlerKB@state.gov>; Mark OGrady <Mark.OGrady@trade.gov>; Feleke Assefa <Feleke.Assefa@trade.gov>; Habeeb Saeed <habeeb.saeed@trade.gov>
Subject: WEC Team's Request to Meet with Embassy Staff, November 20th

Mike, Scott, Vanessa, and Nasir,

The interagency just finished a call with WEC officials regarding KSA LNPP RFI process and their upcoming travel to Riyadh for the Q&A session with KACARE officials. Tom Weir, who is leading the project mentioned that Mike Waite has been trying to reach out to Post to set up a meeting on Monday, November 20th with embassy staff. Can someone follow up with Mike on his request?

Thanks,
Michelle

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

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Document 10
Consisting of 19 pages is an International Trade Administration Equity transferred in full for direct response to the requester

AMERICAN OVERSIGHT

From: Scott, Michelle
To: David Sledzik
Subject: RE: US-KSA Roundtable Update
Date: Thursday, December 14, 2017 6:08:27 PM

David,

I know you wanted to connect today but I had to head back to DOE. Let me know if you have time this evening, I'm happy to connect.

(b) (6)

Michelle

Trade/Commerce Equity

AMERICAN OVERSIGHT

Trade/Commerce Equity

AMERICAN OVERSIGHT

Trade/Commerce Equity

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From: Scott, Michelle
To: Hutchins, Scott (Embassy Riyadh
Subject: RE: US-KSA Roundtable Update
Date: Thursday, December 14, 2017 6:12:21 PM

(b) (6)

State Equity

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: December 15, 2017 at 02:10:18 GMT+3
To: Hutchins, Scott G <HutchinsSG@state.gov>
Subject: RE: US-KSA Roundtable Update

Are you still up for a quick chat?

Trade/Commerce Equity

AMERICAN OVERSIGHT

Trade/Commerce Equity

AMERICAN OVERSIGHT

Trade/Commerce Equity

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Lopatto, Jeanne T.
Subject: RE: Westinghouse
Date: Wednesday, January 31, 2018 1:05:00 PM

Agreed.

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Wednesday, January 31, 2018 1:05 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: Westinghouse

More efficient is that Mike and Aaron communicate directly with Sahar at the US Saudi Bus council.
Jeanne

Sahar Nadri (email: snadri@us-sabc.org)
US. Saudi Arabian Business Council
Manager - Visa Services
8081 Wolftrap Road # 300
Vienna, VA 22182

From: Scott, Michelle [mailto:MICHELLE.SCOTT@nuclear.energy.gov]
Sent: Wednesday, January 31, 2018 10:32 AM
To: Lopatto, Jeanne T.
Subject: RE: Westinghouse

I will pass them along to Mike and Aaron.

For both Mike and Aaron, the mailing address is
Idaho National Laboratory
P.O. Box 1645
Idaho Falls, ID

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]

AMERICAN OVERSIGHT

Sent: Wednesday, January 31, 2018 10:29 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: Westinghouse
Importance: High

Michelle, we have to go thru the US Saudi Bus council to process the visas. Can you help with getting these forms filled out? Or pass them along? Jeanne

---

From: Weir, Thomas J.
Sent: Wednesday, January 31, 2018 10:14 AM
To: Lopatto, Jeanne T.
Subject: FW: Westinghouse
Importance: High

Jeanne-
We need to interface with someone on USG side to get these Visas completed. We cannot just get an invitation letter but we can get US business council to process the visas.
Need to interface w someone to fill out the forms and get the info from each individual. They will be charged for the visa processing directly as part of the process.
Tom

From: Moss, Leigh D
Sent: Wednesday, January 31, 2018 9:37 AM
To: Weir, Thomas J.
Subject: FW: Westinghouse
Importance: High

The answer is NO. US Saudi Arabian Business Council cannot release their information for "Enjaz" under 3rd party. If their US office is going to provide clients visa sponsorship then their office has to process the whole visa from the beginning. REASON, SABC cannot release their sponsor id number to any other agent – they will be glad to process visa for these men and Sahar assured me we have plenty of time.

They need to provide her with a copy of their passport , support letter from Westinghouse, a photo id, and the visa application by email to begin the process. Note: Sahar is in the office today and Thursday, but will be off Friday, and back in the office Monday.

Please send me their title info so I can complete the letters. I attached Goff's letter so you can see how it is worded and they can adjust their titles/business affiliations.

Sahar Nadri (email: snadri@us-sabc.org)
US. Saudi Arabian Business Council
Manager - Visa Services
8081 Wolftrap Road # 300
Vienna, VA 22182
USA

AMERICAN OVERSIGHT

Tel: 703-962-9283
Fax: 703-204-0332

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From: Scott, Michelle
To: Goff, Michael (CONTR)
Subject: FW: Westinghouse
Date: Wednesday, January 31, 2018 1:07:00 PM

Mike,

Jeanne was not sure so we agreed it would be more efficient if you or your admin work directly with the individual below. So that we don't screw anything up.

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Wednesday, January 31, 2018 1:05 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: Westinghouse

More efficient is that Mike and Aaron communicate directly with Sahar at the US Saudi Bus council.
Jeanne

Sahar Nadri (email: snadri@us-sabc.org)
US. Saudi Arabian Business Council
Manager - Visa Services
8081 Wolftrap Road # 300
Vienna, VA 22182

From: Scott, Michelle [mailto:MICHELLE.SCOTT@nuclear.energy.gov]
Sent: Wednesday, January 31, 2018 10:32 AM
To: Lopatto, Jeanne T.
Subject: RE: Westinghouse

I will pass them along to Mike and Aaron.

For both Mike and Aaron, the mailing address is
Idaho National Laboratory
P.O. Box 1645
Idaho Falls, ID

Michelle L. Scott
Senior Advisor

AMERICAN OVERSIGHT

Office of Nuclear Energy
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From: Murphy, Paul
To: Scott, Michelle
Subject: USG presentation - lessons learned from UAE-ROK (27 Feb 2018)
Date: Monday, February 26, 2018 9:53:28 PM
Attachments: USG presentation - lessons learned from UAE-ROK (27 Feb 2018).pdf

Michelle,

My slides are attached.

See you on Tuesday morning.

Regards,

Paul

Paul Murphy
Managing Director
T +1(b) (6)
paul.murphy@gowlingwlg.com





gowlingwlg.com

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AMERICAN OVERSIGHT

WHY WERE THE KOREANS SUCCESSFUL IN THE UAE?

AND WHAT IMPACT DOES THIS HAVE ON THE GLOBAL NUCLEAR BUSINESS?

PRESENTATION TO US INTER-AGENCY WORKING GROUP ON CIVILIAN NUCLEAR POWER

February 27, 2018

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AMERICAN OVERSIGHT

PRESENTATION OUTLINE

- What were the characteristics of the winning bid?
- What is the broader impact on the international nuclear marketplace?
- What are the additional lessons learned from the experiences on Barakah from December 2009 through today?
- Concluding Thoughts

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AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-002358

NOTES ON THE PRESENTATION

- The core elements of this presentation are taken from a presentation given in Tokyo, Japan in May 2010 at a seminar held for the Japanese Institute for Overseas Investment
- The reason for keeping these "dated" slides is to show the thinking at that point in time, which enables analysis of (and amplification of) how the global nuclear industry has changed since that time

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AMERICAN OVERSIGHT

Part 1: What were the characteristics of the winning bid?

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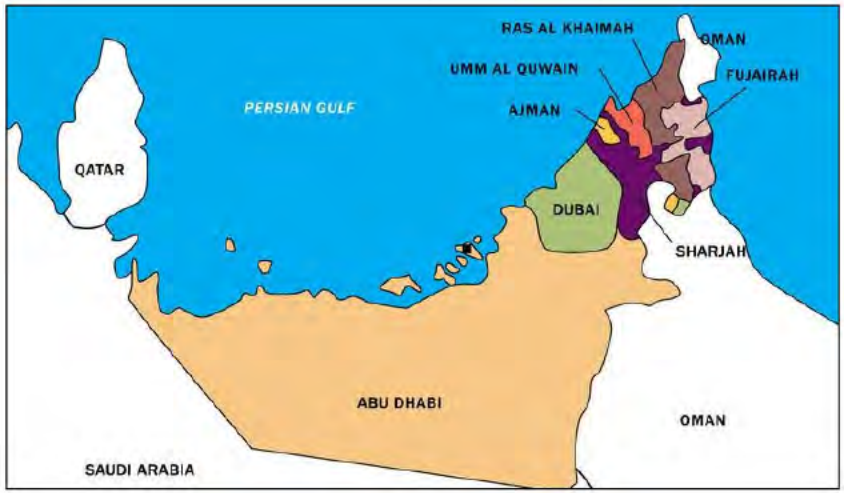
UAE NUCLEAR PROGRAM





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UAE NUCLEAR PROGRAM

- Ambitions were declared in early 2008
- Initial strategic advisor: Thorium Power (now "Lightbridge Corporation") 
- Managing Agent selected in 3Q2008: CH2M Hill 
- Solicitation for NPP bids: 2Q2009
- Lead agency: Emirates Nuclear Energy Corporation (ENEC)
- Regulator: Federal Authority for Nuclear Regulation (FANR)
- Note: At the beginning of the program, there was one nuclear engineer in the entire country.

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DOE-19-0315, 19-0316, 19-0318-A-002362

UAE NUCLEAR PROGRAM

- **Final bidding teams:**
  - APR-1400 (KEPCO, etc.) 
  - ABWR (Hitachi, etc.) 
  - EPR (AREVA, etc.) 
  - Did not make the final cut:
    - Westinghouse's AP1000 
    - AECL's Candu 6 
    - GE's ESBWR 
    - Atomstroyexport's VVER 
- **Bids were submitted on:** **July 3, 2009**
- **Final award was scheduled for:** **September 16, 2009**

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DOE-19-0315, 19-0316, 19-0318-A-002363

UAE NUCLEAR PROGRAM

- **Contract awarded to the APR-1400 consortium in late December 2009 (three months late)**
  - Contract was for four units (5820 MW = 1455MW* x 4 units)
  - Reported cost of the units = US$20 billion (US$3436/KW)
  - Reported cost of fuel and operating services over 60 years = US$20 billion
  - Total award to APR-1400 group: US$40 billion
  - Unit 1 COD: May 2017 (with the remaining three units coming online in one-year cycles)

*** Source:** http://www.apr1400.com/system/system02.jsp **(KHNP website)**

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UAE NUCLEAR PROGRAM – PERCEIVED CHARACTERISTICS OF THE BIDDERS

- **AREVA's EPR:**
  - Gen III technology
  - No reference plant
    - Currently under construction in Finland (OL3), France (Flamanville), and China (Taishan)
  - Marketing: Heavy emphasis on safety
  - "Expensive"
  - Longer construction cycle than APR-1400 or ABWR
  - Troubled deployment … stats at the time of bid submission
    - OL3: 3 years late; US$3 billion over budget (fixed price contract)
    - Flamanville: reports indicate that it is at least 1 year behind schedule
  - Geopolitical component
    - French military base
    - Significant US involvement (Bechtel as EPC contractor)
  - Heavy French Government Component
    - AREVA - NSSS, GDF Suez – equity/operations, Alstom – turbine; all are government owned; EDF joined the EPR team as the bidding progressed, and it is also government owned; Total, also involved in an equity role, but not government-owned

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UAE NUCLEAR PROGRAM – PERCEIVED CHARACTERISTICS OF THE BIDDERS

- **Hitachi's ABWR**
  - ABWR has been built four times in Japan (twice by Hitachi)
  - On time / on budget
  - Older design
    - First unit came online in 1996
  - Boiling Water Reactor
    - Query: Is there a bias against BWRs?

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DOE-19-0315, 19-0316, 19-0318-A-002366

UAE NUCLEAR PROGRAM – PERCEIVED CHARACTERISTICS OF THE BIDDERS

- **KEPCO's APR-1400**
  - Cheapest
    - Reports indicate that it beat the competition by 30%
    - 30% gets to be a really big number, when that is multiplied four times over
      - US$6 billion just for the units, plus another US$6 billion for the fuel and operation
  - No reference plant at the time of bid submission
    - Currently being built in Korea
    - Expected operations date for first unit in Korea: 2013
  - A scaled up version of the OPR 1000 (which is based on the US System 80+ design)
  - Heavy Government Component (KEPCO is government owned)
  - Unified team, with clear leader

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DOE-19-0315, 19-0316, 19-0318-A-002367

OTHER POSITIVE FACTORS FOR THE KOREANS

- **Operation rate:***
  - Korea: 93.4 %
  - United States: 89.0 %
  - France: 76.1 %
  - Japan 59.2 %
- **Korea's plants also have the lowest rate of emergency shutdowns***
- **Shin Kori 3 & 4 (the first two APR-1400s being built in Korea) are currently on schedule****
- **The APR-1400 design / layout has significantly reduced building volume, leading to lower construction costs****
  - Twin unit design with shared facilities

*** Source: Korea Times (April 14, 2010)**

**** Source: Platts Nucleonics Week (January 7, 2010)**

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OTHER POSITIVE FACTORS FOR THE KOREANS

- **Platts Nucleonics Week (January 14, 2010):**
  - Areva and its partners lost the tender to supply reactors to the United Arab Emirates because the EPR's safety measures made the French offer more expensive than the winning South Korean bid, Areva CEO Anne Lauvergeon said on January 13.
  - "The most stringent safety standards are in the US and Europe," she said. "In Europe we couldn't construct the Korean reactor."
- **Platts Nucleonics Week (January 21, 2010):**
  - Emirates Nuclear Energy Corp. last month awarded a contract to Korean firms for the first power reactors in the United Arab Emirates after it concluded that the APR-1400 PWR they offered "met the highest international safety standards" …
- **Conclusion: Areva's core catcher and double containment were not differentiators in the view of ENEC.**

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DOE-19-0315, 19-0316, 19-0318-A-002369

Part 2: What is the broader impact on the international nuclear marketplace?

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DEAL POINT #1: A "PACKAGE DEAL"

- **The UAE wanted a "package" deal:**
  - NSSS technology
  - EPC scope
  - Operations
  - Fuel
  - Equity
  - In effect, "one stop shopping"
- **Customarily, these disparate services were provided through separate sources**
- **These services traditionally involve different business sectors, with different business models and time horizons**
- **Yet, the UAE wanted to go to one counter-party (whether one company or new corporate entity) to provide everything**

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DEAL POINT #1: A "PACKAGE DEAL"

- **"Korea Inc." was comprised of:**
  - KEPCO, as consortium leader (full scope of works and services)
  - Doosan Heavy Industry & Construction, as equipment maker
  - Hyundai, as plant builder
  - Samsung, as plant builder
  - Korea Nuclear Fuel, as fuel fabricator
  - Korea Plant Services & Engineering, as service vendor
  - Korea Power Engineering Co., as architect-engineer
  - Korea Hydro & Nuclear Power Co., as EPC role and operator

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DOE-19-0315, 19-0316, 19-0318-A-002372

DEAL POINT #1: A "PACKAGE DEAL"

- **How & Why did this happen?**
  - Competitive pressure
  - Realization by the UAE that this effort, on the desired time scale (Unit 1 COD = May 2017), was an enormous undertaking
    - Human resource challenges; inability to integrate all aspects of the nuclear package (NSSS, EPC, fuel, operations)
- **Query:**
  - Did the Dubai financial situation put unexpected pressure on the UAE, thereby making price a bigger issue?
  - Did the Emiratis get "sticker shock"?
  - Did exchange rates hurt the French bid?

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DOE-19-0315, 19-0316, 19-0318-A-002373

DEAL POINT #1: A "PACKAGE DEAL"

- **Who else can match this "Korea Inc." model?**
  - Russians 
    - Definitely; very aggressive (note Turkey's nuclear procurement)
    - Active export promotion
    - But, impact might be limited in near term to former Soviet bloc & satellite (i.e., recipients of "Soviet" aid) states
      - The Chernobyl legacy
  - French 
    - Criticism of UAE bid: no clear leader; lack of a "unified front"
    - An imperative at the highest levels of government
    - Under a reorganization
      - EDF and GDF Suez are vying for leadership; AREVA will take a back seat

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DOE-19-0315, 19-0316, 19-0318-A-002374

DEAL POINT #1: A "PACKAGE DEAL"

- **Who else can match this model?**
  - Japanese 
    - Under discussion
    - Query: Who will lead?
    - Query: What technology will be chosen (3 different designs, 3 different providers)?
    - Query: What is the "window of opportunity" for the ABWR?
  - Americans 
    - US industry at a huge disadvantage under this model
      - Lack of integrated approach under US model
      - Sources of equity and operations are a mystery
      - Government backing of industry (via a "guarantee") is not the US business model

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DOE-19-0315, 19-0316, 19-0318-A-002375

REFLECTIONS ON DEAL POINT #1: WHERE ARE WE IN 2018?

- Russians are very active
- Chinese are very active
- AREVA is no more
- Toshiba is out of the nuclear newbuild business
- Hitachi has one project (Horizon) with an uncertain future
- MHI has one project (Sinop) with an uncertain future
- Westinghouse is bankrupt
- GE appears to be inactive
- EPR projects are far worse off than where they were in 2009
- AP1000 projects have not gone well
- Korean reference plant experienced delays

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DOE-19-0315, 19-0316, 19-0318-A-002376

DEAL POINT #2: A FIXED PRICE DEAL

- **General reluctance on the supply-side to offer fixed price deals**
  - Long construction period (remember: 4 units)
  - Uncertain market conditions (labor, materials, specialty items)
  - Prior execution history within the nuclear industry
    - Tradition of cost-reimbursable execution model
    - History of projects being over budget and late
  - Regulatory uncertainty in the UAE
  - Integrated model desired by UAE brings together different business models on the supply side
  - Query: How many companies can handle the exposure of a US$20 billion fixed price deal for four nuclear units, plus long term pricing risk on a 60-year contract for fuel and operations?

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DOE-19-0315, 19-0316, 19-0318-A-002377

DEAL POINT #3: A GOVERNMENT BACKED DEAL

- **Reports indicated that the Korean bid was "guaranteed" by the Korean government**
  - Query: What is the extent of the guarantee?
    - How much of it is a legal guarantee?
    - How much of it is a reputational / relationship guarantee?
  - Effect: Such a guarantee removes (the perhaps counterintuitive) fixed price risk for the Owner
    - No matter how bad the deal gets for the KEPCO APR-1400 team, the suppliers will stay the course, in the eyes of the Owner, because of the government guarantee

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DOE-19-0315, 19-0316, 19-0318-A-002378

DEAL POINT #4: A GOVERNMENT-TO-GOVERNMENT DEAL

- **These deals (i.e., nuclear programs for "first unit" countries) will not just be about the procurement of a nuclear power plant**
  - Bilateral relationship that cuts across multiple industries
    - Bilateral diplomacy
    - Trade promotion
    - Military cooperation
  - Conclusion: In order to succeed, industry and government will need to work together to WIN the deal.
  - Since 2009, Russians have been particularly effective with this model, and the Chinese are now showing that they can play the same game, possibly to greater effect (Hinkley Point C & Atucha III)

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DOE-19-0315, 19-0316, 19-0318-A-002379

CONSIDERATION #1: THE APR-1400 WAS "GOOD ENOUGH"

- **The APR-1400 doesn't have any particularly distinguishing features, as it is not a Gen III+ technology**
  - It is "evolutionary", not "revolutionary", technology
  - But Gen III was deemed good enough by the UAE, as they sought to develop a model program for "first unit" countries …
    - … despite the UAE's expressed desire to be the "gold standard"
- **Once all the competitors were deemed "good enough", the competition came down to price**
  - … even though the APR-1400 is not in operation in Korea
  - … nor is it in construction outside of Korea
  - … nor have the Koreans built a nuclear power plant outside of Korea

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CONSIDERATION #2: WHAT IS THE "RIPPLE EFFECT"?

- **Other countries will want what the UAE just received**
  - Query: Will the Koreans offer the same deal in Turkey?
- **Therefore, there will be tremendous …**
  - … downward pressure on pricing
  - … pressure for fixed price contracts
  - … pressure for "one stop" shopping / integrated offerings
  - … desire for equity (or financing) to be provided by the bidder

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DOE-19-0315, 19-0316, 19-0318-A-002381

CONSIDERATION #3: WHAT IF THE KOREANS GOT IT WRONG?

- **This was an aggressive bid**
  - Lauvergeon said the EPR lost "because the South Koreans fervently wanted their first nuclear export job, 'and they paid for it' with a lower price. … 'At some point, you have to be able to say, "not at that price, no."'"
    - Platts Nucleonics Week (January 14, 2010), from an interview with Anne Lauvergeon, AREVA CEO
  - "… the outcome of the UAE bid reflected the 'shallow' nature of the current nuclear plant market, which he characterized as 'very much a buyer-driven market, which he characterized as 'very much a buyer-driven market.' He said some deals that look 'too good to be true' turn out to be just that. And he said GEH does not believe in setting a low price counting on offsetting it with more orders. 'Don't set a market that you can't replicate,' he said."
    - Platts Nucleonics Week (January 21, 2010), from an interview with Danny Roderick, senior vice president, nuclear projects at GEH

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CONSIDERATION #3: WHAT IF THE KOREANS GOT IT WRONG?

- **Can they sustain an OL3 situation now experienced by AREVA / Siemens in Finland, but four times over?**
  - KEPCO's Market Capitalization: US$20.1 billion* (now $19.9 billion)
    - EDF: US$98.5 billion (now $38.17 billion)
    - GDF Suez: US$83.5 billion (now $38..83 billion)
    - Toshiba: US$24.0 billion (out of the nuclear reactor business; Westinghouse bankrupt)
    - Hitachi: US$19.3 billion (now $37.96 billion)
    - AREVA: US$18.1 billion (no longer in existence)
    - MHI: US$14.0 billion (now $13.19 billion)

*** Source: Bloomberg.com (April 23, 2010)**

**** Source: Bloomberg.com (February 25, 2018)**

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DOE-19-0315, 19-0316, 19-0318-A-002383

CONSIDERATION #3: WHAT IF THE KOREANS GOT IT WRONG?

- **Key: We won't know for 5 to 7 years whether or not the Koreans got it right**
  - In the interim, this "model" will drive the market
  - What will others do during this interim period?
  - How many of these deals can the Koreans sign during this "grace period"?
  - How will the "next customer" view the Korean offering, following UAE and Turkey?
    - Contrarian View: Does a competitor have to modify its behavior drastically?
    - Innovative View: Where are their opportunities to diversify the product delivery chain in a way to enhance export financing possibilities?

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DOE-19-0315, 19-0316, 19-0318-A-002384

SO HOW ARE THE KOREANS DOING?

- **Unit 1: one year late**
- **Unit 2: should be operational in 2018 (somewhat late)**
- **Units 3 & 4: on schedule for 2019 and 2020**

- **Conclusion: amazing effort in a newcomer country.**

- **Reasons for success:**
  - Prior experience in region
  - Same execution model as in Korea
  - Cooperation with UAE
  - Commitment of UAE

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DOE-19-0315, 19-0316, 19-0318-A-002385

Part 3: Lessons Learned

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WHAT HAVE WE LEARNED SINCE DECEMBER 2009 ?

- Koreans are doing well in the UAE, but they have not followed Barakah with the "next" big deal
  - Note, too, the anti-nuclear stance of Korea's current president
- Importance of the "third flag" in the deal (for Barakah, it was the USA)
- We still cannot figure out a way to "project finance" a nuclear power project
- Western new build projects have not gone well (including the UK's ambitious plans)
- Western industry has not done well
- Nuclear plants have been shut down due to Fukushima (Germany) or due to deregulated market conditions (US)
- Financing is often the determining factor
- Deals are won through either investment (see UK) or government-to-government deals (see everywhere else)
- G-to-G deals are multi-faceted and go beyond the nuclear project
- Russians and Chinese have the momentum … and, soon, the leadership

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DOE-19-0315, 19-0316, 19-0318-A-002387

WHAT THINGS DID THE UAE GET RIGHT?

- **Government leadership**
- **Government financing**
- **Sovereign guarantee**
- **Foreign advisors**
- **Strong bilateral relationship to support the deal**
- **FANR's handling of Fukushima**
- **ENEC's handling of CFSI controversies in Korea**
- **External engagement, transparency, and best practices**
  - White Paper
  - With the IAEA (IRRS, INIR, and OSART missions)
  - Through the International Advisory Board
  - With the local population
  - International Treaty Commitments
  - Regulatory independence

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Concluding Thoughts

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UNITED ARAB EMIRATES



- **Key Factors**
  - Dedicated offtake market
  - Strong government credit
  - National plan
  - Host Government commitment
  - Need to meet growing demand for electricity with carbon free generation
  - Need to preserve oil & gas for more profitable uses
  - IWPP experience and success of IWPP model
  - Motivated exporter
  - 4 unit deal

- **Key Deal Points**
  - Competitively bid
  - Vertically and horizontally integrated deal
  - Government-to-Government deal
  - Sovereign guarantee of debt
  - Contractor equity (minority stake)
  - ECA participation, esp. by "third" country to validate the deal (original structure)
  - Power Purchase Agreement for full plant output

- **Key Challenges**
  - Lack of national experience

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DOE-19-0315, 19-0316, 19-0318-A-002390

CONCLUDING THOUGHTS

- US nuclear industry is not in a good competitive position
- Nuclear marketplace is unpredictable re. deal flow
- Financing is critical
- Civilian nuclear power needs champions
- Role of Government is key (and that role takes many different forms)

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DOE-19-0315, 19-0316, 19-0318-A-002391

QUESTIONS?

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THANK YOU!



PAUL MURPHY

Managing Director

paul.murphy@gowlingwlg.com

+(b) (6)

gowlingwlg.com

Gowling WLG (Canada) LLP is a member of Gowling WLG, an international law firm which consists of independent and autonomous entities providing services around the world. Our structure is explained in more detail at gowlingwlg.com/legal

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PAUL MURPHY



Managing Director
Washington, DC
+1(b) (6)
paul.murphy@gowlingwlg.com
www.gowlingwlg.com

Paul Murphy's practice focuses on multiple aspects of the nuclear industry – from legal and policy matters, including international regulatory and treaty frameworks and issues regarding nuclear liability, to strategies for creating and financing viable nuclear power programs and the identification and mitigation of associated risks – representing developers/owners, technology providers, investors, and contractors on nuclear projects internationally. Mr. Murphy is recognized as an expert in the development and financing of nuclear power programs by the International Atomic Energy Agency (IAEA), the OECD's Nuclear Energy Agency (NEA) and the US government. Mr. Murphy currently serves on the IAEA's Technical Cooperation Program team, which assists member states in developing civilian nuclear power programs. Mr. Murphy has served as a designated expert, chairman, and author at several special meetings and for multiple working groups of the IAEA, primarily involving the development, financing, and structuring of nuclear power projects. He continues to work with the IAEA in a number of key areas, including a current revision of the IAEA's *Handbook on Nuclear Law* and as lead author for the IAEA's, *"Alternative Contracting and Ownership Practices for Nuclear Power Plants"*.

Mr. Murphy has served as a four-time appointee to the US Secretary of Commerce's Civilian Nuclear Trade Advisory Committee, and he has served as chair of its Finance subcommittee. In addition, Mr. Murphy served as the US Government's sole representative on an NEA working group on *"Financing of Nuclear Power Plants"*, acting as chairman for the working group. Mr. Murphy also chaired the IAEA working group that issued, "*Issues to Improve the Prospects of Financing Nuclear Power Projects.*" Mr. Murphy has also worked with the Nuclear Energy Institute, the US State Department, the US Mission to the OECD, and the Export-Import Bank of the United States on revisions to the OECD's Guidelines for the financing of nuclear power projects by Export Credit Agencies.

For the last seven years, Mr. Murphy served as a faculty member for the *"Training Course on Nuclear Power Infrastructure Programs and Related Projects in Emerging Nuclear States"*, held on behalf of the US State Department and the IAEA at the Argonne National Laboratory and attended by representatives of over 20 foreign governments. Mr. Murphy was the lead instructor for the segments on financing and the bidding / evaluation process for nuclear power projects.

In addition to his work in the nuclear sector, Mr. Murphy's representations have included extensive work in the engineering and construction industry, where he has been heavily involved in the nuclear and fossil power sectors, both domestically and internationally. His project experience, both domestic and international, includes nuclear (new build, steam generator replacement, nuclear operating plant services), coal (both new build and environmental retrofit), LNG and gas-fired power projects, ranging from EPC contracting structures to technical support agreements and including major equipment purchase agreements and subcontracting. Recent projects have included work in solar power projects (CSP), IGCC and coal liquefaction plants, and pipelines.

Mr. Murphy is a graduate of Princeton University's Woodrow Wilson School for Public and International Affairs and a graduate of Harvard Law School. Mr. Murphy is also a member of the International Nuclear Law Association, and he has recently been appointed to ASME's Clean Energy Technology Advisory Panel.

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GLOBAL REACH



Gowling WLG is an international law firm which consists of independent and autonomous entities providing services around the world. Our structure is explained in more detail at gowlingwlg.com/legal

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Trade/Commerce Equity

-----Original Message-----

NNSA Equity

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AMERICAN OVERSIGHT

From: Oehlbert, Sean
To: Mendelsohn, Kasia; Phillips, Anne L; Scott, Michelle; Strangis, Katie; Norles, Jessica; McGinnis, Edward
Subject: WEC
Date: Wednesday, March 28, 2018 8:16:37 AM

Westinghouse secures approval of Chapter 11 Plan
Law 360 (Boysen) reported that Westinghouse Electric Co. LLC "finally clinched its whirlwind reorganization Tuesday, with a New York bankruptcy judge approving the ailing nuclear giant's $10 billion Chapter 11 plan after a few last-minute wrinkles were ironed out in court."

Mr. Sean E. Oehlbert
(Acting) Policy Director
Office of Nonproliferation and Arms Control
National Nuclear Security Administration
Department of Energy
Phone: (202) 586-3806
Cell: (b) (6)
Email: sean.oehlbert@nnsa.doe.gov

AMERICAN OVERSIGHT

From: Gross, John
To: Richards, Andrew; Jenkins, Alencia (CONTR)
Cc: Lennon, Sarah; Benahmed, Farah (CONTR); Singh, Karen
Subject: Weekly Report NE-6 4-23-18
Date: Thursday, April 12, 2018 12:59:06 PM
Attachments: Weekly Report NE-6 4-23-18.docx

Andrew and Alencia-

Attached is the NE-6 input to the Weekly Report for the week of April 23. Updates this week are highlighted in yellow. Please let me know if you have any questions.

Thank you,

John
x62132

AMERICAN OVERSIGHT

DOE PROGRAM WEEKLY REPORT

OFFICE OF NUCLEAR ENERGY

Submitted: April 16, 2018

NE Weekly primary POC: Andrew Richards (Andrew.Richards@Nuclear.Energy.Gov)

NE Weekly secondary POC: Alencia Jenkins (Alencia.Jenkins@Nuclear.Energy.Gov)

Week of: April 23-27, 2018

Announcements

- **None**

Principal Schedule

- **None**

30-60 Day Look-Ahead

- **Nuclear Energy Institute (NEI) Trade Mission:** From April 23-25, 2018, the NEI will lead a 25 member senior executive trade mission to Riyadh and Dhahran, Saudi Arabia. NEI's partners in this event include the U.S. Embassy in Saudi Arabia, the U.S. Departments of Commerce and Energy, the U.S. Saudi Arabian Business Council, and the King Abdullah City for Atomic and Renewable Energy (KACARE). The mission's purpose is to provide an opportunity to deepen U.S. and Saudi nuclear energy relationships established in December 2017 at the US-KSA Civil Nuclear Roundtable, clarify Saudi nuclear energy development plans and U.S. commercial opportunities, and identify potential Saudi industry partners. The first day will include a workshop on "Partnership, Localization and Technology Transfer," and meetings with Saudi government agencies. The industry delegation represents all sectors of the nuclear supply chain, including companies such as Westinghouse, Bechtel, X-Energy, Exelon, NuScale, and Fluor. Closed to the press.

- **National Nuclear Laboratory's Science and Technology Conference:** From May 15-16, Associate Deputy Assistant Secretary for International Nuclear Energy Policy and Cooperation, Sarah Lennon, will be in the UK to speak as a panelist at the UK's National Nuclear Laboratory's Science and Technology Conference in a session on international perspectives regarding collaborative innovation to drive cost reduction in nuclear. More generally, the Conference will address issues on innovation and collaboration to further economic growth domestically and globally. She will also hold a meeting with representatives from the Department of Business, Energy and Industrial Strategy to

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discuss status of and next steps for U.S.-UK nuclear energy cooperation. DOE's Nuclear Energy Attaché in London David Kovatch and ORNL's Andy Worrall will be accompanying Sarah during the visit. Closed to the press.

- **Nuclear Energy at the Ninth Clean Energy Ministerial (CEM-9):** On May 24, in Copenhagen, Denmark, senior DOE and DOE/NE leadership will attend the CEM-9 meetings to launch the new "Nuclear Innovation, Clean Energy Future" (NICE Future) initiative. There will be a NICE Future initiative side event in addition to the formal CEM meeting. The NICE Future concept was introduced by Secretary Perry at CEM-8 in June 2017 in Beijing, China, and has since garnered strong support with international partners. Canada and Japan are co-leading the initiative with the United States, with South Africa, UAE, the United Kingdom, Poland, Romania, Argentina, the Russian Federation, and China expressing interest. The initiative is unique, looking at nuclear energy as a clean and reliable energy source within the context of innovation and clean energy systems of the future. Open to the press.

- **International Framework for Nuclear Energy Cooperation (IFNEC) Steering Group and Related Meetings:** On May 28-30 in Paris, Office of Nuclear Energy Senior Advisor Suzie Jaworowski will represent the Department at IFNEC meetings to strategize about IFNEC's future work plans and outreach. The IFNEC meetings include a Steering Group meeting on May 30, featuring a discussion on the Nuclear Innovation: Clean Energy Future (NICE Future) initiative of the Clean Energy Ministerial, and a May 28-29 workshop of the Infrastructure Development Working Group on "New Challenges Facing Regulators." Ms. Jaworowski will also meet with NEA Director General Bill Magwood and International Energy Agency leadership to discuss ongoing and collaborative nuclear energy initiatives and mutually beneficial approaches and strategies in the communications field. The IFNEC events, previously scheduled to take place in Bariloche, Argentina, in the second week of June, were rescheduled due to G20 conflicts related to venues. Closed to the press.

- **International Atomic Energy Agency (IAEA) Conference on Human Resource Development:** From May 28-June 1, 2018, Office of International Nuclear Energy Policy and Cooperation's IAEA Program Manager, Janette Hill, will participate in the "Third International Conference on Human Resource Development for Nuclear Power Programs: Meeting Challenges to Ensure the Future Nuclear Workforce Capability" in Gyeongju, ROK. The Conference is organized by the IAEA. Sessions of the Conference will cover various components of providing for a pipeline of expertise in Member States to meet future demands of nuclear power plants in a safe, secure and effective manner. A tour of the Saeul Nuclear Power Site (Shinkori #4) and Doosan Heavy Industry will also be provided. Open to the press.

- **DOE-Commissariat a L'Energie Atomique et aux Energies Alternatives (CEA) Nuclear Energy R&D Action Plan Steering Committee Meeting:** On June 11, CEA will host the annual Action Plan Steering Committee meeting at the facility in Cadarache. An undecided senior level representative from the Office of Nuclear Energy and François Gauché, Director of CEA's Nuclear Energy Division, will co-chair the meeting. Each of

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the four Working Groups on Next-Generation Reactors, Separations Waste Forms, Advanced Fuels and Materials, and Modeling and Simulation, will present summaries of their activities, accomplishments since last year's meeting, proposed work plans for the coming year, and proposals for new collaboration. Representatives from NE's Office of Nuclear Technology R&D, NE's Office of Nuclear Technology Demonstration and Deployment, NE's Office of International Nuclear Energy Policy and Cooperation, and national laboratories are expected to attend. CEA is planning to host tours of the Jules Horowitz Reactor, CABRI facility, and other key R&D facilities on June 12. Closed to the press.

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From: Scott, Michelle
To: Postman, Max; Friedel, Loren
Subject: NNSA Equity
Date: Thursday, May 10, 2018 5:10:55 PM
Attachments: WEC 2nd REVISED SAUDI ADVOCACY QUESTIONNAIRE 2018 (1).pdf

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Max,

Attached is WEC revised AQ. I'm still searching for an email that goes along with your request.

Michelle



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Consisting of 12 pages withheld under Exemption b(4) is a Westinghouse Advocacy Questionnaire, Attachment to Document 19

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Glen Sweetnam (Glen.Sweetnam@Hq.Doe.Gov); Catipon, Lauren; Erickson, Gina; Hutchins, Scott G; Jewell, James
Subject: FW: WEC Update on KSA
Date: Friday, July 20, 2018 6:22:00 PM

All,

Please see the summary sent to Ed and Ted on KSA at Ed' request.

Michelle

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Scott, Michelle
Sent: Friday, July 20, 2018 6:20 PM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Garrish, Theodore <Theodore.Garrish@hq.doe.gov>
Subject: WEC Update on KSA

Ed and Ted,

Please see below a summary of latest on KSA LNPP activities. The interagency had a call with WEC on Friday, July 13, 2018.

Update from Westinghouse on KSA

(b) (5)

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(b) (5)

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

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From: Clarke, Denise
To: Reilly, Thomas; Scott, Michelle; Erickson, Gina; Jewell, James; Hillary, Keena; Catipon, Lauren; Markus, Stephen; Fellow, Laura; Capoferri, Anita; Garcia, Marcos; Valderrama, Billy (CONTR); Milton, Ingrid; Hutchins, Scott (Embassy Riyadh; "McKearin, Joshua"; McRae, Ben
Cc: Burgman, David; Crnic, Maggie; Rodrigue, Michael
Subject: RE: US-KSA MOU on Renewables and Nuclear
Date: Tuesday, September 4, 2018 1:54:26 PM
Attachments: (b) (5)

All,

This is a follow up to our meeting on Tuesday, August 28th. Attached is a list of SPPs and CRADAs with Saudi Arabia.

Denise
202-586-6984

From: Reilly, Thomas
Sent: Tuesday, August 28, 2018 2:31 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Erickson, Gina <Gina.Erickson@hq.doe.gov>; Jewell, James <James.Jewell@hq.doe.gov>; Clarke, Denise <Denise.Clarke@hq.doe.gov>; Hillary, Keena <Keena.HILLARY@hq.doe.gov>; Catipon, Lauren <Lauren.Catipon@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Garcia, Marcos <Marcos.Garcia@hq.doe.gov>; Valderrama, Billy (CONTR) <Billy.Valderrama@Nuclear.Energy.Gov>; Milton, Ingrid <Ingrid.Milton@hq.doe.gov>; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; 'McKearin, Joshua' <joshua_mckearin@ios.doi.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: Burgman, David <David.Burgman@hq.doe.gov>
Subject: RE: US-KSA MOU on Renewables and Nuclear

This time with attachment. Apologies.

<< File: K A CARE Draft PSA1 2.29.16 (003).docx >>

From: Reilly, Thomas
Sent: Tuesday, August 28, 2018 2:03 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Erickson, Gina <Gina.Erickson@hq.doe.gov>; Jewell, James <James.Jewell@hq.doe.gov>; Clarke, Denise <Denise.Clarke@hq.doe.gov>; Hillary, Keena <Keena.HILLARY@hq.doe.gov>; Catipon, Lauren <Lauren.Catipon@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Fellow, Laura <Laura.Fellow@Hq.Doe.Gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Garcia, Marcos <Marcos.Garcia@hq.doe.gov>; Valderrama, Billy (CONTR) <Billy.Valderrama@Nuclear.Energy.Gov>; Milton, Ingrid <Ingrid.Milton@hq.doe.gov>; Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; McKearin, Joshua <joshua_mckearin@ios.doi.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>

AMERICAN OVERSIGHT

Cc: Burgman, David <David.Burgman@hq.doe.gov>
Subject: RE: US-KSA MOU on Renewables and Nuclear

Hi all,

(b) (5)

Tom

-----Original Appointment-----
From: Scott, Michelle
Sent: Monday, August 27, 2018 4:05 PM
To: Scott, Michelle; Erickson, Gina; Jewell, James; Clarke, Denise; Hillary, Keena; Catipon, Lauren; Markus, Stephen; Reilly, Thomas; Fellow, Laura; Capoferri, Anita; Garcia, Marcos; Valderrama, Billy (CONTR); Milton, Ingrid; Hutchins, Scott (Embassy Riyadh; McKearin, Joshua; McRae, Ben
Cc: Burgman, David
Subject: US-KSA MOU on Renewables and Nuclear
When: Tuesday, August 28, 2018 1:00 PM-1:45 PM (UTC-05:00) Eastern Time (US & Canada).
Where: TBD

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(b) (5)

AMERICAN OVERSIGHT

(b) (5)

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From: Thomas-Kerr, Elena
To: Mark OGrady; James Yi; Jonathan Chesebro
Cc: Scott, Michelle; Devin Horne
Subject: RE: WEC advocacy
Date: Wednesday, November 28, 2018 11:57:27 AM

Thanks very much!

Best,
Elena

Elena Thomas-Kerr
Senior Advisor
Office of Asian Affairs (IA-31)
U.S. Department of Energy
Office: 202-586-6566
Mobile: (b) (6)
Fax: 202-586-3913
email: Elena.Thomas-Kerr@hq.doe.gov

Trade/Commerce Equity

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Trade/Commerce Equity

Trade/Commerce Equity

From: Thomas-Kerr, Elena <Elena.Thomas-Kerr@hq.doe.gov>
Sent: Wednesday, November 28, 2018 11:00 AM
To: Jonathan Chesebro <Jonathan.Chesebro@trade.gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Devin Horne <Devin.Horne@trade.gov>; James Yi <James.Yi@trade.gov>
Subject: RE: WEC advocacy

Thanks very much!
Elena

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Trade/Commerce Equity

From: Thomas-Kerr, Elena <Elena.Thomas-Kerr@hq.doe.gov>
Sent: Wednesday, November 28, 2018 8:14 AM
To: Jonathan Chesebro <Jonathan.Chesebro@trade.gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: WEC advocacy

Hi Jonathan,

Thanks very much for the call yesterday. DOE/NE has provided talking points for Under Secretary Menezes's meeting with Chairman Vyas next week. You had noted the advocacy center might have some recent advocacy points. If you could send those along, we can throw those into the mix.

Thanks very much.
Elena

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From: Thomas-Kerr, Elena <Elena.Thomas-Kerr@hq.doe.gov>
Sent: Wednesday, November 28, 2018 11:57 AM
To: Mark OGrady <Mark.OGrady@trade.gov>; James Yi <James.Yi@trade.gov>; Jonathan Chesebro <Jonathan.Chesebro@trade.gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Devin Horne <Devin.Horne@trade.gov>
Subject: RE: WEC advocacy

Thanks very much!

Best,
Elena

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Elena Thomas-Kerr
Senior Advisor
Office of Asian Affairs (IA-31)
U.S. Department of Energy
Office: 202-586-6566
Mobile: (b) (6)
Fax: 202-586-3913
email: Elena.Thomas-Kerr@hq.doe.gov

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From: Thomas-Kerr, Elena
To: Mark OGrady; Jonathan Chesebro
Cc: Scott, Michelle; Devin Horne
Subject: RE: WEC advocacy
Date: Friday, November 30, 2018 2:57:46 PM

Hi Mark,

Thanks very much for the detailed overview of deals going on in India. Very helpful.

(b) (5)

Best,
Elena

Elena Thomas-Kerr
Senior Advisor
Office of Asian Affairs (IA-31)
U.S. Department of Energy
Office: 202-586-6566
Mobile: (b) (6)
Fax: 202-586-3913
email: Elena.Thomas-Kerr@hq.doe.gov

Trade/Commerce Equity

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Trade/Commerce Equity

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Trade/Commerce Equity

From: Thomas-Kerr, Elena <Elena.Thomas-Kerr@hq.doe.gov>
Sent: Wednesday, November 28, 2018 11:57 AM
To: Mark OGrady <Mark.OGrady@trade.gov>; James Yi <James.Yi@trade.gov>; Jonathan Chesebro <Jonathan.Chesebro@trade.gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Devin Horne <Devin.Horne@trade.gov>
Subject: RE: WEC advocacy

Thanks very much!

Best,
Elena

Elena Thomas-Kerr
Senior Advisor

AMERICAN OVERSIGHT

Office of Asian Affairs (IA-31)
U.S. Department of Energy
Office: 202-586-6566
Mobile: (b) (6)
Fax: 202-586-3913
email: Elena.Thomas-Kerr@hq.doe.gov

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From: Williams, Bradley
To: Scott, Michelle
Subject: Westinghouse - A World Leading Nuclear Company
Date: Thursday, January 10, 2019 4:22:29 PM
Attachments: Westinghouse - A World Leading Nuclear Company.docx

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Westinghouse – A World Leading Nuclear Company

Since the inception of civilian nuclear energy, Westinghouse Electric Company (WEC) has been a world leading nuclear technology supplier. This world class nuclear company was an originator of nuclear power – supplying the world's first commercial nuclear reactor to Shippingport, PA in 1957. Today, there are about 450 nuclear power reactors in operation worldwide, with a combined 392 gigawatt (GWe) capacity operating in 30 countries.[1] Westinghouse technology is the basis for approximately half of this capacity, giving Westinghouse the world's largest installed base of operating plants.[2] As the Nation works to revitalize and expand the nuclear industry domestically and abroad, Westinghouse will play a pivotal role as our Nation's leading global nuclear reactor designer, fuel supplier, and reactor service provider.

Of the 156 reactors built since 2000, or currently under construction, 14 (9%) of those are Westinghouse reactors, making them the 4th leading provider of nuclear reactors worldwide, behind only the Russian, Chinese, and Korean state-sponsored companies of Rosatom (41), CGN (25), Doosan-KEPCO (16).[3] The Commerce Department estimates the global civil nuclear market to be valued between $500 and $740 billion over the next ten years; to have the potential to generate more than $100 billion in U.S. exports and thousands of new jobs. As the only U.S. reactor vendor that is currently providing passively safe large reactors with reference plans, WEC is well-positioned to capture a significant share of this market. Additionally, Westinghouse is one of the world's leading fuel and component manufacturers, as well as reactor service providers.

WEC has several export projects underway and under negotiation. In China, WEC has four AP1000s under construction, the first of which is slated to begin operations by the end of 2018. WEC is negotiating a contract for an additional ten AP1000s in China. In India, WEC is in negotiations for a $30 billion deal for the construction of six AP1000s with $10 billion in U.S. content supporting an estimated 52,000 U.S. jobs. In the UAE, in 2015, Westinghouse won a contract for approximately $2 billion in U.S. export content in fuel services for the four Korean APR1400s being built at the Barakah Project. The Kingdom of Saudi Arabia (KSA) issued a Request for Information to several countries for the construction of a large nuclear power plant (LNPP) and WEC is the only U.S. company KSA is considering for the LNPP.

Domestically, WEC's AP1000 is the only reactor type under construction and accounts for 10 of the 14 reactors for which Combined Operating Licenses (COLs) have been issued or are under review. Westinghouse is one of the three leading companies developing Accident Tolerant Fuels which are expected to be the major fuel-type for Light Water Reactors in the coming years. In addition to ATF, WEC also has a strong advanced reactor program, with several concepts under development.

Westinghouse is also a world leader in nuclear fuel and component design and manufacturing, reactor services and decommissioning. According to the World Nuclear Association, WEC provides 21% of the global supply of LWR fuel – significantly more in some parts of the world, such as 41% in Ukraine.[4]

Despite an anomalous period, in which WEC broke from their well-established business model as a supplier and service provider, and assumed a construction business line, which ultimately led to bankruptcy, Westinghouse is still a highly sought after brand, which is evidenced by the significant international interest and bids to acquire WEC. There are also unconfirmed reports that Russian and Chinese companies have made overtures to acquire WEC. As an American company, Westinghouse is uniquely positioned to help revitalize the U.S. nuclear sector and once again become a dominant global nuclear market supplier.

[1] http://www.world-nuclear.org/information-library/current-and-future-generation/nuclear-power-in-the-world-today.aspx
[2] http://www.westinghousenuclear.com/About/History
[3] http://www.world-nuclear.org/our-association/publications/publications-for-sale/world-nuclear-supply-chain-outlook-2035.aspx
[4] http://www.world-nuclear.org/information-library/nuclear-fuel-cycle/conversion-enrichment-and-fabrication/fuel-fabrication.aspx

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Strangis, Katie
Subject: Westinghouse - A World Leading Nuclear Company (002)
Date: Thursday, January 10, 2019 4:23:00 PM
Attachments: Westinghouse - A World Leading Nuclear Company (002).docx

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Additional info that may help you on your paper.

AMERICAN OVERSIGHT

Westinghouse – A World Leading Nuclear Company

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[1] http://www.world-nuclear.org/information-library/current-and-future-generation/nuclear-power-in-the-world-today.aspx
[2] http://www.westinghousenuclear.com/About/History
[3] http://www.world-nuclear.org/our-association/publications/publications-for-sale/world-nuclear-supply-chain-outlook-2035.aspx
[4] http://www.world-nuclear.org/information-library/nuclear-fuel-cycle/conversion-enrichment-and-fabrication/fuel-fabrication.aspx

AMERICAN OVERSIGHT

From: Strangis, Katie
To: Scott, Michelle
Subject: RE: Westinghouse - A World Leading Nuclear Company (002)
Date: Thursday, January 10, 2019 4:24:34 PM

Thank you!

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Thursday, Jan 10, 2019, 4:23 PM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>
Subject: Westinghouse - A World Leading Nuclear Company (002)

Additional info that may help you on your paper.

AMERICAN OVERSIGHT

From: Meikle, Grace K. (CONTR)
To: Kim, Dong; Sneed, John; McGinnis, Edward
Cc: Lennon, Sarah; Scott, Michelle
Subject: Notes from 8-4 WEC call with David Durham
Date: Friday, August 4, 2017 2:13:49 PM
Attachments: 8-4 NE LPO Phone Call with David Durham -- Readout.docx

---

Hi all,

Attached are notes from this morning's conversation with WEC. Ed, I will add this information to the WEC backgrounder.

Thanks,
Grace

AMERICAN OVERSIGHT

OFFICIAL USE ONLY

Phone Call with David Durham, Senior VP of New Projects, Westinghouse Electric Company (WEC)

August 4, 2017

Other WEC attendees:

- Jeanne Lopatto, VP of International and Government Affairs

USG Attendees:

- Office of Nuclear Energy
- Loan Program Office

Meeting Summary

The notes below are positions/information disclosed by WEC officials and do not represent the position of any USG official or contractor.

Summary of WEC's status under Chapter 11 Bankruptcy:

- (b) (5)

AMERICAN OVERSIGHT

- (b) (5)

Update on V.C. Summer and Vogtle Projects

- (b) (5)

NuGen Project in UK

- (b) (5)

AMERICAN OVERSIGHT

- (b) (5)

DOE S

- (b) (5)

India AP1000 Project/NE Visit to India

- (b) (5)

AMERICAN OVERSIGHT

From: Meikle, Grace K. (CONTR)
To: Scott, Michelle
Subject: FW: Notes from 8-4 WEC call with David Durham
Date: Monday, August 7, 2017 2:12:27 PM
Attachments: 8-4 NE LPO Phone Call with David Durham -- Readout.docx

---

Password - (b) (6)

-----Original Message-----
From: Meikle, Grace K. (CONTR)
Sent: Monday, August 07, 2017 2:12 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: Notes from 8-4 WEC call with David Durham

-----Original Message-----
From: Meikle, Grace K. (CONTR)
Sent: Friday, August 04, 2017 2:14 PM
To: Kim, Dong <Dong.Kim@hq.doe.gov>; Sneed, John <John.Sneed@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: Notes from 8-4 WEC call with David Durham

Hi all,

Attached are notes from this morning's conversation with WEC. Ed, I will add this information to the WEC backgrounder.

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Grace

AMERICAN OVERSIGHT

OFFICIAL USE ONLY

Phone Call with David Durham, Senior VP of New Projects, Westinghouse Electric Company (WEC)

August 4, 2017

Other WEC attendees:

- Jeanne Lopatto, VP of International and Government Affairs

USG Attendees:

- Office of Nuclear Energy
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AMERICAN OVERSIGHT

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- (b) (5)

AMERICAN OVERSIGHT

- (b) (5)

DOE S1 Visit to Ukraine

- (b) (5)

India AP1000 Project/NE Visit to India

- (b) (5)

AMERICAN OVERSIGHT

From: Scott, Michelle
To: (b) (6)
Subject: FW: Notes from 8-4 WEC call with David Durham
Date: Monday, August 7, 2017 9:50:12 PM
Attachments: 8-4 NE LPO Phone Call with David Durham -- Readout.docx

---

From: Meikle, Grace K. (CONTR) <Grace.Meikle@Nuclear.Energy.Gov>
Date: Friday, Aug 04, 2017, 2:13 PM
To: Kim, Dong <Dong.Kim@hq.doe.gov>, Sneed, John <John.Sneed@hq.doe.gov>, McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: Notes from 8-4 WEC call with David Durham

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AMERICAN OVERSIGHT

OFFICIAL USE ONLY

Phone Call with David Durham, Senior VP of New Projects, Westinghouse Electric Company (WEC)

August 4, 2017

Other WEC attendees:

- (b) (5)

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- (b) (5)

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

- (b) (5)

DOE S1 Visit to Ukraine

- (b) (5)

India AP1000 Project/NE Visit to India

- (b) (6)

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Devin Horne (Devin.Horne@trade.gov)
Subject: FW: NEI letter to HE Dr Hashim Yamani
Date: Tuesday, October 3, 2017 4:22:00 PM
Attachments: NEI letter to HE Dr Hashim Yamani v3.docx

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: McGinnis, Edward
Sent: Tuesday, October 03, 2017 1:03 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Goff, Michael (CONTR) <mike.goff@nuclear.energy.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>
Subject: FW: NEI letter to HE Dr Hashim Yamani

Thoughts?

From: JONES, Ted [mailto:thj@nei.org]
Sent: Tuesday, October 03, 2017 12:58 PM
To: Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: RE: NEI letter to HE Dr Hashim Yamani

Attaching here an updated draft of the NEI letter. Any thoughts?

Regards

Ted

From: JONES, Ted
Sent: Friday, September 29, 2017 2:45 PM
To: Hutchins, Scott G; McGinnis, Edward (Edward.McGinnis@Nuclear.Energy.Gov)
Subject: NEI letter to HE Dr Hashim Yamani

Gentlemen,

Your thoughts on the attached draft letter from NEI CEO Maria Korsnick to Dr. Hashim Yamani would be much appreciated.

Regards,

AMERICAN OVERSIGHT

Ted

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Sent through www.intermedia.com

AMERICAN OVERSIGHT

H.E. Dr. Hashim A. Yamani
King Abdullah City for Atomic & Renewable Energy
P.O. Box 2022, Riyadh 11451
Saudi Arabia

September 29, 2017

Dear Dr. Yamani:

On behalf of the Nuclear Energy Institute (NEI), the policy organization of the U.S. nuclear energy industry[1], I would like to congratulate you on the forthcoming Saudi tender for two nuclear power plants and to extend the fullest possible support of the U.S. nuclear industry. In particular, I would like to propose deeper commercial nuclear engagement between our countries, including official nuclear energy trade missions between Saudi Arabia and the United States.

U.S. industry is eager to partner in Saudi Arabia's ambitious nuclear energy development plans and offers unmatched capabilities. No nation has a stronger record in nuclear energy partnership than the United States. And no nation can match the U.S. nuclear energy industry's capabilities in human capital development, nuclear safety, and innovation.

Human Capital Development. Nuclear safety, reliability and security depend on a highly skilled and well trained workforce. For over 50 years, the U.S. nuclear industry has continually improved education and training programs offered at universities, technical colleges and within the private sector. Today, these world-class programs can be tailored to meet the needs of new nuclear nations as they develop indigenous capabilities for safe and reliable nuclear operations.

Safety. Based on more than 50 years of experience, the U.S. nuclear industry continues to perform as one of the safest industrial working environments in the world while maintaining a fleet average capacity factor above 90%. Through rigorous training of plant workers and increased communication and cooperation among nuclear plants and federal, state and local regulating bodies, the U.S. nuclear industry is keeping the nation's 99 nuclear plants safe for their communities and the environment. The U.S. supply chain leads the world in safety-conscious workforce training, operational excellence, and continuous improvement. U.S. suppliers are known for process excellence, human performance and safety culture.

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AMERICAN OVERSIGHT

Technology innovation. The U.S. nuclear energy industry, the progenitor of more than 60 percent of the world's 449 operating reactors,[2] has continued to innovate and develop reactor designs that are even safer, more efficient and easier to construct than our existing fleet of 99 plants.

- *Advanced large reactors.* Advanced large reactor designs include the GE Hitachi Nuclear Energy Advanced Boiling Water Reactor (ABWR), the Westinghouse AP1000 and the GE Hitachi Nuclear Energy Economic Simplified Boiling Water Reactor (ESBWR). The Westinghouse AP1000, under construction in China and in the United States, incorporates enhanced safety features and increases operational efficiency and constructability. And the GE Hitachi Nuclear Energy Economic Simplified Boiling Water Reactor (ESBWR) offers advanced passive safety features and has been design-certified by the U.S. NRC since 2014.
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- *Generation IV reactor designs.* Multiple U.S. companies are developing next-generation high-temperature gas reactors, molten salt reactors and liquid metal cooled reactors in coordination with the U.S. NRC and with support from the U.S. Department of Energy. These designs promise gains in safety, fuel efficiency, waste reduction, and flexibility in application and operation. Examples include the high-temperature gas pebble bed reactor, being developed by X-energy with support from the U.S. Department of Energy through a 5-year cost-share award; the molten chloride fast reactor developed by Southern Company Services and TerraPower, also with support from the U.S. Department of Energy through a 5-year cost-share award; the liquid metal-cooled micro-reactor designed by Oklo which is in the pre-application phase with the U.S. NRC; and the molten salt reactors under development by Terrestrial Energy USA, Transatomic Power, and Kairos Power.

U.S. industry understands that nuclear energy cooperation is an endeavor that transcends electric power and electricity generating technology. It is a decades-long partnership in human development that enriches both nations and strengthens the bond between them. As Saudi Arabia embarks on nuclear energy development, the U.S. nuclear industry is eager to support that partnership in every way.

Regards,

Maria

---

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AMERICAN OVERSIGHT

From: JONES, Ted
To: Scott, Michelle; Devin Horne
Subject: FW: NEI letter to HE Dr Hashim Yamani
Date: Tuesday, October 3, 2017 4:24:20 PM
Attachments: NEI letter to HE Dr Hashim Yamani v3.docx

From: JONES, Ted
Sent: Tuesday, October 3, 2017 12:58 PM
To: 'Hutchins, Scott G'; McGinnis, Edward (Edward.McGinnis@Nuclear.Energy.Gov)
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Ted



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Sent through www.intermedia com

AMERICAN OVERSIGHT

H.E. Dr. Hashim A. Yamani
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AMERICAN OVERSIGHT

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U.S. industry understands that nuclear energy cooperation is an endeavor that transcends electric power and electricity generating technology. It is a decades-long partnership in human development that enriches both nations and strengthens the bond between them. As Saudi Arabia embarks on nuclear energy development, the U.S. nuclear industry is eager to support that partnership in every way.

Regards,

Maria

---

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AMERICAN OVERSIGHT

From: JONES, Ted
To: Hutchins, Scott (Embassy Riyadh); Michael J Carver; Scott, Michelle; McGinnis, Edward
Subject: NEI KA-CARE letter
Date: Thursday, October 26, 2017 8:50:46 AM
Attachments: Letter for KACARE President Dr Yamani.pdf
ATT00001.htm

Attaching here the letter that Dan Lipman will bring to KA-CARE next week.

Sent from my iPhone



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Sent through www.intermedia com

AMERICAN OVERSIGHT

MARIA KORSNICK
President and Chief Executive Officer
1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8187
mgk@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

November 1, 2017

His Excellency Dr. Hashim A. Yamani
President
King Abdullah City for Atomic & Renewable Energy
P. O. Box 2022
Riyadh 11451
Kingdom of Saudi Arabia

Dear Dr. Yamani:

On behalf of the Nuclear Energy Institute (NEI), the policy organization of the U.S. nuclear energy industry[1], I congratulate you on the forthcoming Saudi tender for two nuclear power plants and extend the fullest possible support of the U.S. nuclear industry.

In particular, I propose a program to deepen commercial nuclear engagement between our countries, including official nuclear energy trade missions between Saudi Arabia and the United States.

Our industry is eager to partner in Saudi Arabia's ambitious nuclear energy development plans and offers unmatched capabilities. No nation has a stronger record in nuclear energy partnership than the United States. And no nation can match the U.S. nuclear energy industry's capabilities in human capital development, nuclear safety, and innovation.

Advanced large reactors. The U.S. nuclear energy industry, the progenitor of more than 60 percent of the world's 448 operating reactors,[2] has continued to innovate and develop large light water reactor designs that are even safer, more efficient and easier to construct than our existing fleet of 99 plants.

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AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-002448

Advanced large reactor designs include the Westinghouse AP1000, the GE Hitachi Nuclear Energy Advanced Boiling Water Reactor, and the GE Hitachi Nuclear Energy Economic Simplified Boiling Water Reactor (ESBWR). The Westinghouse AP1000, under construction in China and in the United States, incorporates enhanced safety features and increases operational efficiency and constructability. And the GE Hitachi ESBWR offers advanced passive safety features and has been design-certified by the U.S. Nuclear Regulatory Commission (NRC) since 2014.

The U.S. industry is eager to partner with Saudi Arabia beyond large LWRs and across the nuclear value chain, including:

- **Small and advanced reactors**. U.S. innovation in small and advanced reactor designs projects U.S. leadership for the next generation of nuclear power. Most advanced of the multiple U.S. companies offering advanced SMR designs is NuScale Power, which has the first SMR design under review by the U.S. NRC. Backed by the U.S. Department of Energy, the NuScale reactor is planned to be built first at the Idaho National Laboratory for commercial operation by 2026. Multiple U.S. companies are developing next-generation high-temperature gas reactors, molten salt reactors and liquid metal-cooled reactors in coordination with the U.S. NRC and with support from the U.S. Department of Energy. These designs promise gains in safety, fuel efficiency, waste reduction, and flexibility in application and operation.
- **Full range of products and services**. From the beginning to the end of a nuclear power station's life, U.S. industry provides the highest standard of products and services – from legal and regulatory support to engineering and construction, operation, precision component manufacturing, fuel services, decommissioning and used-fuel management.
- **Safety**. Based on more than 50 years of experience, the U.S. nuclear industry continues to perform as one of the safest industrial working environments in the world while maintaining a fleet average capacity factor above 90 percent. Through rigorous training of plant workers and increased communication and cooperation among nuclear plants and federal, state and local regulating bodies, the U.S. nuclear industry is keeping the nation's 99 nuclear plants safe for their communities and the environment. The U.S. supply chain leads the world in safety-conscious workforce training, operational excellence, and continuous improvement. U.S. suppliers are known for process excellence, human performance and safety culture.
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AMERICAN OVERSIGHT

The U.S. industry understands that nuclear energy cooperation is an endeavor that transcends electric power and electricity generating technology. More fundamentally, it is a decades-long partnership in human development that enriches both nations and strengthens the bond between them. As Saudi Arabia embarks on nuclear energy development, the U.S. nuclear industry is eager to support that partnership in every way.

Sincerely yours,

Maria Korsnick

Maria Korsnick

AMERICAN OVERSIGHT

From: Hutchins, Scott G
To: Scott, Michelle
Cc: McKearin, Josh
Subject: Fwd: NEI KA-CARE letter
Date: Thursday, October 26, 2017 9:44:24 AM
Attachments: Letter for KACARE President Dr Yamani.pdf
ATT00001.htm

FYI

_____

From: JONES, Ted <thj@nei.org>
Date: October 26, 2017 at 08:53:00 EDT
To: Michelle Scott <michelle.scott@nuclear.energy.gov>, Carver, Michael J <CarverMJ@state.gov>, Hutchins, Scott G <HutchinsSG@state.gov>, Edward McGinnis <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: NEI KA-CARE letter

Attaching here the letter that Dan Lipman will bring to KA-CARE next week.

Sent from my iPhone

[http://resources.nei.org/email/Email_signature.jpg]<http://www.nuclearmatters.com/>

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Sent through www.intermedia.com

AMERICAN OVERSIGHT

MARIA KORSNICK
President and Chief Executive Officer
1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8187
mgk@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

November 1, 2017

His Excellency Dr. Hashim A. Yamani
President
King Abdullah City for Atomic & Renewable Energy
P. O. Box 2022
Riyadh 11451
Kingdom of Saudi Arabia

Dear Dr. Yamani:

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AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-002452

Advanced large reactor designs include the Westinghouse AP1000, the GE Hitachi Nuclear Energy Advanced Boiling Water Reactor, and the GE Hitachi Nuclear Energy Economic Simplified Boiling Water Reactor (ESBWR). The Westinghouse AP1000, under construction in China and in the United States, incorporates enhanced safety features and increases operational efficiency and constructability. And the GE Hitachi ESBWR offers advanced passive safety features and has been design-certified by the U.S. Nuclear Regulatory Commission (NRC) since 2014.

The U.S. industry is eager to partner with Saudi Arabia beyond large LWRs and across the nuclear value chain, including:

- **Small and advanced reactors**. U.S. innovation in small and advanced reactor designs projects U.S. leadership for the next generation of nuclear power. Most advanced of the multiple U.S. companies offering advanced SMR designs is NuScale Power, which has the first SMR design under review by the U.S. NRC. Backed by the U.S. Department of Energy, the NuScale reactor is planned to be built first at the Idaho National Laboratory for commercial operation by 2026. Multiple U.S. companies are developing next-generation high-temperature gas reactors, molten salt reactors and liquid metal-cooled reactors in coordination with the U.S. NRC and with support from the U.S. Department of Energy. These designs promise gains in safety, fuel efficiency, waste reduction, and flexibility in application and operation.
- **Full range of products and services**. From the beginning to the end of a nuclear power station's life, U.S. industry provides the highest standard of products and services – from legal and regulatory support to engineering and construction, operation, precision component manufacturing, fuel services, decommissioning and used-fuel management.
- **Safety**. Based on more than 50 years of experience, the U.S. nuclear industry continues to perform as one of the safest industrial working environments in the world while maintaining a fleet average capacity factor above 90 percent. Through rigorous training of plant workers and increased communication and cooperation among nuclear plants and federal, state and local regulating bodies, the U.S. nuclear industry is keeping the nation's 99 nuclear plants safe for their communities and the environment. The U.S. supply chain leads the world in safety-conscious workforce training, operational excellence, and continuous improvement. U.S. suppliers are known for process excellence, human performance and safety culture.
- **Human capital development**. Nuclear safety, reliability and security depend on a highly skilled and well-trained workforce. For over 50 years, the U.S. nuclear industry has continually improved education and training programs offered at universities, technical colleges and within the private sector. Today, these world-class programs can be tailored to meet the needs of new nuclear nations as they develop indigenous capabilities for safe and reliable nuclear operations.

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The U.S. industry understands that nuclear energy cooperation is an endeavor that transcends electric power and electricity generating technology. More fundamentally, it is a decades-long partnership in human development that enriches both nations and strengthens the bond between them. As Saudi Arabia embarks on nuclear energy development, the U.S. nuclear industry is eager to support that partnership in every way.

Sincerely yours,

Maria Korsnick

Maria Korsnick

AMERICAN OVERSIGHT

State Equity

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: October 30, 2017 at 04:19:26 GMT+3
To: Hutchins, Scott G <HutchinsSG@state.gov>
Cc: McKearin, Josh <Josh.Mckearin@Hq.Doe.Gov>
Subject: RE: NEI's Dan Lipman - Tentative Schedule 11/2

Scott,

(b) (5)

Thanks

State Equity

AMERICAN OVERSIGHT

State Equity

From: JONES, Ted [mailto:thj@nei.org]
Sent: Wednesday, October 25, 2017 4:30 PM
To: Carver, Michael J
Cc: Apostol, Douglas J; Hutchins, Scott G
Subject: Re: Saudi Commercial Nuclear Promotion - Weekly check-in

Thanks Mike. Dan will be grateful for this! Do you have a schedule yet for the other meetings that you can share?
Regards, Ted

Sent from my iPhone

On Oct 25, 2017, at 9:24 AM, Carver, Michael J <CarverMJ@state.gov<mailto:CarverMJ@state.gov>> wrote:
Ted – I forgot one more informal addition to Dan's schedule if he's available. At the Embassy's restaurant on Nov. 2, starting at 5 or 6 pm, we'll be having an energy happy hour (which will go through dinner for all who have time to stay longer – this is the embassy's traditional Thursday "steak night" event) with various energy sector contacts. Glen Sweetnam will be there and looks forward to meeting up with Dan and continuing their conversation about the evolution (past and present) of Westinghouse, and whatever other subjects come up. It's kind of a sensitive subject in Saudi Arabia, but please note (privately) that this will not be a dry event.

Mike

This email is UNCLASSIFIED.

From: JONES, Ted [mailto:thj@nei.org]
Sent: Tuesday, October 24, 2017 9:01 PM
To: Carver, Michael J
Cc: Apostol, Douglas J; Hutchins, Scott G
Subject: RE: Saudi Commercial Nuclear Promotion - Weekly check-in

(b) (6)

State Equity

AMERICAN OVERSIGHT

State Equity

From: JONES, Ted [mailto:thj@nei.org]
Sent: Wednesday, October 18, 2017 6:59 PM
To: Carver, Michael J
Cc: Apostol, Douglas J; Hutchins, Scott G
Subject: RE: Saudi Commercial Nuclear Promotion - Weekly check-in

Mike and Scott,

As discussed during this morning's call, I'm attaching here the NEI paper on Part 810 assurances and Saudi Arabia which we intend to provide to NEI members who are contemplating nuclear commerce in Saudi Arabia. Feel free to use it and if you have any suggested changes, please do share them.

Thank you for your offer to arrange meetings with the Ministry of Energy and Saudi Electricity Company on 11/2. Dan Lipman will travel to Riyadh on 11/1 evening and be available all day 11/2. We will be in touch directly with Dr. Alodan to arrange the meeting in Abu Dhabi.

Ted

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State Equity



From: JONES, Ted [mailto:thj@nei.org]
Sent: Tuesday, October 17, 2017 9:20 PM
To: Carver, Michael J
Subject: RE: Saudi Commercial Nuclear Promotion - Weekly check-in

Mike,

Just Dan is coming on this trip. His intention is to fly from Abu Dhabi to Riyadh on 11/1 afternoon in order to have the full day of 11/2 available for meetings. Krista will share his flight details.

Please let us know the hotel you would recommend for Dan – he prefers the same hotel as the visiting DOE delegation.

Ted

State Equity



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State Equity

-----Original Appointment-----
From: JONES, Ted [mailto:thj@nei.org]
Sent: Monday, October 16, 2017 6:27 PM
To: Devin Horne; Michelle Scott; Carver, Michael J; Zeidan, Nadine K; Abbasi, Nasir; Apostol, Douglas J; Katie.Strangis@nnsa.doe.gov<mailto:Katie.Strangis@nnsa.doe.gov>; Josh Mckearin (Josh.Mckearin@Hq.Doe.Gov<mailto:Josh.Mckearin@Hq.Doe.Gov>); Sweetnam, Glen
Subject: Saudi Commercial Nuclear Promotion - Weekly check-in
When: Occurs every Wednesday effective 10/11/2017 from 9:00 AM to 9:30 AM Eastern Standard Time.
Where: Dial-in (b) (6) (b) (6)

<image001.jpg><http://www.nuclearmatters.com/>
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Sent through www.intermedia.com<http://www.intermedia.com>

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From: SERENA.ROLFE@INL.GOV<mailto:SERENA.ROLFE@INL.GOV> [mailto:ecc@state.gov]
Sent: Monday, December 11, 2017 8:12 PM
To: Ndao-Fall, Nogaye (Maya)
Subject: eCC - [INFO ONLY, NO ACTION] - Itinerary (b) (6) /LIENTZ REQUEST SUBMITTED, ARRIVAL: 12/16/2017
Importance: High

Request Summary
Itinerary #(b) (6)

Date Requested:12/1/2017

Request Summary
Travel Itinerary

Destination Country

Destination Cities

Start Date

End Date

Status

SAUDI ARABIA

RIYADH 12/16/2017-12/20/2017

12/16/2017

12/20/2017

PENDING

AMERICAN OVERSIGHT

Travelers

Name: AMY R LIENTZ

Agency: Department of Energy

Contact Info: 208-526-0137 amy.lientz@inl.gov<mailto:amy.lientz@inl.gov>

Employment Type: Contractor

Country of Birth: UNITED STATES

Passport Type: Personal

Emergency Contact: POC/US: Idaho National Laboratory Warning Communication Center (WCC), manned 24 hours/7 days a week, is the emergency point of contact for INL employees, Phone: 208.526.1515. Medical evacuation insurance AXA Travel Assistance Program, Group: BEA, (b) (6) . POC/In-Country: Feleke Assefa, U.S. Embassy | Riyadh | Kingdom of Saudi Arabia, Phone: 966.011.488.4747.

Passport #: *********

Clearance: None

Passport Country: USA

Request Unescorted CAA Access: No

Additional Info: International Cell Phone: (b) (6) , Affiliation: IDAHO NATIONAL LABORATORY, HTSOS training was completed 12/10/2017.

Other Group Members:
None

Carrier Information

Carrier and #

Mode

Departure Point

Departure Date/Time

Arrival Point

Arrival Date/Time

Delta Air Lines, Inc. 4680

Idaho Falls, ID (IDA) (Lientz)

12/12/2017 7:24:00 AM

Salt Lake City, UT (SLC)

AMERICAN OVERSIGHT

12/12/2017 8:46:00 AM

Delta Air Lines, Inc. 832

Salt Lake City, UT (SLC) (Lientz)

12/12/2017 9:30:00 AM

Washington, DC (DCA)

12/12/2017 3:41:00 PM

Delta Air Lines, Inc. 98

Washington, DC (DCA)

12/15/2017 3:00:00 PM

Paris, France (CDG)

12/16/2017 8:00:00 AM

Air France 448

Paris, France (CDG) (Lientz)

12/16/2017 1:30:00 PM

Riyadh, Saudi Arabia (RUH)

12/16/2017 9:40:00 PM

Air France 6671

Riyadh, Saudi Arabia (RUH) (Lientz)

12/19/2017 2:15:00 AM

Paris, France (CDG)

12/19/2017 7:00:00 AM

Delta Air Lines, Inc. 99

Paris, France (CDG) (Lientz)

12/19/2017 10:35:00 AM

Detroit, MI (DTW)

12/19/2017 2:00:00 PM

Delta Air Lines, Inc. 1595

Detroit, MI (DTW) (Lientz)

12/19/2017 3:25:00 PM

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Washington, DC (DCA)

12/19/2017 5:01:00 PM

Delta Air Lines, Inc. 1786

Washington, DC (DCA) (Lientz)

12/20/2017 4:36:00 PM

Salt Lake City, UT (SLC)

12/20/2017 7:40:00 PM

Delta Air Lines, Inc. 4531

Salt Lake City, UT (SLC) (Lientz)

12/20/2017 8:32:00 PM

Idaho Falls, ID (IDA)

12/20/2017 9:48:00 PM

Request Details
SAUDI ARABIA
Clearance From
SAUDI ARABIA/RIYADH

Agency/Section/Other
ECON - ECONOMIC SECTION

Arrival Date
12/16/2017

Departure Date
12/20/2017

Status
PENDING

Other Posts & Sections to be Informed

Post

Section

RIYADH

MANAGEMENT SECTION

Destination CitiesRIYADH 12/16/2017-12/20/2017
VIP Visit? No
Purpose of VisitThe traveler will be providing technical assistance for the co-head of delegation from the United

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States and will be representing the capabilities of DOEs national laboratories in interactions with KSA government delegations and U.S. nuclear industry representatives to support the DOE-NE mission to enable to expansion of nuclear energy.

Access to Building Required? No
POC at post None
Unescorted Access to PCC Required? No
Fiscal Data: None
Other Comments/Remarks: None
Hotel Reservations? No
Airport Assistance/Transportation? No
Accompanying Pouch? No
Appointment Request? No
Other Needed Assistance? No

Hotel Accommodations

Hotel Name

Street Address

City

Rate

Local Telephone #

Confirmation #

Riyadh Marriott Hotel, King Saud Road al Wazarat D

RIYADH

966.11.4779300

_____
List of recipients:
[ACTION]-REQUEST APPROVER:
apostoldj@state.gov<mailto:apostoldj@state.gov>
santiagob@state.gov<mailto:santiagob@state.gov>
hossainra@state.gov<mailto:hossainra@state.gov>
paleysm@state.gov<mailto:paleysm@state.gov>
vidalsammoudvlc@state.gov<mailto:vidalsammoudvlc@state.gov>
lynched@state.gov<mailto:lynched@state.gov>
carvermj@state.gov<mailto:carvermj@state.gov>
browndex@state.gov<mailto:browndex@state.gov>
[INFO]-AGENCY CC:
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[INFO]-GROUP CC:
waqarwt@state.gov<mailto:waqarwt@state.gov>
mekkiaf@state.gov<mailto:mekkiaf@state.gov>
williamsds5@state.gov<mailto:williamsds5@state.gov>
laaste@state.gov<mailto:laaste@state.gov>
gudenkaufre@state.gov<mailto:gudenkaufre@state.gov>
hernandezjj@state.gov<mailto:hernandezjj@state.gov>

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ranawh@state.gov<mailto:ranawh@state.gov>
stamariaep@state.gov<mailto:stamariaep@state.gov>
clinerf@state.gov<mailto:clinerf@state.gov>
simsjl@state.gov<mailto:simsjl@state.gov>
rahmansm@state.gov<mailto:rahmansm@state.gov>
haynier@state.gov<mailto:haynier@state.gov>
[INFO]-NOTIFIED SECTION:
ndao-fallnx@state.gov<mailto:ndao-fallnx@state.gov>
dannenbergd@state.gov<mailto:dannenbergd@state.gov>
blissaj@state.gov<mailto:blissaj@state.gov>
mangummc@state.gov<mailto:mangummc@state.gov>
campbellrc@state.gov<mailto:campbellrc@state.gov>
smokeralidl@state.gov<mailto:smokeralidl@state.gov>
ewingms@state.gov<mailto:ewingms@state.gov>
[INFO]-REQUESTOR CC:
jane.strong@inl.gov<mailto:jane.strong@inl.gov>
serena rolfe@inl.gov<mailto:serena.rolfe@inl.gov>
amy.lientz@inl.gov<mailto:amy.lientz@inl.gov>

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State Equity

From: Kirst, Michael, E [mailto:kirstme@westinghouse.com]
Sent: Friday, January 05, 2018 4:54 PM
To: Milstein, Dan J (Sofia); Vogt, Andrew D
Subject: New Westinghouse Owner

Gentlemen,

Our Washington office yesterday evening sent to headquarters these press releases. They are in a word – massive. 265 billion in assets and run renewables only today so this will be first nuclear investment – and a big one. This is a letter of intent so we have approvals but should be ok. More to come as I learn more but we should be in a far stronger position going forward.

Mike

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Brookfield
Business Partners

PRESS RELEASE

BROOKFIELD BUSINESS PARTNERS TO ACQUIRE WESTINGHOUSE ELECTRIC COMPANY

BROOKFIELD, NEWS -- (Marketwired) – 1/4/18 -- Brookfield Business Partners L.P. (NYSE:BBU) (TSX:BBU.UN) ("Brookfield Business Partners"), together with institutional partners (collectively "Brookfield"), announced today that it has entered into an agreement to acquire 100% of Westinghouse Electric Company ("Westinghouse" or "the Company"), a leading global provider of infrastructure services to the power generation industry, which is currently owned by Toshiba Corp.

The transaction provides for a purchase price of approximately $4.6 billion, expected to be funded with approximately $1 billion of equity, approximately $3 billion of long-term debt financing and the balance by the assumption of certain pension, environmental and other operating obligations.

"Westinghouse is a high-quality business that has established itself as a leader in its field, with a long-term customer base and a reputation for innovation," said Cyrus Madon, CEO of Brookfield Business Partners. "We look forward to bringing our significant expertise and reputation as a long-term owner and operator of critical infrastructure in the U.S. and globally, as well as our deep facilities management capabilities, to enhance the Company's position as a leading global infrastructure services provider to the power generation industry."

Business Overview:

Westinghouse is among the world's leading suppliers of infrastructure services to nuclear power generating facilities. The Company provides sophisticated engineering, maintenance, facilities management and repair services to its global customer base.

Business highlights:

- **Strong market position.** Westinghouse is a leader in its field, as the largest service provider to the world's nuclear power facilities. The Company operates within a complex regulatory and licensing environment requiring depth of expertise and capability.

- **Global, diversified customer base.** Westinghouse has a well-established installed base of long-term customers globally.

- **Attractive revenue and cash flow profile.** The majority of the Company's profitability is delivered through regularly scheduled services which are provided under long-term contracts. Westinghouse's core business has generated stable margins and consistent free cash flow.

- **Strong reputation driven by focus on innovation.** An iconic American company, Westinghouse offers a full suite of specialized parts and components, many of which are licensed or patented, as well as industry-leading engineering and other services that enhance the safety, efficiency and reliability of its customers' facilities.

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Funding

Brookfield Business Partners will commit to fund approximately 50% of the equity on closing using existing liquidity. Prior to or following closing, a portion of Brookfield Business Partners' investment may be syndicated to other institutional investors.

Transaction Process

Closing of the transaction remains subject to Bankruptcy Court approval and customary closing conditions including, among others, regulatory approvals. Closing is expected to occur in the third quarter of 2018.

– ends –

Brookfield Business Partners is a business services and industrials company focused on owning and operating high-quality businesses that benefit from barriers to entry and/or low production costs. Brookfield Business Partners is listed on the New York and Toronto stock exchanges. Important information may be disseminated exclusively via the website; investors should consult the site to access this information.

Brookfield Business Partners is the flagship listed business services and industrials company of Brookfield Asset Management Inc. (NYSE:BAM) (TSX:BAM.A) (EURONEXT:BAMA), a leading global alternative asset manager with over $265 billion of assets under management, of which approximately $141 billion are in the U.S. For more information, please visit our website at https://bbu.brookfield.com**.**

Media contact:
Suzanne Fleming
Tel: (212) 417-2421
Email: suzanne.fleming@brookfield.com

Investor contact:
Courtney Burke
Tel: (416) 369-2629
Email: courtney.burke@brookfield.com

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS AND INFORMATION

Note: This news release contains "forward-looking information" within the meaning of Canadian provincial securities laws and "forward-looking statements" within the meaning of Section 27A of the U.S. Securities Act of 1933, as amended, Section 21E of the U.S. Securities Exchange Act of 1934, as amended, "safe harbor" provisions of the United States Private Securities Litigation Reform Act of 1995 and in any applicable Canadian securities regulations. The words "will," "expect," "assume," "enhance," "provide," "generate," "may," derivatives thereof and other expressions which are predictions of or indicate future events, trends or prospects and which do not relate to historical matters will tend to identify forward-looking statements.

Forward-looking statements in this news release include statements regarding the expected completion of the transaction described herein and the anticipated timing thereof, and the future performance and operation of the acquired business.

Although we believe that the forward-looking statements we make are based upon reasonable assumptions and expectations, the reader should not place undue reliance on them or any other forward-looking statements or information in this news release. The future performance and prospects of Brookfield Business Partners are subject to a number of known and unknown risks, uncertainties and other factors, many of which are beyond our control. Factors that could cause actual results to differ materially from those contemplated or implied by forward-looking statements in this news release include, but are not limited to: the impact or unanticipated impact of general economic, political and market factors in the countries in which we do business; the behavior of financial markets, including fluctuations in interest and foreign exchange rates; global equity and capital markets and the availability of equity and debt financing and refinancing within these markets; strategic actions including acquisitions and dispositions; the ability to complete and effectively integrate acquisitions into existing

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operations and the ability to attain expected benefits and in particular completion of the acquisition referred to in this news release, which cannot be assured; changes in accounting policies and methods used to report financial condition (including uncertainties associated with critical accounting assumptions and estimates); the ability to appropriately manage human capital; the effect of applying future accounting changes; business competition; operational and reputational risks; technological change; changes in government regulation and legislation within the countries in which we operate; governmental investigations; litigation; changes in tax laws; ability to collect amounts owed; catastrophic events, such as earthquakes and hurricanes; the possible impact of international conflicts and other developments including terrorist acts and cyber terrorism; and other risks and factors detailed from time to time in our documents filed with the securities regulators in Canada and the United States.

We caution that the foregoing list of important factors that may affect future results is not exhaustive. When relying on our forward-looking statements, investors and others should carefully consider the foregoing factors and other uncertainties and potential events. Except as required by law, Brookfield Business Partners undertakes no obligation to publicly update or revise any forward-looking statements or information, whether written or oral, that may be as a result of new information, future events or otherwise.

AMERICAN OVERSIGHT

NEWS RELEASE

Media Contact:
Sarah Cassella
External Communications Manager
Westinghouse Electric Company
Desk: +1 (412) 374-4744
Cell: +1 (b) (6)
Email: cassels@westinghouse.com

BROOKFIELD TO ACQUIRE WESTINGHOUSE ELECTRIC COMPANY

Purchase Price of $4.6 Billion

Reaffirms Westinghouse's Position as the Leader of the Global Nuclear Industry

Cranberry Township, Pa., Jan. 4, 2018 – Westinghouse Electric Company, the global leader in nuclear technology, fuel and services, has agreed to be acquired by Brookfield Business Partners L.P. (NYSE:BBU) (TSX:BBU.UN) together with institutional partners (collectively, "Brookfield") for approximately $4.6 billion.

The purchase price for substantially all of the global business of Westinghouse Electric Company LLC and its affiliated debtors and debtors-in-possession (collectively "Westinghouse") excludes cash, but includes the assumption of certain pension, environmental and other operating obligations.

"Brookfield's acquisition of Westinghouse reaffirms our position as the leader of the global nuclear industry," said Westinghouse President & CEO José Emeterio Gutiérrez. "Our transformation and strategic restructuring process is creating a stronger, stable, and more streamlined global Westinghouse business, for the benefit of our customers and employees."

Brookfield's acquisition of Westinghouse is expected to close in the third quarter of 2018, subject to Bankruptcy Court approval and customary closing conditions including, among others, regulatory approvals. Throughout the process, Westinghouse will continue to operate in the ordinary course of business under its existing senior management.

PJT Partners is the financial advisor to Westinghouse, Weil, Gotshal & Manges LLP is Westinghouse's legal counsel, and AlixPartners LLP is Westinghouse's turnaround consultant.

-oOo-

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: Scott, Michelle; Jon Chesebro (jonathan.chesebro@trade.gov); Devin Horne; Al Burkart; "Weston, Aaron Thomas-DuRussel"; Jesse Law; Cutler, Kirsten B
Subject: RE: NTH: 1/15 - Saudi Arabia Aims To Prequalify Firms By April Or May For First Nuclear Plant
Date: Monday, January 15, 2018 10:50:57 AM

Plus Kirsten at State

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Monday, Jan 15, 2018, 10:50 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>, Jon Chesebro (jonathan.chesebro@trade.gov) <jonathan.chesebro@trade.gov>, Devin Horne <Devin.Horne@trade.gov>, Al Burkart <BurkartAR@state.gov>, 'Weston, Aaron Thomas-DuRussel' <aaron.weston@inl.gov>, Cutler, Kirsten <Kirsten_B_Cutler@ostp.eop.gov>, Jesse Law <Jesse.Law@exim.gov>
Subject: FW: NTH: 1/15 - Saudi Arabia Aims To Prequalify Firms By April Or May For First Nuclear Plant

FYI. Note the lead article.

From: Nuclear Townhall <nucleartownhall@nucleartownhall.com>
Date: Monday, Jan 15, 2018, 10:45 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Subject: NTH: 1/15 - Saudi Arabia Aims To Prequalify Firms By April Or May For First Nuclear Plant

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The Advanced Reactors Summit V & Technology Trailblazers Showcase
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- CEZ Utility CEO Benes: Option To Split Company 'Very Good'
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From: Scott, Michelle
To: Stahl, Eric; Andrea Jones (andrea.jones2@nrc.gov); Miller, Barry
Subject: FW: nrc
Date: Monday, January 22, 2018 10:54:00 AM

Eric, Andrea and Barry,

I'm sure if you guys are in the office right now, if so, please see the email below from WEC regarding NRC's participation at the Feb 11 meeting

Michelle

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Friday, January 19, 2018 3:56 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: nrc

Michelle, the rationale behind wanting NRC participation is that we want NRC to provide advice and assistance to KSA since a regulatory body will have to be set up – want the US reg system to be taught. We don't want the Finish Stuk to be setting the tone. Imp for US regulatory standards to reign!

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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Trade/Commerce Equity

On Feb 27, 2018, at 10:49 AM, JONES, Ted <thj@nei.org> wrote:

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Subject: Re: Trade Mission from US to KSA

Feleke,

Did you confirm the dates yesterday with al-Mashari?

Regards,

Ted

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To: Feleke Assefa <Feleke.Assefa@trade.gov>; Michelle Scott <michelle.scott@nuclear.energy.gov>
Subject: FW: Trade Mission from US to KSA

From: LIPMAN, Daniel
Sent: Tuesday, February 20, 2018 5:53 PM
To: Ahmed Al Sadhan
Cc: Dr. Maher Alodan; Dr. Muhammad Garwan; Dr. Saeed Al Amoudi; Mishari Al Dosari; JONES, Ted
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For your convenience, I have attached an agenda for the mission. Of course, this agenda is flexible and can accommodate the needs of Saudi partners in terms of location, times and dates. So feel free to make any modification that you feel will improve the mission.

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Please let me know if you have any further questions. And I look forward to hearing from you at your earliest convenience.
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Dan Lipman

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Sent: Sunday, February 18, 2018 7:14 AM
To: LIPMAN, Daniel
Cc: Dr. Maher Alodan; Dr. Muhammad Garwan; Dr. Saeed Al Amoudi; Ahmed Al Sadhan
Subject: RE: Roadmap transmittal

Dear Dan,

(b) (4)

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(b) (6)

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Cc: LIPMAN, Daniel
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Mr. Mishari Al Dosari
Senior Energy Engineer & Nuclear Technology
Deputy Director of Large Nuclear Power Plants, Atomic Energy Sector, KA-CARE
m.dosari@energy.gov.sa

cc:
Dr. Maher Alodan
Chief Atomic Energy Officer, KA-CARE
m.odan@energy.gov.sa

Dr. Mohammed Garwan
Chief Strategy & Sustainability Officer, KA-CARE
m.garwan@energy.gov.sa

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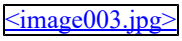
As I have been invited by Westinghouse to participate in the meeting at K.A.CARE next month, I will look forward to seeing you soon. In the meantime, please contact me if you have any questions or if there is anything the Nuclear Energy Institute can do to support your efforts to develop a Saudi nuclear energy program.

Best Regards
Dan


DANIEL S. LIPMAN | *Vice President, Suppliers, New Reactors and International Programs*
1201 F Street, NW, Suite 1100 | Washington, DC 20004
P: 202.739.8115 M: 202.361.2861 E: dsl@nei.org nei.org



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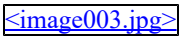
تعتبر رسالة البريد الالكتروني هذه ومرفقاتها سرية وموجهة فقط للمرسل إليهم. ولا يجوز لأي شخص غير مخول بالإطلاع على محتوياتها أو إعادة إرسالها أو نشرها بأي وسيلة كانت وفي حال تلقي رسالة البريد الالكتروني هذه عن طريق الخطأ ، فإنه يرجى القيام فوراً بإخطار المُرسِل كتابياً بذلك عن طريق البريد الالكتروني وحذف رسالة البريد الإلكتروني هذه بكافة مرفقاتها. كما أن أية أراء أو إفادات مذكورة في رسالة البريد الإلكتروني هذه تعبر فقط عن رأي كاتبها و لا تعكس بالضرورة رأي" مدينة الملك عبدالله للطاقة الذرية والمتجددة" "المدينة". كما لا تضمن "المدينة" خلو رسالة البريد الإلكتروني هذه ومرفقاتها من أية عيوب فنية او فيروسات او ما في حكمهما ، ويبقى المتلقي لها وحده مسئولاً مسئولية كاملة عن ضمان ذلك، حيث أن "المدينة" لن تتحمل أي مسئولية عن أي أضرار قد يسببها عيب فني او فيروس وما في حكمهما يمكن أن تحتويه رسالة البريد الإلكتروني هذه.



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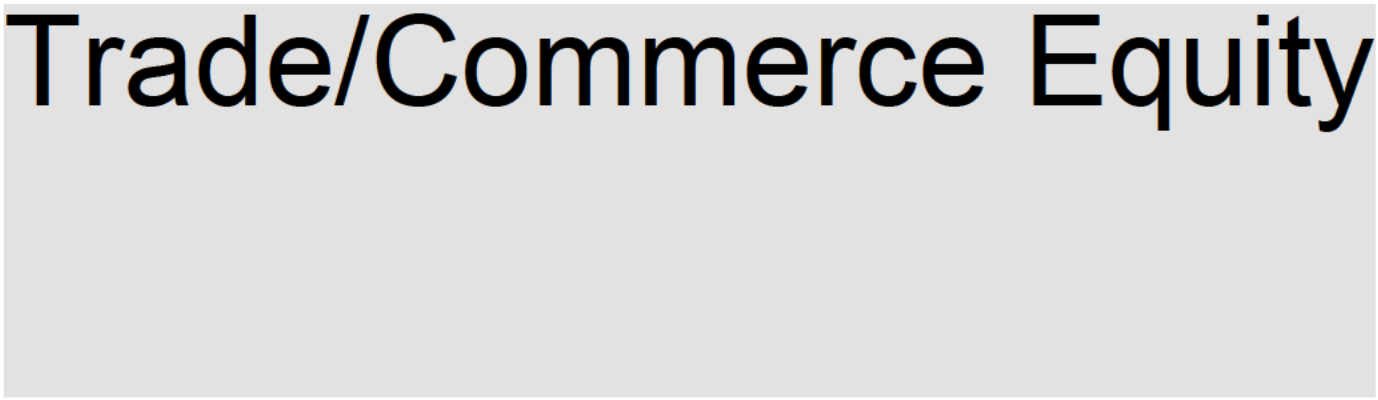

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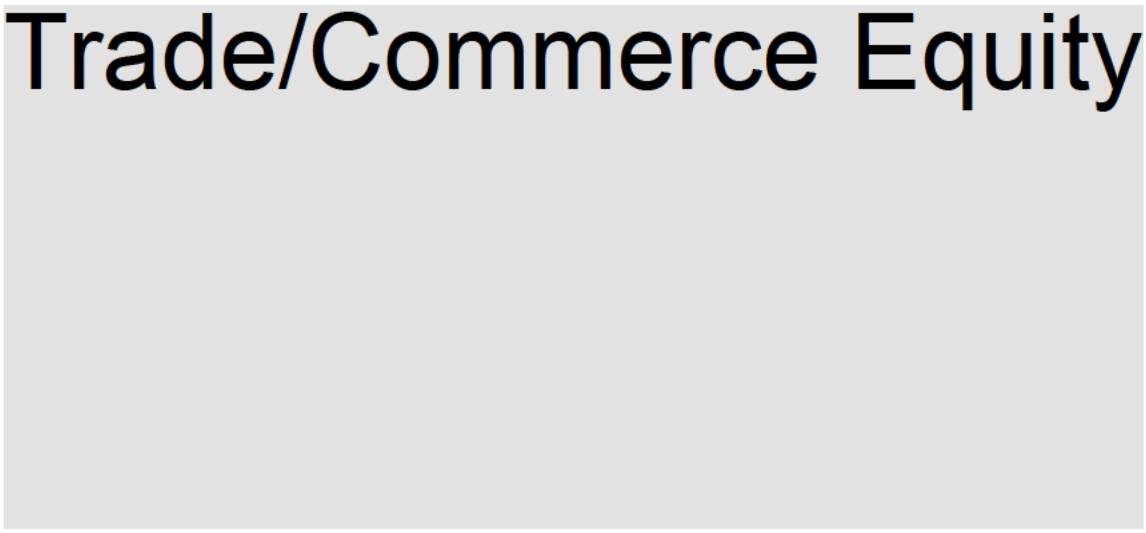

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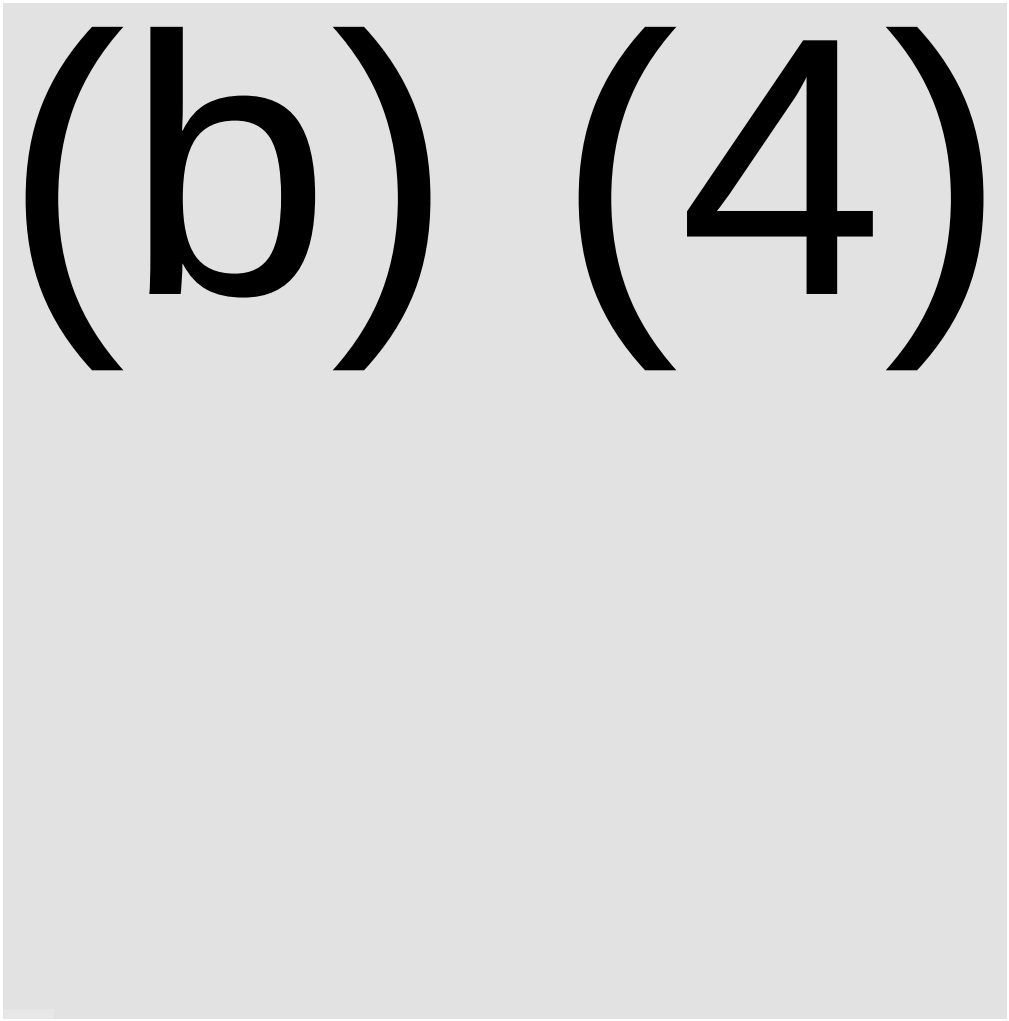

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Deputy Director of Large Nuclear Power Plants, Atomic Energy Sector, KA-CARE
m.dosari@energy.gov.sa

cc:
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Chief Atomic Energy Officer, KA-CARE
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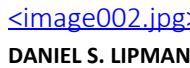
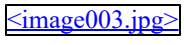

DANIEL S. LIPMAN | *Vice President, Suppliers, New Reactors and International Programs*
1201 F Street, NW, Suite 1100 | Washington, DC 20004
P: 202.739.8115 M: 202.361.2861 E: dsl@nei.org nei.org



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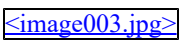
السرية وإخلاء المسئولية:

تعتبر رسالة البريد الالكتروني هذه ومرفقاتها سرية وموجهة فقط للمرسل إليهم. ولا يجوز لأي شخص غير مخول بالإطلاع على محتوياتها أو إعادة إرسالها أو نشرها بأي وسيلة كانت وفي حال تلقي رسالة البريد الالكتروني هذه عن طريق الخطأ ، فإنه يرجى القيام فوراً بإخطار المُرسِل كتابياً بذلك عن طريق البريد الالكتروني وحذف رسالة البريد الإلكتروني هذه بكافة مرفقاتها. كما أن أية أراء أو إفادات مذكورة في رسالة البريد الإلكتروني هذه تعبر فقط عن رأي كاتبها و لا تعكس بالضرورة رأي" مدينة الملك عبدالله للطاقة الذرية والمتجددة" "المدينة". كما لا تضمن "المدينة" خلو رسالة البريد الإلكتروني هذه ومرفقاتها من أية عيوب فنية او فيروسات او ما في حكمهما ، ويبقى المتلقي لها وحده مسئولاً مسئولية كاملة عن ضمان ذلك، حيث أن "المدينة" لن تتحمل أي مسئولية عن أي أضرار قد يسببها عيب فني او فيروس وما في حكمهما يمكن أن تحتويه رسالة البريد الإلكتروني هذه.



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<Schedule.docx>

<image001.jpg>

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AMERICAN OVERSIGHT

From: JONES, Ted
To: Scott, Michelle
Subject: NEI Letter to Secretary Ross re KSA trade mission
Date: Tuesday, March 6, 2018 5:29:12 PM
Attachments: NEI Letter to Secretary Ross re KSA trade mission.docx

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Could you please call to discuss?

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AMERICAN OVERSIGHT

MARIA KORSNICK
President and Chief Executive Officer
1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8187
mgk@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

March 9, 2018

DRAFT

The Honorable Wilbur Ross
Secretary of Commerce
U.S. Department of Commerce
1401 Constitution Ave., NW
Washington, DC 20230

Subject: **U.S. Department of Commerce Leadership for the U.S. Nuclear Industry Trade Mission to Saudi Arabia**

Dear Mr. Secretary:

It is my pleasure to request your participation as the lead U.S. Government representative in the first U.S. nuclear executive trade mission to the Kingdom of Saudi Arabia. The Nuclear Energy Institute (NEI), in partnership with the King Abdullah City for Renewable and Atomic Energy (K.A.CARE), last week announced the mission to take place in Riyadh and Dhahran on April 23-25. NEI has applied to the U.S. Department of Commerce's International Trade Administration for certification of the mission.

The nascent Saudi nuclear energy sector represents an $80 billion commercial prospect for U.S. industry and the U.S. Departments of Commerce and Energy along with other federal agencies have been instrumental in opening this opportunity. Without your and Secretary Perry's leadership, the U.S. industry would not have been invited to participate in the ongoing competition to supply Saudi Arabia's initial two large nuclear reactors for their nuclear program. As a result of the U.S. Government's efforts, we are hopeful that the Westinghouse-led U.S. consortium will be among the two or three finalists selected in the coming month.

Given your personal attention on this issue, we believe it would be appropriate for you to lead our executive delegation to Saudi Arabia. The Government of Saudi Arabia have consistently appreciated U.S. Government engagement, so having a senior-level presence in support of bilateral nuclear cooperation discussions and promotion of the U.S. nuclear supply chain will be critical to U.S. success as the commercial dialogue moves toward a final selection. And the stakes are vast – billions in U.S. exports, thousands of U.S. jobs, and decades of U.S. influence on the Saudi nuclear energy program.

I and other senior industry executives would be pleased to discuss this request in greater detail.

AMERICAN OVERSIGHT

Sincerely yours,

Maria Korsnick

AMERICAN OVERSIGHT

From: Scott, Michelle
To: "JONES, Ted"
Subject: RE: NEI Letter to Secretary Ross re KSA trade mission
Date: Tuesday, March 6, 2018 10:12:36 PM
Attachments: 2018-03-06 NEI Letter to Secretary Ross re KSA trade mission - MLS Edits.docx

Hey Ted,

Attached are my suggested edits to the proposed letter. Talk to you at 8:30am!

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: JONES, Ted [mailto:thj@nei.org]
Sent: Tuesday, March 06, 2018 5:29 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: NEI Letter to Secretary Ross re KSA trade mission

Could you please call to discuss?

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AMERICAN OVERSIGHT

MARIA KORSNICK
President and Chief Executive Officer
1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8187
mgk@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

March 9, 2018

DRAFT

The Honorable Wilbur Ross
Secretary of Commerce
U.S. Department of Commerce
1401 Constitution Ave., NW
Washington, DC 20230

Subject: **U.S. Department of Commerce Leadership for the U.S. Nuclear Industry Trade Mission to Saudi Arabia**

Dear Mr. Secretary:

It is my pleasure to request your participation as the lead U.S. Government representative in the first U.S. nuclear executive trade mission to the Kingdom of Saudi Arabia. The Nuclear Energy Institute (NEI), in partnership with the King Abdullah City for Renewable and Atomic Energy (K.A.CARE), last week announced the mission to take place in Riyadh and Dhahran on April 23-25. NEI has applied to the U.S. Department of Commerce's International Trade Administration for certification of the mission.

The nascent Saudi nuclear energy sector represents an $80 billion commercial prospect for U.S. industry and the U.S. Departments of Commerce and Energy along with other federal agencies have been instrumental in opening this opportunity. Without your and Secretary Perry's leadership, the U.S. industry would not have been invited to participate in the ongoing competition to supply Saudi Arabia's initial two large nuclear reactors for their nuclear program. As a result of the U.S. Government's efforts, we are hopeful that the Westinghouse-led U.S. consortium will be among the two or three finalists selected in the coming month.

Given your personal attention on this issue, we believe it would be appropriate for you to lead our executive delegation to Saudi Arabia. The Government of Saudi Arabia have consistently appreciated U.S. Government engagement, so having a senior-level presence in support of bilateral nuclear cooperation discussions and promotion of the U.S. nuclear supply chain will be critical to U.S. success as the commercial dialogue moves toward a final selection. And the stakes are vast – billions in U.S. exports, thousands of U.S. jobs, and decades of U.S. influence on the Saudi nuclear energy program.

I and other senior industry executives would be pleased to discuss this request in greater detail.

AMERICAN OVERSIGHT

Sincerely yours,

Maria Korsnick

AMERICAN OVERSIGHT

From: JONES, Ted
To: Scott, Michelle
Subject: RE: NEI Letter to Secretary Ross re KSA trade mission
Date: Wednesday, March 7, 2018 8:51:06 AM
Attachments: 2018-03-06 NEI Letter to Secretary Ross re KSA trade mission - ver 2.docx

Revised version. Still awaiting discussion with Jon and Devin.

From: Scott, Michelle [mailto:MICHELLE.SCOTT@nuclear.energy.gov]
Sent: Wednesday, March 7, 2018 8:36 AM
To: JONES, Ted
Subject: RE: NEI Letter to Secretary Ross re KSA trade mission

No, I think we are good to go.

From: JONES, Ted <thj@nei.org>
Date: Wednesday, Mar 07, 2018, 8:34 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: NEI Letter to Secretary Ross re KSA trade mission

Michelle,

Thank you for this. I've incorporated all of your suggestions. I don't think we need to talk about it unless there's something else. If so, I'll be at (b) (6) until the 9:30 call.

Best,

Ted

From: Scott, Michelle [mailto:MICHELLE.SCOTT@nuclear.energy.gov]
Sent: Tuesday, March 6, 2018 10:13 PM
To: JONES, Ted
Subject: RE: NEI Letter to Secretary Ross re KSA trade mission

Hey Ted,

Attached are my suggested edits to the proposed letter. Talk to you at 8:30am!

Michelle

Michelle L. Scott
Senior Advisor

AMERICAN OVERSIGHT

Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

From: JONES, Ted [mailto:thj@nei.org]
Sent: Tuesday, March 06, 2018 5:29 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: NEI Letter to Secretary Ross re KSA trade mission

Could you please call to discuss?



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AMERICAN OVERSIGHT

MARIA KORSNICK
President and Chief Executive Officer
1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8187
mgk@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

March 9, 2018

DRAFT

The Honorable Wilbur Ross
Secretary of Commerce
U.S. Department of Commerce
1401 Constitution Ave., NW
Washington, DC 20230

Subject: **U.S. Department of Commerce Leadership for the U.S. Nuclear Industry Trade Mission to Saudi Arabia**

Dear Mr. Secretary:

It is my pleasure to request your participation as the lead U.S. Government representative in the first U.S. nuclear executive trade mission to the Kingdom of Saudi Arabia. The Nuclear Energy Institute (NEI), in partnership with the King Abdullah City for Renewable and Atomic Energy (K.A.CARE), last week announced that this mission will take place in Riyadh and Dhahran on April 23-25. NEI has applied to the U.S. Department of Commerce's International Trade Administration for certification of the mission.

The nascent Saudi nuclear energy sector represents an $80 billion commercial prospect for U.S. industry and the U.S. Departments of Commerce and Energy, along with other federal agencies, have been instrumental in opening this opportunity. Without your and Secretary Perry's leadership, the U.S. industry would not have been invited to participate in the ongoing competition to supply the Saudi Arabian nuclear program with its initial two large nuclear plants. As a result of the U.S. Government's extraordinary efforts, we are hopeful that the Westinghouse-led U.S. consortium will be among the two or three finalists selected in the coming month.

Given your personal attention to this issue, we believe it would be appropriate for you to lead our executive delegation to Saudi Arabia. The Government of Saudi Arabia highly values U.S. Government engagement, The continued presence and support of senior U.S. Government leaders will be critical to U.S. success as the commercial dialogue moves toward a final selection. And the stakes are vast – billions in U.S. exports, tens of thousands of U.S. jobs, and decades of U.S. influence on the Saudi nuclear energy program.

AMERICAN OVERSIGHT

I and other senior industry executives would be pleased to discuss this request in greater detail.

Sincerely yours,

Maria Korsnick

AMERICAN OVERSIGHT

From: JONES, Ted
To: Jonathan Chesebro; Devin Horne
Cc: WILLIAMS, Jamie; ESPINOSA, Krista; Scott, Michelle
Subject: NEI Letter to Secretary Ross re KSA trade mission v2
Date: Wednesday, March 14, 2018 12:46:44 PM
Attachments: NEI Letter to Secretary Ross re KSA trade mission v2.docx

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Jon and Devin,

Attaching a modified draft invitation letter to Secretary Ross, as discussed. Let me know if you have any suggested changes.

Thanks,

Ted

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AMERICAN OVERSIGHT

MARIA KORSNICK
President and Chief Executive Officer
1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8187
mgk@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

March 16, 2018

DRAFT

The Honorable Wilbur Ross
Secretary of Commerce
U.S. Department of Commerce
1401 Constitution Ave., NW
Washington, DC 20230

Subject: **U.S. Department of Commerce Leadership for U.S. Nuclear Industry in Saudi Arabia**

Dear Mr. Secretary:

It is my pleasure to request you to deliver keynote remarks on U.S.-Saudi nuclear energy cooperation on the occasion of the first U.S. nuclear executive trade mission to the Kingdom of Saudi Arabia. The Nuclear Energy Institute (NEI), with certification from the U.S. Department of Commerce and in partnership with the King Abdullah City for Renewable and Atomic Energy (K.A.CARE), will host the mission in Riyadh and Dhahran on April 23-25.

The nascent Saudi nuclear energy sector represents an $80 billion commercial opportunity for U.S. industry and the U.S. Department of Commerce has been instrumental in opening it. But for your personal leadership, U.S. industry would not have been invited to participate in the ongoing competition to supply Saudi Arabia's initial two large nuclear plants. As a result of your efforts, we are hopeful that the Westinghouse-led U.S. consortium will be among the two or three finalists selected in the coming month.

Given your leadership on this issue, we believe it would be appropriate for you to meet with our executive delegation in Saudi Arabia. Strong U.S. Government support for bilateral nuclear cooperation and U.S. supply will be critical to U.S. success as the commercial dialogue moves toward a final selection. And the stakes are vast – billions in U.S. exports, thousands of U.S. jobs, and decades of U.S. influence on the Saudi nuclear energy program.

AMERICAN OVERSIGHT

We appreciate your leadership for U.S. industry in Saudi Arabia and we would be pleased to discuss this request in greater detail.

Sincerely yours,

Maria Korsnick

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Friedel, Loren
Subject: FW NNSA Equity
Date: Wednesday, March 14, 2018 2:12:00 PM
Attachments: NNSA Equity

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

NNSA Equity

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AMERICAN OVERSIGHT

From: Friedel, Loren
To: Scott, Michelle
Cc: Lennon, Sarah; Crosland, Armando (LAB); Milton, Ingrid
Subject: NNSA Equity
Date: Wednesday, March 14, 2018 2:24:10 PM
Attachments: NNSA Equity

Michelle,

Here's my NPAS input on Katie's template including (b) (5)
-Loren

From: Scott, Michelle
Sent: Wednesday, March 14, 2018 2:12 PM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Perry, Todd <Todd.Perry@nnsa.doe.gov>; Durbin, Karyn <Karyn.Durbin@nnsa.doe.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Veal, Kevin <Kevin.Veal@nnsa.doe.gov>; Krupa, Melissa M <Melissa.Krupa@nnsa.doe.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Postman, Max <Max.Postman@NNSA.DOE.Gov>; Norles, Jessica <Jessica.Norles@nnsa.doe.gov>
Subject: RE: NNSA Equity

+ Loren

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

From: Scott, Michelle
To: Oehlbert, Sean; Strangis, Katie; Perry, Todd; Durbin, Karyn; Lennon, Sarah; Veal, Kevin; Krupa, Melissa M
Cc: Postman, Max; Norles, Jessica
Subject: RE: NNSA Equity
Date: Thursday, March 15, 2018 8:51:39 AM
Attachments: NNSA Equity

Here is the correct attachment.

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Thursday, Mar 15, 2018, 8:49 AM
To: Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>, Strangis, Katie <Katie.Strangis@nnsa.doe.gov>, Perry, Todd <Todd.Perry@nnsa.doe.gov>, Durbin, Karyn <Karyn.Durbin@nnsa.doe.gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Veal, Kevin <Kevin.Veal@nnsa.doe.gov>, Krupa, Melissa M <Melissa.Krupa@nnsa.doe.gov>
Cc: Postman, Max <Max.Postman@NNSA.DOE.Gov>, Norles, Jessica <Jessica.Norles@nnsa.doe.gov>
Subject: RE: NNSA Equity

Yes, I clearly i did. Resending now.



AMERICAN OVERSIGHT

From: Scott, Michelle
Sent: Wednesday, March 14, 2018 6:00 PM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>; Oehlbert, Sean <Sean.Oehlbert@nnsa.doe.gov>; Perry, Todd <Todd.Perry@nnsa.doe.gov>; Durbin, Karyn <Karyn.Durbin@nnsa.doe.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Veal, Kevin <Kevin.Veal@nnsa.doe.gov>; Krupa, Melissa M <Melissa.Krupa@nnsa.doe.gov>
Cc: Postman, Max <Max.Postman@NNSA.DOE.Gov>; Norles, Jessica <Jessica.Norles@nnsa.doe.gov>
Subject: RE: NNSA Equity

Attached is NE's input.

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

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State Equity

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AMERICAN OVERSIGHT

NNSA Equity

From: JONES, Ted <thj@nei.org>
Date: Tuesday, Mar 20, 2018, 6:03 PM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>, Jonathan Chesebro <Jonathan.Chesebro@trade.gov>, Devin Horne <devin.horne@trade.gov>, LIPMAN, Daniel <dsl@nei.org>, ESPINOSA, Krista <kme@nei.org>
Subject: NEI Invitation to Participate in US Commercial Nuclear Trade Mission to Saudi Arabia

Dear Katie,

Please see attached a letter from NEI inviting your participation in the upcoming U.S. Commercial Nuclear Trade Mission to Saudi Arabia. More information about the mission is available here. We hope that you will be able to join us. If you have any questions, please don't hesitate to contact me.

Regards,

Ted

Ted Jones
Nuclear Energy Institute
1201 F Street NW
Washington, D.C. 20004
p: 202.739.8169
m: 202.415.8578
twitter: @TJinDC

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Sent through www.intermedia com

AMERICAN OVERSIGHT

DANIEL S. LIPMAN
Vice President, Suppliers and International Programs

1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8115
dsl@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

March 20, 2018

Ms. Katie Strangis
Senior Policy Advisor
Office of Nonproliferation and Arms Control
National Nuclear Security Administration
1201 Maryland Ave., SW
Washington, DC 20024

Subject: U.S. Department of Energy Leadership for U.S. Nuclear Industry in Saudi Arabia

Dear Ms. Strangis:

It is my pleasure to request you to participate in the U.S. nuclear executive trade mission to the Kingdom of Saudi Arabia. The Nuclear Energy Institute (NEI), with certification from the U.S. Department of Commerce and U.S. Saudi Arabian Business Council, and in partnership with the King Abdullah City for Renewable and Atomic Energy (K.A.CARE), will host the mission in Riyadh and Dhahran on April 23-25.

The nascent Saudi nuclear energy sector represents an $80 billion commercial opportunity for U.S. industry and the U.S. Department of Energy has been instrumental in opening it for U.S. competition. But for the Department's leadership, U.S. industry would not have been invited to participate in the ongoing competition to supply Saudi Arabia's initial two large nuclear plants. As a result of those efforts, we are hopeful that the Westinghouse-led U.S. consortium will be among the two or three finalists selected in the coming month, and that other U.S. nuclear suppliers will be enabled to compete for other business in the sector.

Given the role played by you and the Department in creating this opportunity, we believe it would be most appropriate for you to participate in our executive delegation's visit to Saudi Arabia. Strong U.S. Government support for bilateral nuclear cooperation and U.S. supply will be vital to U.S. success as the commercial dialogue moves toward a final selection. And the stakes are vast – billions in U.S. exports, tens of thousands of U.S. jobs, and decades of U.S. influence on the Saudi nuclear energy program.

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We deeply appreciate your leadership and support for the U.S. nuclear industry in Saudi Arabia and we would be pleased to discuss this invitation in greater detail. Ted Jones, NEI Director for Supplier Programs, will be in touch with you about this request and if you have any questions in the meantime, please do not hesitate to contact him at 202-415-8578 or thj@nei.org.

Sincerely,

Daniel S. Lipman

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Lennon, Sarah; Friedel, Loren
Cc: Singh, Karen
Subject: RE: NEI Trade Mission input for Weekly Report
Date: Tuesday, April 10, 2018 4:09:00 PM

(b) (5)

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Lennon, Sarah
Sent: Tuesday, April 10, 2018 4:08 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Singh, Karen <Karen.Singh@nuclear.energy.gov>
Subject: RE: NEI Trade Mission input for Weekly Report

(b) (5)

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Tuesday, Apr 10, 2018, 3:54 PM
To: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Singh, Karen <Karen.Singh@nuclear.energy.gov>
Subject: RE: NEI Trade Mission input for Weekly Report

(b) (5)

AMERICAN OVERSIGHT

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Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

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Sent: Tuesday, April 10, 2018 3:27 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Singh, Karen <Karen.Singh@nuclear.energy.gov>
Subject: NEI Trade Mission input for Weekly Report
Importance: High

Michelle,

Can you please review this item for the NE Weekly ASAP. I need to submit it today. I'll add the VTC input when we have the date.
Thanks!
-Loren

(b) (5)

From: Singh, Karen
Sent: Tuesday, April 10, 2018 2:08 PM
To: DL-NE-6 <DL-NE-6@hq.doe.gov>
Subject: Call for input - Weekly Report

All-

If you have any updates or input for the NE Weekly Report, please send it to me by **NLT COB Wednesday, April 11.**

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Please note:
* Your input should include events taking place the week of April 23 and later.
* The input must include a title, should begin with the event date(s) and end with a Press statement.
* All input should be reviewed and approved by Sarah if from NE-61, or John if from NE-62, before it is sent to me.

If you have nothing to report, a negative response is appreciated.

Thank you!
Karen

AMERICAN OVERSIGHT

From: Friedel, Loren
To: Lennon, Sarah; Scott, Michelle
Cc: Singh, Karen
Subject: RE: NEI Trade Mission input for Weekly Report
Date: Tuesday, April 10, 2018 4:11:20 PM

Hi Sarah,

I spoke with Andrew and he would like both the Trade Mission and the VTC to appear in the Weekly. I have not prepared an entry for the next VTC since we don't have a date yet.
-Loren

From: Lennon, Sarah
Sent: Tuesday, April 10, 2018 4:08 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Singh, Karen <Karen.Singh@nuclear.energy.gov>
Subject: RE: NEI Trade Mission input for Weekly Report

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Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Singh, Karen <Karen.Singh@nuclear.energy.gov>
Subject: RE: NEI Trade Mission input for Weekly Report

(b) (5)

Michelle L. Scott
Senior Advisor

AMERICAN OVERSIGHT

Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

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To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Singh, Karen <Karen.Singh@nuclear.energy.gov>
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AMERICAN OVERSIGHT

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If you have nothing to report, a negative response is appreciated.

Thank you!
Karen

AMERICAN OVERSIGHT

From: Friedel, Loren
To: Scott, Michelle
Subject: RE: NEI Trade Mission input for Weekly Report
Date: Tuesday, April 10, 2018 4:19:09 PM

Thanks Michelle!

From: Scott, Michelle
Sent: Tuesday, April 10, 2018 3:55 PM
To: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Singh, Karen <Karen.Singh@nuclear.energy.gov>
Subject: RE: NEI Trade Mission input for Weekly Report

(b) (5)

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

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Sent: Tuesday, April 10, 2018 3:27 PM
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Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Singh, Karen <Karen.Singh@nuclear.energy.gov>
Subject: NEI Trade Mission input for Weekly Report
Importance: High

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AMERICAN OVERSIGHT

Thanks!
-Loren

(b) (5)

From: Singh, Karen
Sent: Tuesday, April 10, 2018 2:08 PM
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If you have nothing to report, a negative response is appreciated.

Thank you!
Karen

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From: French, Matthew C.
To: Scott, Michelle
Subject: Nuclear Deal Updates on 810 and 123
Date: Tuesday, May 8, 2018 1:04:28 PM

Hi Michelle,

I have a few general questions I wanted to ask this AM, but we ran out of time. I'm getting some questions on a general update on the 810 and 123 agreements, and need to write a couple sentences on the latest updates:

1. (b) (5)

2. (b) (5)

3. (b) (5)

4. (b) (5)

5. (b) (5)

Thanks!

Matt

Matthew French

AMERICAN OVERSIGHT

Office of African and Middle Eastern Affairs

U.S. Department of Energy

202-586-3335

Matthew.French@hq.doe.gov

AMERICAN OVERSIGHT

From: Crosland, Armando (LAB)
To: Lopatto, Jeanne T.
Cc: Scott, Michelle
Subject: New DAE Chairman
Date: Friday, September 28, 2018 7:36:50 AM

Jeanne, I was supposed to send this to you yesterday. The new DAE Chairman is Kamlesh Nilkanth Vyas. Vyas was appointed to the position on September 19, 2018 following the retirement of Chairman Basu. Vyas previously served as Director of the Bhaba Atomic Research Centre (BARC), and will serve in his capacity as the new DAE Chairman through May 3, 2021.

-----Original Message-----
From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Thursday, September 27, 2018 10:10 AM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Cc: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: [EXTERNAL] Re: Call today

Yes I can but I won't have a briefing on KSA meeting this week until after 2. But I can give you an update on that on another call. Yes call me at 130.

Sent from my iPhone

> On Sep 27, 2018, at 10:05 AM, Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov> wrote:
>
>
> Jeanne,
>
> It's Michelle we n Armando's phone, can you do a call today at 1:30pm to discuss the meetings in the margins of the GC, feedback from KSA, UK and NuGen?
>
> Thanks
> Michelle
>
>

_____

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Use caution if this message contains attachments, links or requests for information.

****

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From: Scott, Michelle
To: Cutler, Kirsten B
Subject: RE: NEI
Date: Thursday, February 2, 2017 11:26:03 PM

No worries. I totally understand, can you forward me the 123 points you sent to Jon?

State Equity

From: Scott, Michelle
Sent: Thursday, February 2, 2017 7:42 PM
To: Malcolm Burke
Cc: Jonathan Chesebro; Devin Horne; Cutler, Kirsten B
Subject: RE: Input for OUO Country Matrix

Thanks Malcolm,

A number of us are working on papers associated with the Toshiba/Westinghouse issue. Do we have US content for the NuGen project?

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy Policy & Cooperation
202-586-9719 (ofc)

Trade/Commerce Equity

AMERICAN OVERSIGHT

Trade/Commerce Equity

AMERICAN OVERSIGHT

From: McGinnis, Edward
To: Jaworowski, Suzanne
Cc: Larson, Seth; Scott, Michelle
Subject: FW: NEGTN02-#224584-v1-Westinghouse_Fact_Sheet_transmittal_to_RAY
Date: Monday, March 27, 2017 11:32:38 AM
Attachments: NEGTN02-#224584-v1-Westinghouse_Fact_Sheet_transmittal_to_RAY.docx
NEGTN02-#224585-v1-WESTINGHOUSE_BANKRUPTCY.docx

---

fyi

From: Johnson, Shane
Sent: Monday, March 27, 2017 10:36 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Larson, Seth <Seth.Larson@nuclear.energy.gov>
Cc: Worley, Michael <Michael.Worley@nuclear.energy.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: NEGTN02-#224584-v1-Westinghouse_Fact_Sheet_transmittal_to_RAY

Here is some additional info on WEC's domestic industrial activities.

Shane

Sent with Good (www.good.com)

From: O'Connor, Tom (NE-HQ)
Sent: Monday, March 27, 2017 10:26:26 AM
To: Johnson, Shane
Cc: Worley, Michael; Cook, Trevor; Miller, Tom
Subject: NEGTN02-#224584-v1-Westinghouse_Fact_Sheet_transmittal_to_RAY

Shane,
Attached is a cover note and set of bullets for Ray on Westinghouse.

(b) (5)

I have made some inquiries to folks for some back ground information but have not heard back from them. This input reflects edits from Tom Miller.

TJO

AMERICAN OVERSIGHT

Department of Energy
Washington, DC 20585

FORMAL NOTE

DATE: March 27, 2017

TO: RAYMOND FURSTENAU
ACTING ASSISTANT SECRETARY
FOR NUCLEAR ENERGY

FROM: R. SHANE JOHNSON
DEPUTY ASSISTANT SECRETARY
FOR NUCLEAR TECHNOLOGY DEMONSTRATION
AND DEPLOYMENT

SUBJECT: Fact Sheet for impending Westinghouse bankruptcy

Attached is a Fact Sheet that provides bullets related to the impending Westinghouse bankruptcy. Reuters reports today that Toshiba expects Westinghouse to file for bankruptcy on March 28, 2017. The Fact Sheet gives some background on what is happening, provides a list of Westinghouse designed nuclear power plants in the United States, discusses the potential impacts to these plants, and discusses impacts to the construction of the four AP-1000 plants presently underway.

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Printed with soy ink on recycled paper

Fact Sheet for impending Westinghouse bankruptcy

- The Municipal Electric Authority of Georgia and Southern Company are building two new Westinghouse AP 1000 reactors at the Vogtle plant near Augusta, GA.

- The South Carolina Public Service Authority in partnership with the SCANA Corporation are constructing two new Westinghouse AP 1000 reactors at the V.C. Summer plant near Columbia, SC.

- The owners of these four new reactors are actively looking at the consequences to them if Westinghouse declared bankruptcy, but the most likely outcome is that any cost or schedule impacts moving forward would be a burden on the plant owners.

- Chapter 11 Bankruptcy is not dissolution. It will allow Westinghouse to create a plan with the court to reorganize debt so that Westinghouse can be an ongoing concern. Westinghouse has profitable business in fuels and nuclear services. It is likely Westinghouse will see construction of the four new plants in the United States through. It does create a business opportunity for other nuclear fuel services companies to gain market share. Companies such as AREVA, GE, Mitsubishi provide similar nuclear services and PWR fuel, and with offices in the U.S., these companies are the most likely to try and poach Westinghouse customers.

- Should Westinghouse not be able to reorganize its debt, then the profitable business centers would likely be sold off to pay its debt. The companies identified above in addition to other global companies from Korea, China and possibly India could be likely buyers. For example the Westinghouse Columbia fuel manufacturing facility and the contracts for new fuel to U.S utilities could be sold off separately. It represents a major step into the nuclear fuel market in the U.S and other global locations for any global investor. Westinghouse also has fuel plants in Sweden, United Kingdom, and fuel partnership facilities in Europe and Japan.

- **Westinghouse nuclear services include:**

    - Supply of a complete range of nuclear fuel products
    - Complete range of field and shop services in support of plant operation and outage execution
    - Design authority for all Westinghouse new and operating Original Equipment Manufacturer plants (including Combustion Engineering pressurized water reactors, ASEA-Atom boiling water reactor plants, and AP1000® nuclear power plants)
    - Major component design engineering to manage and repair or replace hardware for aging plants and plant life extension
    - Systems, safety and regulatory analyses to support plant upgrades, including regulatory approval, and up-ratings
    - Manufacturing of precision components, including reactor vessel internals, reactor coolant pumps, cranes, crane components and fuel-handling equipment

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- Management and implementation of plant modification projects, including engineer-procure-construct, welding, decommissioning and dismantling
- Supply of high-quality replacement and new nuclear plant parts

- **Number of Westinghouse Designed Plants in United States is 48 units**

1. Beaver Valley Power Station, Unit 1 and Unit 2 (Shippingport, PA)
2. Braidwood Station, Unit 1 and Unit 2 (Braceville, IL)
3. Byron Station Unit 1 and Unit 2 (Byron, IL)
4. Callaway Plant Unit 1 (Fulton, MO)
5. Catawba Nuclear Station Unit 1 and Unit 2 (York, NC)
6. Comanche Peak Unit 1 and Unit 2 (Glen Rose, TX)
7. D.C. Cook Unit 1 and Unit 2 (Bridgman, MI)
8. Diablo Canyon Unit 1 and Unit 2 (San Luis Obispo, CA)
9. Joseph M. Farley Unit 1 and Unit 2 (Columbia, AL)
10. R. E. Ginna Nuclear Power Plant (Ontario, NY)
11. Indian Point Unit 2 and Unit 3 (Buchanan, NY)
12. McGuire Unit 1 and Unit 2 (Huntersville, NC)
13. Millstone Unit 3 (Waterford, CT)
14. North Anna Unit 1 and Unit 2 (Louisa, VA)
15. Point Beach Unit 1 and Unit 2 (Two Rivers, WI)
16. Prairie Island Unit 1 and Unit 2 (Welch, MN)
17. Robinson Unit 2 (Hartsville, SC)
18. Salem Unit 1 and Unit 2 (Hancocks Bridge, DE)
19. Seabrook Unit 1 (Seabrook, NH)
20. Sequoyah Unit 1 and Unit 2 (Soddy-Daisy, TN)
21. Shearon Harris Unit 1 (New Hill, NC)
22. South Texas Unit 1 and Unit 2 (Bay City, TX)
23. Summer Unit 1 (Jenkensville, SC)
24. Surry Unit 1 and Unit 2 (Surry, VA)
25. Turkey Point Unit 3 and Unit 4 (Homestead, FL)
26. Vogtle Unit 1 and Unit 2 (Waynesboro, GA)
27. Watts Bar Unit 1 and Unit 2 (Spring City, TN)
28. Wolf Creek Unit 1 (Burlington, KS)

AMERICAN OVERSIGHT

From: JONES, Ted
To: Scott, Michelle; Hutchins, Scott (Embassy Riyadh); "Feleke.Assefa@trade.gov"; Jonathan Chesebro; Carver, Michael J; "Nasir.Abbasi@trade.gov"; Habeeb Saeed; Devin Horne; Mark OGrady; Apostol, Douglas J
Cc: ESPINOSA, Krista
Subject: NEI Commercial Nuclear Executive Mission to Saudi Arabia
Date: Wednesday, October 4, 2017 11:07:35 AM
Attachments: Lipman, Daniel - bio - abbreviated 2017.doc

All:

Attaching here Dan Lipman's bio for the Nov. 2 meeting with KA-CARE. Thanks to the U.S. Embassy Riyadh team for arranging this meeting.

I will share the draft NEI letter to Dr. Yamani after making a few changes, later today or tomorrow. As discussed, we will plan to hand-deliver it on Nov. 2.

Ted

Ted Jones
Nuclear Energy Institute
1201 F Street NW
Washington, D.C. 20004
p: 202.739.8169
m: (b) (6)
twitter: @TJinDC

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Daniel S. Lipman
Vice President, Suppliers, New Reactors and International Programs



Daniel S. Lipman is the Vice President of Supplier and International Programs for the Nuclear Energy Institute (NEI). He is responsible for policy issues related to supplier and nuclear-fuel-related companies; advanced reactor deployment; industry programs on nuclear exports and international trade; and relations with Congress and the Executive Branch on these issues. He also is responsible for integrating across NEI's international activities. Prior to joining NEI, Mr. Lipman was Senior Vice President with Westinghouse responsible for managing the global deployment of new power plants. While there, he led new plant projects in Korea and the deployment of 10 new AP1000 EPC contracts in China and the U.S. Mr. Lipman was also the Chair of the Organizing Committee of the 2016 Nuclear Industry Summit.

■

AMERICAN OVERSIGHT

Trade/Commerce Equity

AMERICAN OVERSIGHT

Trade/Commerce Equity

From: JONES, Ted [mailto:thj@nei.org]
Sent: Wednesday, October 04, 2017 11:07 AM
To: Michelle Scott; Hutchins, Scott G; Feleke Assefa; Jonathan Chesebro; Carver, Michael J; Nasir Abbasi; Habeeb Saeed; Devin Horne; Mark OGrady; Apostol, Douglas J
Cc: ESPINOSA, Krista
Subject: NEI Commercial Nuclear Executive Mission to Saudi Arabia

All:

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1201 F Street NW
Washington, D.C. 20004
p: 202.739.8169
(b) (6)
twitter: @TJinDC

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Document 5
Consisting of 20 pages is an International Trade Administration Equity transferred in full for direct response to the requester

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Document 6
Consisting of 8 pages is an National Nuclear Security Administration Equity transferred in full for direct response to the requester

AMERICAN OVERSIGHT

Trade/Commerce Equity

On Dec 4, 2017, at 7:11 PM, Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov> wrote:

Let talk in the am.

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6)

Trade/Commerce Equity

From: Christine Parthemore [mailto:christine.parthemore@ip3international.com]
Sent: Monday, December 04, 2017 4:50 PM
To: Jonathan Chesebro
Cc: Stuart Solomon
Subject: U.S - Saudi Civil Nuclear Energy Roundtable Application

Jonathan,

Thank you for calling about our application to participate in the December exchange.

As I mentioned, we'd prepared more text than the form would accept regarding what we can contribute to this specific mission. I've pasted it below. Additionally, we have staff in Saudi Arabia now engaging with universities, MISK, Aramco,

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and others to map how U.S. partners can best contribute to nuclear energy-relevant human capital, training, and localization needs.

Please let us know if we can provide any additional information. We appreciate your consideration and look forward to contributing to this or future efforts.

Best wishes,
Christine

*11.Please describe your company's/organization's product/service(s) you seek to promote on this mission. Include the features that distinguish your product/service from the competition and describe the competitive advantages.**

IP3's vision is to create thriving, peaceful environments in critical world markets through the development of sustainable energy and security infrastructure via public/private initiatives and U.S. industry-led partnerships. The company's goal is to be the leading integrator of comprehensive nuclear energy and security solutions, and work with partner countries to facilitate well-managed programs aligned with their national visions and global non-proliferation goals.

The services IP3 offers focus on ensuring large-scale nuclear energy projects are planned and executed in a comprehensive and integrated manner. IP3's services include the delivery of effective operations and management models; robust human capital programs; efficient back-office plans; proliferation-resistant nuclear fuel cycle strategies; and regional security architecture.

IP3 is uniquely positioned to deliver these services. It is led by senior-level U.S. national security, foreign policy, and energy leaders. Our partner companies include best-in-class industry providers that can reliably deliver the full spectrum of security and energy infrastructure to the highest safety standards. IP3 was founded and designed to fill the critical gaps in current international nuclear energy program development plans, most importantly comprehensive strategy and cross-project integration.

Our work is designed to leverage the IP3 team's decades of experience leading energy sector transformation and human performance programs in the United States, which will enable countries such as Saudi Arabia to launch safe and effective nuclear energy programs from Day 1. Our experiences include all aspects of change management regarding nuclear and other energy systems, including public communication, careful planning, and stakeholder education and cultivation. The lessons from this work are directly applicable to KA-CARE's task and Saudi Arabia's nuclear energy goals, which are part of the broader electricity sector transformation plans set under Vision 2030.

Other members of the IP3 team have decades of experience serving in relevant roles in the U.S. government. They have led and participated in nuclear-related dialogues, exercises, and projects that span emergency preparedness, research and development, instilling workforce safety and security cultures, leadership training, and other functions.

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IP3 also brings staff, advisors, and board with deep expertise in the Middle East, and the company's services have been developed specifically for Saudi Arabia. The company and its personnel are committed to leading U.S. companies into mutually beneficial, long-enduring partnerships in the region. Most important, IP3's services offered to Saudi Arabia place human capital development as the central theme. Our company has worked for months to link IP3's proposed plans and services to the Saudi Vision 2030 human capital and localization targets.

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From: McKearin, Josh
To: Scott, Michelle
Cc: Sweetnam, Glen; Pasalic, Blair
Subject: NE/KSA Roadmap and issues to advance?
Date: Tuesday, January 2, 2018 1:41:10 PM
Attachments: 06a - S2 Bilat with KACARE Alodanv2 - NE edits bpawl.docx
06b - S2 Bilat with KACARE Alodan TPsv2 - NE editsawl.docx
10 - Bkgrd Paper - Nuclearv2 gs bp.docx

Michelle,

Happy New Year! (b) (6)

1) Would it be possible for you to send me the Nuclear Engagement Roadmap with Saudi Arabia? It would be helpful to have in S2's book.
2) In the Nuclear backgrounder, it says "You will move forward any outcomes from the Roundtable event". Is there anything to move forward? If not, should we strike it? I've attached the nuclear backgrounder and the Alodan memo/TPs.

Thanks,
Josh

Josh McKearin
International Affairs
U.S. Department of Energy
O: 202-586-3149
(b) (6)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

SI BRIEFING

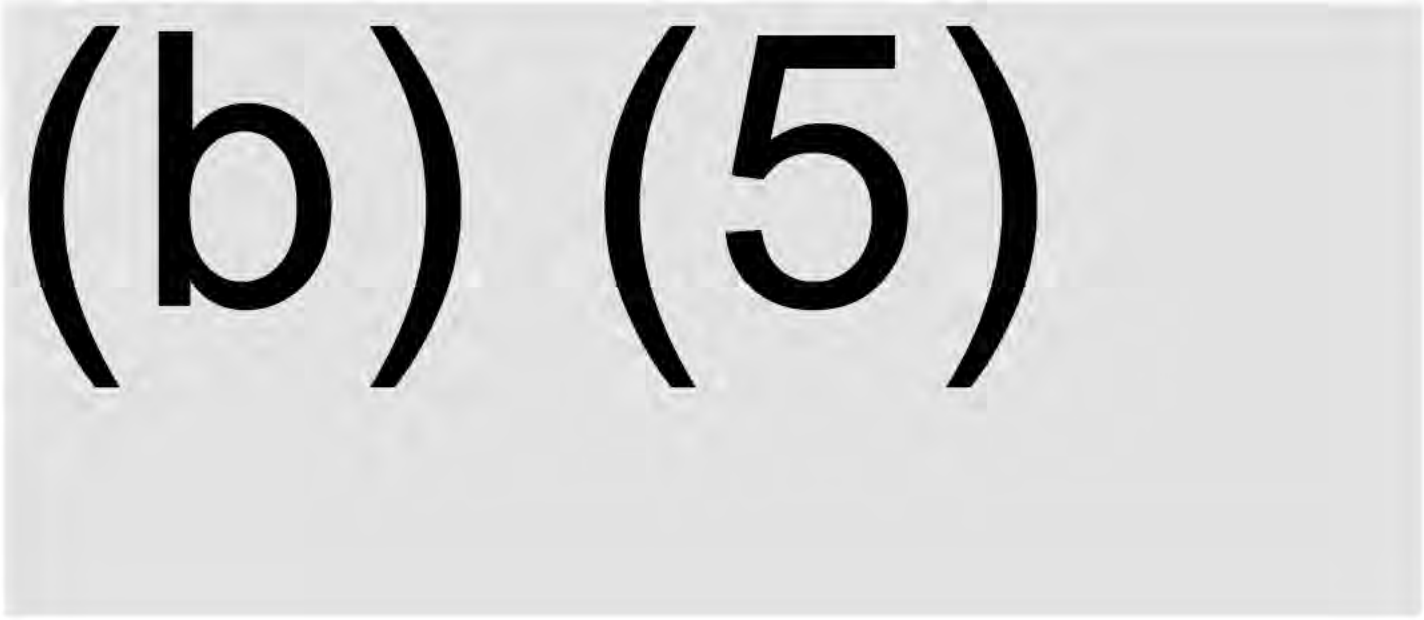
AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT



(b) (5)

S1 BRIEFING

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(b) (5)

S2 BRIEFING

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

S2 BRIEFING

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

Trade/Commerce Equity

AMERICAN OVERSIGHT

(b) (5)

S7 BRIEFING

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Goodman, Jac
Subject: RE: Try this out.
Date: Thursday, January 4, 2018 1:57:47 PM

K

NNSA Equity

From: Scott, Michelle
Sent: Thursday, January 04, 2018 1:24 PM
To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>
Subject: RE: Try this out.

This works.. (b) (5)

NNSA Equity

AMERICAN OVERSIGHT

From:	Scott, Michelle
To:	Carol Berrigan (clb@nei.org); "KNIGHTTW@cec.sc.edu"; "steven.biegalski@me.gatech.edu"; Aghara, Sukesh; "prinja@umn.edu"; "popechad@isu.edu"; "kreece@purdue.edu"; Jonathan Chesebro; nedho@list.ans.org; "usmans@mst.edu"; "Brown, Gilbert"; "Liu, Li"; "kangh6@rpi.edu"; Kenneth.Allen@usma.edu; Devin Horne (Devin.Horne@trade.gov); French, Matthew C.
Cc:	Reece, Kellie A; Kim, Seungjin; Arthur Motta; Hertel, Nolan E; COLVIN, Joe; Baciak,James Edward; Hines, Wes (Wes); Kang, Hyun Gook; Hyun Gook Kang; Christensen, Richard (rchristensen@uidaho.edu); Cole, Daniel G; Landsberger, Sheldon; KNIGHT, TRAVIS; Aldemir, Tunc; Biegalski, Steven; Alexander, Caroline; McKearin, Josh; Bill Dunn
Subject:	RE: NEDHO call on US-KSA Roundtable
Date:	Wednesday, January 31, 2018 12:08:00 PM
Attachments:	HC roadmap for NEDHO.pptx

All,

Attached is a draft slide deck of U.S. HR capabilities for today's discussion.

Michelle

Michelle L. Scott

Senior Advisor

Office of Nuclear Energy

202-586-9719 (ofc)

(b) (6)

-----Original Appointment-----
From: Scott, Michelle
Sent: Thursday, January 18, 2018 5:29 PM
To: Scott, Michelle; Carol Berrigan (clb@nei.org); 'KNIGHTTW@cec.sc.edu'; 'steven.biegalski@me.gatech.edu'; Aghara, Sukesh; 'prinja@umn.edu'; 'popechad@isu.edu'; 'kreece@purdue.edu'; Jonathan Chesebro; nedho@list.ans.org; 'usmans@mst.edu'; 'Brown, Gilbert'; 'Liu, Li'; 'kangh6@rpi.edu'; Kenneth.Allen@usma.edu; Devin Horne (Devin.Horne@trade.gov); French, Matthew C.
Cc: Reece, Kellie A; Kim, Seungjin; Arthur Motta; Hertel, Nolan E; COLVIN, Joe; Baciak,James Edward; Hines, Wes (Wes); Kang, Hyun Gook; Hyun Gook Kang; Christensen, Richard (rchristensen@uidaho.edu); Cole, Daniel G; Landsberger, Sheldon; KNIGHT, TRAVIS; Aldemir, Tunc; Biegalski, Steven; Alexander, Caroline; McKearin, Josh; Bill Dunn
Subject: NEDHO call on US-KSA Roundtable
When: Wednesday, January 31, 2018 12:30 PM-1:30 PM (UTC-05:00) Eastern Time (US & Canada).
Where: Call-in number (b) (6)

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Agenda

- Debrief of the KSA nuclear power deployment plan
- US-KSA Roundtable and follow-up actions
- Potential opportunities in the human resource development

All,

I have reserved 30 lines for this discussion. The scheduled hour for the call is 12:30 – 1:30 pm eastern standard time.

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Final 1/27/18

Human Capital Development Continuum

1-Education and R&D Infrastructure

- University Collaboration and Cooperation
- University Student Exchanges
- Researcher and Faculty Exchanges
- National Laboratory Collaboration
- Community College and Technical School Training
- Internships and apprenticeships
- High School programs
- Educational outreach

Universities (NEDHO)
Community Colleges (NUCP)
National Labs (INL, ANL, ORNL, PNNL)
Technology Providers
Nuclear Operators
American Nuclear Society (ANS)
Nuclear Energy Institute (NEI)
Young Professional Organizations (NA-YGN, M4N, Millennial Nuclear Caucus)

2-Incumbent Employee Training & Qualification

- Development of training and qualification programs
- Accreditation of programs
- Job-specific technical training
- Technology-specific training
- Mid-career job shadowing

Nuclear Operators
Technology Providers
Training solutions and pipeline providers
Institute of Nuclear Power Operations (INPO)
EPRI

3-Advanced Talent Development

- Leadership Development
- Organizational Development
- Executive Development
- Operational Readiness
- Nuclear Culture
- Policymaker and stakeholder development

Nuclear Operators
Institute of Nuclear Power Operations (INPO)
Universities (NEDHO)
Nuclear Power Institute (NPI)
Nuclear Energy Institute (NEI)
Organizational development and nuclear culture consultants

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1-Education and R&D Infrastructure

- University Collaboration and Cooperation
  - Inventory of University Engagement and Expertise
    - DOE/NEI call with NEDHO
    - DOE Survey
  - University engagement
    - U.S. faculty visit to KSA universities
    - KSA faculty visit to U.S. universities
    - Partner university program (e.g. joint teams for senior design projects)
    - Distance learning
    - Industry collaborative programs with Universities (e.g. NuScale and OSU)
  - Student Engagement
    - Student exchanges
    - ANS Student Conference
- National Laboratory Cooperation (ANL, INL, ORNL, PNNL)
  - Students
    - Internships, Co-ops, Practicums, Fellowships
  - International researchers
    - Post-doctoral research, Joint appointments, Academic visitors, Faculty exchanges
  - Workforce development and training
  - World-class facility access
  - K-12 programs and tools
- Community College Programs (Nuclear Uniform Curriculum Program)
  - NUCP visit to KSA (TVTC)
  - Program development workshop
  - Internship development workshop
- High School Collaboration
  - Teacher workshops
  - Teacher exchanges
  - E-learning opportunities
- Educational Outreach
  - Benchmarking best practices
  - K-12 program sharing

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2-Incumbent Employee Training & Qualification

- Development of training and qualification programs
  - Nuclear suppliers
  - Nuclear constructors
  - Nuclear operators
- Accreditation of programs
  - Oversight and assessment models
- Job-specific technical training
  - EPRI
- Technology-specific training
  - NuScale
  - Westinghouse
  - Other training providers
- Mid-career job shadowing
  - E.g. Exelon

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3-Advanced Talent Development

- Leadership Development (e.g. INPO)
- Organizational Development (e.g. INPO)
- Executive Development
  - MIT Nuclear Executive Program
  - Texas A&M Nuclear Executive Program
  - NEI/INPO Senior Executive Leadership Seminar
- Operational Readiness
- Nuclear Culture
- Policymaker and stakeholder development
  - NPI Emergency Preparedness and Response Course

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Document 11
Consisting of 15 pages is an International Trade Administration Equity transferred in full for direct response to the requester

AMERICAN OVERSIGHT

From: JONES, Ted
To: MBedan@doc.gov
Cc: cneuhaus@doc.gov; Jonathan Chesebro; Devin Horne; LIPMAN, Daniel; Mantsch, Scott <Alert>
Subject: U.S. Department of Commerce Leadership for U.S. Nuclear Industry in Saudi Arabia
Date: Thursday, March 22, 2018 5:52:03 PM
Attachments: NEI Letter to Secretary Ross - US Civil Nuclear Trade Mission to Saudi A....pdf

Dear Mr. Secretary,

Attached, kindly find a letter from NEI President and CEO Maria Korsnick requesting your keynote remarks and leadership for the first U.S. nuclear executive trade mission to the Kingdom of Saudi Arabia, April 23-25, 2018.

Regards,

Ted Jones
Nuclear Energy Institute
1201 F Street NW
Washington, D.C. 20004
p: 202.739.8169
(b) (6)
twitter: @TJinDC

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Sent through www.intermedia com

AMERICAN OVERSIGHT

MARIA KORSNICK
President and Chief Executive Officer
1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8187
mgk@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

March 22, 2018

The Honorable Wilbur L. Ross
Secretary of Commerce
U.S. Department of Commerce
1401 Constitution Avenue, NW
Washington, DC 20230

Subject: U.S. Department of Commerce Leadership for U.S. Nuclear Industry in Saudi Arabia

Dear Mr. Secretary:

It is my pleasure to invite you to deliver keynote remarks on U.S.-Saudi civil nuclear energy cooperation on the occasion of the first U.S. nuclear executive trade mission to the Kingdom of Saudi Arabia. The Nuclear Energy Institute (NEI), with certification from the U.S. Department of Commerce and in partnership with the King Abdullah City for Renewable and Atomic Energy (K.A.CARE) and the U.S.-Saudi Arabian Business Council, will host the mission in Riyadh and Dhahran on April 23-25.

The nascent Saudi nuclear energy sector represents an $80 billion commercial opportunity for U.S. industry and the U.S. Department of Commerce has been instrumental in opening it. Without your personal leadership, U.S. industry would not have been invited to participate in the ongoing competition to supply Saudi Arabia's initial two large nuclear power plants. As a result of your efforts, we are hopeful that the Westinghouse-led U.S. consortium will be among the two or three finalists selected in the coming month.

Given your leadership on this issue, we believe it would be appropriate for you to deliver keynote remarks at an event with the U.S. industry delegation and Saudi Arabian government officials, and provide U.S. leadership for our industry. Strong U.S. government support for bilateral civil nuclear cooperation and U.S. supply will be critical to U.S. success as the commercial dialogue moves toward a final selection. And the stakes are vast – billions in U.S. exports, thousands of U.S. jobs, and decades of U.S. influence on the Saudi civil nuclear energy program.

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We appreciate your leadership for U.S. industry in Saudi Arabia and we would be pleased to discuss this request in greater detail.

Sincerely yours,

Maria Korsnick

Maria Korsnick

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From: Friedel, Loren
To: Scott, Michelle
Cc: Lennon, Sarah
Subject: NEEDS URGENT REVIEW AND CLEARANCE DUE CLEARED TODAY NOON: S1 BILAT MBS MEMO
Date: Monday, April 2, 2018 11:16:00 AM
Attachments: S1 Bilat CP MbS Houston TX_lf.docx
S3 Bilat with MEIM Falih (002).docx

Michelle,

Sarah is not in today. Please review the MBS memo. I added the input from the final IA Fahil memo (attached here for your FYI) and the if raised on ROK. I tweaked the ROK a bit since it will be over by the time this meeting with MBS on 4/7 occurs. Please review and clear ASAP. It's due TODAY NOON. Thanks!

Respectfully,
Loren

Loren Friedel
Foreign Affairs Specialist
DOE/Office of Nuclear Energy (NE-61)
(202) 586-4518 (office)
(240) 686-9198 (cell)

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(b) (5)

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SI BRIEFING

AMERICAN OVERSIGHT

(b) (5)

SI BRIEFING

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Attachment 2: Biography for H.R.H. Mohammed bin Salman, Crown Prince of Saudi Arabia



Mohammed bin Salman Al Saud (born 31 August 1985 in Jeddah) is the crown prince of Saudi Arabia, deputy prime minister and the youngest minister of defense in the world. Mohammed is also chief of the House of Saud royal court, and chairman of the Council for Economic and Development Affairs.

After graduating college, Mohammed bin Salman spent several years in the private sector before becoming the personal aide of his father. He worked as a consultant for the Experts Commission, working for the Saudi Cabinet.

On 15 December 2009, Mohammed bin Salman entered politics as a special advisor to his father when the latter was the governor of Riyadh Province. At this time, the prince began to receive titles and sinecure positions such as secretary-general of the Riyadh Competitive Council, special advisor to the chairman of the board for the King Abdulaziz Foundation for Research and Archives, and a member of the board of trustees for Albir Society in the Riyadh region.

In October 2011, the then Crown Prince, Sultan bin Abdulaziz, died, and the current King Salman began his ascent to power by becoming Deputy Crown Prince and Defense Minister in November 2011 and making Mohammed bin Salman his private advisor.

In June 2012, the Crown Prince, Nayef bin Abdulaziz Al Saud, died and King Salman became Crown Prince. Salman soon began remaking the court in his own image. On 2 March 2013, the chief of the Crown Prince court Prince Saud bin Nayef was appointed governor of the Eastern Province and Prince Mohammed succeeded him as Chief. He was also given the rank of minister. On 25 April 2014 Prince Mohammed was appointed state minister.

On 23 January 2015, King Abdullah died, Salman took the throne and Prince Mohammed was appointed minister of defense. He was also named as the secretary general of the Royal Court on the same date. In addition he retained his post as the minister of the state. On 21 June 2017, Prince Mohammed was named Crown Prince.

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ATTACHMENT 2: BIOGRAPHY: Khalid A. Al-Falih [FAH-luh], Minster of Minister of Energy, Industry and Mineral Resources and Chairman of the Board of Saudi Aramco



Khalid A. Al-Falih was named Minister of Energy, Industry and Mineral Resources in May 2016. He retained his position as Chairman of the Board of Saudi Aramco.

Prior to his new appointment he had served as the Minster of Health and Chairman of the Board of Aramco since April 2015. Before he was named Minister of Health, he served as President and CEO of Aramco since January 2009.

Khalid Al-Falih joined Aramco in 1979 and gradually worked his way up through the company. He is viewed as a capable technocrat who has managed large complex organizations and initiatives, including managing the reform of Aramco's health system – likely part of the reason he was chosen as health minister. He served as executive vice president for Operations from 2007 through 2008. He has also served as the senior vice president of Gas Operations and Industrial Relations, and as president of Petron Corporation, a joint venture between Saudi Aramco and the Philippine National Oil Company in which Saudi Aramco held an equity stake.

Al-Falih guided the development of the Kingdom of Saudi Arabia's first natural gas strategy, and later played the leading role in negotiations with international oil companies engaged in the Kingdom's natural gas initiative. When the company formed its New Business Development organization in 2003, Al-Falih was appointed as its first head. In that role, he led the development of world-scale refining and petrochemical integration projects with leading global chemical enterprises. He has also served as chairman of the South Rub al-Khali joint venture between Shell, Total, and Saudi Aramco. Al-Falih was named to the Saudi Aramco Board of Directors in 2004.

While working for Aramco, Al-Falih earned his B.S. degree in mechanical engineering from Texas A&M University in 1982. In 1991, he received his MBA from the King Fahd University of Petroleum and Minerals (KFUPM) in Dhahran, Saudi Arabia. Khalid Al-Falih was born in 1960 in Riyadh and was raised in Dammam, Saudi Arabia. He is married to Dr Najah al-Garawi and they have two daughters.

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From: Scott, Michelle
To: Lennon, Sarah; Friedel, Loren
Subject: RE: NEEDS URGENT REVIEW AND CLEARANCE DUE CLEARED TODAY NOON: S1 BILAT MBS MEMO
Date: Monday, April 2, 2018 1:14:00 PM
Attachments: 2018-04-02 S1 Bilat CP MbS Houston TX_lf mls.docx

My comments added.

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6)

From: Lennon, Sarah
Sent: Monday, April 02, 2018 12:59 PM
To: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: NEEDS URGENT REVIEW AND CLEARANCE DUE CLEARED TODAY NOON: S1 BILAT MBS MEMO

Is this all set? (b) (6) and could review if need be

From: Friedel, Loren <Loren.Friedel@Nuclear.Energy.Gov>
Date: Monday, Apr 02, 2018, 11:16 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: NEEDS URGENT REVIEW AND CLEARANCE DUE CLEARED TODAY NOON: S1 BILAT MBS MEMO

Michelle,

Sarah is not in today. Please review the MBS memo. I added the input from the final IA Fahil memo (attached here for your FYI) and the if raised on ROK. I tweaked the ROK a bit since it will be over by the time this meeting with MBS on 4/7 occurs. Please review and clear ASAP. It's due TODAY NOON. Thanks!

Respectfully,
Loren

Loren Friedel
Foreign Affairs Specialist
DOE/Office of Nuclear Energy (NE-61)
(202) 586-4518 (office)
(b) (6)

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Attachment 2: Biography for H.R.H. Mohammed bin Salman, Crown Prince of Saudi Arabia



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On 23 January 2015, King Abdullah died, Salman took the throne and Prince Mohammed was appointed minister of defense. He was also named as the secretary general of the Royal Court on the same date. In addition he retained his post as the minister of the state. On 21 June 2017, Prince Mohammed was named Crown Prince.

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From: Scott, Michelle
To: Strangis, Katie; "Margaret Harding"
Subject: FW: U.S. Export Strategy - Consolidated Meeting Notes and Actions (22 Recipients)
Date: Monday, April 2, 2018 9:45:22 PM
Attachments: Strategy Input Session Issues 3-31-18 Modified.pdf

Katie and Margaret,

Please see the draft Strategy document that Don and Bill Linton developed based on the discussion at the RIC last month. I have not dug into this document yet.

I may raise it at Team USA next week.

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

NRC equity

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From: JONES, Ted
To: NJNumark@numarkassoc.com; durhamdc@westinghouse.com; David Sledzik; Brad.Porlier@Fluor.com; Ralph.Hunter@exeloncorp.com; LIPMAN, Daniel; "Gary Rand"; Scott, Michelle; grant_isaac@cameco.com; shiven.v.sulkar@sargentlundy.com; Ahmet Tokpinar; hbowers@x-energy.com; beckels@curtisswright.com; "Feleke Assefa"; y.ballout@elysium-v.com; weirtj@westinghouse.com; POWERS, Robert; "Nasir Abbasi"; TODD.B.BAUMBACH@sargentlundy.com; tim_gitzel@cameco.com; aoalghab@bechtel.com; Devin Horne; paul.murphy@gowlingwlg.com; howej@centrusenergy.com; ESPINOSA, Krista; sswilley@epri.com; tmundy@nuscalepower.com; "Ana Carmen Neboisa"; WILLIAMS, Jamie; Lee Peddicord; James_Dobchuk@cameco.com; "Ahmed Khayyat"; shillery@curtisswright.com; BERRIGAN, Carol; jharper@x-energy.com; Donald.Hoffman@excelservices.com; Susanne M. Lendman; "Jonathan Chesebro"; srademaker@cov.com; ala.alzaben@areva.com; Jyoti Chatterjee; kenneth.m.goff@ostp.eop.gov; kclose@quincygroup.com; Friedel, Loren; NEI Suppliers, New Reactors and International Programs; ALZABEN Ala (Framatome)
Subject: U.S. Commercial Nuclear Mission to KSA - Additional requested actions
Date: Monday, April 9, 2018 5:45:14 PM

To: Mission Delegates to the U.S. Commercial Nuclear Mission to KSA

As discussed during this morning's pre-mission briefing, we need for you to take three additional actions, as follows:

(1) ***Call to discuss workshop agenda.*** Indicate to me (thj@nei.org) by COB tomorrow, April 10 (if you have not already done so), your availability to participate in a conference call this Wednesday at 8:30 a.m. ET to discuss the K.A.CARE workshop agenda. I will send a meeting request with dial-in details.
(2) ***Potential Saudi nuclear partners.*** Email to me (thj@nei.org) by Friday, April 13, a list of Saudi companies that your company would like to be included in the B2B sessions and receptions in Riyadh and Dhahran.
(3) ***More personal information.*** Email to Krista Espinosa (kme@nei.org) by Friday, April 13, (a) a color copy of your passport and (b) the details of your flight arrival to Riyadh.

Additionally and at your option, contact U.S. Commercial Service officers Gary Rand (Gary.Rand@trade.gov) in Dhahran and Feleke Assefa (Feleke.Assefa@trade.gov) in Riyadh by this Friday, April 13, to schedule a ***one-on-one discussion to discuss assistance from the U.S. Commercial Service*** with your aims in Saudi Arabia.

Thank you and regards,

Ted

Ted Jones
Nuclear Energy Institute
1201 F Street NW
Washington, D.C. 20004
p: 202.739.8169
(b) (6)
twitter: @TJinDC

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Sent through www.intermedia com

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From: Scott, Michelle
To: Cherry, Ron
Subject: FW: NE1 Memo - METI Meeting 4-19-2018_AC edits DCW_MB mls
Date: Wednesday, April 18, 2018 1:31:12 PM
Attachments: NE1 Memo - METI Meeting 4-19-2018_AC edits DCW_MB mls_GB.docx

---

From: Baham, Michael (CONTR) <Michael.Baham@Nuclear.Energy.Gov>
Date: Wednesday, Apr 18, 2018, 1:29 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: NE1 Memo - METI Meeting 4-19-2018_AC edits DCW_MB mls

Michelle,

I have cleaned it up and implemented all changes (newest ones by Giulia Bisconti). I have attached it.

I have edited the sentence regarding the MOC change explanation:

(b) (5)

Edits?

Thanks,
Michael

From: Scott, Michelle
Sent: Wednesday, April 18, 2018 11:29 AM
To: Jonathan Chesebro <Jonathan.Chesebro@trade.gov>; Geoffrey Jones <geoffrey.jones@exim.gov>; Danius Barzdukas (Danius.Barzdukas@trade.gov) <Danius.Barzdukas@trade.gov>
Cc: Baham, Michael (CONTR) <Michael.Baham@Nuclear.Energy.Gov>
Subject: NE1 Memo - METI Meeting 4-19-2018_AC edits DCW_MB mls

Jon, Danius and Geoffrey,

Can you take a look at the METI memo and points and provide comments. Specifically (b) (5)

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Appreciate if you could turn your comments around soonest.

Thanks
Michelle

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(b) (5)

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(b) (5)

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Document 18
Consisting of 9 pages is an EXIM Equity transferred in full for direct response to the requester

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From: Scott, Michelle
To: Milton, Ingrid; Valderrama, Billy (CONTR)
Subject: FW: U.S.-KSA Commercial Engagement Next Steps
Date: Monday, May 14, 2018 11:19:00 AM
Attachments: 2018-04-23 KACARE Presentation.pdf
2018-05-02 Meeting Notes from NEI CN Trade Mission to KSA.docx
Roadmap0131 US-KSA Commercial Engagement - Implementation 2018-2019 v7.docx
2018-04-05 U.S.-KSA Action Plan Study Tour site Matrix.docx

Here are the docs I was speaking of for your review. The matrix is what we need to work on.

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6)

From: JONES, Ted [mailto:thj@nei.org]
Sent: Wednesday, May 09, 2018 4:01 PM
To: 'Jonathan Chesebro' <Jonathan.Chesebro@trade.gov>; Devin Horne <devin.horne@trade.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; BERRIGAN, Carol <clb@nei.org>
Subject: U.S.-KSA Commercial Engagement Next Steps

For discussion in our call, please see attached the Commercial Engagement Road map, the recent KA-CARE presentation, and Jon's trip notes.

Ted Jones
Nuclear Energy Institute
1201 F Street NW
Washington, D.C. 20004
p: 202.739.8169
m: (b) (6)
twitter: @TJinDC

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U.S.-Saudi Civil Nuclear Partnership

WORKSHOP On Partnership, Localization and Technology Transfer



April 23, 2018
K.A.CARE HQ, Riyadh, Saudi Arabia

رؤيـــة VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

المملكة العربية السعودية
المشروع الوطني للطاقة الذرية
Saudi National Atomic Energy Project
SNAEP

مدينة الملك عبد الله للطاقة الذرية والمتجددة
K.A.CARE

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DOE-19-0315, 19-0316, 19-0318-A-002661

Agenda

1. Saudi National Atomic Energy Project (SNAEP)
2. Human Capability Building Initiative
3. Large Nuclear Power Plant (LNPP)
4. Small Modular Reactor (SMR)
5. Nuclear Fuel Cycle

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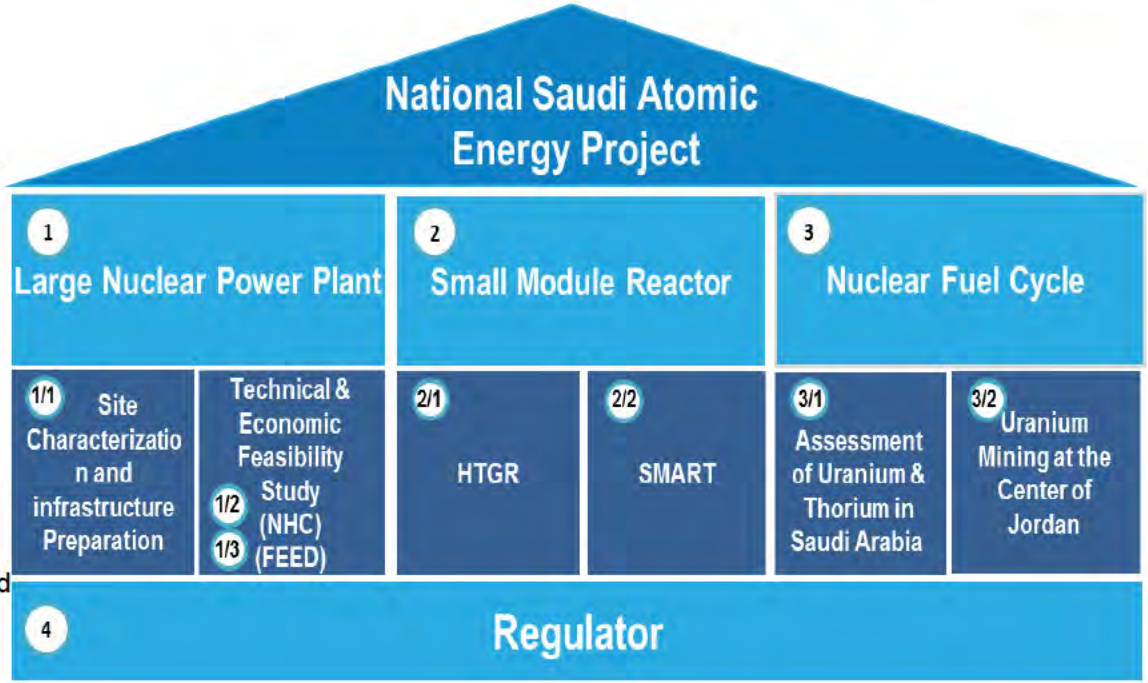
DOE-19-0315, 19-0316, 19-0318-A-002662

> *The objectives of National Atomic Energy Program contribute to achieving Kingdom's Vision 2030*
>
> *H.E. MEIM Khaled Al-Falih, Aug 2017*

> *KSA always seeks to take well planned steps to ensure success of the Saudi National Atomic Energy Project as per the international best practices*
>
> *H.E. Dr. Hashim Yamani*
> *President K.A.CARE, Vienna Sep 2017*



- In July 2017: Saudi Cabinet of Ministers has approved All SNAEP's Components
- In March 2018: Saudi Arabia has published and announced its National Policy for Nuclear Energy
- In March 2018: Saudi Cabinet of Ministers has approved the establishment of Nuclear Safety and Radiation Protection Authority

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DOE-19-0315, 19-0316, 19-0318-A-002663

Agenda

1. Saudi National Atomic Energy Project (SNAEP)
2. Human Capability Building Initiative
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4. Small Modular Reactor (SMR)
5. Nuclear Fuel Cycle

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DOE-19-0315, 19-0316, 19-0318-A-002664

Human Capacity Building Initiative

- K.A.CARE's mission is to support the development of a sustainable energy mix for Saudi Arabia for Atomic & Renewable energies
- To achieve this, it was mandated with the core element of human capability building with the mission to secure a sustainable pipeline of qualified nationals required for the atomic and renewable energy sectors in the Kingdom of Saudi Arabia
- During participation in the National Transformation Program (NTP), K.A.CARE introduced ***Human Capacity Building Initiative for the Atomic and Renewable Energy*** *Sectors* as an initiative to contribute to the achievement of the 2030 vision.

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DOE-19-0315, 19-0316, 19-0318-A-002665

The **Kingdom's agenda aims to increase local content** in A&RE, with SNAEP, NREP and DG as key opportunities to enable the achievement of NTP targets

NTP 2020 and NIS A&RE objectives

NTP 2020 K.ACARE targets

- 7,774 jobs in Atomic & Renewable sector
- 35% of RE expenditure localized
- 30% of Atomic expenditure localized

National Industrial Strategy NIS

Renewables is a key industrial cluster
NIS strategy aims to localize >50% of installed components value and create export-focused industries

Key A&RE development initiatives

SNAEP – Saudi National Atomic Energy Program

- Construction of 2 reactors up to 2.8 GW
- Creation of NHC in 2018
- Development of SMART
- Assessment of other opportunities along nuclear fuel cycle

NREP – National Renewable Energy Program

- Provides the basis to localize RE manufacturing industry
- 9.5 GW by 2023 with 2030 plan being developed by PPU[1]
- USD 15.6 BN of spend by 2023

DG – Distributed Generation

- DG framework and taskforce developed planned deployment
- Capacity target under development
- Enables the creation of significant workforce opportunities

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DOE-19-0315, 19-0316, 19-0318-A-002666

K.A.CARE is the custodian of KSA Renewables and Atomic Programs, and **is mandated to drive and deliver the NTP HCB initiative**

Royal Decree establishing King Abdullah City for Atomic and Renewable Energy

April 17, 2010



مدينة الملك عبد الله للطاقة الذرية والمتجددة
K.A.CARE

- **K.A.CARE's mandate is to contribute in the sustainable development in KSA** by using science, research and industries related **of renewable and atomic energy** for peaceful purposes
- **K.A.CARE has** a significant flexibility to shape its own areas of action and will have **a significant role in shaping the overall energy policy of KSA** and in particular, a **leadership role in defining the atomic** and renewable **energy policy and** HCB initiatives

Key HCB Initiative objectives

- **Preparing the necessary Human Capital** for the Atomic and Renewable Energy Sectors
- **Deliver on key initiatives**
  - Workforce Attraction and Recruitment
  - Support the Development of an Education Eco-system
  - Support the Localization of Technology and Knowledge Transfer through HCB
- **Increase number of job opportunities** for Saudis in A&RE sectors
- **NTP HCB and MEIM capacity targets:**

7,774 Jobs | **25%** | **9.5GW** | **2.8GW**[1]

- ~1,700 for Atomic
- ~6,000 for Renewables
- Excluding manufacturing

1. Indicative capacity based on MEIM's communication and dependant on
2. nuclear vendor selection and excluding SMR and SMART

Source: K.A.CARE,

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VISION 2030 المملكة العربية السعودية KINGDOM OF SAUDI ARABIA

المشروع الوطني للطاقة الذرية
Saudi National Atomic Energy Project
SNAEP

DOE-19-0315, 19-0316, 19-0318-A-002667

مدينة الملك عبد الله للطاقة الذرية والمتجددة
K.A.CARE

PRIORITIZING LOCALIZATION AND HUMAN CAPITAL DEVELOPMENT

With Key Stakeholders, the HCB Initiative is creating a holistic and transformational model to enable a sustainable A&RE workforce

TRAINING
- Integrate graduates with A&RE Industry
- Build skills via apprenticeships & OJT

INNOVATION
- Drive innovation culture
- Partner w/ Saudi universities, enablers, tech hubs, etc.

EDUCATION
- Expand Saudi-Int'l. university exchanges
- Facilitate internships with international partners
- Align MOE scholarships to A&RE sector requirements



TECHNICAL EXCHANGE
- Leverage international exchange programs & create new ones
- Engage industry organizations & private partners

INSPIRATION
- Attract young talented citizens to pursue related careers

COORDINATION
- Advise on program design & management
- Assist with curriculum & standards design

VOCATIONAL GRADUATES | **HIGHER EDU. GRADUATES** | **HIGHLY TRAINED WORKERS**

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DOE-19-0315, 19-0316, 19-0318-A-002668

HCB Initiative Scope

3 Tracks	Focus Areas
1. **Workforce Attraction and Recruitment**	• Prepare and implement outreach programs & increase awareness in A&RE sectors through formulating & designing directed programs • Provide scholarships / internships in A&RE sectors for students in & out of KSA
2. **Support Development of Education Ecosystem**	• Support and develop education and training systems to enable the nuclear and renewable energy sectors to secure a sustainable source of qualified young men and women • Oversee workforce planning and modelling of manpower requirements for the A&RE sectors
3. **Localization of Technology & Knowledge Transfer**	• Recruit and qualify specialized human cadres through localization of technology and knowledge transfer

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In order to address the Nuclear workforce requirements, we have **two ongoing initiatives** to develop Saudi talent partnering with renown International Agencies

Ongoing initiatives - Atomic

Nuclear Engineering Summer Training Program

- **K.A.CARE has established summer training** programs for nuclear engineering students at both I2EN and KAIST
- **These 8 week programs** are offered at a beginning level at KAIST and a more advanced program at I2EN






KAIST I2EN

70 Students in 2016 & 17

Next step: Continue programs in 2018 and expand to include more universities and engineering trades

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DOE-19-0315, 19-0316, 19-0318-A-002670

Ongoing initiatives – RE Distributed Generation (DG)

In Renewables Distributed Generation (Roof-Top Solar), we have an initiative to design the training framework to develop the capabilities needed and ensure MEIM's planned DG roll-out.

An additional initiative will be rolled out for RE Manufacturing and Training Development.

DG Training Initiative Status

Developed curricula for PV Design and PV Installer…

Solar PV Designer



Solar PV Installer



…based on benchmarks and 40+ key stakeholders input

40+ stakeholders involved



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DOE-19-0315, 19-0316, 19-0318-A-002671

In terms of **Technology & Knowledge Localization**, we currently have 36 K.A.CARE colleagues undergoing a 2 to 3 year on-the-job training in SMART

Ongoing initiatives - Atomic

SMART Knowledge Transfer - South Korea

On the job training on Small Modular Reactor technology

- 3 Months Classroom Training (CRT) Basics
- 3 Months Classroom Training (CRT) Technical
- 6-12 Months On-the-Job Training (OJT)
- 11-17 Months On-the-Job Participation (OJP)



KAIST



36 K.A.CARE Staff

1. KAIST – Korea Advanced Institute of Science and Technology

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K.A.CARE – USA Cooperation

- K.A.CARE – US Department of Energy MOU: Reviewing current MOU to modify it to enable Project Specific Agreements to be undertaken

- Preparations for US Study tours in 2018 to increase collaboration for exchange in areas of Human Capacity Building and Advanced Nuclear Technologies

- Priorities for Human Capacity Building:
  - Education and R&D Infrastructure
  - Promote university collaboration and cooperation
  - Engagement with nuclear suppliers, nuclear constructors and nuclear operators to discuss development of training and qualification programs
  - Accreditation of programs, oversight and assessment models
  - Exchanges to promote executive development in Nuclear field with leading institutions

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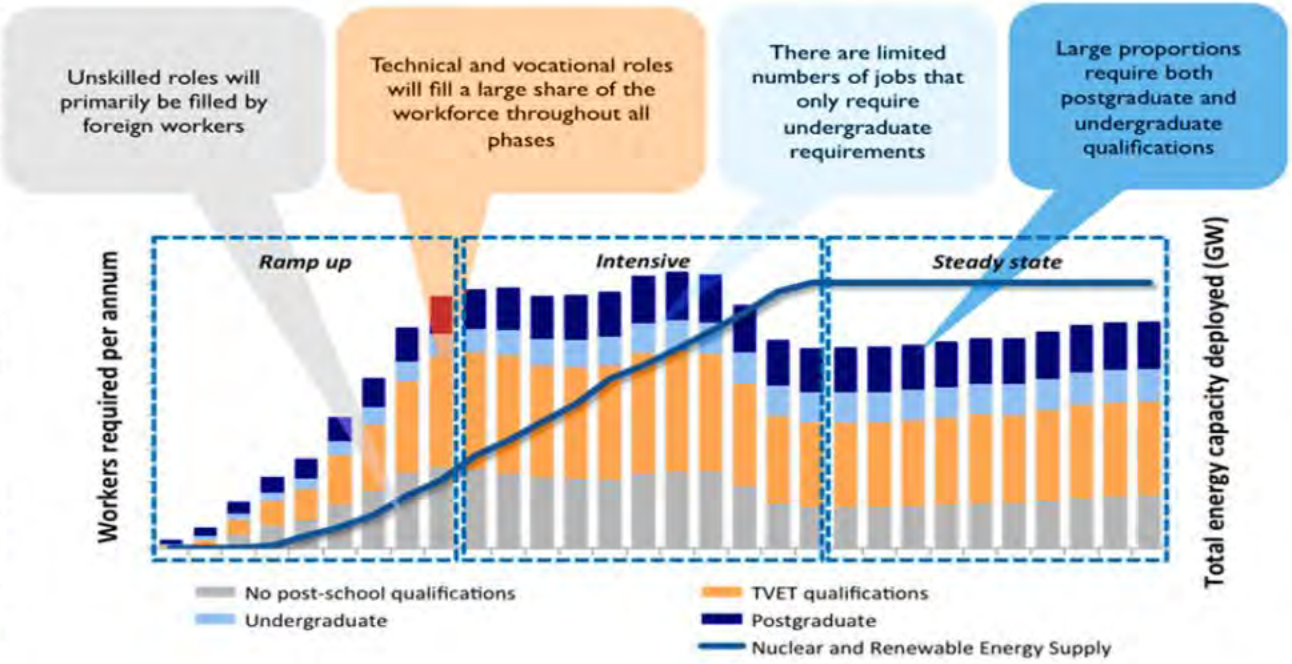
Workforce Development for NPP

- While localization of the Atomic energy workforce is an important objective, not all the jobs identified will be filled by Saudi workers, particularly in the early years, where there will be a need to supplement the workforce with expatriate and foreign workers.

- The number of competent Saudi workers available will be a function of the number of people who are trained domestically in Saudi Arabia or internationally.



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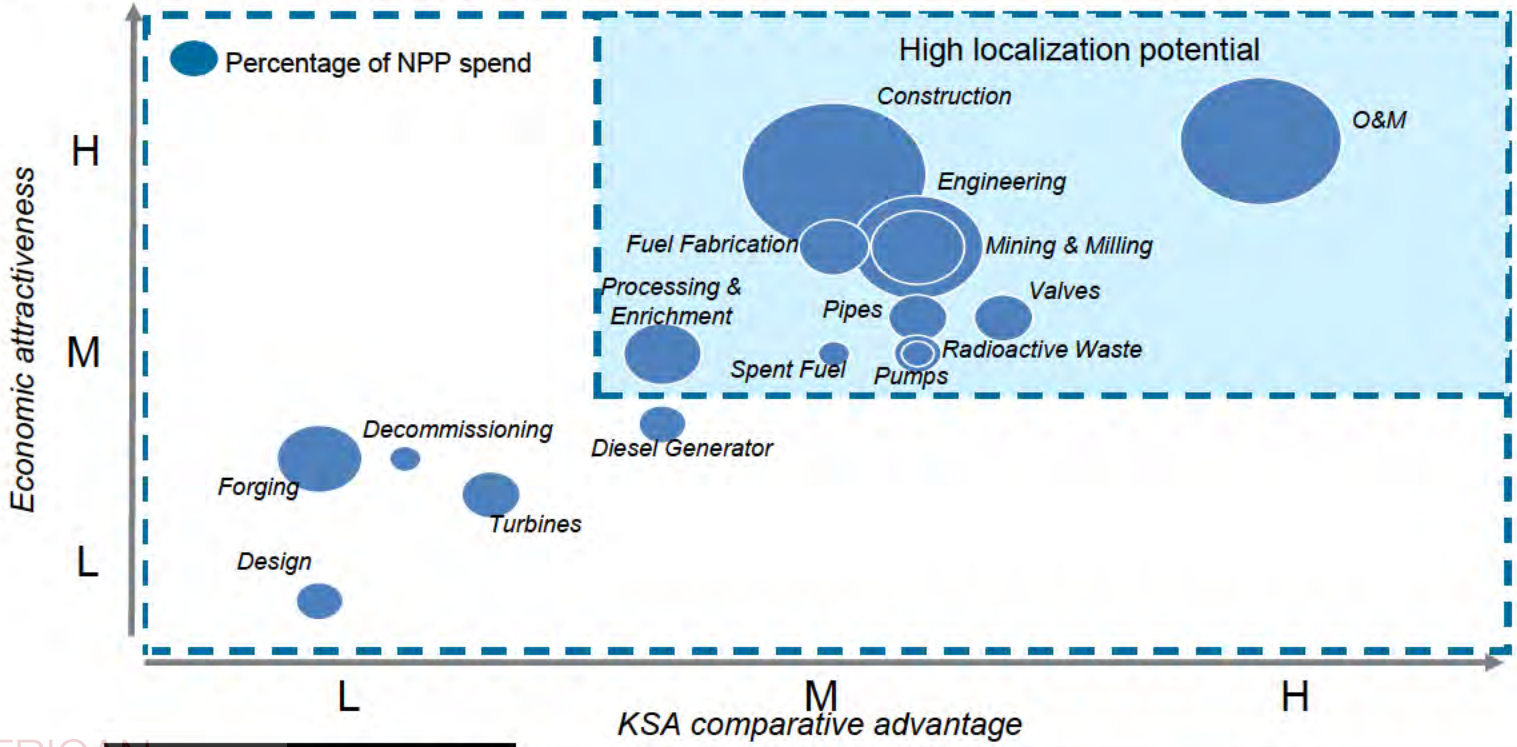
Value Chain Development – Value Mapping of Nuclear Spend

Based on economic attractiveness and KSA comparative advantage, it is estimated that >50% localization rate could be achieved



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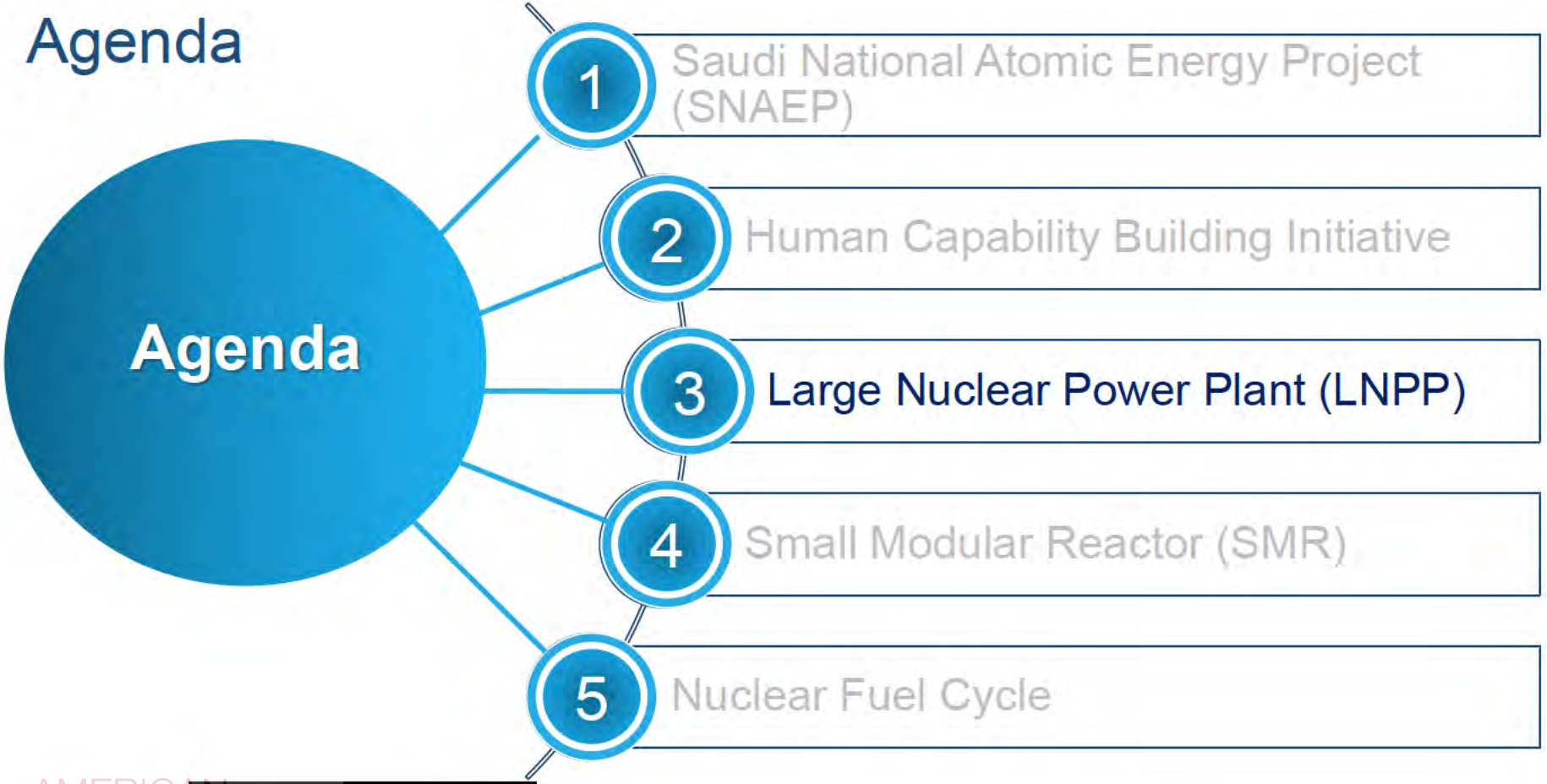
Agenda



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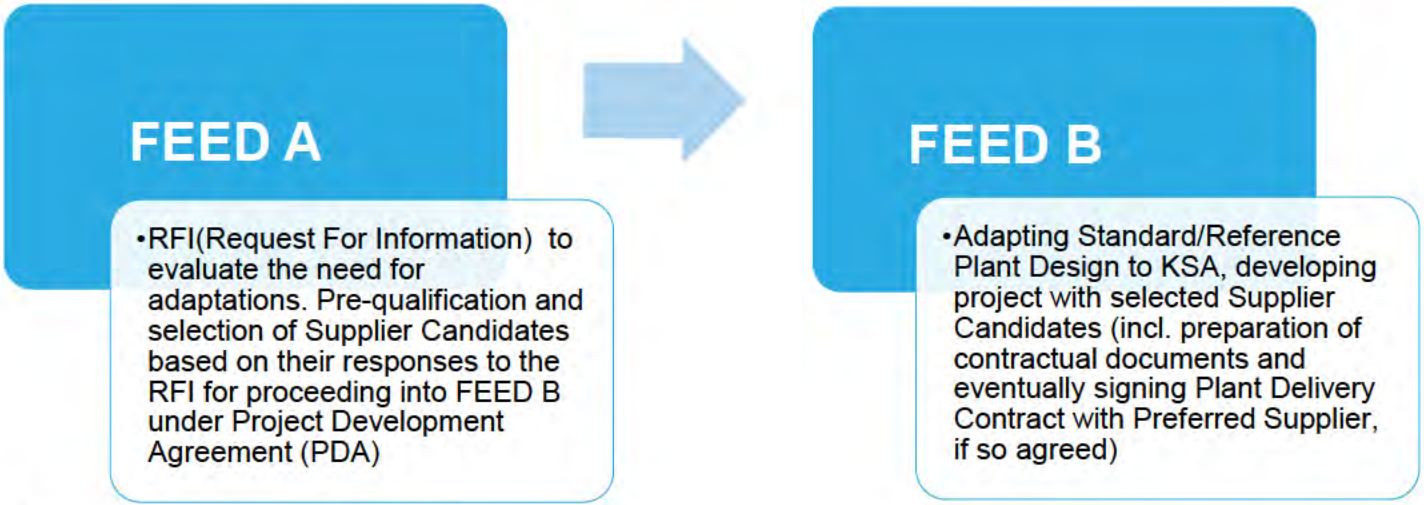
Front End Engineering design (FEED)

Major phases

- *FEED (Front End Engineering Design) refers to the process of adapting a Standard/Reference Plant Design to KSA requirements and conditions*
- *FEED is divided into two major phases*



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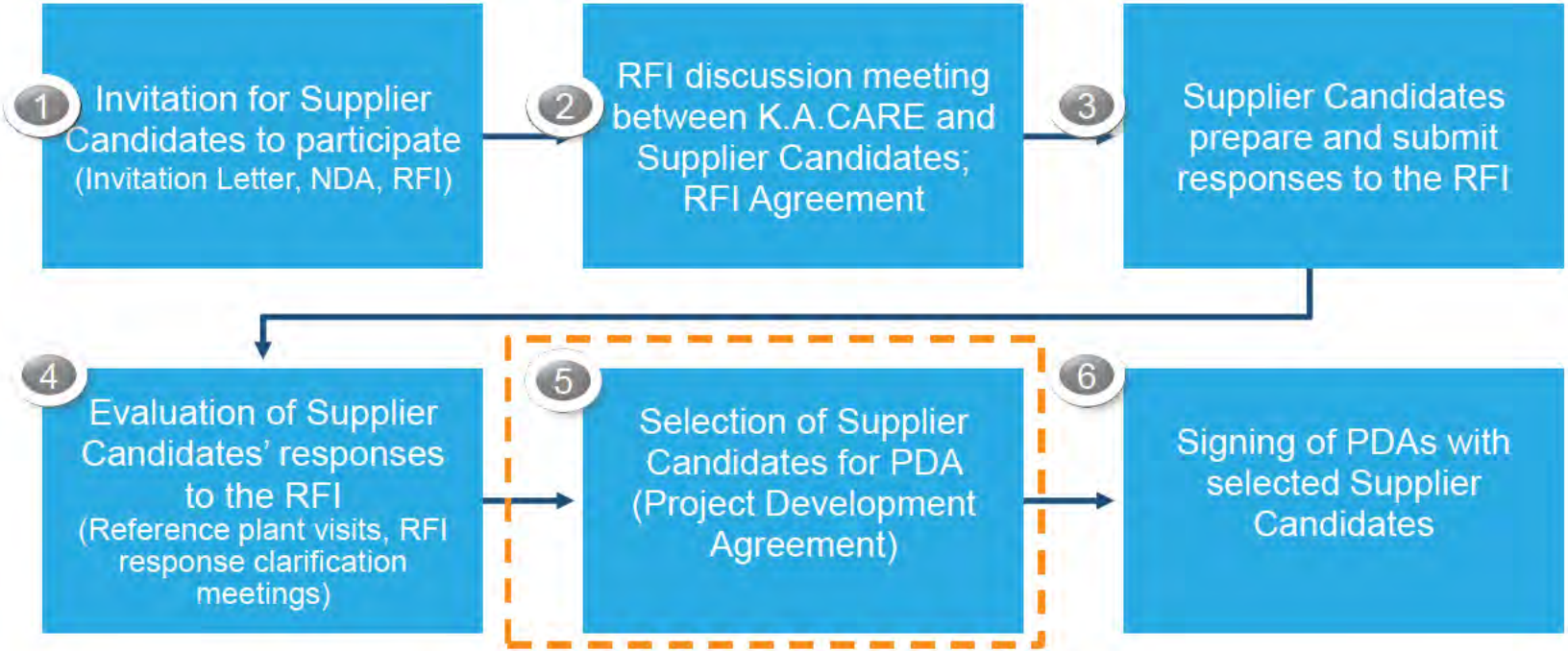
1st Phase of Front End Engineering design - Steps in FEED-A



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Timeline of FEED-A and Interaction with Westinghouse.

Westinghouse & مدينة الملك عبد الله للطاقة الذرية والمتجددة K·A·CARE

RFI agreement signed — 12/10/17

RFI Clarification meeting — 19/11/17



RFI Response received — 30/12/17



Reference plant visit — 25/01/18



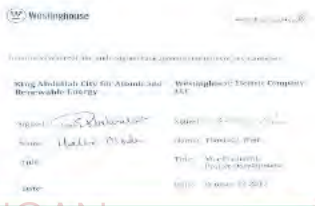
RFI Response Clarification meeting — 11/02/18



RFI Response Evaluation Completed — 08/04/18



PDA & START OF FEED B



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VISION 2030 المملكة العربية السعودية

المشروع الوطني للطاقة الذرية Saudi National Atomic Energy Project SNAEP

DOE-19-0315, 19-0316, 19-0318-A-002679

مدينة الملك عبد الله للطاقة الذرية والمتجددة K·A·CARE

2nd Phase of Front End Engineering design (FEED-B)

1 1st phase

- Supplier Candidates adapt standard/ reference plant design to KSA conditions and K.A.CARE requirements
- Supplier Candidates provide their technical and commercial proposals requirements

2 2nd phase

- K.A.CARE evaluates proposals from Supplier Candidates
- K.A.CARE selects Preferred Supplier; signing of Letter of Intent

3 3rd phase

- Final contract negotiations
- Signing of the Plant Delivery Contract to build LNNP (2 units) in KSA, If so decided
  - ✓ construction contract
  - ✓ O&M contract
  - ✓ fuel supply contract
  - ✓ spent fuel management contract.

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Large NPP Site Characterization

- Site Characterization studies will be conducted for the two (2) allocated sites (one primary and one secondary).
- Site Characterization Request for Proposal (RFP) was launched.
- Targeted time of the Site Characterization Project award in April 2018.
- Anticipated duration of the Site Characterization Project is eighteen (18) months.
- Number of studies comprising the Site Characterization Project is twenty three (23)



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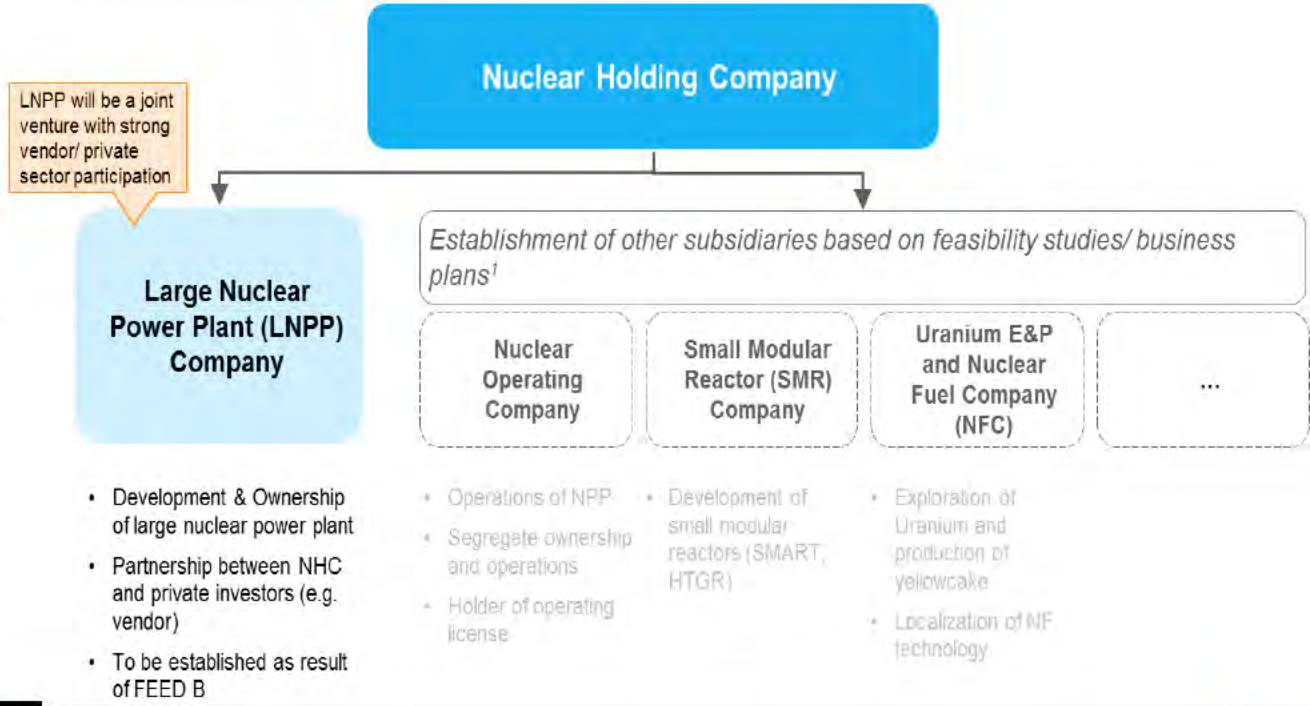
Establishment of a Nuclear Holding Company

NHC is currently expected to have LNPP, a joint venture that will develop and own the large nuclear power plant (2 reactors)

NHC subsidiary structure



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DOE-19-0315, 19-0316, 19-0318-A-002682

NHC will focus on development of economically viable nuclear assets through subsidiaries

Objective of NHC

- **Independent legal entity** to pursue commercial interests of SNAEP
- Distinct **entity structured for ring-fencing and liability blocking**
- **Vehicle to access funding** for well defined commercial opportunities
- **Strategic shareholder in nuclear projects** and operating companies with private investors

Role of the Nuclear Holding Company

1. Participate and invest in economically viable opportunities, projects and/or assets along nuclear value chain locally and internationally to implement SNAEP
2. Develop, own, and operate nuclear assets to produce power, desalinated water, and thermal applications through solely or jointly established subsidiaries
3. Consolidate nuclear expertise and know-how, capture synergies across business lines and provide subsidiaries with required support
4. Implement the nuclear localization targets/ KPIs set by K.A.CARE / Government: Human Capital Building, Technology Localization and Development, and Supply Chain Localization (services and manufacturing)

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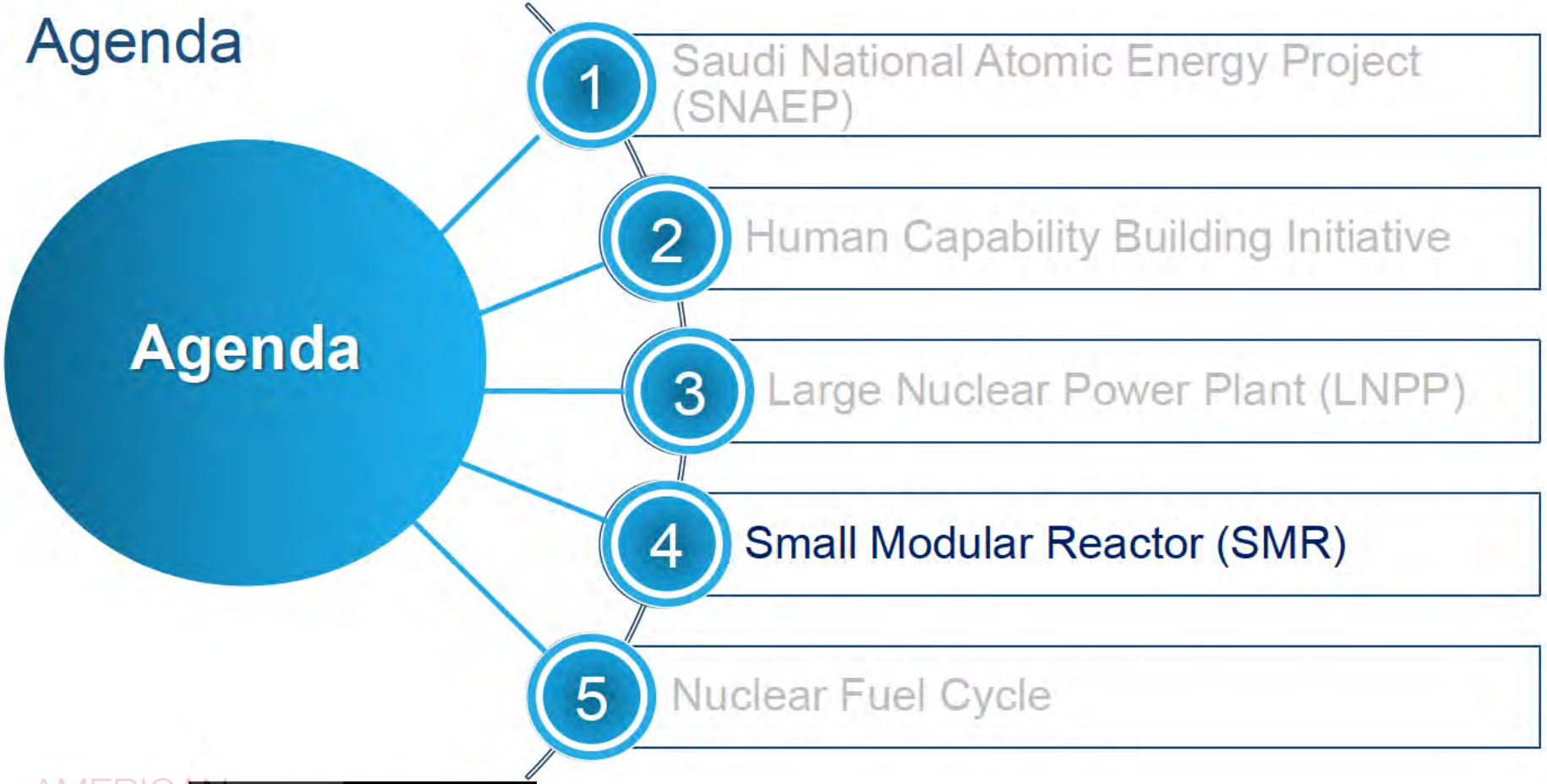
DOE-19-0315, 19-0316, 19-0318-A-002683

Agenda



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DOE-19-0315, 19-0316, 19-0318-A-002684

Kingdom of Saudi Arabia(KSA) & United States (U.S) SMR Cooperation

U.S.-KSA Civil Nuclear Energy Roundtable:

Kingdom of Saudi Arabia (KSA) and United states (U.S.) conducted 1st Civil nuclear energy roundtable on 17-18 Dec with regards to peaceful use of Nuclear energy. The U.S technology providers presented in details their technologies seeking to build a strategic partnership and supporting Saudi National Atomic Energy Project

Partnership with United States can provide

1. Technology leadership and innovation
2. A wide variety of advanced reactor technologies
3. Advanced reactors that support a variety of applications such as; electricity, desalination, co-generation, industrial process heat, petrochemical and mining
4. Advanced reactors that can utilize a range of fuels, including low enriched uranium, spent nuclear fuel, and several other forms of fuel materials.
5. Support KSA's goals in energy sustainability & transfer technology
6. Collaboration with KSA to localize its supply chain and build domestic industrial capability

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DOE-19-0315, 19-0316, 19-0318-A-002685

Kingdom of Saudi Arabia (KSA) & United States (US) SMR Cooperation

U.S.-KSA Civil Nuclear Energy Roundtable:

KSA Objectives:

- KACARE seeks a structured strategic integrated partnership that supports its goals of technology transfer, IP ownership, support value chain in industry, and workforce development.
- KACARE is pursuing advanced reactors to serve domestic needs and export to MENA region.
- US and KSA have a strong historical alliance and shared interest in co-developing advanced reactor technology.
- Shared US-KSA interest in IP transfer to co-develop advanced reactor technology.

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DOE-19-0315, 19-0316, 19-0318-A-002686

Kingdom of Saudi Arabia (KSA) & United States (U.S) SMR Cooperation

KSA - US Working Group: (Upcoming study tour)

objectives:

The group is interested in considering advanced and next-generation reactor technologies for future deployment satisfying the following criteria:

- Dramatic improvement in safety and reliability over currently deployed technologies
- Overall sustainability: environmental, economic, and resource sustainability
- Improvements in cost, manufacturability, construction time, and operability.
- Technology licensibility.
- Non-electric applications, particularly high-temperature process applications, such as refining, petrochemicals, Hydrogen production, metallurgical and other.
- Willingness to partner in technology ownership, localization, and global deployment is essential.

❖ The group plans to undertake a technology screening and prioritization exercise, after considering all potential candidates satisfying the above criteria and then provide a recommendation to leadership based on the findings.

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DOE-19-0315, 19-0316, 19-0318-A-002687

Agenda



1. Saudi National Atomic Energy Project (SNAEP)
2. Human Capability Building Initiative
3. Large Nuclear Power Plant (LNPP)
4. Small Modular Reactor (SMR)
5. Nuclear Fuel Cycle

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Nuclear Fuel Cycle

Nuclear Fuel Co. target mandate

- **Investment** in uranium mining
- **Production** of yellow cake
- **Localization** of nuclear fuel production (yellow cake) technology
- **Human capability** building in nuclear fuel (50 Saudi engineers to be sent to Jordan)
- Reach nuclear fuel production **self-sufficiency**

Planned nuclear fuel cycle projects

1. Assessment of Uranium and Thorium in KSA

	Scope	Duration
Phase A	Uranium exploration in KSA with SGS[1]	2 years (end 2019)
Phase B	Detailed study to define uranium concentration	3 years (ends 2022)

2. Uranium (yellow cake) production with Jordan

- Human Capacity building in exploration, production & chemical processes of Uranium
- **Feasibility study** for production of yellow cake in collaboration with Jordan (construction of **pilot plant**)

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DOE-19-0315, 19-0316, 19-0318-A-002689

Nuclear Fuel Cycle





The activities and achievements of U\Th assessments in KSA:

- ❖ Completed the geological and radiometric survey for all suggested areas.
- ❖ Starting the geophysical survey (Seismic, Electrical, Magnetic) in some areas.
- ❖ Starting the trenches excavation in some areas.
- ❖ HCB Process are ongoing.





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Nuclear Fuel Cycle



The activities and achievements of U\Th assessments in KSA:

- As part of the project of exploring uranium and thorium ore in the Kingdom, the project team from K.A.CARE accompanied the consultant team from the Finnish Geological Survey in the third field visit to follow the progress of field work in the areas under study and its compliance with JORC standards. These areas are currently being studied by CNNC under the supervision of the Saudi Geological Survey and K.A.CARE team.

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DOE-19-0315, 19-0316, 19-0318-A-002691

Nuclear Fuel Cycle



The activities and achievements of U\Th assessments in KSA:

- During the visit, They discovered a new radiological anomaly of the thorium component, at one of the most difficult topographic exploration sites; that is well known for its rugged terrain.



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DOE-19-0315, 19-0316, 19-0318-A-002692

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Saudi National Atomic Energy Project
SNAEP

مدينة الملك عبد الله للطاقة الذرية والمتجددة
K·A·CARE



Thank You !

AMERICAN OVERSIGHT

NEI Civil Nuclear Trade Mission to Saudi Arabia – Meeting Notes

April 23-25, 2018

Briefing with U.S. Embassy Riyadh

- Representatives from U.S. Embassy Riyadh answered questions from U.S. companies and provided an overview of the U.S.-KSA bilateral relationship and key information on KSA political/economic/social situation.
- KSA Country Stats
  - KSA is the largest producer of desalinated water in the world
  - 70% of KSA GDP is from petrochemicals
  - Current grid size is 80 GW
  - 70% of working Saudis work for the government (only 17% of U.S. workers employed by the government)
  - Energy subsidies consume 1/8 to 1/10 of KSA GDP - > need for reform and cutting of energy subsidies
  - KSA wants to diversify its energy mix: currently produces 10 million barrels of oil/day (2.5 million used for domestic power generation)
  - KSA wants a private sector driven economy that employs Saudis
  - KSA government slowly increasing electricity prices (increased prices at the end of 2016 and the beginning of 2018)
  - KSA currently has no business law, franchise law, or environmental protection law in place - U.S. Government would like KSA to establish these laws to help U.S. companies work in the Kingdom
  - KSA National Renewable Energy Plan calls for 9.5 GW of renewable energy by 2023
  - Vision 2030 announced April 2016 – major social and economic reform program
  - March 27, 2018 – announcement of KSA MoU with Japanese multinational SoftBank to build a $200 billion solar power development - is at odds with KSA nuclear development
- KSA Civil Nuclear Program
  - KSA wants to move ahead with nuclear – may slip with timetable
  - KSA civil nuclear sector does not exist and needs to be developed
  - KSA has a relationship with the U.S. Executive Branch and U.S. Congress – understands the importance of concluding a 123 Agreement
  - Noted the 5 bidders for the KSA's Large Nuclear Power Plant (LNPP) Project:
    1) Russia – KSA history of cooperation with Russia on OPEC production cuts
    2) China – largest purchaser of KSA oil, helping KSA with rail and oil development
    3) France – EdF has trained many Saudis
    4) ROK – cooperation with KSA on its SMART SMR
    5) U.S. – long history of cooperation with KSA, current bilateral relationship is strong
  - KACARE-China feasibility study on advanced nuclear reactor development to be released soon (December 2017 was original release date) – no status update
- KSA investing heavily in education:
  - 60,000 Saudis currently studying in the United States (most paid for by the KSA government)
  - 70% of KSA students studying abroad choose to study in the United States

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- July 2018 Saudi Career Fair to be held in Washington DC – being organized by the MiSK Foundation and the Saudi Embassy in DC – U.S. companies/organizations encouraged to attend
    - POC for the Career Fair is Ms. Asma Aljasser at the MiSK Foundation, who is working with the Saudi Embassy in D.C. to arrange the event. Her email is asma.aljasser@misk.org.sa. [note: I emailed her on 4/30 to get more information and have not yet heard back] [ACTION ITEM – encourage U.S. industry participation in Career Fair]
  - U.S. companies can hire Saudi citizens for internships and in the future this may count towards "Saudization" employment goals
  - U.S. Embassy has programs to support U.S.-KSA university cooperation
- Historically U.S. companies needed a KSA partner to do business in the KSA, but now the Saudi Arabian General Investment Authority (SAGIA) is allowing companies to set up wholly-owned subsidiaries

KACARE Workshop

- Opening remarks by DOC Minister Counselor for Commercial Affairs Nasir Abbasi – noted importance of US-KSA bilateral relationship and USG support for US civil nuclear industry
- Opening remarks by WEC's David Durham – noted factors that distinguish the US civil nuclear offering from the competition:
  - Diversity of supply: 100 operating reactors in US, many fuel companies, EPC companies
  - US industry independent of USG (has benefits and drawbacks)
  - Strong USG support for US industry and strong US-KSA bilateral relationship
- Opening Remarks from KACARE Chief Atomic Energy Officer Dr. Maher Alodan:
  - Phase 1 of LNPP (Feed A) concluded – in Phase B now – results of Phase B to be presented to KSA government Committee week of April 23
  - KSA wants a long-term partner to build a NPP, wants to localize technology and supply chain, and develop KSA economy
  - KSA wants to develop entire value chain: construction, technology, engineering, fuel services; human capacity development is especially critical
  - US has all these capabilities - > desire for cooperation
  - Want to help US companies understand the local market
- KACARE PPT on Saudi National Atomic Energy Project (Speakers: Mishari Al Dosari, Kim Pringle, Omar Sheesha, and others)
  [See PowerPoint Presentation from KACARE]
- Key points from KACARE Presentation:
  - March 2018 – Saudi Nuclear Regulator established as independent regulator, Saudi National Policy for Nuclear in KSA also announced
  - Human Capacity Building Initiative (Kim Pringle)
    - By 2020, KACARE wants to localize 30% of atomic expenditure (as part of KSA National Transformation Program 2020)
    - $50.6B to be spent by 2023 for KSA's National Renewable Energy Program
    - 36 KACARE staff doing training in ROK on SMART SMR with KAIST
  - Value Chain Development (Omar Sheesha)
    - >50% localization rate can be achieved in KSA (based on a KSA Study)
  - LNPP Initiative (Mishari Al Dosari)

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        - Feed A concluded – KACARE analyzing RFI bids
        - Feed B – comprehensive dialogue with down selected venders
            - Project development agreements to be signed with down selected vendors
            - 4/8/18 – RFI Response evaluation completed
            - 3 phases in Feed B
            - Site characterization project award to be made soon – 18 months to do evaluation
            - Establishment of Nuclear Holding Company – to be done June 2018 – this commercial holding company will manage the LNPP, SMR project, and fuel cycle projects, and will own the LNPP.
    - SMRs
        - December 17-19, 2017 U.S.-KSA Civil Nuclear Roundtable helped further the conversation re US-KSA cooperation in this area
        - KSA wants to export advanced reactors to Middle East North Africa (MENA) region
        - KSA planning a Study Tour to the U.S. to better understand advanced reactor technologies that are under development
        - KACARE to prioritize technologies that it wants to develop
    - Nuclear Fuel Cycle
        - KSA currently assessing uranium and thorium resources in the KSA
        - Cooperating with Jordan on uranium production (yellow cake)
        - KSA wants to invest in uranium mining, produce yellow cake, localize nuclear fuel production (yellow cake) technology, develop human capacity in this area, and reach nuclear fuel production self-sufficiency
- Discussion re PPT (KACARE responses to industry questions):
    - Uranium mining strategy is separate from KSA National Mining Strategy
    - SMR program – timeline for U.S. Study Tour TBD
    - Joint Feasibility Study with China's CCAC re HTR concluded – waiting for decision from KACARE leadership on next steps
    - KACARE cooperating with Jordan to deploy 2 ROK SMART reactors
    - Nuclear Holding Company and SMRs – holding company will own and operate SMRs in the KSA – might separate into owner and operator company in the future
- U.S. Industry Remarks (NEI's Dan Lipman):
    - Noted composition of US industry delegation – represents entire supply chain
    - Noted that if KACARE informs NEI about details of its planned U.S. Study Tour (when/where/how many people), NEI could put together a U.S. Study Tour proposal (including site visits) [ACTION ITEM]
    - Noted US desire to partner with KSA companies and support localization
    - US industry wants to understand capabilities of KSA companies to support US-KSA partnerships
    - Highlighted US expertise/experience in nuclear safety
- Neil Numark (Numark Associates) gave remarks re safety and regulatory best practices
- KACARE noted its cooperation with Finnish nuclear regulator STUK to license a low-power research reactor in the KSA
- Sargent & Lundy (S&L) Remarks - discussed S&L products and services and their engineering focus - noted that they advise on how to run a NPP and train staff

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- EPRI Remarks - discussed EPRI work on nuclear safety and noted EPRI engagement in over 80% of NPPs around the world
- Legal and Consulting Support
    - Various U.S. companies noted the services they provide in this area
- US technology providers (brief remarks by U.S. companies)
    - Framatome – noted recent restructuring of Areva, noted interest in partnering with KSA on fuel fabrication.
    - Elysium
    - Holtec
    - NuScale

[ACTION ITEM] – Mishari asked U.S. companies to note how they can support KSA civil nuclear program (as part of U.S.-KSA Commercial Roadmap)

Front End of Fuel Cycle

- Cameco Presentation, James Dobchuk (noted their company's offerings)
    - Cameco has the largest mining capacity in the United States
    - Cameco does mining and exploration in North America and Kazakhstan
    - Mill and convert uranium, fabricate fuel for LWRs, collaborate with GE on Silex
    - In situ recovery is primary recovery technique in the United States
    - Cameco able to do 50% localization rate in remote regions
- Centrus Energy Presentation

Human Capacity Development
(individual companies/organizations gave overviews of their products/services)

- Texas A&M
- GE-Hitachi
- Exelon
- WEC
    - Offered training and other items to KACARE (simulator training, executive training, host KSA staff at Vogtle site)
    - WEC to provide more detailed offer to KACARE
- Curtiss-Wright
- U.S. National Labs Offerings (Mike Goff from INL)
    - Noted GAIN, that TREAT reactor recently restarted in U.S. (for testing of advanced fuels)
- Fluor

Closing Remarks

- NEI's Dan Lipman – noted that there are a range of U.S. companies with different capabilities, highlighted willingness of U.S. companies to partner with KSA
- KACARE (Mishari Al Dosari)
    - Noted KACARE desire to activate US-KSA collaboration – define future scope of work so KACARE can report outcomes to KACARE and KSA government leadership [ACTION ITEM]
    - Human resource development is critical for KSA
    - Noted importance of localization

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Saline Water Conversion Corporation (SWCC) Meeting

[PowerPoint Presentation from SWCC]

- SWCC is the largest desalination company in the world
  - Operate 31 desalination plants in the KSA (8 on east coast, 23 on west coast)
  - Employ 30,000 people
  - Produce 5 million cubic meters of water each day
  - In addition to its desalination plants, SWCC operates a water transmission system and water storage tanks
- Opening Remarks from WEC's Tom Weir
- Comments from advanced reactor companies (NuScale, X Energy, GEH, Elysium)
- Discussion/Q&A
  - Discussed human capital development
  - SWCC noted the need for safety when delivering water and electricity, importance of public perception
  - Companies noted the passive safety features of NPPs
  - Lee Peddicord invited SWCC to visit Texas [potential ACTION ITEM]
  - SWCC Governor invited US firms to visit KSA desalination plants [potential ACTION ITEM]

Saudi Electricity Company (SEC) Meeting

[no PowerPoint presentation given]

- Remarks by SEC President and CEO
  - KSA moving towards fuel mix diversification
  - KSA has 75 GW grid and SEC has 9 million customers
  - SEC working to digitize its processes and improve efficiency – closing 60/160 offices and in January 2018 SEC switched to e-billing for its customers
  - SEC to deploy 2.5 million smart meters soon
  - Noted that SEC has had discussions with NuScale on potential cooperation
  - KSA electricity demand varies widely by season – 62 GW in summer, 27/28 GW in winter
  - SEC will work with chosen NPP vendor to deliver electricity from NPP and manage the grid
  - SEC open to partnership/JV with NPP provider
  - Noted SEC and EdF cooperation (likeminded utilities in terms of size and ownership structure)
- Dan Lipman (NEI) Opening Remarks
- Company introductions, SEC introductions
- Comments from Exelon, EPRI, X Energy, GEH, and WEC
- SEC asked for nuclear safety 101 course / safety briefings from the US (noted that France did this) [potential ACTION ITEM]
- SEC noted that "it doesn't know nuclear" – it knows power plants, steam, transmission
- SEC noted that "the door is open" for US companies to visit SEC sites

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- Exelon asked if SEC would partner with US on LNPP bid – SEC noted that they are willing to potentially do a JV (minority partner) but that they cannot bid on the LNPP (KSA government wouldn't allow it)
- SEC noted that it has had informal conversations with KACARE and that it could be a minority partner in the LNPP project

General Authority of Meteorology and Environmental Protection (GAMEP) Meeting

- GAMEP remarks:
  - GAMEP's role: protect the environment and ensure that development is done properly and sustainably – has a mandate to ensure compliance with environmental regulations
  - GAMEP regulations are similar to US EPA regulations
  - KSA's "environment regulatory handbook" states the country's environmental regulations – handbook is currently undergoing review as part of Vision 2030 (merging and splitting of KSA ministries) – water and energy being merged together into KSA Ministry of Environment, Water, and Agriculture
  - GAMEP and other KSA organizations enforce environmental regulations – KSA to issue comprehensive environmental regulations in a few months
  - KSA has many environmental violations and low fines for violating these regulations - > negative behavior
  - Clarified relationship between Ministry of Environment (MOE) and GAMEP: GAMEP is a separate entity but GAMEP's Chairman of the Board is the Minister of Environment (but GAMEP doesn't report to the MOE)
  - Noted GAMEP's 12 initiatives re the environment, including:
    - Air quality monitoring (measuring ambient air and stacks emissions)
    - Waste management (municipal, hazardous, and specialized waste) - GAMEP monitors this – has partners that help treat/handle waste
    - Ground and surface water monitoring (partner with MOE on this)
    - Monitoring gas stations (since gas stations impact air and ground water)
    - Upgrade compliance procedures (e.g. environmental assessments)
    - Education/outreach (to increase awareness of environment in KSA)
    - Coastal protection initiative (monitor water, protect coral reefs)
    - Chemical safety
    - Effluent discharge (avoid waste discharge into water bodies)
    - Treatment of "hot spots" (polluted water bodies)
  - GAMEP has meeting with Minister of Energy on April 30 to provide an update on the 12 initiatives
  - GAMEP plans to issue RFPs to companies to help implement these initiatives [potential ACTION ITEM – get more info on RFPs]
  - GAMEP role in the nuclear sector:
    - GAMEP to serve on Board of Directors for new KSA Nuclear Regulator
    - Will be involved in the study to select the NPP sites (environmental impact assessment)
    - Will be involved in establishing emergency management plan, monitoring nuclear-related transport (fuel and equipment), fuel storage and radioactive waste management, uranium mining (environmental impact), analyzing impact of NPP on air/water, and involvement in nuclear licensing process

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- Discussion/Q&A
  - GAMEP noted that MOE does strategy and GAMEP does day-to-day implementation
  - New KSA nuclear regulator will grant licenses and GAMEP will create environmental regulations (like US EPA – US NRC relationship)
  - GAMEP will review environmental impact assessment for new NPP
  - KACARE to focus on items inside the NPP, GAMEP will not be involved "inside the plant"
  - KACARE has a standard re cooling water impact on marine life/environment – GAMEP to monitor water outside NPP
  - GAMEP to update KSA standards on water/air/soil – standards will differ by area (depending on population, environment, etc.)
  - KACARE in charge of strategy for low/intermediate/high level waste management
  - KSA Central Committee for Emergency Preparedness (has members from all KSA ministries) will help determine KSA's emergency management plans related to the new NPP
  - GAMEP and KACARE both do radiation monitoring in the KSA
  - GAMEP needs capacity building and asked how it can partner with US industry [potential ACTION ITEM]

April 25 Briefing by US Consulate Dhahran Staff and Saudi ARAMCO Representative

[no PowerPoint Presentations given]

- ARAMCO representative highlighted King Salman Energy Park (SPARK) - a new energy hub/city:
  - Is 50 square km and being developed now, will be owned and operated by ARAMCO
  - Mainly focused on oil & gas, power, and waste water treatment – serves as a platform for localization programs – potential role for nuclear waste management companies at SPARK
  - ~50% allocated in terms of space (Baker Hughes, GE, and others committed) – want SMEs and large companies, both manufacturers and service providers
  - ARAMCO Drilling Co. to move to SPARK – will serve as "a new ecosystem for ARAMCO" – suppliers will be nearby, can improve efficiency
- US Consulate staff noted that it is beneficial (but not required) for US firms to have a local agent/rep in KSA

ARAMCO Meeting

[PowerPoint Presentation given}

- ARAMCO gave an overview of its organization and current activities
- ARAMCO noted that its training institutes could be utilized for KKSA nuclear industry training

KFUPM Meeting

[PowerPoint Presentation given]

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Asharqia Chamber of Commerce Meeting

[KACARE PowerPoint Presentation on nuclear program given]
[SAGIA PowerPoint Presentation given]

- KACARE Presentation (key points + new information not specifically noted at April 23 Workshop with KACARE)
  - 2 sites selected for the large NPPs (no details provided)
  - 3 bidders for LNPP tender to be down selected soon
  - Site characterization study (18 months to complete) will be awarded soon
  - After Feed B process, KACARE will establish a Nuclear Holding Company and private sector JV (goal is to establish these by end of 2018)
  - Saudi Geological Survey to do a uranium survey in the Kingdom (Phase A). KACARE to do Phase B analysis
  - KSA cooperating with Jordan on uranium and yellow cake production (human capacity development)
  - ROK and France helping KSA with nuclear workforce development – KACARE working with U.S. to establish similar program later this year [potential ACTION ITEM]

- SAGIA Presentation (see presentation for details)
  - 373 U.S. companies engaged in the KSA ($270 billion in total investment)

AMERICAN OVERSIGHT

United States – Kingdom of Saudi Arabia
Commercial Civil Nuclear Engagement Road Map for 2018-2019

Updated: January 31, 2017 (v7)

Large Light Water Nuclear Project		
Area for Cooperation	**Activity**	**Location**
Site Characterization	Meetings with Rizzo, ENERCON to discuss site characterization capabilities. Meeting with NEI to discuss co-location of power plant with load centers.	Washington, DC Washington, DC
Applicable Codes and Standards	Meetings with ASME, IEEE, EPRI and ANS to discuss nuclear codes and standards.	Washington, DC
Local Saudi Business Partnering (i.e. equipment, components) and technology transfer	Forum(s) with U.S. suppliers to discuss potential areas for Saudi localization and U.S. nuclear industry experience with technology transfer and localization in other countries. Commerce Department certified U.S. Nuclear Executive Mission to Saudi Arabia to discuss potential areas of partnership with local businesses.	Washington, DC (or Atlanta, GA alongside NEA in May 2018) Riyadh, Saudi Arabia
Plant Security	Briefing with Nuclear Energy Institute (NEI) experts on physical and plant security.	Washington, DC (NEI) Phoenix, AZ or Memphis, TN

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DOE-19-0315, 19-0316, 19-0318-A-002702

	Visit to SAFER Center to discuss emergency preparedness.	
Grid Code Modification and Integration	Meeting with EPRI to discuss grid integration technologies for large power systems. Visits to Duke Energy and/or Dominion energy to discuss integration of power generation and distribution systems.	Charlotte, NC Charlotte, NC (Duke) Richmond, VA (Dominion)
Construction	Meeting with EPRI to discuss construction methods and lessons learned.	Charlotte, NC
Fuel Fabrication	Visit to WEC to discuss fuel fabrication and tour fuel fabrication facility.	Columbia, SC
Operational Excellence and Training	Visit to Institute of Nuclear Power Operations (INPO) to discuss industry practices to maintain operational readiness and excellence. Meeting with EPRI to discuss training.	Atlanta, GA
Energy Dispatch and Energy Trading	Visits to Duke Energy and Exelon Corporation to discuss energy dispatch and trading and to tour facility.	Charlotte, NC (Duke) Chicago, IL (Exelon)
Plant tours	Visit to Vogtle NPP to tour construction site of units 2 & 3 and operating unit.	Waynesboro, GA
Other facility tours	TBD	TBD

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Small Modular and Advanced Reactors		
Area for Cooperation	**Activity**	**Location**
Co-gen and desalination applications	Visit to NuScale Power to discuss latest applications of nuclear energy technology for co-generation and desalination.	Portland, OR
Co-gen and desalination applications	Visit to Idaho National Laboratory to discuss latest applications of nuclear energy technology for co-generation and desalination.	Idaho Falls, ID
SMR component manufacturing and testing	Visit to company facilities to discuss SMR design and manufacturing: NuScale Power Holtec International	 Corvallis, OR Camden, NJ
Small and advanced reactor technologies	Meetings/visits to discuss advanced reactor technologies: Advanced Reactor Concepts GE Hitachi Nuclear Energy NuScale Power Terrapower Terrestrial X-energy Holtec International	 Chevy Chase, MD Wilmington, NC Portland and Corvallis, OR Bellevue, WA Mississauga, ON or New York, NY Greenbelt, MD Camden, NJ
Fuel fabrication	Visit to Oak Ridge National Laboratory to discuss fuel fabrication for small and advanced reactor technologies.	Oak Ridge, TN

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Test facilities	TBD	TBD
Advanced manufacturing methods	Meet with EPRI to discuss advanced manufacturing methods for small and advanced reactor technologies.	Charlotte, NC

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Uranium mining/processing to yellowcake form		
Area for Cooperation	**Activity**	**Location**
Visit by uranium mining and conversion companies	Mining: visit to Cameco mine to discuss uranium production and tour facility. Meetings with Uranium Producers of America (UPA), Uranium Energy Corporation (UEC) to discuss uranium exploration and production. Processing: possible meetings with Centrus, Cameco Port Hope to discuss uranium conversion and enrichment.	Locations TBD

DRAFT

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Human capital development to support a successful, sustainable nuclear industry		
Area for Cooperation	**Activity**	**Location**
Education and R&D Infrastructure	Promote university collaboration and cooperation through ▪ U.S. faculty visit to KSA universities ▪ KSA faculty visit to U.S. universities ▪ Partner university program (e.g. joint teams for senior design projects) ▪ Distance learning ▪ Industry collaborative programs with universities (e.g. NuScale and OSU) Student engagement through student exchanges and ANS student conference Promote community college programs through Nuclear Uniform Curriculum Program (NUCP) visit to KSA (TVTC), program development workshops, internship development workshops Promote high school collaboration through teacher workshops, teacher exchanges, and E-learning opportunities Promote educational outreach through benchmarking best practices and K-12 program sharing.	Locations TBD
National Laboratory Cooperation	Promote world-class facility access through ▪ Facility tour of ORNL to view high flux isotope reactor	Locations TBD

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	and hot cells; high-performance computing and CASL; advanced/additive manufacturing R&D; spallation neutron source and historical graphite reactor; and molten salt reactor test loops. ▪ Facility tour of Idaho National Laboratory (INL) to view fast reactors; high temperature gas reactors; advanced test reactor; transient reactor test facility and hot cells; versatile neutron test reactor; high performance computing and Nuclear Energy Advanced Modeling and Simulation (NEAMS); and hybrid energy systems. ▪ Visit to Argonne National Laboratory (ANL) to discuss high-performance computing facilities and NEAMS, sodium coolant test loop and sodium-cooled fast reactor. ▪ Meeting at Pacific Northwest National Laboratory (PNNL) to discuss non-proliferation and safeguards development. Student internships, co-ops, practicums, fellowships International researchers: Post-doctoral research, joint appointments, academic visitors, faculty exchanges Workforce development and training K-12 programs and tools	
Incumbent Employee Training & Qualification	Engagement with nuclear suppliers, nuclear constructors and nuclear operators to discuss development of training and qualification programs.	Locations TBD

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	Meetings to discuss accreditation of programs, oversight and assessment models Meeting with EPRI to discuss job-specific technical training Meetings with NuScale, Westinghouse and other technology-specific training providers to discuss technology-specific training Engagement with U.S. utility, e.g., Exelon, to discuss mid-career job shadowing.	
Advanced Talent Development	Meetings with INPO to discuss leadership development and organizational development. Exchanges to promote executive development with MIT, Texas A&M, and NEI/INPO. Participation in NPI Emergency Preparedness and Response Course to promote policymaker and stakeholder development Meetings to discuss operational readiness, nuclear culture.	Locations TBD

DRAFT

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Creation of an appropriate regulatory environment and agency		
Area for Cooperation	**Activity**	**Location**
Creation of appropriate regulatory agency	Meetings with former NRC chairmen, e.g. Richard Meserve and Dale Klein, to gather additional perspectives on appropriate regulatory development. Meeting with NEI to gather additional perspective on appropriate regulatory development.	Washington, DC Washington, DC
Creation of appropriate regulatory environment	Visit to Institute of Nuclear Power Operations (INPO) to discuss industry practices to maintain operational readiness and excellence (see "Operational Excellence," above).	Atlanta, GA

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U.S. – KSA Action Plan Study Tour
Draft Facility Site Matrix (April 5, 2018)

Sequence In tour	Region	Facility	Location	Nuclear or Renewables	Academic or Laboratory or Industry facility	Benefit and/or Purpose Comments
1	Mid-East	DOE-HQ	D.C.	Combined	Government	Kick-off
2	Mid-East	X-energy	D.C.	Nuclear	Industry	Fuel
	Mid-East	Holtec	Camden	Nuclear	Industry	
	South-East	ORNL	TN	Nuclear	Lab	X-energy collaboration on fuel and coding
	South-East	University of TN	TN	Nuclear	Academic	
	South-East	TVA?	TN	Nuclear	Industry	
	South-East	Vogtle	GA	Nuclear	Industry	AP 1000 Real operators Construction Human resources development Localization
	South-East	Nuclear Energy Assembly	Atlanta, GA	Nuclear	Industry	Fuel facility
	South-East	Georgia Tech University	GA	Nuclear	Academic	
	South-East		S. Carolina	Nuclear	Industry	Fuel facility
	North-West	INL	ID	Nuclear	Lab	U.S. nuclear lab
	North-West	Idaho State University	ID	Nuclear	Academic	
	North-West	Oregon State University	OR	Nuclear	Academic	
	North-West	PNNL	WA	Nuclear	Lab	Nuclear safeguards and security
	North-West	WA State University	WA	Nuclear	Academic	Nuclear safeguards and security
	Mid-West	Mining?	WY	Nuclear	Industry	ISR Mining
	Mid-West	NREL	CO	Combined	Lab	
	South-West	Texas A&M	TX	Nuclear	Academic	Nuclear safeguards and security Disaster City Nuclear Security Center
	South-West	Central Station	AZ	Renewables	?	?
	South-West	Largest nuclear station in U.S.?	AZ	Nuclear	Industry	AZ has similar issues to KSA related to water scarity Topography similar to KSA Largest nuclear station in United States

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From: Scott, Michelle
To: Armando Crosland (LAB) (armando.crosland@nuclear.energy.gov)
Subject: FW: U.S.-KSA Commercial Engagement Next Steps
Date: Wednesday, June 6, 2018 2:27:00 PM
Attachments: 2018-04-23 KACARE Presentation.pdf
2018-05-02 Meeting Notes from NEI CN Trade Mission to KSA.docx
Roadmap0131 US-KSA Commercial Engagement - Implementation 2018-2019 v7.docx

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Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6))

From: JONES, Ted [mailto:thj@nei.org]
Sent: Wednesday, May 09, 2018 4:01 PM
To: 'Jonathan Chesebro' <Jonathan.Chesebro@trade.gov>; Devin Horne <devin.horne@trade.gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; BERRIGAN, Carol <clb@nei.org>
Subject: U.S.-KSA Commercial Engagement Next Steps

For discussion in our call, please see attached the Commercial Engagement Road map, the recent KA-CARE presentation, and Jon's trip notes.

Ted Jones
Nuclear Energy Institute
1201 F Street NW
Washington, D.C. 20004
p: 202.739.8169
m: (b) (6)
twitter: @TJinDC

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U.S.-Saudi Civil Nuclear Partnership

WORKSHOP On Partnership, Localization and Technology Transfer



April 23, 2018
K.A.CARE HQ, Riyadh, Saudi Arabia

رؤيـــة VISION 2030
المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA

المملكة العربية السعودية
المشروع الوطني للطاقة الذرية
Saudi National Atomic Energy Project
SNAEP

مدينة الملك عبد الله للطاقة الذرية والمتجددة
K.A.CARE

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DOE-19-0315, 19-0316, 19-0318-A-002713

Agenda

1. Saudi National Atomic Energy Project (SNAEP)
2. Human Capability Building Initiative
3. Large Nuclear Power Plant (LNPP)
4. Small Modular Reactor (SMR)
5. Nuclear Fuel Cycle

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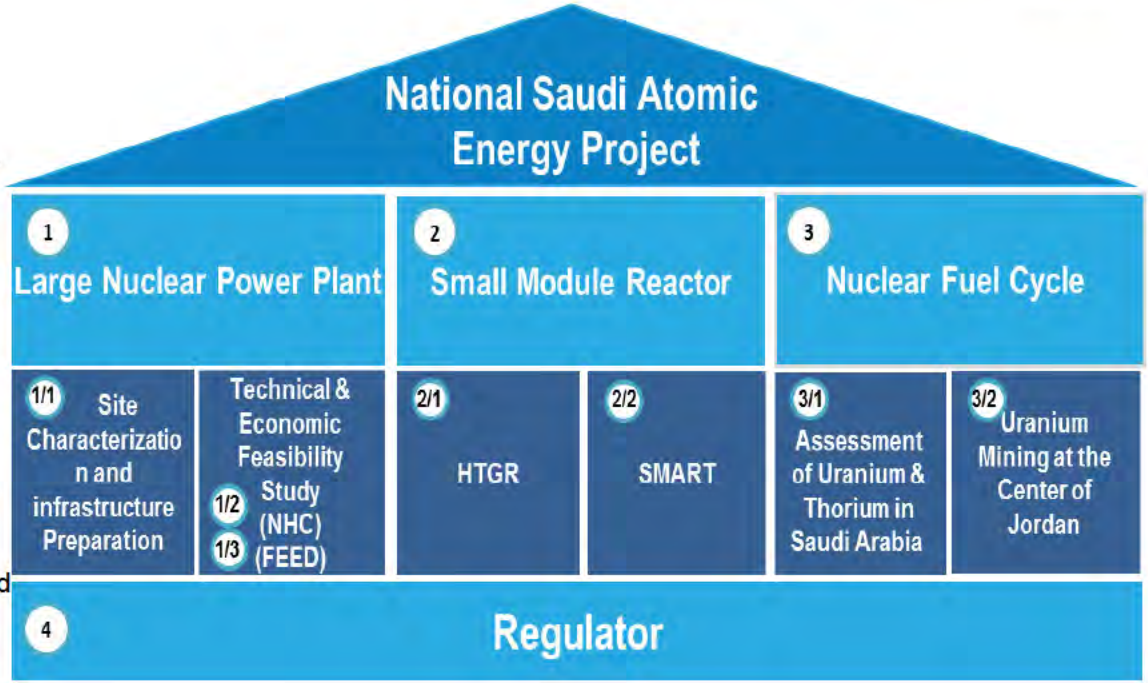
DOE-19-0315, 19-0316, 19-0318-A-002714

> *The objectives of National Atomic Energy Program contribute to achieving Kingdom's Vision 2030*
>
> *H.E. MEIM Khaled Al-Falih, Aug 2017*

> *KSA always seeks to take well planned steps to ensure success of the Saudi National Atomic Energy Project as per the international best practices*
>
> *H.E. Dr. Hashim Yamani*
> *President K.A.CARE, Vienna Sep 2017*



- In July 2017: Saudi Cabinet of Ministers has approved All SNAEP's Components
- In March 2018: Saudi Arabia has published and announced its National Policy for Nuclear Energy
- In March 2018: Saudi Cabinet of Ministers has approved the establishment of Nuclear Safety and Radiation Protection Authority

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-002715

Agenda

1. Saudi National Atomic Energy Project (SNAEP)
2. Human Capability Building Initiative
3. Large Nuclear Power Plant (LNPP)
4. Small Modular Reactor (SMR)
5. Nuclear Fuel Cycle

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DOE-19-0315, 19-0316, 19-0318-A-002716

Human Capacity Building Initiative

- K.A.CARE's mission is to support the development of a sustainable energy mix for Saudi Arabia for Atomic & Renewable energies
- To achieve this, it was mandated with the core element of human capability building with the mission to secure a sustainable pipeline of qualified nationals required for the atomic and renewable energy sectors in the Kingdom of Saudi Arabia
- During participation in the National Transformation Program (NTP), K.A.CARE introduced ***Human Capacity Building Initiative for the Atomic and Renewable Energy*** *Sectors* as an initiative to contribute to the achievement of the 2030 vision.

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The **Kingdom's agenda aims to increase local content** in A&RE, with SNAEP, NREP and DG as key opportunities to enable the achievement of NTP targets

NTP 2020 and NIS A&RE objectives

NTP 2020 K.ACARE targets

- 7,774 jobs in Atomic & Renewable sector
- 35% of RE expenditure localized
- 30% of Atomic expenditure localized

National Industrial Strategy NIS

Renewables is a key industrial cluster
NIS strategy aims to localize >50% of installed components value and create export-focused industries

Key A&RE development initiatives

SNAEP – Saudi National Atomic Energy Program

- Construction of 2 reactors up to 2.8 GW
- Creation of NHC in 2018
- Development of SMART
- Assessment of other opportunities along nuclear fuel cycle

NREP – National Renewable Energy Program

- Provides the basis to localize RE manufacturing industry
- 9.5 GW by 2023 with 2030 plan being developed by PPU[1]
- USD 15.6 BN of spend by 2023

DG – Distributed Generation

- DG framework and taskforce developed planned deployment
- Capacity target under development
- Enables the creation of significant workforce opportunities

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DOE-19-0315, 19-0316, 19-0318-A-002718

K.A.CARE is the custodian of KSA Renewables and Atomic Programs, and **is mandated to drive and deliver the NTP HCB initiative**

Royal Decree establishing King Abdullah City for Atomic and Renewable Energy

April 17, 2010



مدينة الملك عبد الله للطاقة الذرية والمتجددة
K.A.CARE

- **K.A.CARE's mandate is to contribute in the sustainable development in KSA** by using science, research and industries related **of renewable and atomic energy** for peaceful purposes
- **K.A.CARE has** a significant flexibility to shape its own areas of action and will have **a significant role in shaping the overall energy policy of KSA** and in particular, a **leadership role in defining the atomic** and renewable **energy policy and** HCB initiatives

Key HCB Initiative objectives

- **Preparing the necessary Human Capital** for the Atomic and Renewable Energy Sectors
- **Deliver on key initiatives**
  - Workforce Attraction and Recruitment
  - Support the Development of an Education Eco-system
  - Support the Localization of Technology and Knowledge Transfer through HCB
- **Increase number of job opportunities** for Saudis in A&RE sectors
- **NTP HCB and MEIM capacity targets:**

7,774 Jobs | **25%** | **9.5GW** | **2.8GW**[1]

- ~1,700 for Atomic
- ~6,000 for Renewables
- Excluding manufacturing

1. Indicative capacity based on MEIM's communication and dependant on
2. nuclear vendor selection and excluding SMR and SMART

Source: K.A.CARE,

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VISION 2030 المملكة العربية السعودية KINGDOM OF SAUDI ARABIA

المشروع الوطني للطاقة الذرية
Saudi National Atomic Energy Project
SNAEP

DOE-19-0315, 19-0316, 19-0318-A-002719

PRIORITIZING LOCALIZATION AND HUMAN CAPITAL DEVELOPMENT

With Key Stakeholders, the HCB Initiative is creating a holistic and transformational model to enable a sustainable A&RE workforce

TRAINING
- Integrate graduates with A&RE Industry
- Build skills via apprenticeships & OJT

INNOVATION
- Drive innovation culture
- Partner w/ Saudi universities, enablers, tech hubs, etc.

EDUCATION
- Expand Saudi-Int'l. university exchanges
- Facilitate internships with international partners
- Align MOE scholarships to A&RE sector requirements



TECHNICAL EXCHANGE
- Leverage international exchange programs & create new ones
- Engage industry organizations & private partners

INSPIRATION
- Attract young talented citizens to pursue related careers

COORDINATION
- Advise on program design & management
- Assist with curriculum & standards design

VOCATIONAL GRADUATES

HIGHER EDU. GRADUATES

HIGHLY TRAINED WORKERS

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DOE-19-0315, 19-0316, 19-0318-A-002720

HCB Initiative Scope

3 Tracks	Focus Areas
1. **Workforce Attraction and Recruitment**	• Prepare and implement outreach programs & increase awareness in A&RE sectors through formulating & designing directed programs • Provide scholarships / internships in A&RE sectors for students in & out of KSA
2. **Support Development of Education Ecosystem**	• Support and develop education and training systems to enable the nuclear and renewable energy sectors to secure a sustainable source of qualified young men and women • Oversee workforce planning and modelling of manpower requirements for the A&RE sectors
3. **Localization of Technology & Knowledge Transfer**	• Recruit and qualify specialized human cadres through localization of technology and knowledge transfer

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DOE-19-0315, 19-0316, 19-0318-A-002721

In order to address the Nuclear workforce requirements, we have **two ongoing initiatives** to develop Saudi talent partnering with renown International Agencies

Ongoing initiatives - Atomic

Nuclear Engineering Summer Training Program

- **K.A.CARE has established summer training** programs for nuclear engineering students at both I2EN and KAIST
- **These 8 week programs** are offered at a beginning level at KAIST and a more advanced program at I2EN





KAIST I2EN





70 Students in 2016 & 17

Next step: Continue programs in 2018 and expand to include more universities and engineering trades

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DOE-19-0315, 19-0316, 19-0318-A-002722

Ongoing initiatives – RE Distributed Generation (DG)

In Renewables Distributed Generation (Roof-Top Solar), we have an initiative to design the training framework to develop the capabilities needed and ensure MEIM's planned DG roll-out.

An additional initiative will be rolled out for RE Manufacturing and Training Development.

DG Training Initiative Status

Developed curricula for PV Design and PV Installer…

Solar PV Designer



Solar PV Installer



…based on benchmarks and 40+ key stakeholders input

40+ stakeholders involved



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DOE-19-0315, 19-0316, 19-0318-A-002723

In terms of **Technology & Knowledge Localization**, we currently have 36 K.A.CARE colleagues undergoing a 2 to 3 year on-the-job training in SMART

Ongoing initiatives - Atomic

SMART Knowledge Transfer - South Korea

On the job training on Small Modular Reactor technology

- 3 Months Classroom Training (CRT) Basics
- 3 Months Classroom Training (CRT) Technical
- 6-12 Months On-the-Job Training (OJT)
- 11-17 Months On-the-Job Participation (OJP)



KAIST



36 K.A.CARE Staff

1. KAIST – Korea Advanced Institute of Science and Technology

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DOE-19-0315, 19-0316, 19-0318-A-002724

K.A.CARE – USA Cooperation

- K.A.CARE – US Department of Energy MOU: Reviewing current MOU to modify it to enable Project Specific Agreements to be undertaken

- Preparations for US Study tours in 2018 to increase collaboration for exchange in areas of Human Capacity Building and Advanced Nuclear Technologies

- Priorities for Human Capacity Building:
  - Education and R&D Infrastructure
  - Promote university collaboration and cooperation
  - Engagement with nuclear suppliers, nuclear constructors and nuclear operators to discuss development of training and qualification programs
  - Accreditation of programs, oversight and assessment models
  - Exchanges to promote executive development in Nuclear field with leading institutions

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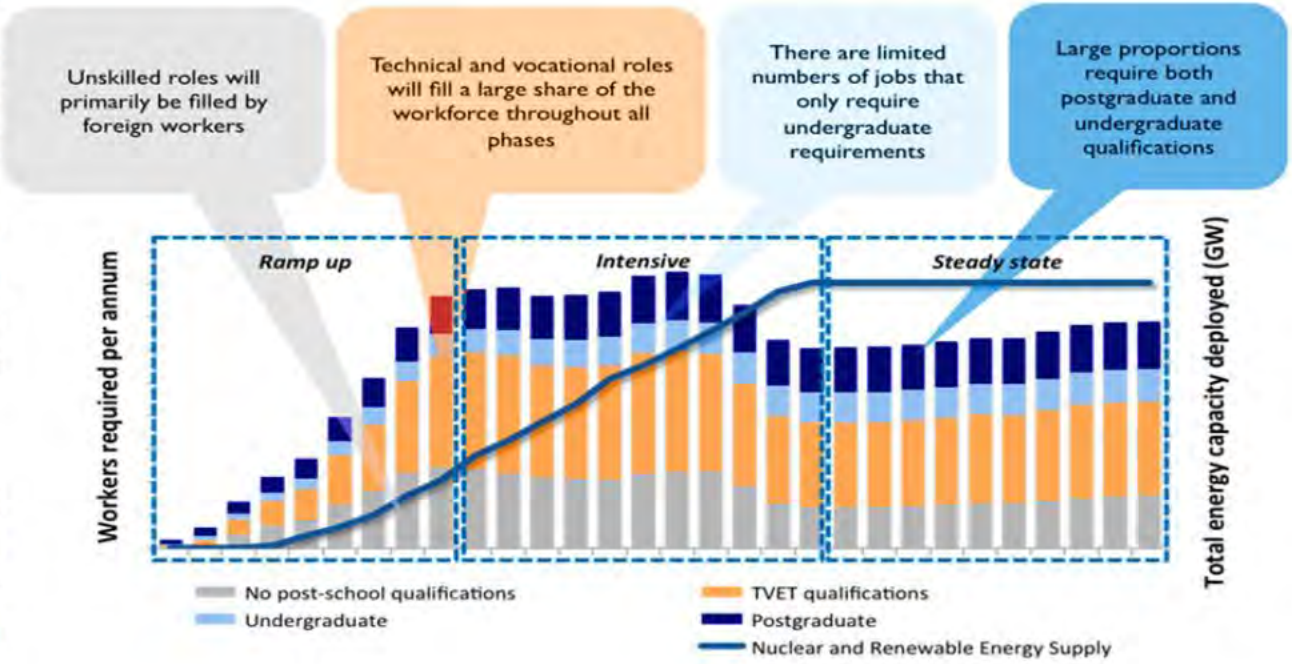
DOE-19-0315, 19-0316, 19-0318-A-002725

Workforce Development for NPP

- While localization of the Atomic energy workforce is an important objective, not all the jobs identified will be filled by Saudi workers, particularly in the early years, where there will be a need to supplement the workforce with expatriate and foreign workers.

- The number of competent Saudi workers available will be a function of the number of people who are trained domestically in Saudi Arabia or internationally.



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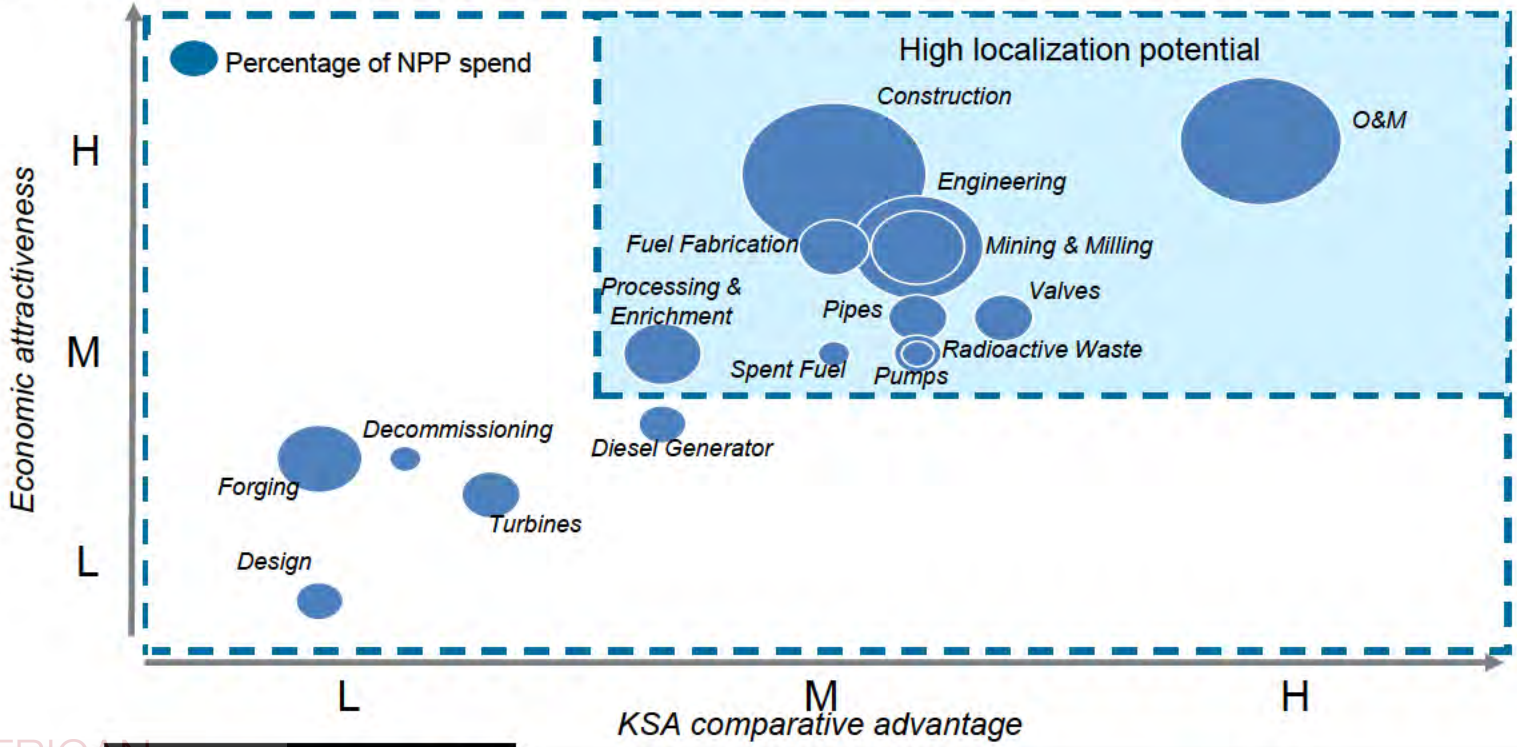
Value Chain Development – Value Mapping of Nuclear Spend

Based on economic attractiveness and KSA comparative advantage, it is estimated that >50% localization rate could be achieved



DOE-19-0315, 19-0316, 19-0318-A-002727

Agenda



1. Saudi National Atomic Energy Project (SNAEP)
2. Human Capability Building Initiative
3. Large Nuclear Power Plant (LNPP)
4. Small Modular Reactor (SMR)
5. Nuclear Fuel Cycle

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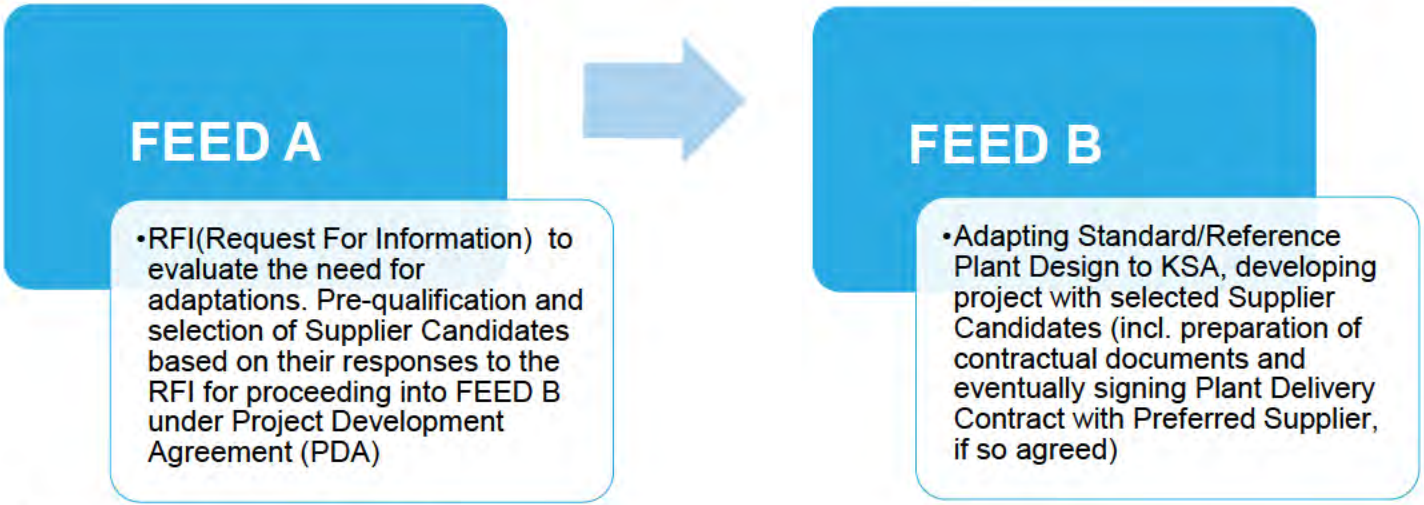
DOE-19-0315, 19-0316, 19-0318-A-002728

Front End Engineering design (FEED)

Major phases

- *FEED (Front End Engineering Design) refers to the process of adapting a Standard/Reference Plant Design to KSA requirements and conditions*
- *FEED is divided into two major phases*



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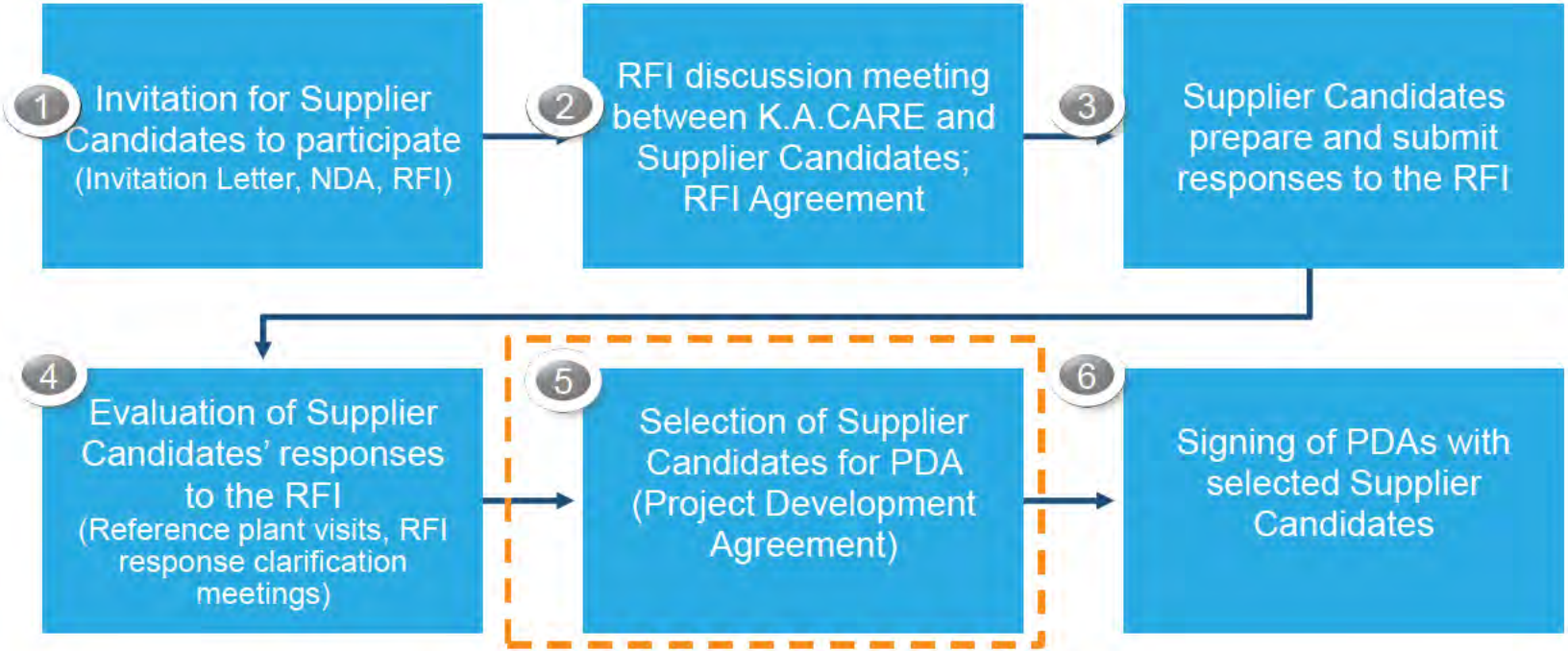
1st Phase of Front End Engineering design - Steps in FEED-A



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Timeline of FEED-A and Interaction with Westinghouse.

Westinghouse & مدينة الملك عبد الله للطاقة الذرية والمتجددة K·A·CARE

RFI agreement signed — 12/10/17

RFI Clarification meeting — 19/11/17



RFI Response received — 30/12/17



Reference plant visit — 25/01/18



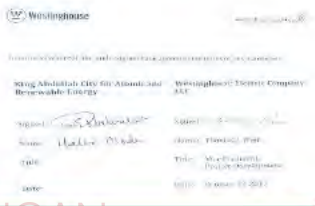
RFI Response Clarification meeting — 11/02/18



RFI Response Evaluation Completed — 08/04/18



PDA & START OF FEED B



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VISION 2030 المملكة العربية السعودية

المشروع الوطني للطاقة الذرية Saudi National Atomic Energy Project SNAEP

DOE-19-0315, 19-0316, 19-0318-A-002731

مدينة الملك عبد الله للطاقة الذرية والمتجددة K·A·CARE

2nd Phase of Front End Engineering design (FEED-B)

1 1st phase

- Supplier Candidates adapt standard/ reference plant design to KSA conditions and K.A.CARE requirements
- Supplier Candidates provide their technical and commercial proposals requirements

2 2nd phase

- K.A.CARE evaluates proposals from Supplier Candidates
- K.A.CARE selects Preferred Supplier; signing of Letter of Intent

3 3rd phase

- Final contract negotiations
- Signing of the Plant Delivery Contract to build LNNP (2 units) in KSA, If so decided
  - ✓ construction contract
  - ✓ O&M contract
  - ✓ fuel supply contract
  - ✓ spent fuel management contract.

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DOE-19-0315, 19-0316, 19-0318-A-002732

Large NPP Site Characterization

- Site Characterization studies will be conducted for the two (2) allocated sites (one primary and one secondary).
- Site Characterization Request for Proposal (RFP) was launched.
- Targeted time of the Site Characterization Project award in April 2018.
- Anticipated duration of the Site Characterization Project is eighteen (18) months.
- Number of studies comprising the Site Characterization Project is twenty three (23)



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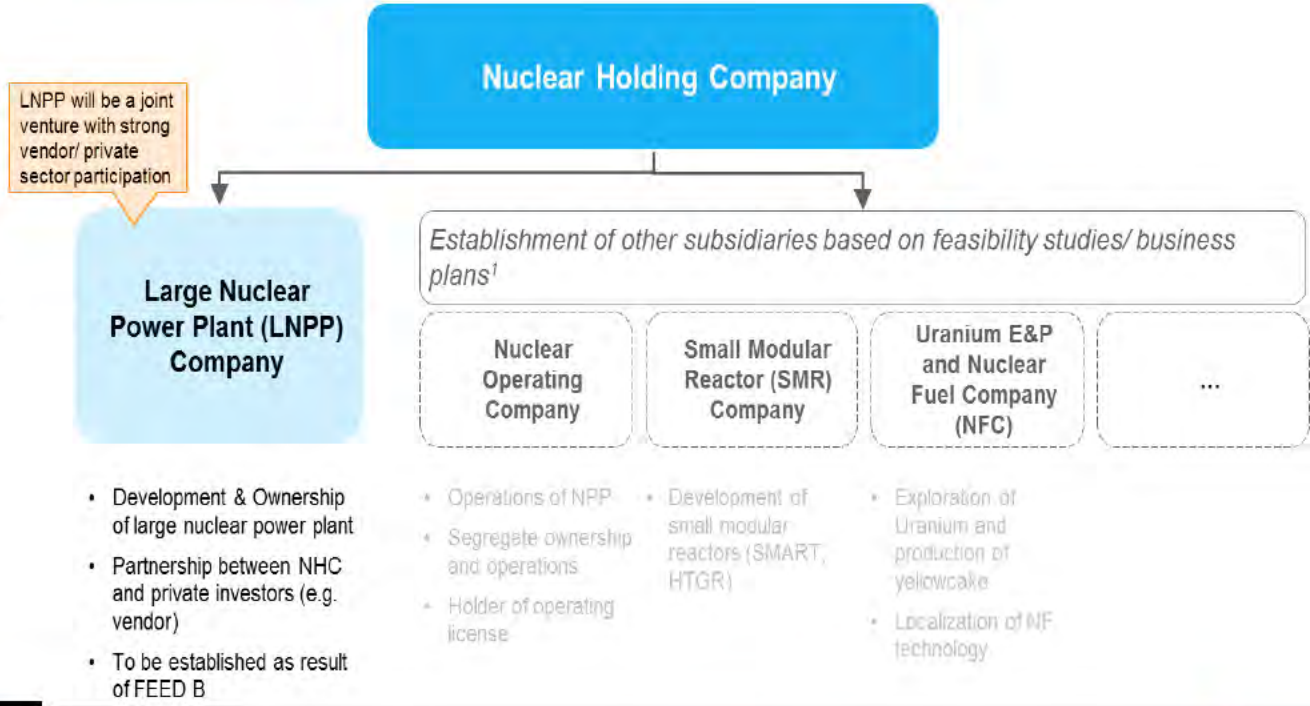
Establishment of a Nuclear Holding Company

NHC is currently expected to have LNPP, a joint venture that will develop and own the large nuclear power plant (2 reactors)

NHC subsidiary structure



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DOE-19-0315, 19-0316, 19-0318-A-002734

NHC will focus on development of economically viable nuclear assets through subsidiaries

Objective of NHC

- **Independent legal entity** to pursue commercial interests of SNAEP
- Distinct **entity structured for ring-fencing and liability blocking**
- **Vehicle to access funding** for well defined commercial opportunities
- **Strategic shareholder in nuclear projects** and operating companies with private investors

Role of the Nuclear Holding Company

1. Participate and invest in economically viable opportunities, projects and/or assets along nuclear value chain locally and internationally to implement SNAEP
2. Develop, own, and operate nuclear assets to produce power, desalinated water, and thermal applications through solely or jointly established subsidiaries
3. Consolidate nuclear expertise and know-how, capture synergies across business lines and provide subsidiaries with required support
4. Implement the nuclear localization targets/ KPIs set by K.A.CARE / Government: Human Capital Building, Technology Localization and Development, and Supply Chain Localization (services and manufacturing)

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DOE-19-0315, 19-0316, 19-0318-A-002735

Agenda



1. Saudi National Atomic Energy Project (SNAEP)
2. Human Capability Building Initiative
3. Large Nuclear Power Plant (LNPP)
4. Small Modular Reactor (SMR)
5. Nuclear Fuel Cycle

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DOE-19-0315, 19-0316, 19-0318-A-002736

Kingdom of Saudi Arabia(KSA) & United States (U.S) SMR Cooperation

U.S.-KSA Civil Nuclear Energy Roundtable:

Kingdom of Saudi Arabia (KSA) and United states (U.S.) conducted 1st Civil nuclear energy roundtable on 17-18 Dec with regards to peaceful use of Nuclear energy. The U.S technology providers presented in details their technologies seeking to build a strategic partnership and supporting Saudi National Atomic Energy Project

Partnership with United States can provide

1. Technology leadership and innovation
2. A wide variety of advanced reactor technologies
3. Advanced reactors that support a variety of applications such as; electricity, desalination, co-generation, industrial process heat, petrochemical and mining
4. Advanced reactors that can utilize a range of fuels, including low enriched uranium, spent nuclear fuel, and several other forms of fuel materials.
5. Support KSA's goals in energy sustainability & transfer technology
6. Collaboration with KSA to localize its supply chain and build domestic industrial capability

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DOE-19-0315, 19-0316, 19-0318-A-002737

Kingdom of Saudi Arabia (KSA) & United States (US) SMR Cooperation

U.S.-KSA Civil Nuclear Energy Roundtable:

KSA Objectives:

- KACARE seeks a structured strategic integrated partnership that supports its goals of technology transfer, IP ownership, support value chain in industry, and workforce development.
- KACARE is pursuing advanced reactors to serve domestic needs and export to MENA region.
- US and KSA have a strong historical alliance and shared interest in co-developing advanced reactor technology.
- Shared US-KSA interest in IP transfer to co-develop advanced reactor technology.

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DOE-19-0315, 19-0316, 19-0318-A-002738

Kingdom of Saudi Arabia (KSA) & United States (U.S) SMR Cooperation

KSA - US Working Group: (Upcoming study tour)

objectives:

The group is interested in considering advanced and next-generation reactor technologies for future deployment satisfying the following criteria:

- Dramatic improvement in safety and reliability over currently deployed technologies
- Overall sustainability: environmental, economic, and resource sustainability
- Improvements in cost, manufacturability, construction time, and operability.
- Technology licensibility.
- Non-electric applications, particularly high-temperature process applications, such as refining, petrochemicals, Hydrogen production, metallurgical and other.
- Willingness to partner in technology ownership, localization, and global deployment is essential.

❖ The group plans to undertake a technology screening and prioritization exercise, after considering all potential candidates satisfying the above criteria and then provide a recommendation to leadership based on the findings.

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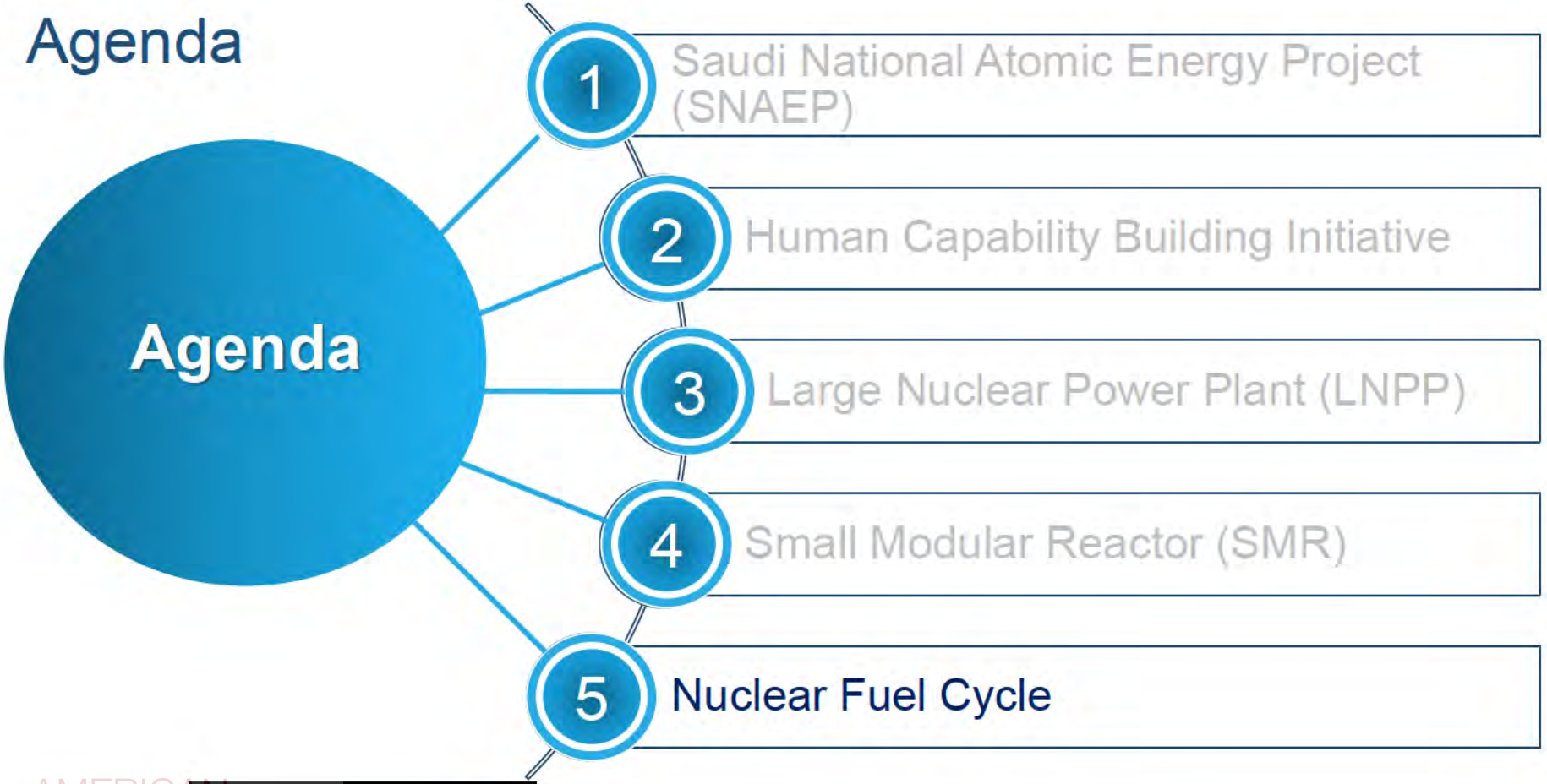
DOE-19-0315, 19-0316, 19-0318-A-002739

Agenda



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Nuclear Fuel Cycle

Nuclear Fuel Co. target mandate

- **Investment** in uranium mining
- **Production** of yellow cake
- **Localization** of nuclear fuel production (yellow cake) technology
- **Human capability** building in nuclear fuel (50 Saudi engineers to be sent to Jordan)
- Reach nuclear fuel production **self-sufficiency**

Planned nuclear fuel cycle projects

1. Assessment of Uranium and Thorium in KSA

	Scope	Duration
Phase A	Uranium exploration in KSA with SGS[1]	2 years (end 2019)
Phase B	Detailed study to define uranium concentration	3 years (ends 2022)

2. Uranium (yellow cake) production with Jordan

- Human Capacity building in exploration, production & chemical processes of Uranium
- **Feasibility study** for production of yellow cake in collaboration with Jordan (construction of **pilot plant**)

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DOE-19-0315, 19-0316, 19-0318-A-002741

Nuclear Fuel Cycle





The activities and achievements of U\Th assessments in KSA:

- ❖ Completed the geological and radiometric survey for all suggested areas.
- ❖ Starting the geophysical survey (Seismic, Electrical, Magnetic) in some areas.
- ❖ Starting the trenches excavation in some areas.
- ❖ HCB Process are ongoing.





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Nuclear Fuel Cycle



The activities and achievements of U\Th assessments in KSA:

- As part of the project of exploring uranium and thorium ore in the Kingdom, the project team from K.A.CARE accompanied the consultant team from the Finnish Geological Survey in the third field visit to follow the progress of field work in the areas under study and its compliance with JORC standards. These areas are currently being studied by CNNC under the supervision of the Saudi Geological Survey and K.A.CARE team.

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DOE-19-0315, 19-0316, 19-0318-A-002743

Nuclear Fuel Cycle



The activities and achievements of U\Th assessments in KSA:

- During the visit, They discovered a new radiological anomaly of the thorium component, at one of the most difficult topographic exploration sites; that is well known for its rugged terrain.



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DOE-19-0315, 19-0316, 19-0318-A-002744

المملكة العربية السعودية
المشروع الوطني للطاقة الذرية
Saudi National Atomic Energy Project
SNAEP

مدينة الملك عبد الله للطاقة الذرية والمتجددة
K·A·CARE



Thank You !

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NEI Civil Nuclear Trade Mission to Saudi Arabia – Meeting Notes

April 23-25, 2018

Briefing with U.S. Embassy Riyadh

- Representatives from U.S. Embassy Riyadh answered questions from U.S. companies and provided an overview of the U.S.-KSA bilateral relationship and key information on KSA political/economic/social situation.
- KSA Country Stats
  - KSA is the largest producer of desalinated water in the world
  - 70% of KSA GDP is from petrochemicals
  - Current grid size is 80 GW
  - 70% of working Saudis work for the government (only 17% of U.S. workers employed by the government)
  - Energy subsidies consume 1/8 to 1/10 of KSA GDP - > need for reform and cutting of energy subsidies
  - KSA wants to diversify its energy mix: currently produces 10 million barrels of oil/day (2.5 million used for domestic power generation)
  - KSA wants a private sector driven economy that employs Saudis
  - KSA government slowly increasing electricity prices (increased prices at the end of 2016 and the beginning of 2018)
  - KSA currently has no business law, franchise law, or environmental protection law in place - U.S. Government would like KSA to establish these laws to help U.S. companies work in the Kingdom
  - KSA National Renewable Energy Plan calls for 9.5 GW of renewable energy by 2023
  - Vision 2030 announced April 2016 – major social and economic reform program
  - March 27, 2018 – announcement of KSA MoU with Japanese multinational SoftBank to build a $200 billion solar power development - is at odds with KSA nuclear development
- KSA Civil Nuclear Program
  - KSA wants to move ahead with nuclear – may slip with timetable
  - KSA civil nuclear sector does not exist and needs to be developed
  - KSA has a relationship with the U.S. Executive Branch and U.S. Congress – understands the importance of concluding a 123 Agreement
  - Noted the 5 bidders for the KSA's Large Nuclear Power Plant (LNPP) Project:
    1) Russia – KSA history of cooperation with Russia on OPEC production cuts
    2) China – largest purchaser of KSA oil, helping KSA with rail and oil development
    3) France – EdF has trained many Saudis
    4) ROK – cooperation with KSA on its SMART SMR
    5) U.S. – long history of cooperation with KSA, current bilateral relationship is strong
  - KACARE-China feasibility study on advanced nuclear reactor development to be released soon (December 2017 was original release date) – no status update
- KSA investing heavily in education:
  - 60,000 Saudis currently studying in the United States (most paid for by the KSA government)
  - 70% of KSA students studying abroad choose to study in the United States

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- July 2018 Saudi Career Fair to be held in Washington DC – being organized by the MiSK Foundation and the Saudi Embassy in DC – U.S. companies/organizations encouraged to attend
    - POC for the Career Fair is Ms. Asma Aljasser at the MiSK Foundation, who is working with the Saudi Embassy in D.C. to arrange the event. Her email is asma.aljasser@misk.org.sa. [note: I emailed her on 4/30 to get more information and have not yet heard back] [ACTION ITEM – encourage U.S. industry participation in Career Fair]
  - U.S. companies can hire Saudi citizens for internships and in the future this may count towards "Saudization" employment goals
  - U.S. Embassy has programs to support U.S.-KSA university cooperation
- Historically U.S. companies needed a KSA partner to do business in the KSA, but now the Saudi Arabian General Investment Authority (SAGIA) is allowing companies to set up wholly-owned subsidiaries

KACARE Workshop

- Opening remarks by DOC Minister Counselor for Commercial Affairs Nasir Abbasi – noted importance of US-KSA bilateral relationship and USG support for US civil nuclear industry
- Opening remarks by WEC's David Durham – noted factors that distinguish the US civil nuclear offering from the competition:
  - Diversity of supply: 100 operating reactors in US, many fuel companies, EPC companies
  - US industry independent of USG (has benefits and drawbacks)
  - Strong USG support for US industry and strong US-KSA bilateral relationship
- Opening Remarks from KACARE Chief Atomic Energy Officer Dr. Maher Alodan:
  - Phase 1 of LNPP (Feed A) concluded – in Phase B now – results of Phase B to be presented to KSA government Committee week of April 23
  - KSA wants a long-term partner to build a NPP, wants to localize technology and supply chain, and develop KSA economy
  - KSA wants to develop entire value chain: construction, technology, engineering, fuel services; human capacity development is especially critical
  - US has all these capabilities - > desire for cooperation
  - Want to help US companies understand the local market
- KACARE PPT on Saudi National Atomic Energy Project (Speakers: Mishari Al Dosari, Kim Pringle, Omar Sheesha, and others)
  [See PowerPoint Presentation from KACARE]
- Key points from KACARE Presentation:
  - March 2018 – Saudi Nuclear Regulator established as independent regulator, Saudi National Policy for Nuclear in KSA also announced
  - Human Capacity Building Initiative (Kim Pringle)
    - By 2020, KACARE wants to localize 30% of atomic expenditure (as part of KSA National Transformation Program 2020)
    - $50.6B to be spent by 2023 for KSA's National Renewable Energy Program
    - 36 KACARE staff doing training in ROK on SMART SMR with KAIST
  - Value Chain Development (Omar Sheesha)
    - >50% localization rate can be achieved in KSA (based on a KSA Study)
  - LNPP Initiative (Mishari Al Dosari)

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        - Feed A concluded – KACARE analyzing RFI bids
        - Feed B – comprehensive dialogue with down selected venders
            - Project development agreements to be signed with down selected vendors
            - 4/8/18 – RFI Response evaluation completed
            - 3 phases in Feed B
            - Site characterization project award to be made soon – 18 months to do evaluation
            - Establishment of Nuclear Holding Company – to be done June 2018 – this commercial holding company will manage the LNPP, SMR project, and fuel cycle projects, and will own the LNPP.
    - SMRs
        - December 17-19, 2017 U.S.-KSA Civil Nuclear Roundtable helped further the conversation re US-KSA cooperation in this area
        - KSA wants to export advanced reactors to Middle East North Africa (MENA) region
        - KSA planning a Study Tour to the U.S. to better understand advanced reactor technologies that are under development
        - KACARE to prioritize technologies that it wants to develop
    - Nuclear Fuel Cycle
        - KSA currently assessing uranium and thorium resources in the KSA
        - Cooperating with Jordan on uranium production (yellow cake)
        - KSA wants to invest in uranium mining, produce yellow cake, localize nuclear fuel production (yellow cake) technology, develop human capacity in this area, and reach nuclear fuel production self-sufficiency
- Discussion re PPT (KACARE responses to industry questions):
    - Uranium mining strategy is separate from KSA National Mining Strategy
    - SMR program – timeline for U.S. Study Tour TBD
    - Joint Feasibility Study with China's CCAC re HTR concluded – waiting for decision from KACARE leadership on next steps
    - KACARE cooperating with Jordan to deploy 2 ROK SMART reactors
    - Nuclear Holding Company and SMRs – holding company will own and operate SMRs in the KSA – might separate into owner and operator company in the future
- U.S. Industry Remarks (NEI's Dan Lipman):
    - Noted composition of US industry delegation – represents entire supply chain
    - Noted that if KACARE informs NEI about details of its planned U.S. Study Tour (when/where/how many people), NEI could put together a U.S. Study Tour proposal (including site visits) [ACTION ITEM]
    - Noted US desire to partner with KSA companies and support localization
    - US industry wants to understand capabilities of KSA companies to support US-KSA partnerships
    - Highlighted US expertise/experience in nuclear safety
- Neil Numark (Numark Associates) gave remarks re safety and regulatory best practices
- KACARE noted its cooperation with Finnish nuclear regulator STUK to license a low-power research reactor in the KSA
- Sargent & Lundy (S&L) Remarks - discussed S&L products and services and their engineering focus - noted that they advise on how to run a NPP and train staff

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- EPRI Remarks - discussed EPRI work on nuclear safety and noted EPRI engagement in over 80% of NPPs around the world
- Legal and Consulting Support
    - Various U.S. companies noted the services they provide in this area
- US technology providers (brief remarks by U.S. companies)
    - Framatome – noted recent restructuring of Areva, noted interest in partnering with KSA on fuel fabrication.
    - Elysium
    - Holtec
    - NuScale

[ACTION ITEM] – Mishari asked U.S. companies to note how they can support KSA civil nuclear program (as part of U.S.-KSA Commercial Roadmap)

Front End of Fuel Cycle

- Cameco Presentation, James Dobchuk (noted their company's offerings)
    - Cameco has the largest mining capacity in the United States
    - Cameco does mining and exploration in North America and Kazakhstan
    - Mill and convert uranium, fabricate fuel for LWRs, collaborate with GE on Silex
    - In situ recovery is primary recovery technique in the United States
    - Cameco able to do 50% localization rate in remote regions
- Centrus Energy Presentation

Human Capacity Development
(individual companies/organizations gave overviews of their products/services)

- Texas A&M
- GE-Hitachi
- Exelon
- WEC
    - Offered training and other items to KACARE (simulator training, executive training, host KSA staff at Vogtle site)
    - WEC to provide more detailed offer to KACARE
- Curtiss-Wright
- U.S. National Labs Offerings (Mike Goff from INL)
    - Noted GAIN, that TREAT reactor recently restarted in U.S. (for testing of advanced fuels)
- Fluor

Closing Remarks

- NEI's Dan Lipman – noted that there are a range of U.S. companies with different capabilities, highlighted willingness of U.S. companies to partner with KSA
- KACARE (Mishari Al Dosari)
    - Noted KACARE desire to activate US-KSA collaboration – define future scope of work so KACARE can report outcomes to KACARE and KSA government leadership [ACTION ITEM]
    - Human resource development is critical for KSA
    - Noted importance of localization

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Saline Water Conversion Corporation (SWCC) Meeting

[PowerPoint Presentation from SWCC]

- SWCC is the largest desalination company in the world
  - Operate 31 desalination plants in the KSA (8 on east coast, 23 on west coast)
  - Employ 30,000 people
  - Produce 5 million cubic meters of water each day
  - In addition to its desalination plants, SWCC operates a water transmission system and water storage tanks
- Opening Remarks from WEC's Tom Weir
- Comments from advanced reactor companies (NuScale, X Energy, GEH, Elysium)
- Discussion/Q&A
  - Discussed human capital development
  - SWCC noted the need for safety when delivering water and electricity, importance of public perception
  - Companies noted the passive safety features of NPPs
  - Lee Peddicord invited SWCC to visit Texas [potential ACTION ITEM]
  - SWCC Governor invited US firms to visit KSA desalination plants [potential ACTION ITEM]

Saudi Electricity Company (SEC) Meeting

[no PowerPoint presentation given]

- Remarks by SEC President and CEO
  - KSA moving towards fuel mix diversification
  - KSA has 75 GW grid and SEC has 9 million customers
  - SEC working to digitize its processes and improve efficiency – closing 60/160 offices and in January 2018 SEC switched to e-billing for its customers
  - SEC to deploy 2.5 million smart meters soon
  - Noted that SEC has had discussions with NuScale on potential cooperation
  - KSA electricity demand varies widely by season – 62 GW in summer, 27/28 GW in winter
  - SEC will work with chosen NPP vendor to deliver electricity from NPP and manage the grid
  - SEC open to partnership/JV with NPP provider
  - Noted SEC and EdF cooperation (likeminded utilities in terms of size and ownership structure)
- Dan Lipman (NEI) Opening Remarks
- Company introductions, SEC introductions
- Comments from Exelon, EPRI, X Energy, GEH, and WEC
- SEC asked for nuclear safety 101 course / safety briefings from the US (noted that France did this) [potential ACTION ITEM]
- SEC noted that "it doesn't know nuclear" – it knows power plants, steam, transmission
- SEC noted that "the door is open" for US companies to visit SEC sites

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- Exelon asked if SEC would partner with US on LNPP bid – SEC noted that they are willing to potentially do a JV (minority partner) but that they cannot bid on the LNPP (KSA government wouldn't allow it)
- SEC noted that it has had informal conversations with KACARE and that it could be a minority partner in the LNPP project

General Authority of Meteorology and Environmental Protection (GAMEP) Meeting

- GAMEP remarks:
  - GAMEP's role: protect the environment and ensure that development is done properly and sustainably – has a mandate to ensure compliance with environmental regulations
  - GAMEP regulations are similar to US EPA regulations
  - KSA's "environment regulatory handbook" states the country's environmental regulations – handbook is currently undergoing review as part of Vision 2030 (merging and splitting of KSA ministries) – water and energy being merged together into KSA Ministry of Environment, Water, and Agriculture
  - GAMEP and other KSA organizations enforce environmental regulations – KSA to issue comprehensive environmental regulations in a few months
  - KSA has many environmental violations and low fines for violating these regulations - > negative behavior
  - Clarified relationship between Ministry of Environment (MOE) and GAMEP: GAMEP is a separate entity but GAMEP's Chairman of the Board is the Minister of Environment (but GAMEP doesn't report to the MOE)
  - Noted GAMEP's 12 initiatives re the environment, including:
    - Air quality monitoring (measuring ambient air and stacks emissions)
    - Waste management (municipal, hazardous, and specialized waste) - GAMEP monitors this – has partners that help treat/handle waste
    - Ground and surface water monitoring (partner with MOE on this)
    - Monitoring gas stations (since gas stations impact air and ground water)
    - Upgrade compliance procedures (e.g. environmental assessments)
    - Education/outreach (to increase awareness of environment in KSA)
    - Coastal protection initiative (monitor water, protect coral reefs)
    - Chemical safety
    - Effluent discharge (avoid waste discharge into water bodies)
    - Treatment of "hot spots" (polluted water bodies)
  - GAMEP has meeting with Minister of Energy on April 30 to provide an update on the 12 initiatives
  - GAMEP plans to issue RFPs to companies to help implement these initiatives [potential ACTION ITEM – get more info on RFPs]
  - GAMEP role in the nuclear sector:
    - GAMEP to serve on Board of Directors for new KSA Nuclear Regulator
    - Will be involved in the study to select the NPP sites (environmental impact assessment)
    - Will be involved in establishing emergency management plan, monitoring nuclear-related transport (fuel and equipment), fuel storage and radioactive waste management, uranium mining (environmental impact), analyzing impact of NPP on air/water, and involvement in nuclear licensing process

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- Discussion/Q&A
  - GAMEP noted that MOE does strategy and GAMEP does day-to-day implementation
  - New KSA nuclear regulator will grant licenses and GAMEP will create environmental regulations (like US EPA – US NRC relationship)
  - GAMEP will review environmental impact assessment for new NPP
  - KACARE to focus on items inside the NPP, GAMEP will not be involved "inside the plant"
  - KACARE has a standard re cooling water impact on marine life/environment – GAMEP to monitor water outside NPP
  - GAMEP to update KSA standards on water/air/soil – standards will differ by area (depending on population, environment, etc.)
  - KACARE in charge of strategy for low/intermediate/high level waste management
  - KSA Central Committee for Emergency Preparedness (has members from all KSA ministries) will help determine KSA's emergency management plans related to the new NPP
  - GAMEP and KACARE both do radiation monitoring in the KSA
  - GAMEP needs capacity building and asked how it can partner with US industry [potential ACTION ITEM]

April 25 Briefing by US Consulate Dhahran Staff and Saudi ARAMCO Representative

[no PowerPoint Presentations given]

- ARAMCO representative highlighted King Salman Energy Park (SPARK) - a new energy hub/city:
  - Is 50 square km and being developed now, will be owned and operated by ARAMCO
  - Mainly focused on oil & gas, power, and waste water treatment – serves as a platform for localization programs – potential role for nuclear waste management companies at SPARK
  - ~50% allocated in terms of space (Baker Hughes, GE, and others committed) – want SMEs and large companies, both manufacturers and service providers
  - ARAMCO Drilling Co. to move to SPARK – will serve as "a new ecosystem for ARAMCO" – suppliers will be nearby, can improve efficiency
- US Consulate staff noted that it is beneficial (but not required) for US firms to have a local agent/rep in KSA

ARAMCO Meeting

[PowerPoint Presentation given}

- ARAMCO gave an overview of its organization and current activities
- ARAMCO noted that its training institutes could be utilized for KKSA nuclear industry training

KFUPM Meeting

[PowerPoint Presentation given]

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Asharqia Chamber of Commerce Meeting

[KACARE PowerPoint Presentation on nuclear program given]
[SAGIA PowerPoint Presentation given]

- KACARE Presentation (key points + new information not specifically noted at April 23 Workshop with KACARE)
  - 2 sites selected for the large NPPs (no details provided)
  - 3 bidders for LNPP tender to be down selected soon
  - Site characterization study (18 months to complete) will be awarded soon
  - After Feed B process, KACARE will establish a Nuclear Holding Company and private sector JV (goal is to establish these by end of 2018)
  - Saudi Geological Survey to do a uranium survey in the Kingdom (Phase A). KACARE to do Phase B analysis
  - KSA cooperating with Jordan on uranium and yellow cake production (human capacity development)
  - ROK and France helping KSA with nuclear workforce development – KACARE working with U.S. to establish similar program later this year [potential ACTION ITEM]

- SAGIA Presentation (see presentation for details)
  - 373 U.S. companies engaged in the KSA ($270 billion in total investment)

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United States – Kingdom of Saudi Arabia
Commercial Civil Nuclear Engagement Road Map for 2018-2019

Updated: January 31, 2017 (v7)

Large Light Water Nuclear Project		
Area for Cooperation	**Activity**	**Location**
Site Characterization	Meetings with Rizzo, ENERCON to discuss site characterization capabilities. Meeting with NEI to discuss co-location of power plant with load centers.	Washington, DC Washington, DC
Applicable Codes and Standards	Meetings with ASME, IEEE, EPRI and ANS to discuss nuclear codes and standards.	Washington, DC
Local Saudi Business Partnering (i.e. equipment, components) and technology transfer	Forum(s) with U.S. suppliers to discuss potential areas for Saudi localization and U.S. nuclear industry experience with technology transfer and localization in other countries. Commerce Department certified U.S. Nuclear Executive Mission to Saudi Arabia to discuss potential areas of partnership with local businesses.	Washington, DC (or Atlanta, GA alongside NEA in May 2018) Riyadh, Saudi Arabia
Plant Security	Briefing with Nuclear Energy Institute (NEI) experts on physical and plant security.	Washington, DC (NEI) Phoenix, AZ or Memphis, TN

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DOE-19-0315, 19-0316, 19-0318-A-002754

	Visit to SAFER Center to discuss emergency preparedness.	
Grid Code Modification and Integration	Meeting with EPRI to discuss grid integration technologies for large power systems. Visits to Duke Energy and/or Dominion energy to discuss integration of power generation and distribution systems.	Charlotte, NC Charlotte, NC (Duke) Richmond, VA (Dominion)
Construction	Meeting with EPRI to discuss construction methods and lessons learned.	Charlotte, NC
Fuel Fabrication	Visit to WEC to discuss fuel fabrication and tour fuel fabrication facility.	Columbia, SC
Operational Excellence and Training	Visit to Institute of Nuclear Power Operations (INPO) to discuss industry practices to maintain operational readiness and excellence. Meeting with EPRI to discuss training.	Atlanta, GA
Energy Dispatch and Energy Trading	Visits to Duke Energy and Exelon Corporation to discuss energy dispatch and trading and to tour facility.	Charlotte, NC (Duke) Chicago, IL (Exelon)
Plant tours	Visit to Vogtle NPP to tour construction site of units 2 & 3 and operating unit.	Waynesboro, GA
Other facility tours	TBD	TBD

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Small Modular and Advanced Reactors		
Area for Cooperation	**Activity**	**Location**
Co-gen and desalination applications	Visit to NuScale Power to discuss latest applications of nuclear energy technology for co-generation and desalination.	Portland, OR
Co-gen and desalination applications	Visit to Idaho National Laboratory to discuss latest applications of nuclear energy technology for co-generation and desalination.	Idaho Falls, ID
SMR component manufacturing and testing	Visit to company facilities to discuss SMR design and manufacturing: NuScale Power Holtec International	 Corvallis, OR Camden, NJ
Small and advanced reactor technologies	Meetings/visits to discuss advanced reactor technologies: Advanced Reactor Concepts GE Hitachi Nuclear Energy NuScale Power Terrapower Terrestrial X-energy Holtec International	 Chevy Chase, MD Wilmington, NC Portland and Corvallis, OR Bellevue, WA Mississauga, ON or New York, NY Greenbelt, MD Camden, NJ
Fuel fabrication	Visit to Oak Ridge National Laboratory to discuss fuel fabrication for small and advanced reactor technologies.	Oak Ridge, TN

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Test facilities	TBD	TBD
Advanced manufacturing methods	Meet with EPRI to discuss advanced manufacturing methods for small and advanced reactor technologies.	Charlotte, NC

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Uranium mining/processing to yellowcake form		
Area for Cooperation	**Activity**	**Location**
Visit by uranium mining and conversion companies	Mining: visit to Cameco mine to discuss uranium production and tour facility. Meetings with Uranium Producers of America (UPA), Uranium Energy Corporation (UEC) to discuss uranium exploration and production. Processing: possible meetings with Centrus, Cameco Port Hope to discuss uranium conversion and enrichment.	Locations TBD

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Human capital development to support a successful, sustainable nuclear industry		
Area for Cooperation	**Activity**	**Location**
Education and R&D Infrastructure	Promote university collaboration and cooperation through ▪ U.S. faculty visit to KSA universities ▪ KSA faculty visit to U.S. universities ▪ Partner university program (e.g. joint teams for senior design projects) ▪ Distance learning ▪ Industry collaborative programs with universities (e.g. NuScale and OSU) Student engagement through student exchanges and ANS student conference Promote community college programs through Nuclear Uniform Curriculum Program (NUCP) visit to KSA (TVTC), program development workshops, internship development workshops Promote high school collaboration through teacher workshops, teacher exchanges, and E-learning opportunities Promote educational outreach through benchmarking best practices and K-12 program sharing.	Locations TBD
National Laboratory Cooperation	Promote world-class facility access through ▪ Facility tour of ORNL to view high flux isotope reactor	Locations TBD

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	and hot cells; high-performance computing and CASL; advanced/additive manufacturing R&D; spallation neutron source and historical graphite reactor; and molten salt reactor test loops. ▪ Facility tour of Idaho National Laboratory (INL) to view fast reactors; high temperature gas reactors; advanced test reactor; transient reactor test facility and hot cells; versatile neutron test reactor; high performance computing and Nuclear Energy Advanced Modeling and Simulation (NEAMS); and hybrid energy systems. ▪ Visit to Argonne National Laboratory (ANL) to discuss high-performance computing facilities and NEAMS, sodium coolant test loop and sodium-cooled fast reactor. ▪ Meeting at Pacific Northwest National Laboratory (PNNL) to discuss non-proliferation and safeguards development. Student internships, co-ops, practicums, fellowships International researchers: Post-doctoral research, joint appointments, academic visitors, faculty exchanges Workforce development and training K-12 programs and tools	
Incumbent Employee Training & Qualification	Engagement with nuclear suppliers, nuclear constructors and nuclear operators to discuss development of training and qualification programs.	Locations TBD

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	Meetings to discuss accreditation of programs, oversight and assessment models Meeting with EPRI to discuss job-specific technical training Meetings with NuScale, Westinghouse and other technology-specific training providers to discuss technology-specific training Engagement with U.S. utility, e.g., Exelon, to discuss mid-career job shadowing.	
Advanced Talent Development	Meetings with INPO to discuss leadership development and organizational development. Exchanges to promote executive development with MIT, Texas A&M, and NEI/INPO. Participation in NPI Emergency Preparedness and Response Course to promote policymaker and stakeholder development Meetings to discuss operational readiness, nuclear culture.	Locations TBD

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Creation of an appropriate regulatory environment and agency		
Area for Cooperation	**Activity**	**Location**
Creation of appropriate regulatory agency	Meetings with former NRC chairmen, e.g. Richard Meserve and Dale Klein, to gather additional perspectives on appropriate regulatory development. Meeting with NEI to gather additional perspective on appropriate regulatory development.	Washington, DC Washington, DC
Creation of appropriate regulatory environment	Visit to Institute of Nuclear Power Operations (INPO) to discuss industry practices to maintain operational readiness and excellence (see "Operational Excellence," above).	Atlanta, GA

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Document 21 Consisting of 1 page is an EXIM Equity transferred in full for direct response to the requester

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From: Scott, Michelle
To: Baham, Michael (CONTR)
Cc: Lennon, Sarah
Subject: RE: NE1 Memo - FEPC - 11-12-2018 at IFNEC_SLedits
Date: Thursday, November 8, 2018 6:23:00 PM
Attachments: NE1 Memo - METI Meeting at IFNEC - 11-12-2018_BV MLS edits.docx

---

Michael,

Attached are my changes to the commercial section, (b) (5)

I do want a copy of the memos that include industry.

Michelle

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6)

-----Original Message-----
From: Baham, Michael (CONTR)
Sent: Thursday, November 08, 2018 5:03 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: RE: NE1 Memo - FEPC - 11-12-2018 at IFNEC_SLedits
Importance: High

METI Memo:

-----Original Message-----
From: Lennon, Sarah
Sent: Thursday, November 08, 2018 4:38 PM
To: Baham, Michael (CONTR) <Michael.Baham@Nuclear.Energy.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: NE1 Memo - FEPC - 11-12-2018 at IFNEC_SLedits

Michelle, do you want to take a look at this memo? Any additions are welcome but need them soonest.
Thx,Sarah

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(b) (5)

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(b) (5)

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(b) (5)

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AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Hutchins, Scott (Embassy Riyadh
Cc: McKearin, Josh
Subject: RE: [EXTERNAL] Fwd: Plans for the Summer
Date: Sunday, March 3, 2019 8:41:24 AM

Thanks!

From: Hutchins, Scott G <HutchinsSG@state.gov>
Date: Sunday, Mar 03, 2019, 8:40 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McKearin, Josh <Josh.Mckearin@Hq.Doe.Gov>
Subject: [EXTERNAL] Fwd: Plans for the Summer

FYI

From: Kim Pringle (b) (6)
Date: March 3, 2019 at 14:59:10 GMT+3
To: Peddicord, Kenneth L <k-peddicord@tamu.edu>
Cc: Hutchins, Scott G <HutchinsSG@state.gov>, Mohammad Zakri
(b) (6)
Subject: RE: Plans for the Summer

(b) (4)

[redacted]

-----Original Message-----
From: Peddicord, Kenneth L [mailto:k-peddicord@tamu.edu]
Sent: Sunday, March 03, 2019 2:48 PM
To: Kim Pringle
Cc: Peddicord, Kenneth L; Scott Hutchins
Subject: Plans for the Summer

Dear Kim:

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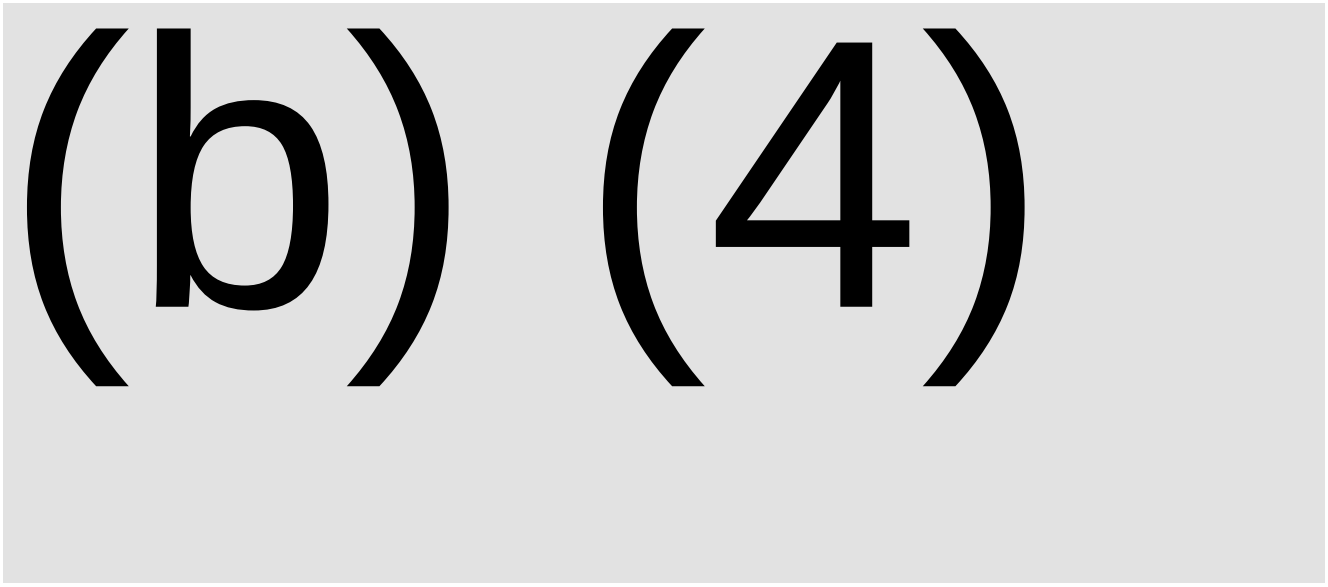

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تعتبر رسالة البريد الالكتروني هذه ومرفقاتها سرية وموجهة فقط للمرسل إليهم. ولا يجوز لأي شخص غير مخول بالإطلاع على محتوياتها أو إعادة إرسالها أو نشرها بأي وسيلة كانت وفي حال تلقي رسالة البريد الالكتروني هذه عن طريق الخطأ ، فإنه يرجى القيام فوراً بإخطار المُرسِل كتابياً بذلك عن طريق البريد الالكتروني وحذف رسالة البريد الإلكتروني هذه بكافة مرفقاتها. كما أن أية أراء أو إفادات مذكورة في رسالة البريد الإلكتروني هذه تعبر فقط عن رأي كاتبها و لا تعكس بالضرورة رأي" مدينة الملك عبدالله للطاقة الذرية والمتجددة" "المدينة". كما لا تضمن "المدينة" خلو رسالة البريد الإلكتروني هذه ومرفقاتها من أية عيوب فنية او فيروسات او ما في حكمهما ، ويبقى المتلقي لها وحده مسئولاً مسئولية كاملة عن ضمان ذلك، حيث أن "المدينة" لن تتحمل أي مسئولية عن أي أضرار قد يسببها عيب فني او فيروس وما في حكمهما يمكن أن تحتويه رسالة البريد الإلكتروني هذه.

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From: Hutchins, Scott G
To: Scott, Michelle
Subject: [EXTERNAL] FW: K.A.CARE WORKSHOP March 2-3, 2019
Date: Friday, March 8, 2019 9:37:12 AM
Attachments: Agenda of 2nd Preparatory Workshop_WEC_F.docx

Official
UNCLASSIFIED

Trade/Commerce Equity

From: Lopatto, Jeanne T. <lopattjt@westinghouse.com>
Sent: Monday, February 18, 2019 4:57 PM
To: Nasir Abbasi
Cc: Weir, Thomas J.; (MICHELLE.SCOTT@nuclear.energy.gov); Jonathan Chesebro; Devin Horne
Subject: K.A.CARE WORKSHOP March 2-3, 2019

Hello Nasir, hope you are doing well.

K.A.CARE invited Westinghouse to attend the second workshop of the FEED B Preparatory Phase in Riyadh on 02-03 /03/2019. The workshop will focus on the compliance of the Supplier Candidate's design with the Preliminary Key Requirements and

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include a session with the Regulatory Authority. The workshop will also include discussions with the Site Characterization Contractor concerning the available and upcoming site data.

The agenda for the two day event is attached. Would you or someone from the US Embassy like to attend for part of, or even all of the workshop? We would love to have USG support for the US team. Tom Weir (copied above) is leading our team for the visit to Riyadh. Thank you so much for considering participation. Jeanne Lopatto.

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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(b) (4)

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(b) (4)

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From: Hutchins, Scott G
To: Scott, Michelle
Subject: [EXTERNAL] FW: K.A.CARE Summer Employee Nuclear Program and Other Collaboration Opportunities with Texas A&M University
Date: Friday, March 8, 2019 9:22:41 AM

Official
UNCLASSIFIED

From: Peddicord, Kenneth L <k-peddicord@tamu.edu>
Sent: Sunday, March 3, 2019 11:08 PM
To: Kim Pringle (Al-Sahhaf) (b) (6) >; Mohammad Zakri (b) (6) >
Cc: Peddicord, Kenneth L <k-peddicord@tamu.edu>; Hutchins, Scott G <HutchinsSG@state.gov>
Subject: K.A.CARE Summer Employee Nuclear Program and Other Collaboration Opportunities with Texas A&M University

Dear Kim and Mohammed:

I appreciate the excellent discussions today. Let me outline what I think are the principal outcomes"

K.A.CARE Summer Employee Nuclear Program

Dates: July 8-19

Locations: College Station and Bay City, Texas

Participants: K.A.CARE engineers

Program: The template will be the International Nuclear Executive Leadership Program that was offered in 2018 and will again take place beginning March 25, 2019. However the program will be re-focused on the interests and needs of the K.A.CARE group. The program will be tailored to meet the interests and requirements of K.A.CARE. A draft will be developed for discussion. The assumption is that the participants are engineers with degrees in engineering fields other than nuclear engineering. The program will include presentations, laboratory tours, and interaction with industry and national laboratories. The possibility is being explored of a visit to the Vogtle Nuclear Power Plant to see the construction of the two AP1000's reactors.

Costs: The cost model will be the same as what is used for the IAEA programs. It consists of the following:
1. Travel: The Agency covers the costs and makes the arrangements from the country of origin to College Station, Texas. It is possible to fly to College Station (airport designator "CLL") either through Dallas-Fort Worth (DFW) using American Airlines, or through Houston Interontinental Airport (IAH) on United Airlines. An alternative for the leg from the Houston Airport to College Station is the Groundshuttle Service, website , one-way rates are $45. This includes drop off at the hotel.

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2. Lodging and Meals: The IAEA has a formula for the Daily Subsistence Allowance or DSA. This covers the hotel and meals. We usually use the Staybridge Suites Hotel, 1405 University Drive East, College Station, Texas 77840, telephone +1-979-485-2950, website "www.staybridgesuites.com/collegestation", and E-mail "sales.staybridgebcs@gmail.com". Their rates are quite reasonable but we will have to check on availability since the summer is a very busy time.

3. Program Costs: With the IAEA, we have the following arrangements for program costs. It has two components. The rate is $1,300 per participant per week on for twenty participants, or a cost of $26,000 for one week and $52,000 for two weeks. If the number of participants exceeds twenty, then there is an additional cost of $1,300 per participant per week for each additional participant. This covers all costs associated with putting on the program inckuding lecturers, tours and other elements of the program. The basis for this is that there are fixed costs that are independent of how many come, so the IAEA has agreed to pay the fixed price for the program even in the event that then send fewer than twenty participants. Then with the IAEA, we have arrangeements for an additional transportation fee for all transportation that takes place as part of the program. This includes pick up each day from the hotel, transportation to the location of the day's program, tours and other incidental transportation, e.g. transportation for local shopping trips seem to be popular!! The transportation allowance is $300 per week per participant based on 20 participants, or a total of $6,000 per week for the program and $12,000. If it there are more than 20 participants, then there is an additional $300 per participant per week because we have to rent more buses or vehicles to take care of everyone. As I mentioned, the above rates have been agreed upon with the IAEA. Once a program is underway, we then send the IAEA an invoice and they do a bank transfer through the Well Fargo Bank in San Francisco. I can send along the bank transfer information whenever you need it.

This afternoon after the close of the program, I had a chance to talk with about six of the young engineers. I think several had gone to Korea as part of the SMART engagement. I mentioned this program in July and they were very enthusiastic. I urged them to talk with you about it. We'll develop a first draft of a suggested program shortly so you can begin to look at it and provide comments.

NPI Online Certificate Program

The online certificate program consists of the four courses we discussed—Nuclear Power Plant Fundamentals, Nuclear Power Plant Systems with a focus on the PWR, Nuclear Power Plant Operations, and the Human Performance Requirements in the Nuclear industry with a focus on the safety culture. These are offered on a semester basis. Plus Fundamentals is offered in the summer. The summer session begins at A&M on May 28. This would be the next opportunity to enroll. The fall semester begins on August 26. More information and the application can be found at the website https://npi.tamu.edu/college-and-beyond/certificate-program/. The cost is $1,500 per student for each course. Typically the sequence is taken over four semesters, but that is not a limitation. The lectures are recorded and offered on an asynchronous basis, so there is not a problem due to the time difference. I will connect you with Dr. Galina Tsvetkova who coordinates the certficiate program. Applying and getting enrolled is extremely simple and direct.

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Masters of Engineering in Nuclear Engineering in Nuclear Technology Management

This is the brochure I passed along. I think it is pretty self-explanatory. But in any case I will connect you with Dr. Cable Kurwitz who coordinates this program. I think he will be able to provide any further information. We are aiming to start this program with the fall semester of this year.

Two week program for KFUPM and other students from the Kingdom

As we discussed, I'd like to aim to do this in the spring semester while A&M is in session. Our spring semester for 2020 begins on January 13 and ends on April 28. Our spring break is on March 9-13. Hopefully during the semester there might be a good time for that would work for students from the Kingdom. That way we could integrate the students together. I expect we would use a similar approach for a two week program to what we will be doing in July, but again refocused to students rather than young professionals. One potential outcome might be for a "study abroad" or "international field trip" for our A&M students to come to Saudi Arabia after the close of the spring semester in May. Our spring semester ends on May 5. That might be a quite nice way to link Saudi and U.S. students in a very vibrant and dynamic way.

Other possibilities

We discussed co-op programs, perhaps a research semester in Texas, teacher exchanges, outreach programs, time at Idaho National Laboratory and the Westinghouse TRaining Center in Pittsburg, and a number of other things, in addition to traditional M.S.and Ph.D. programs. You mentioned the new Master's program in Nuclear Engineering at King Saud University and maybe that would be another avenue for collaboration. I think there are other possibiilites as well. I hope if the Study Tour comes to pass, we can look into numerous ways to move forward together.

But I am excited because the K.A.CARE Summer Employee Nuclear Program should be an excellent way to kick things off.

Looking forward to hearing your thoughts.

Great vist. I think this can be an outstanding partnership.

All the best,

Lee

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Document 4
Consisting of 55 pages is an International Trade Administration Equity transferred in full for direct response to the requester

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From: Peddicord, Kenneth L
To: McGinnis, Edward; Scott, Michelle
Cc: Peddicord, Kenneth; Hutchins, Scott (Embassy Riyadh; John W. Crenshaw; Hollar, Tami D
Subject: [EXTERNAL] Proposed Program with K.A.CARE
Date: Friday, April 5, 2019 3:05:36 PM
Attachments: K.A. CARE. Draft Agenda & Program. Word. March, 31, 2019-v. #2.docx

---

Ed and Michelle:

Attached is the proposed program for 10-15 young engineers at K.A.CARE for July. This was the result of a conversation at the recent FEED B workshop with Westinghouse, Four and Exelon. The program has been developed by John Crenshaw, former VP at STP. He worked with Carl Churchman and Tom Weir on putting it together.

I talked with Kim Pringle about this on Wednesday. She was in Paris. When she gets back, she will be reviewing this with her management. She will also get together with Zaid Al Shareef from K.A.CARE who just finished up on Wednesday with our International Nuclear Executive Leadership Seminar—20 people from 12 countries. Zaid will be able to give her some perspectives on how we organize and run our programs.

Will let you know how this proceeds.

Lee

****
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Use caution if this message contains attachments, links or requests for information.
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TEES | TEXAS A&M ENGINEERING EXPERIMENT STATION

NPI NUCLEAR POWER INSTITUTE

TEXAS A&M UNIVERSITY

Program & Agenda

K.A.CARE Summer Employee Nuclear Program

Nuclear Power Fundamentals
Developing and Operating a Nuclear Power Plant

King Abdullah City for Atomic and Renewable Energy (K.A.CARE)

Nuclear Power Institute
College Station, Texas
July 8 – 22, 2019

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Seminar Purpose and Overview: The Nuclear Power Institute (NPI) at Texas A&M University is hosting a seminar aimed at providing development opportunities for K.A.CARE engineering professionals involved in the initiative for nuclear power generated electricity. This program is designed and structured to provide a fast track, broad overview of nuclear power fundamentals associated with the selection, planning, construction, and operation of nuclear power electric generating facilities.

Nuclear Power Fundamentals - Developing and Operating a Nuclear Power Plant will be conducted over a sixteen (16) consecutive day period at Texas A&M University in College Station, Texas; South Texas Project Electric Generating Station near Bay City, Texas; and the Alvin W. Vogtle NPP – AP1000 project near Augusta, Georgia. The curriculum is structured using university, industry, and government experts and uses varied delivery methods including lectures, facilitated discussions, narrated tours, case studies, interactive meetings, round table discussions, and question and answer (Q&A) sessions.

An NPI professional staff member with extensive nuclear power construction and operating experience will serve as the seminar leader, facilitator, and mentor, and participate in classroom and field exercises. NPI and industry professionals will assist and guide participants throughout the seminar.

Key topical areas for the seminar will include:

Introductory Overviews

- Nuclear physics, reactor theory, and reactor fundamentals,

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- Key active and passive plant systems,
- Nuclear power plant operations,
- Nuclear safety culture and a safety conscious work environment, and
- Key international nuclear organizations (International Atomic Energy Agency and World Association of Nuclear Operators).

NPP Development

- IAEA - Milestones in the Development of a National Infrastructure for Nuclear Power
- Economics and financing,
- Selecting a reactor plant supplier and engineering-procurement-constructor (EPC) partner
- Engineering-Procurement-Construction (EPC) contract key terms and negotiations,
- Trends with NPP development and financing,
- Government to government agreements and intergovernmental agreements,
- Country risks,
- Reputational risk considerations for NPP development, and
- Business case for small modular reactors (SMRs).

Managing the Project

- Customer/Owner scope and roles,
- Knowledgeable customer capability and oversight during construction,
- Stakeholder management, and
- Why megaprojects have problems.

Managing the Operating Plant

- Engineering roles for a NPP,
- The nuclear fuel cycle, including used fuel management for the interim and long term,
- Nuclear security and emergency preparedness/incident response,
- Probabilistic risk assessment (PRA),
- Health physics and radiation protection, and
- Nuclear work force needs and development.

Putting It All Together

- Applying operating experience, lessons learned, and applying change management,
- Case Study 1: A Problematic NPP Mega Project, and
- Case Study 2: The Fukushima-Daiichi Accident.

Tours – facilitated by topical experts – will include:

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- Texas A&M Engineering Extension Service's (TEEX) Fire Field, Disaster City, and Emergency Operations Training Center, which is used by industry to train for incident response
- Texas A&M University Nuclear Science Center (research reactor) and Nuclear Engineering Laboratories
- South Texas Project (STP) Electric Generating Station (operating nuclear power plant)
- Two (2) NPP emergency response management facilities – STP Electric Generating Station's Emergency Operations Facility (EOF) and Joint Information Center (JIC)
- Alvin Vogtle Electric Generating Station where two new AP1000s are under construction

An in-class critique session will be conducted at the end of week-2 and will include both verbal and written feedback. The results from this critique will be used to improve the future delivery of this seminar.

A banquet dinner will be hosted for the participants, where certificates of completion will be awarded.

Learning Objectives:

1. Understand basic nuclear physics and reactor theory, reactor fundamentals, critical plant operating systems and their purpose, and operating plant fundamentals so that there is strong recognition of how nuclear is special and unique.
2. Recognize the importance of and key tenets for establishing and maintaining a strong nuclear safety culture to ensure safe, long-term operation.
3. Appreciate the importance of leveraging organizational lessons learned from problematic new-build projects and significant plant events to foster a continuous improvement mindset.
4. Understand the key inputs and practices to achieve and maintain an effective plant security and emergency preparedness program.
5. Recognize key inputs and strategies when evaluating the economics and financing for a new NPP.
6. Apply strategies for a successful Engineering-Procurement-Construction (EPC) contract, including establishing key terms and evaluating risk sharing.
7. Understand the owner's roles, interfaces, and necessary skill sets during NPP construction.
8. Gain insight to the preparatory work and management programs that are required by the owner and operator as they prepare for plant startup and operation.
9. Develop a lasting network for the participants to rely upon for benchmarking and sharing lessons learned.

Transportation and Hotel Accommodations:

Travel logistics will be further developed once/if this program is implemented. Participants can assume:

- Air travel from Saudi Arabia to Houston, Texas; Houston to Atlanta (or Augusta), Georgia; and Atlanta (or Augusta) back to Saudi Arabia.

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- Ground travel and hotel accommodations will be developed by NPI. Ground transportation from Houston's Bush Intercontinental Airport (IAH) to College Station will be by commercial shuttle. The remaining segments in Texas and Georgia will be coordinated or provided by NPI.

Dress Attire Recommendations:

Appropriate attire for the seminar class room and tours is generally "business casual". Participants should wear "business" attire for the individual and group pictures. Casual attire is encouraged during evenings after classroom time, for classroom on Saturday and Sunday, and for travel days when we are not visiting a facility. Participants are required to wear closed toe shoes (and no high heels) during all tours for safety considerations.

Homework Assignment:

Participants are required to read the following publications prior to arrival in College Station. These documents will be referred to and applied during the seminar.

- WANO Principles, 2013-1 (2013, May). *Traits of a Healthy Nuclear Safety Culture.* Retrieved from https://www.wano.info/resources/traits-of-a-healthy-nuclear-safety-culturee
- IAEA Safety Standards, No. SF-1. *Fundamental Safety Principles.* Retrieved from https://www-pub.iaea.org/MTCD/publications/PDF/Pub1273-web.pdf
- IAEA Nuclear Energy Series, No. NG-G-3.1 (Rev. 1), Milestones in the Development of a National Infrastructure for Nuclear Power. Retrieved from https://www-pub.iaea.org/MTCD/Publications/PDF/Pub1704_web.pdf
- The CARNEGIE Papers, Acton, J. and Hibbs, M. (2012, March). *Why Fukushima Was Preventable*. Retrieved from https://carnegieendowment.org/2012/03/06/why-fukushima-was-preventable-pub-47361
- National Center for Case Study Teaching in Science, Carle, B. (2015, September). *Nuclear Meltdown in Fukushima: Human Accident or Natural Disaster?* Retrieved from http://sciencecases.lib.buffalo.edu/cs/files/fukushima.pdf

Agenda:

Sunday, 7 July — **Houston / College Station, Texas**

- Participants arrive at George Bush Intercontinental Airport (IAH), Houston, Texas and travel via ground transport to the specified hotel in College Station, Texas.

Monday, 8 July — **Emerging Technologies Building (ETB) Room 3002**

- Welcome to the ***Nuclear Power Fundamentals - Developing and Operating a Nuclear Power Plant***
- Safety minute, agenda review, and seminar logistics
- Introduction to Nuclear Physics and Reactor Theory
- Large Power Reactor Fundamentals
- Traits of a Healthy Nuclear Safety Culture

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- Participant and Group Photographs

Tuesday, 9 July **ETB Room 3002**

- Nuclear Power Plant System, Active Design
- Nuclear Steam Supply System (NSSS) – Passive Design
- Nuclear Power Instrumentation Systems
- Nuclear Power Plant Operations

Wednesday, 10 July **ETB Room 3002**

- The Nuclear Fuel Cycle
- Nuclear Procurement and Supply Chain
- Introduction to the International Atomic Energy Agency (IAEA)

Thursday, 11 July **ETB Room 3002**

- NPP Development:
  - Economics
  - Financing
  - Selecting a reactor supplier and EPC partner
  - Contracting and ownership structures
  - Contract key terms and negotiations
  - Trends with NPP development and financing
  - Owner's roles including the owner's engineer
  - Knowledgeable customer capability and oversight during construction
  - Business case for small modular reactors (SMRs)
  - Country risks and reputational risk
  - Nuclear Liability

Friday, 12 July **ETB Room 3002**

- NPP Development – Continued

- The Owner's Role:
  - Owner's Scope of Work
  - Role of the Owner's Engineer
  - Construction Oversight
  - Importance of Clearly Defined Roles and Alignment
  - Site Planning

Saturday, 13 July **College Station, Texas**

- Day off to rest

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Sunday, 14 July **ETB Room 3002**

- A Case Study: A Problematic NPP Mega Project

Monday, 15 July **STP Electric Generating Station, CED, EOF and JIC; Judge's Chambers**

- Nuclear Safety and Regulation
- Opportunities at the Idaho National Laboratory (INL)
- Probabilistic Risk Assessment (PRA)
- Milestones in the Development of a National Infrastructure for Nuclear Power (IAEA No. NG-G-3.1)

Tuesday, 16 July **ETB 3002**

- The 3S': Roles and Responsibilities of People/Organizations for Nuclear Safety, Security, and Safeguards
- Fire Field, Disaster City, and Emergency Operations Training Center Tour
- Radiation Protection

Wednesday, 17 July **ETB 3002**

- WANO and Industry Shaping Events
- A Case Study: The Fukushima-Daiichi Accident
- Tour the Nuclear Science Center and NUEN Laboratories

Thursday, 18 July **Travel / Bay City, Texas**

- Ground travel from College Station to Bay City, Texas
- STP Lunch and Learn – North American Young Generation in Nuclear (NAYGN)
- STP Electric Generating Station – Briefing and plant tour (requires passport photos 60 days prior)

Friday, 19 July **Bay City, Texas**

- Briefing, Tour of the STP Emergency Operations Facility (EOF) and Joint Information Center (JIC)
- A Highly Skilled Nuclear Power Workforce
- Roles of a Nuclear Power Plant Engineer
- Meeting with County Judge, Matagorda County, Texas
- Seminar Critique and Feedback
- Banquet

Saturday, 20 July **Travel / Cultural Experience**

- Optional: Shopping at Wild Bill's cowboy clothing store
- Ground travel from Bay City to Houston, Texas
- Baseball Game / 6:10 PM / Houston Astros – versus the – Texas Rangers, Minute Maid Stadium

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Sunday, 21 July **Travel Day**

- Travel from Houston to Atlanta, Georgia, then on to Augusta, Georgia

Monday, 22 July **Waynesboro, Georgia / Alvin W Vogtle Nuclear Generating Station**

- Vogtle Project Briefing and Safety Pre-job Briefing
- Vogtle Unit 3 & 4 AP1000 Project Tour
- AP1000 Simulator Visit
- Facilitated Group Discussion – What Did We See and Learn?
- Farewells / Seminar Adjourned

Tuesday, 23 July

- Depart for Atlanta Airport

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DOE-19-0315, 19-0316, 19-0318-A-002845

From: Cameron Dorsey
To: Scott, Michelle; Devin Horne; Jonathan Chesebro
Subject: (b) (4)
Date: Monday, April 8, 2019 1:08:59 PM
Attachments: (b) (4)

(b) (5)

Cameron Dorsey
U.S. Department of Commerce
The Advocacy Center
Office: 202-482-8225
Mobile: (b) (6)

Important Notice Regarding Confidentiality of Applicant Information: **This message may contain business confidential information.** Unauthorized disclosure of business confidential information is prohibited under the Trade Secrets Act, 18 U.S.C. § 1905, and may be subject to criminal penalties. Unauthorized disclosure of such information to an applicant's current or potential competitor(s) is of particular concern. If you have a question about the permissibility of a disclosure, or about whether an unauthorized disclosure may have occurred, whether inadvertent or not, please contact your agency's legal office responsible for Trade Secrets Act matters. **This notice should be included in any re-transmission of an applicant's information within other parts of your agency or to other USG agencies.**

From: Duvall, Suzanne B <duvallsb@westinghouse.com>
Sent: Monday, April 8, 2019 12:57 PM
To: Derek Schlickeisen <Derek.Schlickeisen@trade.gov>
Cc: Americo Tadeu <Americo.Tadeu@trade.gov>; Cameron Dorsey <Cameron.Dorsey@trade.gov>; Lopatto, Jeanne T. <lopattjt@westinghouse.com>
Subject: (b) (4)

(b) (4)

Suzanne B. Duvall
Director, Government & International Affairs

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Westinghouse Electric Company
1775 Pennsylvania Avenue, NW, Suite 250
Washington, DC 20006 USA
Phone: +1 (202) 945-6416
Email: duvallsb@westinghouse.com
Home Page: www.westinghousenuclear.com

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From: Valderrama, Billy (CONTR)
To: Scott, Michelle; Crosland, Armando (LAB)
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits
Date: Friday, April 19, 2019 10:00:09 AM
Attachments: 2019-04-17 - Talking Points - S1 Meeting with WEC_mb comments NE Edits_BV edits.docx
2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits_BV edits.docx

Hi Michelle,

Attached are minor edits and comments.

Thanks,
Billy

From: Scott, Michelle
Sent: Friday, April 19, 2019 9:24 AM
To: Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Can you both take look to see if I miss anything.

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José Emeterio Gutiérrez
President and Chief Executive Officer
Westinghouse Electric Company



José Emeterio Gutiérrez was named president and chief executive officer in June 2017.

Prior to being named to the company's highest leadership role, Mr. Gutiérrez led the Westinghouse global Nuclear Fuel and Components Manufacturing (NF&CM) organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and global nuclear supply chain services to a global customer base.

Mr. Gutiérrez, who also had been a member of the Westinghouse Board of Directors, will retain his role on the board as the president and CEO.

Prior to serving as senior vice president of NF&CM, which he assumed in April 2012, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States.

He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st (continuous improvement) Green Belt.

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Ron Bloom
Managing Partner, Private Equity
Brookfield



Ron Bloom is a Managing Partner and Vice Chair in Brookfield's Private Equity Group, responsible for investment origination, analysis and execution across North America.

Prior to joining Brookfield, Mr. Bloom was Vice Chairman, U.S. Investment Banking, at Lazard, focused on restructurings, and mergers and acquisitions. Prior to that, he served as Assistant to the President for Manufacturing Policy where he provided leadership on policy development and strategic planning for the Administration's agenda to revitalize the manufacturing sector. Prior to joining the White House, Mr. Bloom served as Senior Advisor to the Secretary of the Treasury where he helped lead the restructuring of General Motors and Chrysler LLC, and then led the Treasury's oversight of the companies thereafter.

Mr. Bloom received his undergraduate degree from Wesleyan University and holds an MBA from Harvard Business School, where he graduated with distinction.

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From: Crosland, Armando (LAB)
To: Scott, Michelle; Valderrama, Billy (CONTR)
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits
Date: Friday, April 19, 2019 10:11:39 AM
Attachments: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits_BV_AC edits.docx

Edits to the memo, will have the talking points soon

From: Scott, Michelle
Sent: Friday, April 19, 2019 10:05 AM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>; Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Okay.

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Crosland, Armando (LAB)
Sent: Friday, April 19, 2019 10:04 AM
To: Scott, Michelle <michelle.scott@nuclear.energy.gov>; Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Michelle, I'm adding my edits to the document with Billy's edits. Will have it to you shortly.

From: Scott, Michelle
Sent: Friday, April 19, 2019 10:03 AM
To: Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Thanks Billy (b) (5)

Michelle L. Scott
Senior Advisor for Commercial Activities

AMERICAN OVERSIGHT

Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Valderrama, Billy (CONTR)
Sent: Friday, April 19, 2019 10:00 AM
To: Scott, Michelle <michelle.scott@nuclear.energy.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

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From: Scott, Michelle
Sent: Friday, April 19, 2019 9:24 AM
To: Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Can you both take look to see if I miss anything.

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José Emeterio Gutiérrez
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Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st (continuous improvement) Green Belt.

AMERICAN OVERSIGHT

Ron Bloom
Managing Partner, Private Equity
Brookfield



Ron Bloom is a Managing Partner and Vice Chair in Brookfield's Private Equity Group, responsible for investment origination, analysis and execution across North America.

Prior to joining Brookfield, Mr. Bloom was Vice Chairman, U.S. Investment Banking, at Lazard, focused on restructurings, and mergers and acquisitions. Prior to that, he served as Assistant to the President for Manufacturing Policy where he provided leadership on policy development and strategic planning for the Administration's agenda to revitalize the manufacturing sector. Prior to joining the White House, Mr. Bloom served as Senior Advisor to the Secretary of the Treasury where he helped lead the restructuring of General Motors and Chrysler LLC, and then led the Treasury's oversight of the companies thereafter.

Mr. Bloom received his undergraduate degree from Wesleyan University and holds an MBA from Harvard Business School, where he graduated with distinction.

AMERICAN OVERSIGHT

From: Crosland, Armando (LAB)
To: Scott, Michelle; Valderrama, Billy (CONTR)
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits
Date: Friday, April 19, 2019 10:16:13 AM
Attachments: 2019-04-17 - Talking Points - S1 Meeting with WEC_mb comments NE Edits_BV_AC edits.docx

Edits to the talking points

From: Crosland, Armando (LAB)
Sent: Friday, April 19, 2019 10:12 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Valderrama, Billy (CONTR) <Billy.Valderrama@Nuclear.Energy.Gov>
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Edits to the memo, will have the talking points soon

From: Scott, Michelle
Sent: Friday, April 19, 2019 10:05 AM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>; Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Okay.

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Crosland, Armando (LAB)
Sent: Friday, April 19, 2019 10:04 AM
To: Scott, Michelle <michelle.scott@nuclear.energy.gov>; Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Michelle, I'm adding my edits to the document with Billy's edits. Will have it to you shortly.

From: Scott, Michelle
Sent: Friday, April 19, 2019 10:03 AM
To: Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

AMERICAN OVERSIGHT

Thanks (b) (5)

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

From: Valderrama, Billy (CONTR)
Sent: Friday, April 19, 2019 10:00 AM
To: Scott, Michelle <michelle.scott@nuclear.energy.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: RE: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Hi Michelle,

Attached are minor edits and comments.

Thanks,
Billy

From: Scott, Michelle
Sent: Friday, April 19, 2019 9:24 AM
To: Valderrama, Billy (CONTR) <billy.valderrama@nuclear.energy.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: 2019-04-18 - Memo - S1 Meeting with Westinghouse NE Edits

Can you both take look to see if I miss anything.

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From: Crosland, Armando (LAB)
To: Richards, Andrew
Subject: WeC memo and tps
Date: Friday, April 19, 2019 10:56:00 AM
Attachments: 2019-04-19 - Memo - S1 Meeting with Westinghouse - NE Edits.docx
2019-04-19 - Talking Points - S1 Meeting with WEC_TPs - NE Edits.docx

---

Andrew,

Its Michelle typing from Armando computer since mine DIED. Attached are the memo and tps.

Armando Crosland
Office of International Nuclear Energy Policy and Cooperation
U.S. Department of Energy
(O): 202-586-3357
(E): Armando.Crosland@Nuclear.Energy.Gov

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

José Emeterio Gutiérrez
President and Chief Executive Officer
Westinghouse Electric Company



José Emeterio Gutiérrez was named president and chief executive officer in June 2017.

Prior to being named to the company's highest leadership role, Mr. Gutiérrez led the Westinghouse global Nuclear Fuel and Components Manufacturing (NF&CM) organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and global nuclear supply chain services to a global customer base.

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AMERICAN OVERSIGHT

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Managing Partner, Private Equity
Brookfield



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AMERICAN OVERSIGHT

From: Scott, Michelle
To: Cameron Dorsey; Devin Horne; Jonathan Chesebro
Subject: (b) (4)
Date: Tuesday, April 23, 2019 3:18:00 PM

No worries. (b) (5) . we will do so the next meeting.

Trade/Commerce Equity

Trade/Commerce Equity

From: Duvall, Suzanne B <duvallsb@westinghouse.com>
Sent: Monday, April 22, 2019 4:10 PM
To: Amy Tabine <Amy.Tabine@trade.gov>
Cc: Lopatto, Jeanne T. <lopattjt@westinghouse.com>

AMERICAN OVERSIGHT

Subject: (b) (4)

(b) (4)

Suzanne B. Duvall
Director, Government & International Affairs

Westinghouse Electric Company
1775 Pennsylvania Avenue, NW, Suite 250
Washington, DC 20006 USA
Phone: +1 (202) 945-6416
Email: duvallsb@westinghouse.com
Home Page: www.westinghousenuclear.com

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Trade/Commerce Equity

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From: Duvall, Suzanne B <duvallsb@westinghouse.com>
Sent: Monday, April 22, 2019 4:10 PM
To: Amy Tabine <Amy.Tabine@trade.gov>
Cc: Lopatto, Jeanne T. <lopattjt@westinghouse.com>
Subject: (b) (4)

(b) (4)

AMERICAN OVERSIGHT

(b) (4)

,

Suzanne B. Duvall
Director, Government & International Affairs

Westinghouse Electric Company
1775 Pennsylvania Avenue, NW, Suite 250
Washington, DC 20006 USA
Phone: +1 (202) 945-6416
Email: duvallsb@westinghouse.com
Home Page: www.westinghousenuclear.com

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

From: Peddicord, Kenneth L
To: Carl Churchman; Thomas Weir; johncrenshaw@tamu.edu
Cc: Hutchins, Scott (Embassy Riyadh; Kurwitz, Richard Cable
Subject: [EXTERNAL] Saudi Group Will Not Be Coming in July
Date: Thursday, May 2, 2019 10:56:38 AM

Carl, Tom and John:

I spoke with Kim Pringle this morning. She indicated that the group of 10 to 25 young engineers from K.A.CARE will not be coming to the U.S. in July. This is based on a decision by their management committee that with all the activities associated with the FEED B process and the tasks facing K.A.CARE, they are holding back on all training opportunities that would take personnel away at this time. Another factor as well is the somewhat slow pace of the process. The decision making has been further hampered by some health issues that Kim is dealing with that has kept her away from the office. She just not, for example, yet had a chance to visit with Zaid Al Shareef about his experiences here as part of INELS last month. I am confident that she would have received quite positive feedback about the value of the session and how it would contribute to the professional development of the young K.A.CARE engineers. That conversation might have impacted their decision making, but it hasn't taken place. I told Kim that if things developed in their thinking about these training opportunities, we would be pleased to work with them to try to organize this program at some future date. But right now the July program will not be taking place. Have Y'All heard any more on the FEED B process?

On another note, as you may be aware, Texas A&M University is in the process of developing a new Masters of Engineering degree in Nuclear Engineering in Nuclear Technology Management. Cable Kurwitz of our Department is leading this effort. John Crenshaw has also been heavily involved with the development. This will be a distance delivery degree program that we are aiming to kick off in the fall. I discussed this with Kim when we were last in Riyadh and we talked about during the INELS program. The reason I bring this up is because Dr. Kurwitz has received two inquiries from K.A.CARE expressing interest in the degree. These came from Meshari Al Juraysi and Fares Al Blouwy. Zaid Al Shareef has also inquired. Interestingly enough, they received notifications about it from the IAEA. I think this is a quite good sign that this kind of interest is coming from individuals K.A.CARE. We'll see how this develops

More soon, I hope.

Best regards,

Lee

Sent from my iPhone

****
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Use caution if this message contains attachments, links or requests for information.
****

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From: Garrish, Theodore
To: McCormack, Brian
Subject: RE: (b) (4)
Date: Monday, May 6, 2019 8:29:00 AM

Now that I read this, (b) (5)

From: McCormack, Brian
Sent: Sunday, May 05, 2019 4:50 PM
To: Garrish, Theodore <theodore.garrish@hq.doe.gov>
Subject: FW: (b) (4)

From: McCormack, Brian <brian.mccormack@hq.doe.gov>
Date: Friday, May 03, 2019, 12:59 PM
To: Garrish, Theodore <Theodore.Garrish@hq.doe.gov>, Dan Wilmot (Dan.Wilmot@hq.doe.gov) <Dan.Wilmot@hq.doe.gov>
Subject: FW: (b) (4)

-----Original Message-----
From: Hazmi, Fuad A [mailto(b) (6)
Sent: Thursday, May 02, 2019 9:03 PM
To: McCormack, Brian <brian.mccormack@hq.doe.gov>; theodore.garrish@hq.doc.gov
Subject: (b) (4)

(b) (4)

AMERICAN OVERSIGHT

(b) (4)

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Document 15 Consisting of 3 pages is a State Equity and International Trade Administration Equity transferred in full for direct response to the requester

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State Equity

Trade/Commerce Equity

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Document 16
Consisting of 4 pages is an International Trade Administration Equity transferred in full for direct response to the requester

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Trade/Commerce Equity

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From: Scott, Michelle
To: (b) (6)
Date: Friday, October 27, 2017 10:35:22 PM
Attachments: 2017-10-26 Letter for KACARE President Dr Yamani.pdf
EXEC-2017-007620 Saudi Arabia EOI-RFI Incoming.pdf

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

AMERICAN OVERSIGHT

MARIA KORSNICK
President and Chief Executive Officer
1201 F Street NW, Suite 1100
Washington, DC 20004
P: 202.739.8187
mgk@nei.org
nei.org

NUCLEAR ENERGY INSTITUTE

November 1, 2017

His Excellency Dr. Hashim A. Yamani
President
King Abdullah City for Atomic & Renewable Energy
P. O. Box 2022
Riyadh 11451
Kingdom of Saudi Arabia

Dear Dr. Yamani:

On behalf of the Nuclear Energy Institute (NEI), the policy organization of the U.S. nuclear energy industry[1], I congratulate you on the forthcoming Saudi tender for two nuclear power plants and extend the fullest possible support of the U.S. nuclear industry.

In particular, I propose a program to deepen commercial nuclear engagement between our countries, including official nuclear energy trade missions between Saudi Arabia and the United States.

Our industry is eager to partner in Saudi Arabia's ambitious nuclear energy development plans and offers unmatched capabilities. No nation has a stronger record in nuclear energy partnership than the United States. And no nation can match the U.S. nuclear energy industry's capabilities in human capital development, nuclear safety, and innovation.

Advanced large reactors. The U.S. nuclear energy industry, the progenitor of more than 60 percent of the world's 448 operating reactors,[2] has continued to innovate and develop large light water reactor designs that are even safer, more efficient and easier to construct than our existing fleet of 99 plants.

[1] The Nuclear Energy Institute is responsible for developing public and regulatory policy for the commercial nuclear industry in the United States. NEI's members represent a broad spectrum, including every U.S. energy company that operates the 99 nuclear power reactors in 30 states. Our membership also includes electric utilities, large suppliers, engineering and consulting firms, nuclear fuel cycle companies, national laboratories, universities, manufacturers of radiopharmaceuticals, labor unions and law firms from across the United States and from 19 countries.

[2] Almost half of all nuclear power plants are based on Westinghouse pressurized water technology, and nearly 20 percent are based on General Electric boiling water technology. Many of the 60 nuclear plants under construction around the world rely on U.S. companies for reactor designs, engineering, precision components, high-performance nuclear fuel and more.

AMERICAN OVERSIGHT

DOE-19-0315, 19-0316, 19-0318-A-002922

Advanced large reactor designs include the Westinghouse AP1000, the GE Hitachi Nuclear Energy Advanced Boiling Water Reactor, and the GE Hitachi Nuclear Energy Economic Simplified Boiling Water Reactor (ESBWR). The Westinghouse AP1000, under construction in China and in the United States, incorporates enhanced safety features and increases operational efficiency and constructability. And the GE Hitachi ESBWR offers advanced passive safety features and has been design-certified by the U.S. Nuclear Regulatory Commission (NRC) since 2014.

The U.S. industry is eager to partner with Saudi Arabia beyond large LWRs and across the nuclear value chain, including:

- **Small and advanced reactors**. U.S. innovation in small and advanced reactor designs projects U.S. leadership for the next generation of nuclear power. Most advanced of the multiple U.S. companies offering advanced SMR designs is NuScale Power, which has the first SMR design under review by the U.S. NRC. Backed by the U.S. Department of Energy, the NuScale reactor is planned to be built first at the Idaho National Laboratory for commercial operation by 2026. Multiple U.S. companies are developing next-generation high-temperature gas reactors, molten salt reactors and liquid metal-cooled reactors in coordination with the U.S. NRC and with support from the U.S. Department of Energy. These designs promise gains in safety, fuel efficiency, waste reduction, and flexibility in application and operation.
- **Full range of products and services**. From the beginning to the end of a nuclear power station's life, U.S. industry provides the highest standard of products and services – from legal and regulatory support to engineering and construction, operation, precision component manufacturing, fuel services, decommissioning and used-fuel management.
- **Safety**. Based on more than 50 years of experience, the U.S. nuclear industry continues to perform as one of the safest industrial working environments in the world while maintaining a fleet average capacity factor above 90 percent. Through rigorous training of plant workers and increased communication and cooperation among nuclear plants and federal, state and local regulating bodies, the U.S. nuclear industry is keeping the nation's 99 nuclear plants safe for their communities and the environment. The U.S. supply chain leads the world in safety-conscious workforce training, operational excellence, and continuous improvement. U.S. suppliers are known for process excellence, human performance and safety culture.
- **Human capital development**. Nuclear safety, reliability and security depend on a highly skilled and well-trained workforce. For over 50 years, the U.S. nuclear industry has continually improved education and training programs offered at universities, technical colleges and within the private sector. Today, these world-class programs can be tailored to meet the needs of new nuclear nations as they develop indigenous capabilities for safe and reliable nuclear operations.

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The U.S. industry understands that nuclear energy cooperation is an endeavor that transcends electric power and electricity generating technology. More fundamentally, it is a decades-long partnership in human development that enriches both nations and strengthens the bond between them. As Saudi Arabia embarks on nuclear energy development, the U.S. nuclear industry is eager to support that partnership in every way.

Sincerely yours,

Maria Korsnick

Maria Korsnick

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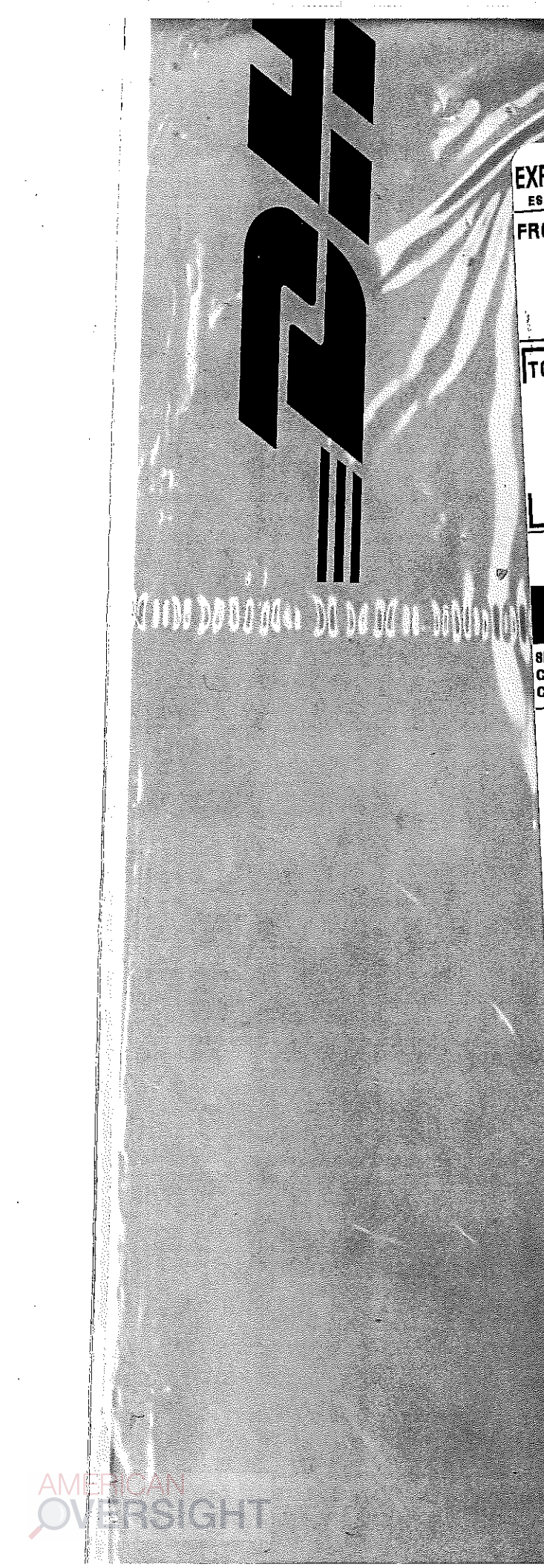

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Piece: 1/1

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DR MAHER ALDAR
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RIYADH
C/O FFC EMC
DUBAI
UNITED ARAB EMIRATES
Tel: 9668085555

Origin:
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20585 WASHINGTON, DISTRICT OF COLUMBIA
UNITED STATES OF AMERICA
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AMERICAN OVERSIGHT

From: Michelle Scott
To: Scott, Michelle
Subject: Fwd:
Date: Thursday, January 11, 2018 8:33:43 AM

---------- Forwarded message ----------
From: "Scott, Michelle" <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Jan 11, 2018 8:08 AM
Subject:
To: (b) (6) " <(b) (6) >
Cc:

From: Harlan Bowers <hbowers@x-energy.com>
Date: Sunday, Dec 17, 2017, 5:39 PM
To: Jonathan Chesebro <Jonathan.Chesebro@trade.gov>, Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Devin Horne <Devin.Horne@trade.gov>, Mark OGrady <Mark.OGrady@trade.gov>, Hutchins, Scott (Embassy Riyadh <HutchinsSG@state.gov>, Carver, Michael J <CarverMJ@state.gov>, 'ApostolDJ@state.gov' <ApostolDJ@state.gov>, McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>, Ian Steff <Ian.Steff@trade.gov>, Weston, Aaron Thomas-DuRussel (aaron.weston@inl.gov) <aaron.weston@inl.gov>, Goff, Michael (CONTR) <mike.goff@nuclear.energy.gov>, Stahl, Eric <Eric.Stahl@nrc.gov>, Richards, Andrew

<Andrew.Richards@Nuclear.Energy.Gov>, dwolf@ARCnuclear.com<dwolf@ARCnuclear.com>,atokpina@bechtel.com<atokpina@bechtel.com>, sdrouth@bechtel.com<sdrouth@bechtel.com>, y.ballout@elysium-v.com <y.ballout@elysium-v.com>,sswilley@epri.com <sswilley@epri.com>, chaas@epri.com <chaas@epri.com>, ralph.hunter@exeloncorp.com<ralph.hunter@exeloncorp.com>, david.sledzik@ge.com<david.sledzik@ge.com>, eric.loewen@ge.com<eric.loewen@ge.com>, frank.belknap@ga.com<frank.belknap@ga.com>, amy.lientz@inl.gov<amy.lientz@inl.gov>, dsl@nei.org<dsl@nei.org>, k-peddicord@tamu.edu <k-peddicord@tamu.edu>, tmundy@nuscalepower.com<tmundy@nuscalepower.com>, datkinson@nuscalepower.com<datkinson@nuscalepower.com>, rrickman@terrestrialusa.com<rrickman@terrestrialusa.com>, pmrandt@global-strategic.com<pmrandt@global-strategic.com>,david.blee@usnic.org<david.blee@usnic.org>, Jeff Harper <jharper@x-energy.com>, t.marcille@holtec.com<t.marcille@holtec.com>, durhamdc@westinghouse.com<durhamdc@westinghouse.com>, easterr@westinghouse.com<easterr@westinghouse.com>, y-hassan@tamu.edu <y-hassan@tamu.edu>, michael.w.platt@lmco.com<michael.w.platt@lmco.com>, asif.khan@lmco.com <asif.khan@lmco.com>, mgfahmy@bechtel.com<mgfahmy@bechtel.com>, christine.kropp@exeloncorp.com<christine.kropp@exeloncorp.com>, bowman@fusion.gat.com<bowman@fusion.gat.com>, jane.strong@inl.gov <jane.strong@inl.gov>,thj@nei.org <thj@nei.org>, t-hollar@tamu.edu <t-hollar@tamu.edu>, tbrown@nuscalepower.com<tbrown@nuscalepower.com>, Melanie Lyons <MLyons@x-energy.com>, Amanda Fuhrmann <AFuhrmann@x-energy.com>, r.trotta@holtec.com

AMERICAN OVERSIGHT

<r.trotta@holtec.com>, duvallsb@westinghouse.com<duvallsb@westinghouse.com>
Subject: Re: Action Item for the Advanced Reactor Vendor Teams - KSA Trade Mission Summary

Jonathan, Michelle –
Based on the conversation just prior to the teams breaking up, I wanted to capture the AI that we accepted regarding the PPT presentation intended for tomorrow afternoon. The KA KARE team requested a summary of each Advanced Reactor technology. You recommended that this be captured in a 1-SLIDE (much preferred to 2 slides, if possible) from each vendor to document the salient aspects of the technology/development.
I humbly suggest that the slides from each Company address roughly the same information. What I believe envelopes the data relevant to KSA/KA KARE is as follows:

1) Technology Description - MSR, HTGR, FSR, etc., and list any unique twists associated with your approach (with an image of the reactor module and/or plant layout)
2) Parameters – size, power, application, etc. Any unique features/benefits
3) Development Status – state of design, general schedule status
4) Economic – Projected LCOE, Overnight Costs, CAPEX (if willing to provide)

Companies could include a single point of contact if additional information is desired by either DO, DOC, or KA KARE.
Please let us know if this is consistent with your desires. I understand this is to be submitted to Jonathan by **MIDNIGHT TONiGHT**.
Regards,
HWB

Harlan Bowers | President
hbowers@x-energy.com
Direct: (301) 358-5678 Mobile: (301) 221-8658
7701 Greenbelt Road, Suite 320
Greenbelt, Maryland, 20770
www.x-energy.com

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Trade/Commerce Equity

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From: Scott, Michelle
To: Lopatto, Jeanne T.
Subject: RE:
Date: Thursday, January 18, 2018 11:22:09 AM

Got it!!!

From: Lopatto, Jeanne T. <lopattjt@westinghouse.com>
Date: Thursday, Jan 18, 2018, 11:21 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject:

Michelle, no need for US embassy to send any one for China visit of KACARE. Thanks for the offer.

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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From: Benahmed, Farah (CONTR)
To: Scott, Michelle
Subject: RE:
Date: Thursday, January 18, 2018 12:58:50 PM
Attachments: 2018-01-16 WEC TeamUSA Mtg Notes_FOUO.docx

This is what I have so far. I was going to complete it when I returned but I saw that you needed the documents back!

From: Scott, Michelle
Sent: Thursday, January 18, 2018 9:49 AM
To: Benahmed, Farah (CONTR) <Farah.Benahmed@nuclear.energy.gov>
Subject:

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6)

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(b) (5)

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(b) (5)

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(b) (5)

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Scott, Michelle
Date: Monday, February 11, 2019 12:17:51 AM
Attachments: 2019-02-10 Backgrounder - WEC Update.docx

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

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(b) (5)

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NNSA Equity

From: Scott, Michelle
Sent: Monday, March 26, 2018 12:37 PM
To: Strangis, Katie <Katie.Strangis@nnsa.doe.gov>
Subject:

Here you go.

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6)

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NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

AMERICAN OVERSIGHT

NNSA Equity

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From: Scott, Michelle
To: Richards, Andrew
Date: Friday, April 6, 2018 12:36:29 PM
Attachments: 2018-02-01 S1 Memo with WEC Jose Gutierrez_SLedits.docx

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Can you crib something from these points in this memo. (b) (5)

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José Emeterio Gutiérrez
Interim President & CEO



José Emeterio Gutiérrez has been recently appointed Interim President and CEO of Westinghouse Electric Company following his position as Senior Vice President of the Westinghouse global Nuclear Fuel and Components Manufacturing organization, a product line that provides nuclear fuel, fuel-handling equipment and cranes, large nuclear components and services to a global customer base.

Prior to this role, Mr. Gutiérrez served as managing director and vice president for Southern Europe in Westinghouse's Europe, Middle East and Africa (EMEA) region since 2010. In this position he was responsible for operations in Spain, Slovenia, Italy, Bulgaria and Romania, and also was responsible for customer and stakeholder interfaces, Westinghouse legal representation and statutory requirements.

Additionally, Mr. Gutiérrez served as regional vice president of Spain for Westinghouse, as well as Nuclear Services technical director, leading all Westinghouse Services operations in Spain between 2008 and 2010.

He has been and continues to serve as chairman, CEO and president of several Westinghouse subsidiaries across the globe. Prior to joining Westinghouse, he held fuel leadership positions with ENUSA Industrias Avanzadas S.A. in Spain over a period of 22 years. In his nuclear fuel director role at ENUSA, Mr. Gutiérrez was responsible for leading the Juzbado Manufacturing Plant and had full responsibility before the Spanish Nuclear Regulatory Commission. Overall, he brings more than 25 years of experience in the global nuclear market, including experience in nuclear fuel engineering and fabrication, as well as participation in various GE nuclear fuel development projects in the United States.
He served as chairman of the Spanish Nuclear Society between 2009 and 2011, and has been a member of several European organizations such as Foratom European Atomic Forum and the European Nuclear Society. He also served as dean of the Business School of Westinghouse University, which is designed to prepare the Westinghouse workforce for the future.

Mr. Gutiérrez received a civil engineering degree from the Polytechnic University of Madrid and is a certified Westinghouse Customer 1st Green Belt.

Jeanne T. Lopatto
Vice President, Government & International Affairs



Jeanne T. Lopatto, Vice President of Government and International Affairs at Westinghouse Electric Company, heads the firm's Washington, D.C. office and is the primary point of contact between the company and the U.S. Government, as well as with Washington, D.C.-based foreign embassies. In this capacity, she plays a crucial role in formulating Westinghouse's policy strategies and advises decision makers on issues important to Westinghouse.

Before joining Westinghouse, Jeanne was the Special Assistant for International and Federal Affairs to Nils Diaz, Chairman of the U.S. Nuclear Regulatory Commission. From 2001 to 2005, she was the Director of Public Affairs at the U.S. Department of Energy, where she served as the official spokesperson for Energy Secretary Spencer Abraham and directed the public relations programs for DOE. Before that she worked on Capitol Hill for Sen. Orrin G. Hatch (R-UT) in a variety of media relations positions, including Press Secretary for the U.S. Senate Judiciary Committee.

A native of Pennsylvania, Ms. Lopatto is a graduate of Dickinson College, in Carlisle, PA.

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From: Scott, Michelle
To: Crosland, Armando (LAB)
Date: Tuesday, September 4, 2018 4:01:12 PM
Attachments: 2018-09-04 KSA LNPP CD - FEED B Summary.docx

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(b) (5)

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From: Scott, Michelle
To: "Michelle Scott"
Date: Friday, October 19, 2018 7:11:27 AM

The Bankruptcy of Westinghouse

In March 2017, Westinghouse Electric Company (WEC) filed for Chapter 11 Bankruptcy due to cost overruns associated with construction in the United States at the V.C. Summer and Vogtle nuclear projects. WEC had obligations to these projects under fixed price engineering, procurement, and construction (EPC) contracts originally signed in 2008.. WEC used the bankruptcy process to resolve its obligations to the U.S. projects, undergo reorganization, and find new ownership. On January 4, 2018, Canada's Brookfield Business Partners (Brookfield) announced they had reached agreement to purchase 100% of WEC for a sum of $4.6 billion, which is approximately $1 billion above the company's book value, and $1 billion less than Toshiba's purchase price for WEC in 2006.

In July 2017, WEC officially rejected its EPC contract, Vogtle project management was transferred from WEC to Georgia Power C, while allowing WEC to provide engineering, procurement, and licensing support services. Following approval by all four of Vogtle owners, on August 31, 2017, GPC recommended to its regulator, the Georgia Public Service Commission, to move forward with construction of both Vogtle Units 3 & 4 with estimated completion dates of 2021 and 2022 for the two units. Additionally, on September 29, the Secretary Perry announced a conditional commitments for an additional loan guarantee, totaling $3.7 billion to the three owners.

On July 31, 2017, Santee Cooper announced it would abandon the Virgil C. Summer project, similarly, Summer's other owner SCE&G, petitioned the South Carolina's (SC) Public Services Commission (PSC) to abandon the project on August 1, 2017. With Santee Cooper's decision to abandon the project, SCE&G was unable to shoulder 100% of the costs to complete. The Summer project is currently undergoing a number of State reviews assessing the management of the project, as well potential lawsuits being issued.

On January 29, 2018, 10 months after filing for Chapter 11 relief, WEC filed a proposed plan and related disclosure

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statement describing how the company intended to exit from bankruptcy. On March 27, 2018, the U.S. Bankruptcy Court for the Southern District of New York approved WEC's plan for restructuring, a major step towards emerging out of bankruptcy. On June 29, 2018, the Nuclear Regulatory Commission (NRC) approved the indirect transfer of WEC's licenses from Toshiba to Brookfield WEC Holdings, Inc., a subsidiary of Brookfield. WEC emerged from bankruptcy and closed on the transaction of being acquired by Brookfield on August 1.
To date, WEC continues to provide engineering and design services to the Vogtle Project pursuant to the July 20, 2017 Services Agreement between the Vogtle Owners and Westinghouse; the Agreement was assigned to Brookfield as part of the transaction for sale.

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Armando Crosland (LAB) (armando.crosland@nuclear.energy.gov)
Subject: 2019-03-10 Westinghouse Update Paper
Date: Tuesday, April 16, 2019 9:34:00 AM
Attachments: 2019-03-10 Westinghouse Update Paper.docx

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From: Scott, Michelle
To: Ashok Pasricha; Geoffrey Jones
Subject: RE: Advocacy Updates 5.6.2019
Date: Monday, May 6, 2019 5:47:00 PM

Ashok,

(b) (6) . I will send out a call-in number in the am.

EXIM Equity

From: Scott, Michelle [mailto:michelle.scott@nuclear.energy.gov]
Sent: Monday, May 06, 2019 1:53 PM
To: Cameron Dorsey; Postman, Max; McKearin, Josh; Capoferri, Anita; McRae, Ben; CutlerKB@state.gov; BurkartAR@state.gov; Aaron.T.Westor(b) (6) Kenneth.M.Gof(b) (6) Jonathan Chesebro; Devin Horne; Geoffrey Jones; Ashok Pasricha; uduak.essien@exim.gov; Joyce, William
Cc: Miller, Barry
Subject: RE: Advocacy Updates 5.6.2019

[EXTERNAL E-MAIL]

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Thanks Cameron! We will address these tomorrow at the meeting.

State – I know Al and Kirsten are not going to attend tomorrow's meeting due to other prior commitments; but I would appreciate your views on these requests by COB Wednesday.

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From: Scott, Michelle
To: McKearin, Josh
Cc: Brock, Andrew L.
Subject: RE: Advocacy Updates 5.6.2019
Date: Tuesday, May 7, 2019 8:40:00 AM

Josh,

Morning to you!

The agenda is part of the calendar invite. Advocacy is one of the items to be discussed.

Agencies updates – 40 Minutes

Advocacy – 20 Minutes

GC Side Event Discussion – 10 Minutes

Status of the US-Japan MOC – Proposals – 10 Minutes

Upcoming Webinars on the new China Licensing Policy – 10 Minutes

Michelle

From: McKearin, Josh
Sent: Tuesday, May 07, 2019 8:31 AM
To: Scott, Michelle <michelle.scott@nuclear.energy.gov>
Cc: Brock, Andrew L. <andrew.brock@hq.doe.gov>
Subject: RE: Advocacy Updates 5.6.2019

Michelle,

Morning!

Is there an agenda for today's meeting, or is what Cameron sent it?

Thanks,
Josh

From: Scott, Michelle
Sent: Monday, May 06, 2019 1:53 PM
To: Cameron Dorsey <Cameron.Dorsey@trade.gov>; Postman, Max <max.postman@nnsa.doe.gov>; McKearin, Josh <josh.mckearin@hq.doe.gov>; Capoferri, Anita <anita.capoferri@hq.doe.gov>; McRae, Ben <ben.mcrae@hq.doe.gov>; CutlerKB@state.gov; BurkartAR@state.gov; Aaron.T.Weston(b) (6) Kenneth.M.Goff(b) (6) ; Jonathan Chesebro <Jonathan.Chesebro@trade.gov>; Devin Horne <Devin.Horne@trade.gov>; geoffrey.jones (geoffrey.jones@exim.gov) <geoffrey.jones@exim.gov>; ashok.pasricha@exim.gov;

AMERICAN OVERSIGHT

uduak.essien@exim.gov; Joyce, William <william.joyce@hq.doe.gov>
Cc: Miller, Barry <Barry.Miller@nrc.gov>
Subject: RE: Advocacy Updates 5.6.2019

Thanks Cameron! We will address these tomorrow at the meeting.

State – I know Al and Kirsten are not going to attend tomorrow's meeting due to other prior commitments; but I would appreciate your views on these requests by COB Wednesday.

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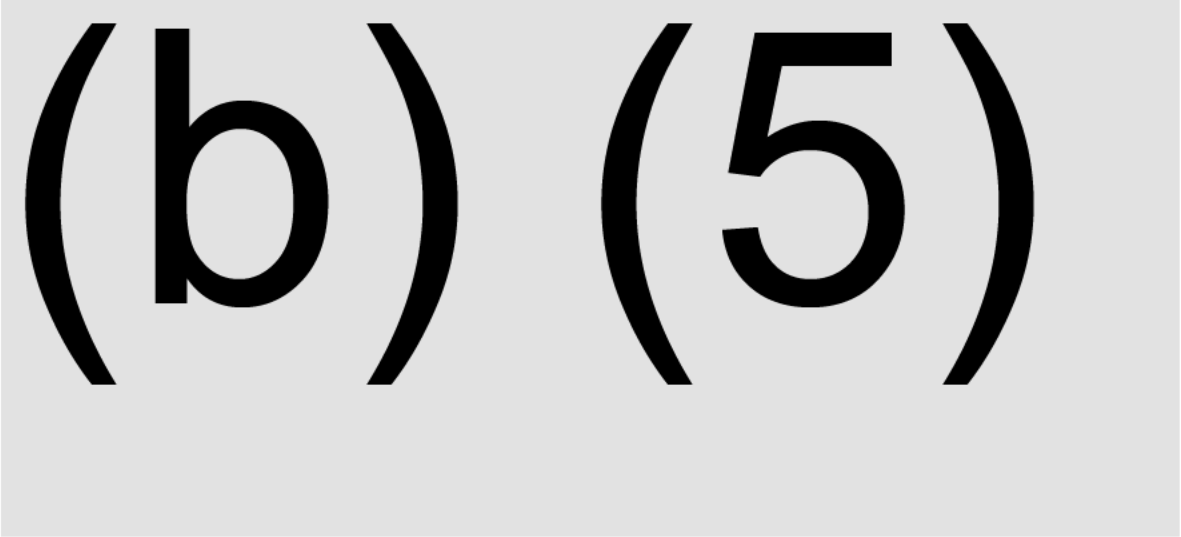
From: McGinnis, Edward
To: McCormack, Brian; Wilmot, Dan; Griffith, Wells; Jaworowski, Suzanne; Haus, Bob; Habansky, Sarah
Subject: RE: FYI
Date: Tuesday, March 28, 2017 8:02:26 AM

Thanks Brian and understood. (b) (5)

Ed

From: McCormack, Brian
Sent: Tuesday, March 28, 2017 7:39:46 AM
To: Wilmot, Dan; Griffith, Wells; McGinnis, Edward; Jaworowski, Suzanne; Haus, Bob; Habansky, Sarah
Subject: FYI

FYI – NOT FOR CIRCULATING/SHARING



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From: Jaworowski, Suzanne
To: Miotla, Dennis
Subject: RE: *Bankruptcy Filing Alert* 3/29/2017 Westinghouse Electric Company LLC
Date: Wednesday, March 29, 2017 4:12:44 PM

Thank you Dennis. I appreciate it very much. We are tracking this issue closely.

Suzie

From: Miotla, Dennis
Sent: Wednesday, March 29, 2017 4:04:44 PM
To: Jaworowski, Suzanne
Subject: FW: *Bankruptcy Filing Alert* 3/29/2017 Westinghouse Electric Company LLC

Not sure if this matters or who should see it, but I think you are working this issue.

From: Gomes, Luke
Sent: Wednesday, March 29, 2017 3:16 PM
To: Miotla, Dennis <Dennis.Miotla@nuclear.energy.gov>
Cc: Hine, Scott <Scott.Hine@ee.doe.gov>; Donat, Ted <Ted.Donat@EE.Doe.Gov>
Subject: *Bankruptcy Filing Alert* 3/29/2017 Westinghouse Electric Company LLC

Good Afternoon Dennis,

As part of EERE's risk management activities, we keep an eye out for distressed companies, particularly if they are high visibility. This morning we ran across an alert for Westinghouse Electric Company (see below and attached), and although our search for active EE funded projects turned up null, we ran across a few that may be pertinent to your team. My Director wanted to make sure that we passed along this information in the spirit of transparency and collaboration. Please feel free to reach back to me with any questions.

Warm Regards,

-LG

Luke Gomes
PMP, ME, TPO II, CORIII
Project Management Coordination Office
O: (240) 562-1624
U.S. Dept. of Energy
15013 Denver West Parkway
Golden CO 80401
http://www1.eere.energy.gov/office_eere/pme_main.html

PMCO provides Project Management analytical support, tools and training. Contact us at PMHelpDesk@ee.doe.gov.

From: Editors@distressedcompanyalert.com [mailto:Editors@distressedcompanyalert.com]
Sent: Wednesday, March 29, 2017 3:55 AM

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To: Your copy of the Distressed Company Alert Newsletter
<distressedcompanyalert@list.bankruptcydata.com>

Distressed Company Alert *Bankruptcy Filing Alert* 3/29/2017 Westinghouse Electric Company

(b) (4)

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From: GC Concurrence Actions
To: Brown, Michael
Cc: GC Concurrence Actions; Lucas, John T.; Reilly, Thomas; Markus, Stephen; McRae, Ben; Dickerson, Katharine
Subject: FW: **URGENT** -- FW: Version to Clear with DOE-GC - (b) (5)
Date: Wednesday, April 5, 2017 5:00:32 PM
Attachments: (b) (5)
(b) (5)
(b) (5)

+Michael

From: GC Concurrence Actions
Sent: Wednesday, April 05, 2017 5:00 PM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>; Fetterly, Brett <Brett.Fetterly@hq.doe.gov>; McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Lucas, John T. <John.T.Lucas@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>; Dickerson, Katharine <Katharine.Dickerson@hq.doe.gov>
Subject: FW: **URGENT** -- FW: Version to Clear with DOE-GC - (b) (5)
Importance: High

Hi Michelle,

(b) (5)
.

Thanks,
Therese
****
M. Therese Keokuk
X6-5281

From: Lucas, John T.
Sent: Wednesday, April 05, 2017 4:59 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: **URGENT** -- FW: Version to Clear with DOE-GC - (b) (5)

(b) (5) .

From: GC Concurrence Actions

AMERICAN OVERSIGHT

Sent: Wednesday, April 05, 2017 4:48 PM
To: Lucas, John T. <John.T.Lucas@hq.doe.gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Dickerson, Katharine <Katharine.Dickerson@hq.doe.gov>
Subject: FW: **URGENT** -- FW: Version to Clear with DOE-GC - (b) (5)

This package is now ready for your review and concurrence.

Thanks,
Therese

-----Original Message-----
From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 4:39 PM
To: Keokuk, Therese <Therese.Keokuk@hq.doe.gov>
Subject: (b) (5)

Therese,

(b) (5)

Thanks.

Tom

From: GC Concurrence Actions
Sent: Wednesday, April 05, 2017 1:10 PM
To: McRae, Ben <Ben.McRae@hq.doe.gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Crosland, Martha <Martha.Crosland@hq.doe.gov>; Dinunzio, Nicholas <Nicholas.Dinunzio@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>; Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: **URGENT** -- FW: Version to Clear with DOE-GC - (b) (5)
Importance: High

Tom – got it and thanks.

All – per the email below from Michelle Scott, it appears that this meeting with the Secretary is scheduled for tomorrow, 4/6/17. Therefore, your immediate review is requested.

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Many thanks,
Therese

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:29 PM
To: Fetterly, Brett <Brett.Fetterly@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC
Importance: High

Brett,

(b) (5)

If there are any substantive changes from GC I will send them forward.

Best
Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 1:00 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Crosland, Martha <Martha.Crosland@hq.doe.gov>; Dinunzio, Nicholas <Nicholas.Dinunzio@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>; Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Cc: Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC - (b) (5)

HI All,

(b) (5)

Thanks.

Tom

AMERICAN OVERSIGHT

From: GC Concurrence Actions
Sent: Wednesday, April 05, 2017 12:27 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; McRae, Ben <Ben.McRae@hq.doe.gov>; Capoferri, Anita <Anita.Capoferri@hq.doe.gov>; Crosland, Martha <Martha.Crosland@hq.doe.gov>; Dinunzio, Nicholas <Nicholas.Dinunzio@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>; Michaels, K.C. <Kenneth.Michaels@Hq.Doe.Gov>
Cc: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>; Lucas, John T. <John.T.Lucas@hq.doe.gov>; Brown, Michael <Michael.Brown@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC - (b) (5)

For your review and concurrence. Please let me know if I should forward to anyone else.

Thanks,
Therese

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 12:20 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Cc: McRae, Ben <Ben.McRae@hq.doe.gov>; Hymer, Christina <Christina.Hymer@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Sorry –just got this updated version.

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:18 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; McRae, Ben <Ben.McRae@hq.doe.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom, Stephan and Ben,

Apologies, please use this version of the memo for your review.

Thank you
Michelle

AMERICAN OVERSIGHT

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 12:17 PM
To: GC Concurrence Actions <GCConcurrenceActions@hq.doe.gov>
Subject: FW: Version to Clear with DOE-GC

Hi Therese,

I just go this from NNSA looking for GC concurrence. I've forwarded separately to Ben and Tina – (b) (5)

Thanks.

Tom

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 12:08 PM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Tom,

Attached for your routing trough GC are the following:

(b) (5)

Thanks Michelle

From: Reilly, Thomas
Sent: Wednesday, April 05, 2017 10:44 AM

AMERICAN OVERSIGHT

To: Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>; Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Thanks Jac, Michelle,

Michelle – as we discussed - (b) (5) .

Thanks.

Tom

NNSA Equity

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From: Markus, Stephen
Sent: Wednesday, April 05, 2017 10:02 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>; Reilly, Thomas <Thomas.Reilly@hq.doe.gov>
Subject: RE: Version to Clear with DOE-GC

Michelle-

(b) (5)
Please let me know if you have any questions.

Thanks,
Stephen

Stephen L. Markus
Attorney-Adviser
Office of the Assistant General Counsel for International and National Security Programs (GC-53)
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585
Phone: (202) 586-4040
Email: stephen.markus@hq.doe.gov

From: Scott, Michelle
Sent: Wednesday, April 05, 2017 8:14 AM
To: Reilly, Thomas <Thomas.Reilly@hq.doe.gov>; Markus, Stephen <Stephen.Markus@Hq.Doe.Gov>
Cc: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Stern, Zachary <Zachary.Stern@NNSA.Doe.Gov>; Hallock, Andrew <Andrew.Hallock@nnsa.doe.gov>; Goodman, Jac <Jac.Goodman@nnsa.Doe.Gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Diamond, Bruce <Bruce.Diamond@NNSA.doe.gov>; Lockwood, Andrea <Andrea.Lockwood@hq.doe.gov>; Kim, Dong <Dong.Kim@hq.doe.gov>; Cestari, Kenneth <Kenneth.Cestari@hq.doe.gov>; Phillips, Anne L <Anne.Phillips@nnsa.doe.gov>; Mendelsohn, Kasia <Kasia.Mendelsohn@nnsa.doe.gov>
Subject: FW: Version to Clear with DOE-GC

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Tom and Stephen,

Jac Goodman from NA asked that you review (b) (5) My apologies for the extremely short turn around but I need to receive your comments by 10am this morning.

Thank you
Michelle

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From: Moore, Karen
To: McGinnis, Edward; Jaworowski, Suzanne; Meikle, Grace K. (CONTR)
Subject: Meeting today on Westinghouse
Date: Monday, July 31, 2017 9:23:54 AM

Ed, Suzanne and Grace, Ed Kania (LPO Legal) forwarded me today's meeting invite on Westinghouse and I plan on attending. I am the Vogtle team member most familiar with the Westinghouse Chapter 11 case and related issues and can update you on current bankruptcy developments. Karen

Karen H. Moore
Senior Loan Counsel, Loan Programs Office
DEPARTMENT OF ENERGY
1000 Independence Avenue, SW
Forrestal 4B-122
Washington, D.C. 20585
T 202.586.3142 C (b) (6)
karen moore@hq.doe.gov

AMERICAN OVERSIGHT

From: Mahar, Brian (CONTR)
To: Jaworowski, Suzanne
Cc: Sneed, John; Kim, Dong; Schneir, Sydney
Subject: Latest Vogtle/Westinghouse talking points
Date: Monday, July 31, 2017 4:12:01 PM
Attachments: Vogtle-Westinghouse QA DRAFT Budget hearing 6 12 17.docx

---

Suzie, I was asked to send you the most current set of talking points/Q&A that I had.

Brian

Brian Mahar
Loan Programs Office
U.S. Department of Energy
Communications & Public Affairs
Contractor
Brian.Mahar@hq.doe.gov
Office: 202-287-6574
Mobile: (b) (6)

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U.S. Department of Energy
Loan Programs Office

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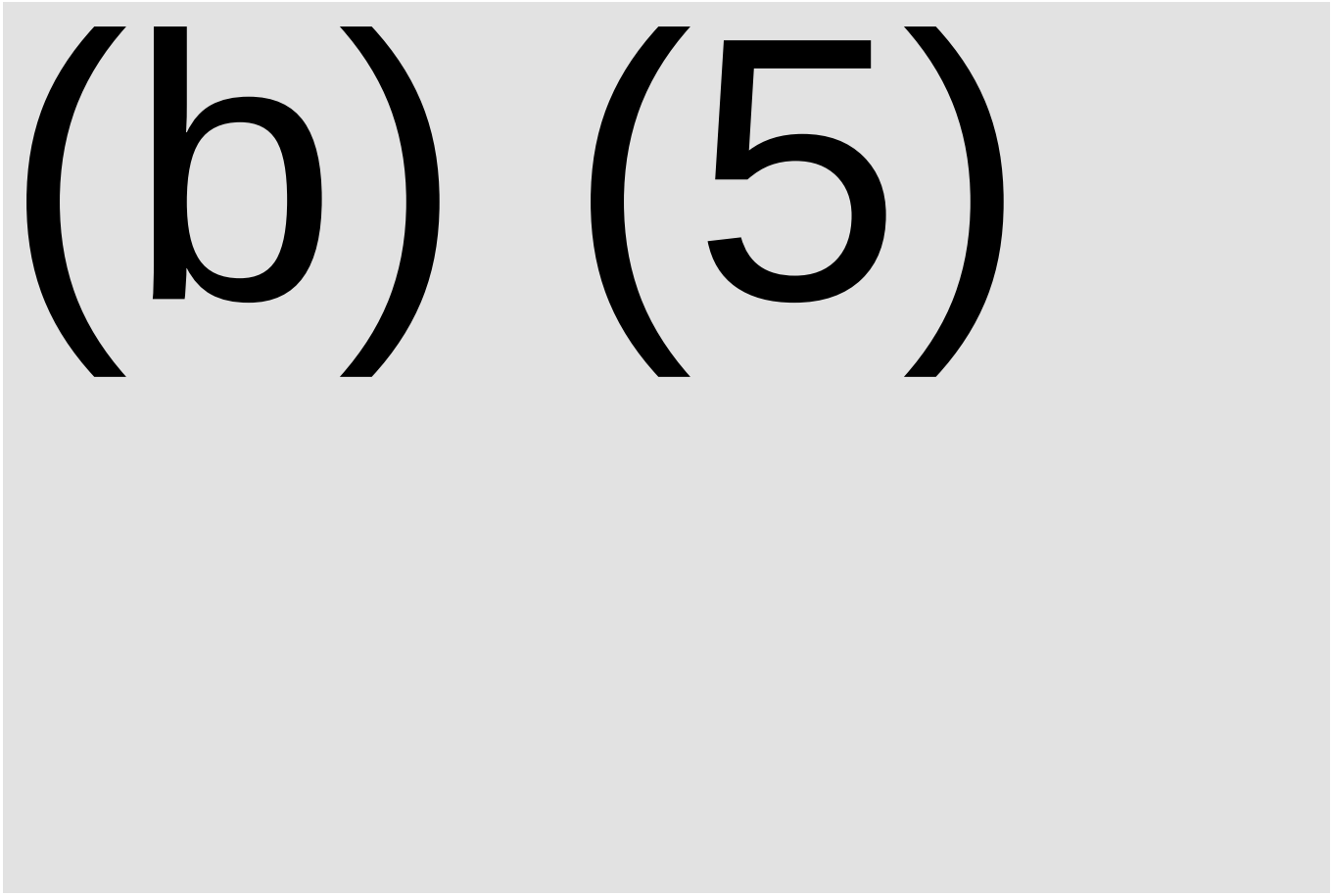

AMERICAN OVERSIGHT

Trade/Commerce Equity

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Trade/Commerce Equity

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From: Jaworowski, Suzanne
To: Olsen, Karla; Mueller, Mike (CONTR); Harstine, Michelle (CONTR); Trunzo, Alisa (CONTR); Edwards, Carrie A. (CONTR)
Subject: FW: NNSA Equity
Date: Monday, January 22, 2018 11:57:00 AM

Great article that outlines the Saudi 123 agreement situation.

Suzie

Suzanne Jaworowski
Senior Advisor
U.S. Department of Energy | Office of Nuclear Energy
202-586-2240

From: Scott, Michelle
Sent: Monday, January 22, 2018 11:38 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>; Furstenau, Raymond (HQ) <Raymond.Furstenau@Hq.Doe.Gov>; Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>
Cc: Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>
Subject: FW: NNSA Equity

Ed, Ray and Suzy,

Please see below the article Craig Piercy wrote on the Saudi.

Michelle

Michelle L. Scott
Senior Advisor
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6) ***(cell)***

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From: Honaker, Sarah (CONTR)
To: Lennon, Sarah
Cc: Gross, John
Subject: [COLLABORATIVE APPROVAL] for EXEC-2018-005246 (b) (5)
Date: Monday, August 20, 2018 8:26:17 AM
Attachments: EXEC-2018-005246 letter.docx
EXEC-2018-005246 Memo.docx

Good Morning,

Please review the memo and letter and provide your concurrence as soon as possible.

Thank you,

Sarah Honaker
CNI Global Solutions, LLC providing Contract Support
Administrative Support Specialist III to DCOS Andrew Richards
Office of Nuclear Energy U.S. Department of Energy
sarah honaker@nuclear.energy.gov
(202) 586-6441

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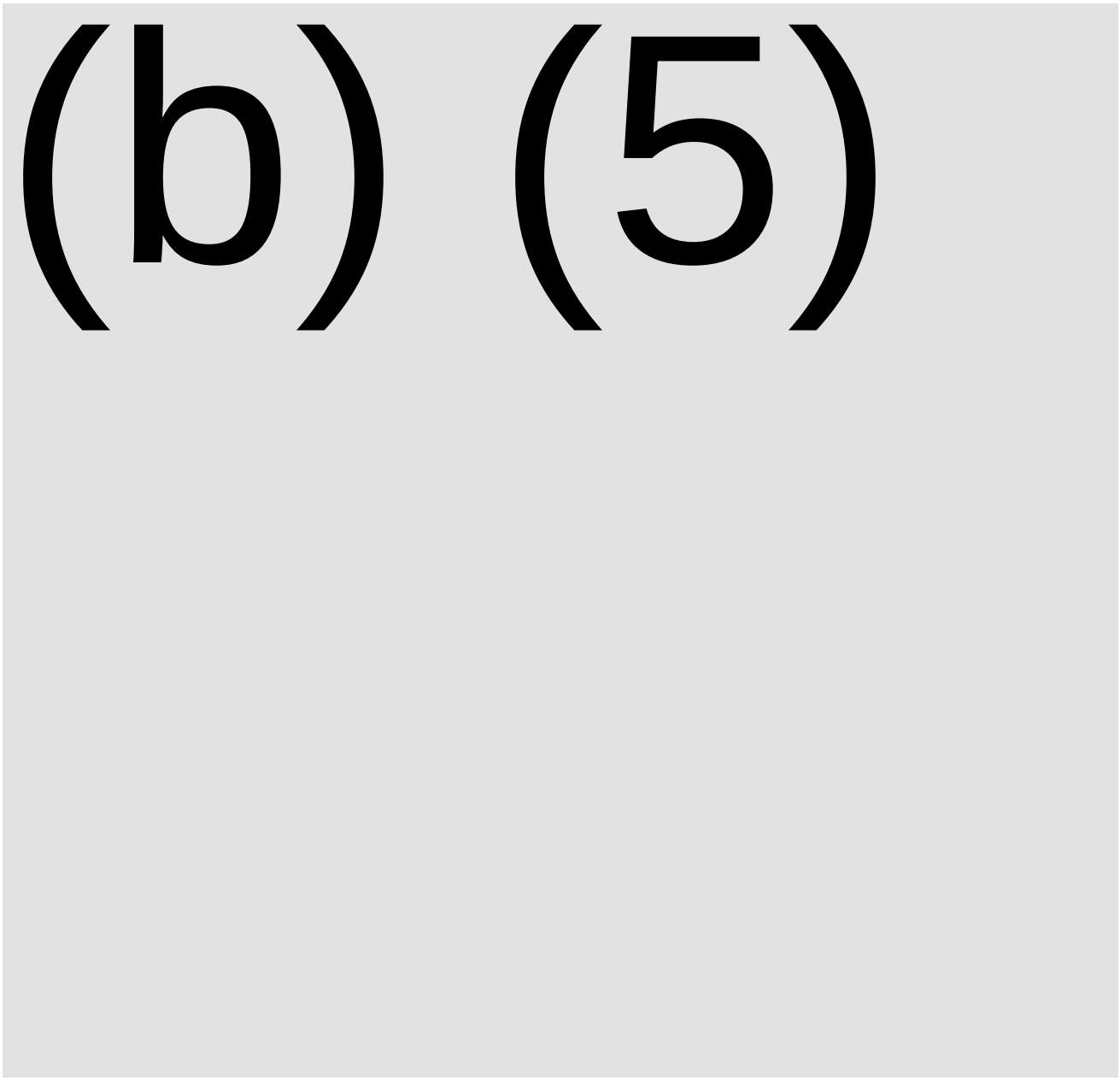

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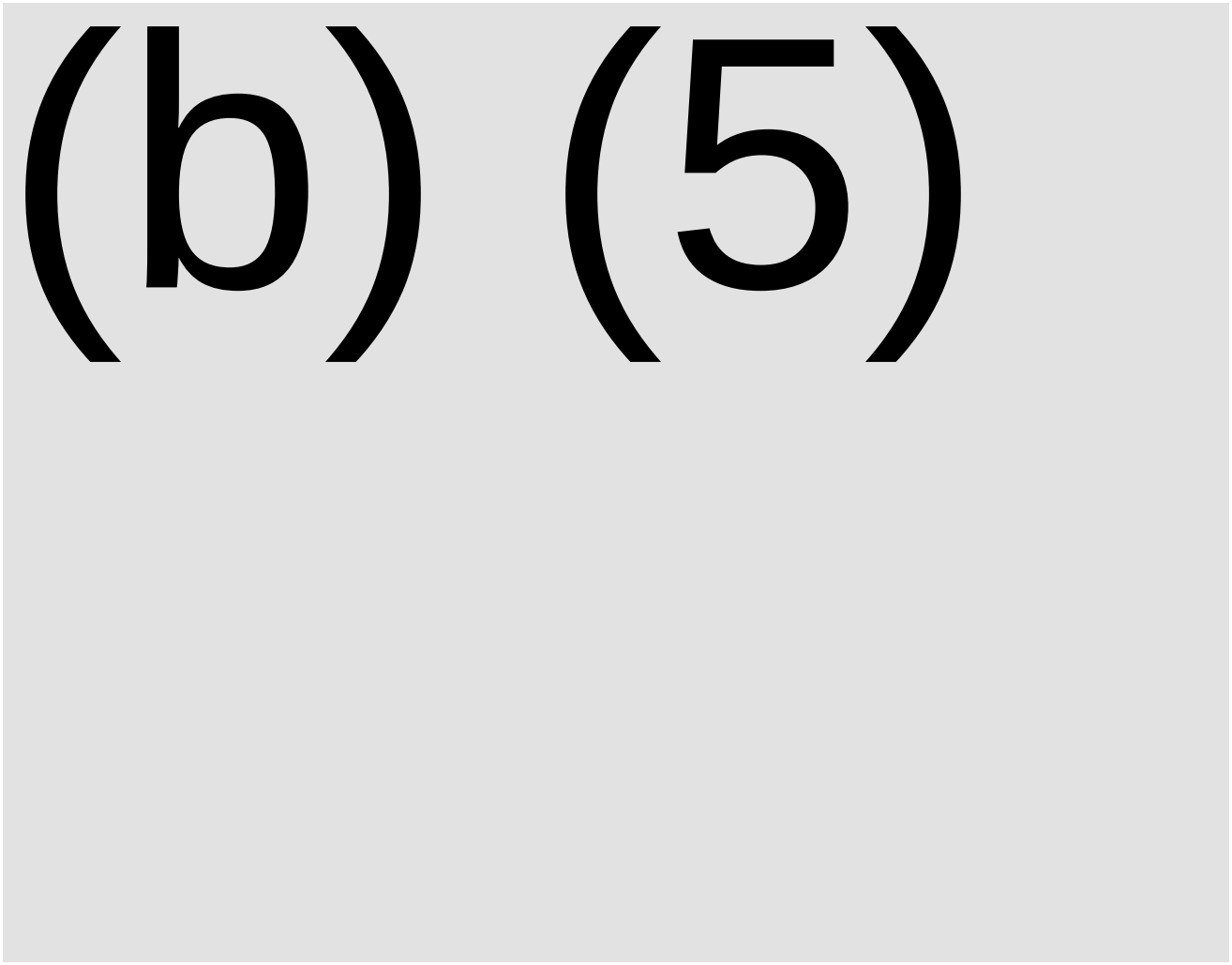

AMERICAN OVERSIGHT

From: Lopatto, Jeanne T.
To: Scott, Michelle
Subject: [EXTERNAL] KSA
Date: Friday, September 14, 2018 8:08:09 AM

Hope you made it to Vienna! Just following up on whether anyone from USG can go to KSA for Sept 25? Tom wants to send list of names in.

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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From: Hutchins, Scott G
To: McKearin, Josh; Scott, Michelle
Subject: [EXTERNAL] Fwd: Westinghouse Meeting
Date: Saturday, October 13, 2018 7:20:18 AM
Attachments: mg_info.txt

Trade/Commerce Equity

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Trade/Commerce Equity

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From: Michelle Scott
To: Scott, Michelle
Subject: [EXTERNAL] Re:
Date: Friday, October 19, 2018 7:18:12 AM

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(b) (5)

Michelle

Michelle L. Scott

Senior Advisor

Office of International Nuclear Energy & Cooperation

Office of Nuclear Energy

202-586-9719 (ofc)

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From: Michelle Scott
To: Scott, Michelle
Subject: [EXTERNAL] Fwd: wec
Date: Sunday, February 10, 2019 11:11:45 PM
Attachments: 2019-02-10 WEC Update.docx

---------- Forwarded message ---------
From: **Michelle Scott** <(b) (6) >
Date: Sun, Feb 10, 2019 at 10:47 PM
Subject: wec
To: Scott, Michelle <michelle.scott@nuclear.energy.gov>

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From: Crosland, Armando (LAB)
To: Scott, Michelle
Subject: FW: Materials for Michelle"s Trip Book
Date: Monday, February 11, 2019 8:21:55 AM
Attachments: 2018 -11-05 - Backgrounder - WEC Status - Latest.docx
State Equity
NNSA Equity
2018-11-19 Civil Nuclear Commercial Engagement_(WEC) AC MLS Edits.docx
2018-11-19 Vyas Memo AC MLS Edits.docx
2018-11-16 Bckgrnd Paper - Nuclear - AC_MS edits.docx

FYI, this has the latest WEC backgrounder attached; in case you were looking for it to update.

-----Original Message-----
From: Crosland, Armando (LAB)
Sent: Friday, February 08, 2019 2:00 PM
To: Nolan, Kelly M. (INTERN) <kelly nolan@nuclear.energy.gov>
Subject: RE: Materials for Michelle's Trip Book

Sounds good. Sorry for the delayed response, apparently it's been a while since we last updated the Westinghouse (WEC) Background paper and I had to go back a bit in my emails to find it. The latest WEC Background paper is attached; it was last updated in November. Other attachments are included to help with updating the WEC Backgrounder. Also, feel free to look for other resources online for updating the paper, particularly with updates to Vogtle and Summer. It can be a pain to update the WEC Backgrounder so I'll help you with this once I clear some things off my plate.

2019-0107 Readout AW Westinghouse meeting - info on WEC in India
20180822 DRAFT S3-Minister Petkova bilat memo - info on WEC in Bulgaria
2018-11-19 Civil Nuclear Commercial Engagement_(WEC) AC MLS Edits - info on WEC in India
2018-11-19 Vyas Memo AC MLS Edits - info on WEC in India
2018-11-16 Bckgrnd Paper - Nuclear - AC_MS edits - info on WEC in Saudi Arabia

-----Original Message-----
From: Nolan, Kelly M. (INTERN)
Sent: Friday, February 08, 2019 1:16 PM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: RE: Materials for Michelle's Trip Book

Thank you! I printed all of the papers needed and I am waiting on Michelle to hear how she wants it organized. She is not in her office at the moment so I will wait and see her when she gets back. Is there anything else I need to have, like the Westinghouse information that you mentioned? Or can I find that information online/in the files?

-----Original Message-----
From: Crosland, Armando (LAB)
Sent: Friday, February 08, 2019 11:51 AM
To: Nolan, Kelly M. (INTERN) <kelly nolan@nuclear.energy.gov>
Subject: Materials for Michelle's Trip Book

Kelly-

Attached are the decommissioning proposals for the United States and Japan. I also attached the latest Japan memo; it mainly deals with Japan related commercial issues.

Armando Crosland
Office of International Nuclear Energy Policy and Cooperation
U.S. Department of Energy

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(O): 202-586-3357
(E): Armando.Crosland@Nuclear.Energy.Gov

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Issue Paper: Civil Nuclear Commercial Engagement (Westinghouse Electric Company)

RELEVANCE TO TRIP/MEETING

Fulfilling the aims of the U.S.-India Agreement for Peaceful Nuclear Cooperation is a DOE strategic priority for the U.S.-India relationship. Facilitating the sale of six Westinghouse Electric Company (WEC) AP1000 reactors in Andhra Pradesh was a centerpiece issue during Prime Minister Modi's June 2017 visit to the United States, and efforts continue to formally submit a technical commercial offer to begin discussions to finalize a contract. This paper provides important context for the strategic relationship, in case you are able to meet with relevant civil nuclear or nuclear security counterparts.

BACKGROUND

Commercial Engagement (Westinghouse)

India's plans to expand nuclear energy generating capacity will require the construction of foreign-supplied light-water reactors, which include the supply of six WEC AP1000 reactors at the Kovvada site in the state of Andhra Pradesh. WEC remains committed to the six reactor deal that is worth approximately $28 billion, with a potential $20 billion in U.S. content.

WEC is working towards restructuring the project's business model so that the Nuclear Power Corporation of India, Ltd. (NPCIL) would contract WEC solely for engineering and procurement services and not for construction. The goal was to finalize the commercial contract before DAE Chairman Sekhar Basu's term ended in September 2018 and before the national elections in April-2019 (not finalizing prior to elections could cause significant delays since the Indian Cabinet cannot clear agreements once elections have been called). However, on September 19, 2018, Chairman Basu retired and Kamlesh Nilkanth Vyas was appointed as the new DAE Chairman. Chairman Vyas previously served as Director of the Bhaba Atomic Research Centre (BARC), and will serve in his capacity as DAE Chairman through May 2021.

In February , WEC agreed to submit to NPCIL the revised technical commercial offer (TCO) by November 2018. In October, WEC provided a draft Enabling Works Agreement (EWA) to NPCIL with hopes to sign the EWA by December 2018. The EWA is a smaller contract to keep momentum to conclude the main contract. It was envisioned that in addition to keeping the momentum, signing the EWA this year would have been be a deliverable for the 10-year anniversary of the concluding the 123 Agreement with India.

As mentioned previously, the new Chairman Vyas is very new to the project and is getting up to speed. On November 6, WEC's CEO and President Jose Gutierrez and David Durham Senior Vice President met with the new DAE Chairman along with NPCIL Chairman Sharma. (b) (5) During the WEC, DAE, and NCPIL meeting, Chairman Sharma led the discussion with Chairman Vyas in listening mode, WEC raised the possibility of signing the proposed EWA delivered in October. WEC developed a multi-year level-of-effort project development activities at approximately $25 million dollar to support both WEC and NPCIL in

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further refining scope responsibilities for the project. NPCIL pushed back on signing the EWA, stating that there is no hurry to execute the EWA. NPCIL's position for concluding a EWA and funding activities would only happen after WEC delivers the technical commercial offer. WEC raised the fact that WEC continues to incur significant costs associated with continued engagement to define the project. DAE Chairman Vyas requested WEC to submit a revised EWA that addressed a 12 month period of reduced scope for NPCIL to consider. WEC plans to send the revised EWA to NPCIL and DAE on Monday, November 19, 2018. They will likely not execute the EWA until after WEC submits the technical commercial offer (TCO) which has been shifted now to April 2019, due to the need to define and confirm new build model for the project—WEC responsible for engineering and procurement and NPCIL responsible for construction. WEC delivery of the TCO and potential signing of the EWA occur the same month (April) in which the Indian have their general elections. The results of the general election could delay any near-term decision on the EWA, discussion on the TCO, and negotiate the general framework agreement (GDA) before any contract is signed and any work is funded (The GFA would be after the project is deemed viable which is some time after TCO submittal.).

In addition to setback of the EWA, NPCIL raised the following issues:

- Continue to maintain that Vogtle needs to be operational before concluding a contract;
- Indians unwillingness to receive operational data from China regarding the operation AP1000s at Sanmen and Haiyang; and
- Need to resolve the division of labor between WEC and NPCIL with respect to balance of plant for at least first two plants.

WEC remains concerned that NPCIL does not prioritize the Kovvada project and progress remains slow. However, NPCIL confirmed to WEC it would officially accept construction responsibility for the project—a significant reversal of its previous position. and another positive signal of the Indian government's eagerness to move swiftly to conclude the deal. DAE conveyed to WEC that they would have to abide by Indian Law and run a public tender for a constructor for the project.

This deal will comply with the terms of the U.S.-India Nuclear Cooperation Agreement (123 Agreement) and fulfilling that agreement is a DOE strategic priority for the bilateral relationship. Both WEC and DAE have flagged the existing U.S. export control regime as a potential source of frustration as the Kovvada deals moves forward and have requested a move to a process that would avoid piecemeal approvals which could significantly slow the construction process.

In addition, WEC is in a position to provide nuclear fuel services to India, but has faced obstacles from India in gaining access to the market. India has largely been self-reliant with its nuclear fuel cycle, and is still in the early stages of using foreign sourced nuclear fuel. Such an agreement is already in place with Russia to supply TVEL fuel.

BRIEFING PREPARED BY: Elena Thomas-Kerr (IA-31) **through** Theodore J. Garrish (IA-1)

BRIEFING REVIEWED BY: Beth Urbanas (IA-30)

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CLEARANCES:

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(b) (5)

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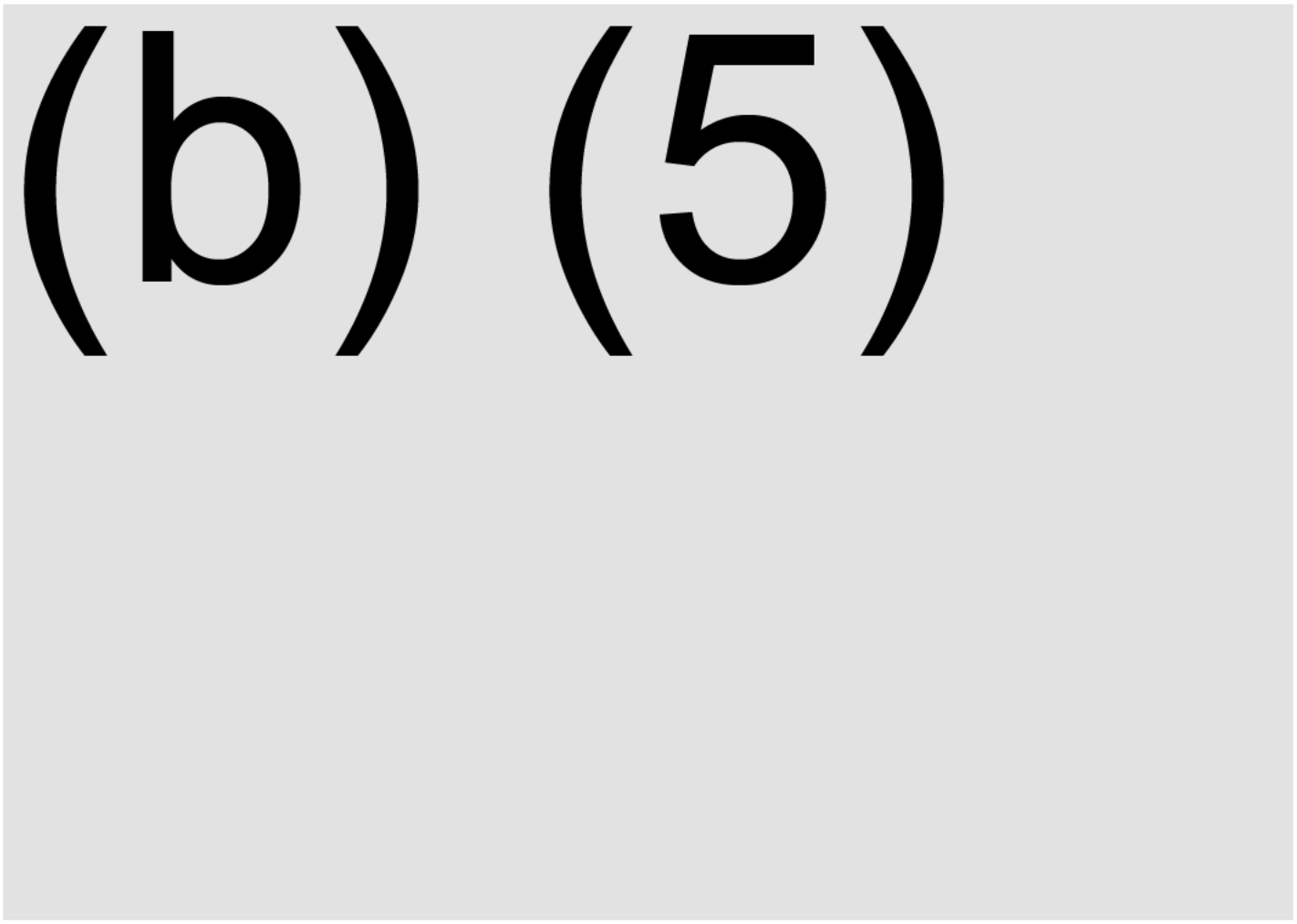

S3 BRIEFING

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AMERICAN OVERSIGHT

From: Scott, Michelle
To: Nolan, Kelly M. (INTERN)
Subject: 2019-02-11 Backgrounder - WEC Update
Date: Monday, February 11, 2019 11:12:00 AM
Attachments: 2019-02-11 Backgrounder - WEC Update.docx

Current version

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(b) (5)

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From: Scott, Michelle
To: Williams, Bradley
Subject: 2019-02-11 Backgrounder - WEC Update
Date: Monday, February 11, 2019 11:24:00 AM
Attachments: 2019-02-11 Backgrounder - WEC Update.docx

Brad,

Please take a look at this update for me. This is a quick quick turnaround action.

AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

(b) (5)

AMERICAN OVERSIGHT

From: Scott, Michelle
To: Nicholas, Kyle
Subject: 2019-02-11 Backgrounder - WEC Update
Date: Monday, February 11, 2019 11:32:00 AM
Attachments: 2019-02-11 Backgrounder - WEC Update.docx

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

From: Williams, Bradley
To: Scott, Michelle
Subject: 2019-02-11 Backgrounder - WEC Update BJW
Date: Monday, February 11, 2019 11:39:42 AM
Attachments: 2019-02-11 Backgrounder - WEC Update BJW.docx

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AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

From: Lopatto, Jeanne T.
To: Scott, Michelle
Subject: [EXTERNAL] RE: India and Bulgaria Updates Needed
Date: Monday, February 11, 2019 12:16:50 PM

David Durham is heading over to (b) (4) (I believe in 2 weeks). I will get you the date. We are still pushing to get agreement that (b) (4) .

From: Scott, Michelle [mailto:MICHELLE.SCOTT@nuclear.energy.gov]
Sent: Monday, February 11, 2019 10:58 AM
To: Lopatto, Jeanne T.
Subject: RE: India and Bulgaria Updates Needed

[External Email]

Any next steps for WEC that I can add?

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6)

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Monday, February 11, 2019 10:57 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: [EXTERNAL] RE: India and Bulgaria Updates Needed

I made some changes in red, not sure what the highlighted part means.

- (b) (4)

AMERICAN OVERSIGHT

From: Scott, Michelle [mailto:MICHELLE.SCOTT@nuclear.energy.gov]
Sent: Monday, February 11, 2019 10:23 AM
To: Lopatto, Jeanne T.
Subject: RE: India and Bulgaria Updates Needed

[External Email]
I have no idea what is up with my outlook today.

(b) (4)

Michelle L. Scott
Senior Advisor for Commercial Activities
Office of Nuclear Energy
202-586-9719 (ofc)
(b) (6)

From: Lopatto, Jeanne T. [mailto:lopattjt@westinghouse.com]
Sent: Monday, February 11, 2019 10:22 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: [EXTERNAL] Re: India and Bulgaria Updates Needed

Still didn't get anything from you!

Sent from my iPhone

On Feb 11, 2019, at 12:07 AM, Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov> wrote:

> [External Email]
> Jeannie,
>
> I have to provide an update in the am on WEC projects,

AMERICAN OVERSIGHT

can you give me latest on India and Bulgaria.

Attached is what I started with India based on some input from you in December.

thanks

Michelle

Michelle L. Scott
Senior Advisor
Office of International Nuclear Energy & Cooperation
Office of Nuclear Energy
202-586-9719 (ofc)

<WEC- Lopatto.docx>

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From: Crosland, Armando (LAB)
To: Scott, Michelle
Subject: RE: Materials for Michelle"s Trip Book
Date: Monday, February 11, 2019 12:42:33 PM
Attachments: 2018 Toshiba WEC Update 2018_7-03.docx
2018 WEC Background Paper_7-04.docx

Attached. The [Toshiba WEC Update] document is in a memo format. The [WEC Background Paper] is in a general backgrounder format. Both are outdated.

-----Original Message-----
From: Crosland, Armando (LAB)
Sent: Monday, February 11, 2019 8:22 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Subject: FW: Materials for Michelle's Trip Book

FYI, this has the latest WEC backgrounder attached; in case you were looking for it to update.

-----Original Message-----
From: Crosland, Armando (LAB)
Sent: Friday, February 08, 2019 2:00 PM
To: Nolan, Kelly M. (INTERN) <kelly nolan@nuclear.energy.gov>
Subject: RE: Materials for Michelle's Trip Book

Sounds good. Sorry for the delayed response, apparently it's been a while since we last updated the Westinghouse (WEC) Background paper and I had to go back a bit in my emails to find it. The latest WEC Background paper is attached; it was last updated in November. Other attachments are included to help with updating the WEC Backgrounder. Also, feel free to look for other resources online for updating the paper, particularly with updates to Vogtle and Summer. It can be a pain to update the WEC Backgrounder so I'll help you with this once I clear some things off my plate.

2019-0107 Readout AW Westinghouse meeting - info on WEC in India
20180822 DRAFT S3-Minister Petkova bilat memo - info on WEC in Bulgaria
2018-11-19 Civil Nuclear Commercial Engagement_(WEC) AC MLS Edits - info on WEC in India
2018-11-19 Vyas Memo AC MLS Edits - info on WEC in India
2018-11-16 Bckgrnd Paper - Nuclear - AC_MS edits - info on WEC in Saudi Arabia

-----Original Message-----
From: Nolan, Kelly M. (INTERN)
Sent: Friday, February 08, 2019 1:16 PM
To: Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: RE: Materials for Michelle's Trip Book

Thank you! I printed all of the papers needed and I am waiting on Michelle to hear how she wants it organized. She is not in her office at the moment so I will wait and see her when she gets back. Is there anything else I need to have, like the Westinghouse information that you mentioned? Or can I find that information online/in the files?

-----Original Message-----
From: Crosland, Armando (LAB)
Sent: Friday, February 08, 2019 11:51 AM
To: Nolan, Kelly M. (INTERN) <kelly nolan@nuclear.energy.gov>
Subject: Materials for Michelle's Trip Book

Kelly-

AMERICAN OVERSIGHT

Attached are the decommissioning proposals for the United States and Japan. I also attached the latest Japan memo; it mainly deals with Japan related commercial issues.

Armando Crosland
Office of International Nuclear Energy Policy and Cooperation
U.S. Department of Energy
(O): 202-586-3357
(E): Armando.Crosland@Nuclear.Energy.Gov

AMERICAN OVERSIGHT

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AMERICAN OVERSIGHT

State Equity

Trade/Commerce Equity

From: Lopatto, Jeanne T. <lopattjt@westinghouse.com>

Sent: Monday, February 18, 2019 4:57 PM

To: Nasir Abbasi

Cc: Weir, Thomas J.; (MICHELLE.SCOTT@nuclear.energy.gov); Jonathan Chesebro; Devin Horne

Subject: K.A.CARE WORKSHOP March 2-3, 2019

Hello Nasir, hope you are doing well.

AMERICAN OVERSIGHT

K.A.CARE invited Westinghouse to attend the second workshop of the FEED B Preparatory Phase in Riyadh on 02-03 /03/2019. The workshop will focus on the compliance of the Supplier Candidate's design with the Preliminary Key Requirements and include a session with the Regulatory Authority. The workshop will also include discussions with the Site Characterization Contractor concerning the available and upcoming site data.

The agenda for the two day event is attached. Would you or someone from the US Embassy like to attend for part of, or even all of the workshop? We would love to have USG support for the US team. Tom Weir (copied above) is leading our team for the visit to Riyadh. Thank you so much for considering participation. Jeanne Lopatto.

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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(b) (4)

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From: Scott, Michelle
To: Hutchins, Scott (Embassy Riyadh
Subject: RE: [EXTERNAL] RE: Fwd: K.A.CARE WORKSHOP March 2-3, 2019
Date: Monday, February 18, 2019 2:45:15 PM

I will talk with them as well.

State Equity

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: February 18, 2019 at 22:20:36 GMT+3
To: Hutchins, Scott G <HutchinsSG@state.gov>
Subject: RE: [EXTERNAL] Fwd: K.A.CARE WORKSHOP March 2-3, 2019

Definitely. I will respond tomorrow after I speak with Ed and Glen.

State Equity

Trade/Commerce Equity

AMERICAN OVERSIGHT

Trade/Commerce Equity

From: Lopatto, Jeanne T. <lopattjt@westinghouse.com>
Sent: Monday, February 18, 2019 4:57 PM
To: Nasir Abbasi
Cc: Weir, Thomas J.; (MICHELLE.SCOTT@nuclear.energy.gov); Jonathan Chesebro; Devin Horne
Subject: K.A.CARE WORKSHOP March 2-3, 2019

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AMERICAN OVERSIGHT

the US team. Tom Weir (copied above) is leading our team for the visit to Riyadh. Thank you so much for considering participation. Jeanne Lopatto.

Jeanne T. Lopatto
Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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From: Milton, Ingrid
To: Nelson, Cynthia
Cc: Scott, Michelle; Crosland, Armando (LAB)
Subject: FW: [EXTERNAL] K.A.CARE WORKSHOP March 2-3, 2019
Date: Tuesday, February 19, 2019 2:37:48 PM

Hi Cynthia,
As backup to Armando, I'm forwarding an email re: Saudi Arabia

Ingrid

Ingrid Milton | Office of Nuclear Energy | Office of Bilateral, Multilateral and Commercial Cooperation
Phone: 202.586.2122 | Email: ingrid.milton@hq.doe.gov

From: McGinnis, Edward
Sent: Monday, February 18, 2019 11:33 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>; Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>; Lefton, Madeline K. <Madeline.Lefton@nuclear.energy.gov>; Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>; Milton, Ingrid <Ingrid.Milton@hq.doe.gov>; Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: RE: [EXTERNAL] K.A.CARE WORKSHOP March 2-3, 2019

Ok thanks

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Monday, Feb 18, 2019, 11:11 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lefton, Madeline K. <Madeline.Lefton@nuclear.energy.gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Milton, Ingrid <Ingrid.Milton@hq.doe.gov>, Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: RE: [EXTERNAL] K.A.CARE WORKSHOP March 2-3, 2019

The site characterization company is ASSYSTEM based in France.

From: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Date: Monday, Feb 18, 2019, 10:09 AM
To: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lefton, Madeline K. <Madeline.Lefton@nuclear.energy.gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Milton, Ingrid <Ingrid.Milton@hq.doe.gov>, Crosland,

AMERICAN OVERSIGHT

Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: RE: [EXTERNAL] K.A.CARE WORKSHOP March 2-3, 2019

Thanks, Michelle. Also, can you remind me who the site characterization company is?

Ed

From: Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>
Date: Monday, Feb 18, 2019, 10:04 AM
To: McGinnis, Edward <Edward.McGinnis@Nuclear.Energy.Gov>
Cc: Jaworowski, Suzanne <Suzanne.Jaworowski@hq.doe.gov>, Richards, Andrew <Andrew.Richards@Nuclear.Energy.Gov>, Lefton, Madeline K. <Madeline.Lefton@nuclear.energy.gov>, Lennon, Sarah <Sarah.Lennon@Nuclear.Energy.gov>, Milton, Ingrid <Ingrid.Milton@hq.doe.gov>, Crosland, Armando (LAB) <armando.crosland@nuclear.energy.gov>
Subject: FW: [EXTERNAL] K.A.CARE WORKSHOP March 2-3, 2019

Ed,

Please see below the email from Jeanne Lopatto on WEC's next meeting with KACARE officials on the LNPP process.

Michelle

From: Lopatto, Jeanne T. <lopattjt@westinghouse.com>
Date: Monday, Feb 18, 2019, 9:06 AM
To: Nasir Abbasi <Nasir.Abbasi@trade.gov>
Cc: Weir, Thomas J. <weirtj@westinghouse.com>, Scott, Michelle <MICHELLE.SCOTT@nuclear.energy.gov>, Jon Chesebro (jonathan.chesebro@trade.gov) <jonathan.chesebro@trade.gov>, Devin Horne <Devin.Horne@trade.gov>
Subject: [EXTERNAL] K.A.CARE WORKSHOP March 2-3, 2019

Hello Nasir, hope you are doing well.

K.A.CARE invited Westinghouse to attend the second workshop of the FEED B Preparatory Phase in Riyadh on 02-03 /03/2019. The workshop will focus on the compliance of the Supplier Candidate's design with the Preliminary Key Requirements and include a session with the Regulatory Authority. The workshop will also include discussions with the Site Characterization Contractor concerning the available and upcoming site data.

The agenda for the two day event is attached. Would you or someone from the US Embassy like to attend for part of, or even all of the workshop? We would love to have USG support for the US team. Tom Weir (copied above) is leading our team for the visit to Riyadh. Thank you so much for considering participation. Jeanne Lopatto.

Jeanne T. Lopatto

AMERICAN OVERSIGHT

Vice President
Government and International Affairs
Westinghouse Electric Company
1775 Pennsylvania Ave. N.W.
Suite 250
Washington, D.C. 20006 USA
Phone: +1 (202) 945-6410
Fax: +1 (202) 945-6404
Email: lopattjt@westinghouse.com
Home Page: www.westinghousenuclear.com

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From: Peddicord, Kenneth L
To: McGinnis, Edward; Scott, Michelle
Cc: Peddicord, Kenneth L
Subject: [EXTERNAL] K.A.CARE Workshop on March 2 and 3
Date: Friday, February 22, 2019 12:40:10 AM

Ed and Michelle:

I was contacted by Tom Weir about the upcoming Second Workshop on the FEED B Preparatory Project Development Phase at K.A.CARE on March 2 and 3 in Riyadh. I will be joining the group to confirm the U.S. team commitment to human capacity building as part of the Westinghouse bid. I hope to meet with Kim Pringle during the meeting and wanted to see if there was anything I could help out with regarding the discussions about a study tour by K.A.CARE to the U.S.

Thanks,

Lee

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From: Scott, Michelle
To: Ashok Pasricha; Geoffrey Jones
Subject: RE: Advocacy Updates 5.6.2019
Date: Monday, May 6, 2019 5:47:00 PM

Ashok,

(b) (6) . I will send out a call-in number in the am.

From: Ashok Pasricha [mailto:ashok.pasricha@exim.gov]
Sent: Monday, May 06, 2019 5:44 PM
To: Scott, Michelle <michelle.scott@nuclear.energy.gov>; Cameron Dorsey <Cameron.Dorsey@trade.gov>; Postman, Max <max.postman@nnsa.doe.gov>; McKearin, Josh <josh.mckearin@hq.doe.gov>; Capoferri, Anita <anita.capoferri@hq.doe.gov>; McRae, Ben <ben.mcrae@hq.doe.gov>; CutlerKB@state.gov; BurkartAR@state.gov; Aaron.T.Weston@nsc.eop.gov; Kenneth.M.Goff@ostp.eop.gov; Jonathan Chesebro <Jonathan.Chesebro@trade.gov>; Devin Horne <Devin.Horne@trade.gov>; Geoffrey Jones <geoffrey.jones@exim.gov>; uduak.essien@exim.gov; Joyce, William <william.joyce@hq.doe.gov>; Ashok Pasricha <ashok.pasricha@exim.gov>
Cc: Miller, Barry <Barry.Miller@nrc.gov>
Subject: RE: Advocacy Updates 5.6.2019

Geoff Jones will attend and can address each of the projects
Can you provide a call in number. I may be able to call in
Thanks

Ashok Pasricha
Export-Import Bank of USA
811 Vermont Avenue N.W.
Washington D.C. 20571
Tel: (1) 202 565 3579
Cell: (1)(b) (6)

From: Scott, Michelle [mailto:michelle.scott@nuclear.energy.gov]
Sent: Monday, May 06, 2019 1:53 PM
To: Cameron Dorsey; Postman, Max; McKearin, Josh; Capoferri, Anita; McRae, Ben; CutlerKB@state.gov; BurkartAR@state.gov; Aaron.T.Weston(b) (6) Kenneth.M.Goff(b) (6) Jonathan Chesebro; Devin Horne; Geoffrey Jones; Ashok Pasricha; uduak.essien@exim.gov; Joyce, William
Cc: Miller, Barry
Subject: RE: Advocacy Updates 5.6.2019

[EXTERNAL E-MAIL]

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Thanks Cameron! We will address these tomorrow at the meeting.

State – I know Al and Kirsten are not going to attend tomorrow's meeting due to other prior commitments; but I would appreciate your views on these requests by COB Wednesday.

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