

**Subject:** [Records Center] Public Records Request :: P000475-120121  
**Date:** Thursday, January 27, 2022 at 6:23:03 PM Eastern Standard Time  
**From:** Washington State Legislature Public Records  
**To:** AO Records

EXTERNAL SENDER

--- Please respond above this line ---



01/27/2022

RE: PUBLIC RECORDS REQUEST of December 01, 2021, Reference # P000475-120121

Dear Austin Evers,

We have completed Installment 2 of records responsive to your public records request number P000475-120121, received in our office on December 01, 2021.

**You requested the following**

*"All email communications (including emails, email attachments, complete email chains, calendar invitations, and calendar invitation attachments) and text messages or messages on messaging platforms (such as Slack, GChat or Google Hangouts, Lync, Skype, Twitter direct messages, Facebook messages, WhatsApp, Signal, Telegram, or Parler) between Representatives Robert Sutherland, Brad Klippert, or Vicki Kraft and the external individuals listed below (including but not limited to communications from the email address specified below).*

*Please provide all responsive records from June 1, 2020 through the date the search is conducted.*

*External Individuals*

- 1. Arizona Senator Wendy Rogers (wrogers@azleg.gov)*
- 2. Arizona Senator Sonny Borrelli (sborrelli@azleg.gov)*
- 3. Arizona Senator Kelly Townsend (ktownsend@azleg.gov)*
- 4. Arizona Representative Mark Finchem (mfinchem@aleg.gov)*
- 5. Colorado Representative Ron Hanks (ron.hanks.house@state.co.us)*

6. Florida Representative Anthony Sabatini (Anthony.Sabatini@myfloridahouse.gov)
7. Iowa Representative Jim Carlin (jim.carlin@legis.iowa.gov)
8. Iowa Representative Sandy Salmon (sandy.salmon@legis.iowa.gov)
9. Michigan Representative Steve Carra (SteveCarra@house.mi.gov)
10. Michigan Representative Daire Rendon (DaireRendon@house.mi.gov)
11. Minnesota Representative Glenn Gruenhagen (rep.glenn.gruenhagen@house.mn)
12. Missouri Representative Ann Kelley (Ann.Kelley@house.mo.gov)
13. Missouri Representative Cheri Toalson-Reisch (cheri-toalson-reisch@house.mo.gov)
14. Montana Senator Theresa Manzella (Theresa.manzella@mtleg.gov)
15. Montana Representative Brad Tschida (brad@tschida.org)
16. Montana Representative Bob Phalen (bob.phalen@mtleg.gov)
17. Montana Representative Steve Gunderson (steve.gunderson@mtleg.gov)
18. New Hampshire Representative Mark Alliegro (Mark.Alliegro@leg.state.nh.us)
19. North Dakota Representative Jeffrey Magrum (jmagrum@nd.gov)
20. Oklahoma Senator Nathan Dahm (dahm@oksenate.gov)
21. Oregon Representative Lily Morgan (Rep.LilyMorgan@oregonlegislature.gov)
22. Pennsylvania Senator Doug Mastriano (dmastriano@pasen.gov)
23. Pennsylvania Representative Stephanie Borowicz (sborowicz@pahousegop.com)
24. Texas Representative Steve Toth (steve.toth@house.texas.gov)
25. Utah Representative Phillip Lyman (plyman@le.utah.gov)
26. Wisconsin Representative Tim Ramthun (Rep.Ramthun@legis.wisconsin.gov)
27. Virginia Senator Amanda Chase (district11@senate.virginia.gov)”

You can access the records through the "My Records Center" page of our online request portal.

### **Responsive Records**

This installment includes **10 email records** from Representative Kraft, and **44 email records** from Representative Sutherland.

We are still searching and gathering additional records responsive to your request. We estimate having the next installment available **on or before February 9, 2022.**

Please contact my office if you have any questions or concerns.

Sincerely,

Samina Mays

---

To monitor the progress or update this request please log into the [Wash. State Legislature's Public Records Center](#)



**From:** Senator Amanda Chase <amanda@chaseforva.com>  
**Sent:** Friday, August 20, 2021 9:04 PM EDT  
**To:** Debbie Gwynn <debbie@chaseforva.com>  
**CC:** Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>; Ron Hanks <ronhanksforhd60@gmail.com>  
**Subject:** Re: Legislator Caucus

CAUTION: External email.

Welcome! Look forward to seeing you on Tuesday!  
Best regards,  
Sen Amanda Chase  
Virginia

Sent from my iPhone

On Aug 20, 2021, at 2:02 PM, Debbie Gwynn <debbie@chaseforva.com> wrote:

Hello All,

I will insure Ron gets included on our distribution list. There will be a mailing going out today to provide the Zoom info for everyone.

Debbie Gwynn  
Executive Assistant to  
Senator Amanda Chase  
804-332-0353

On Aug 20, 2021, at 1:33 AM, Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov> wrote:

Thanks for reaching out, Ron.

I've cc'd Amanda Chase, Senator from VA and Debbie her assistant, who will be putting the legislative calls together for the group who attended the Symposium.

Please include Ron Hanks on these calls per his emails below.

Looking forward to these calls.

Best,  
Vicki

Rep. Vicki Kraft  
WA State Representative  
17th Legislative District  
Olympia office: 360.786.7994

---

**From:** Ron Hanks <ronhanksforhd60@gmail.com>  
**Sent:** Thursday, August 19, 2021 3:32:56 PM  
**To:** Mark Alliegro@leg.state.nh.us <Mark.Alliegro@leg.state.nh.us>; Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>; Rep.Ramthun@legis.wisconsin.gov <Rep.Ramthun@legis.wisconsin.gov>; WROGERS@azleg.gov <WROGERS@azleg.gov>; Ron.Hanks.house@state.co.us <Ron.Hanks.house@state.co.us>  
**Subject:** Legislator Caucus

CAUTION: External email.

Good Afternoon, Mark, Robert, Vicki, Tim, Wendy,

I didn't attend the legislator meeting on the 3<sup>rd</sup> day of the Symposium. I was determined to get a Wrap-Up Briefing from Lindell's team, and I didn't want to leave the floor.

I'm sending this email to ask to be included on the email/zoom roster, in case I dropped off.

It was a pleasure meeting you all. I hope to see you again soon.

Respectfully,

<image002.png>  
Ron Hanks, Representative  
Colorado House District 60  
[Ron.Hanks.House@state.co.us](mailto:Ron.Hanks.House@state.co.us)  
Cell: 719 352 5264

CAUTION: This email originated from outside of the Legislature. Do not click links or open attachments unless you recognize the sender and know the content is safe.

CAUTION: This email originated from outside of the Legislature. Do not click links or open attachments unless you recognize the sender and know the content is safe.

**From:** Kraft, Rep. Vicki on behalf of Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>  
**Sent:** Friday, August 20, 2021 1:33 AM EDT  
**To:** Ron Hanks <ronhanksforhd60@gmail.com>; amanda chase <Amanda@ChaseForVA.com>  
**CC:** Debbie Gwynn <debbie@chaseforva.com>  
**Subject:** Re: Legislator Caucus

Thanks for reaching out, Ron.

I've cc'd Amanda Chase, Senator from VA and Debbie her assistant, who will be putting the legislative calls together for the group who attended the Symposium.

Please include Ron Hanks on these calls per his emails below.

Looking forward to these calls.

Best,  
Vicki

Rep. Vicki Kraft  
WA State Representative  
17th Legislative District  
Olympia office: 360.786.7994

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**Sent:** Thursday, August 19, 2021 3:32:56 PM  
**To:** Mark.Alliegro@leg.state.nh.us <Mark.Alliegro@leg.state.nh.us>; Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>; Rep.Ramthun@legis.wisconsin.gov <Rep.Ramthun@legis.wisconsin.gov>; WROGERS@azleg.gov <WROGERS@azleg.gov>; Ron.Hanks.house@state.co.us <Ron.Hanks.house@state.co.us>  
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Respectfully,



Ron Hanks, Representative  
Colorado House District 60  
Ron.Hanks.House@state.co.us  
Cell: 719 352 5264

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**From:** Debbie Gwynn <debbie@chaseforva.com>  
**Sent:** Friday, August 20, 2021 2:01 PM EDT  
**To:** Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>  
**CC:** Ron Hanks <ronhanksforhd60@gmail.com>; amanda chase <Amanda@ChaseForVA.com>  
**Subject:** Re: Legislator Caucus

CAUTION:External email.

Hello All,

I will insure Ron gets included on our distribution list. There will be a mailing going out today to provide the Zoom info for everyone.

Debbie Gwynn  
Executive Assistant to  
Senator Amanda Chase  
804-332-0353

On Aug 20, 2021, at 1:33 AM, Kraft, Rep. Vicki <[Vicki.Kraft@leg.wa.gov](mailto:Vicki.Kraft@leg.wa.gov)> wrote:

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Rep. Vicki Kraft  
WA State Representative  
17th Legislative District  
Olympia office: 360.786.7994

---

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**Sent:** Thursday, August 19, 2021 3:32:56 PM  
**To:** [Mark.Alliegro@leg.state.nh.us](mailto:Mark.Alliegro@leg.state.nh.us) <[Mark.Alliegro@leg.state.nh.us](mailto:Mark.Alliegro@leg.state.nh.us)>; Sutherland, Rep. Robert <[Robert.Sutherland@leg.wa.gov](mailto:Robert.Sutherland@leg.wa.gov)>; Kraft, Rep. Vicki <[Vicki.Kraft@leg.wa.gov](mailto:Vicki.Kraft@leg.wa.gov)>; [Rep.Ramthun@legis.wisconsin.gov](mailto:Rep.Ramthun@legis.wisconsin.gov) <[Rep.Ramthun@legis.wisconsin.gov](mailto:Rep.Ramthun@legis.wisconsin.gov)>; [WROGERS@azleg.gov](mailto:WROGERS@azleg.gov) <[WROGERS@azleg.gov](mailto:WROGERS@azleg.gov)>; [Ron.Hanks.house@state.co.us](mailto:Ron.Hanks.house@state.co.us) <[Ron.Hanks.house@state.co.us](mailto:Ron.Hanks.house@state.co.us)>  
**Subject:** Legislator Caucus

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Colorado House District 60  
[Ron.Hanks.House@state.co.us](mailto:Ron.Hanks.House@state.co.us)  
Cell: 719 352 5264

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**CAUTION:** This email originated from outside of the Legislature. Do not click links or open attachments unless you recognize the sender and know the content is safe.

**From:** Kraft, Rep. Vicki  
**Sent:** Thursday, August 19, 2021 5:01 PM EDT  
**To:** Debbie Gwynn <debbie@chaseforva.com>  
**CC:** amanda chase <Amanda@ChaseForVA.com>; Daniells, Patty <Patty.Daniells@leg.wa.gov>; Vicki Kraft <vickickraft@gmail.com>; surfsupnow@protonmail.com <surfsupnow@protonmail.com>  
**Subject:** RE: Meeting at 1:00pm Today

Thanks Debbie.

Best,  
Vicki



Vicki Kraft  
WA State Representative  
17th Legislative District  
Olympia Office: 360-786-7994  
<http://vickikraft.housepublicans.wa.gov/>

Sign up to receive my email updates by clicking the link below:  
<https://public.govdelivery.com/accounts/WALEGHRCKRAFT/subscriber/new>

-



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**From:** Debbie Gwynn <debbie@chaseforva.com>  
**Sent:** Thursday, August 19, 2021 10:17 AM  
**To:** Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>  
**Cc:** amanda chase <Amanda@ChaseForVA.com>; Daniells, Patty <Patty.Daniells@leg.wa.gov>; Vicki Kraft <vickickraft@gmail.com>; surfsupnow@protonmail.com; Debbie Gwynn <debbie@chaseforva.com>  
**Subject:** Re: Meeting at 1:00pm Today

**CAUTION:** External email.

Hi Vicki,

We definitely have you on our distribution list for the call coming up next Tuesday, 8/24. Thanks so much!

Debbie Gwynn  
Executive Assistant to  
Senator Amanda Chase  
804-332-0353

On Aug 19, 2021, at 12:59 PM, Kraft, Rep. Vicki <[Vicki.Kraft@leg.wa.gov](mailto:Vicki.Kraft@leg.wa.gov)> wrote:

Amanda –  
Great to meet you in SD.

Please include me (see cc'd emails and include those also on communications) on future calls/meetings.

Thank you!

Best,  
Vicki

<image004.png>  
Vicki Kraft  
WA State Representative

17th Legislative District  
Olympia Office: 360-786-7994  
<http://vickikraft.housepublicans.wa.gov/>

Sign up to receive my email updates by clicking the link below:  
<https://public.govdelivery.com/accounts/WALEGHRCKRAFT/subscriber/new>

<image003.png>

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**From:** Debbie Gwynn <[debbie@chaseforva.com](mailto:debbie@chaseforva.com)>  
**Sent:** Thursday, August 12, 2021 9:09 AM  
**To:** [Anne\\_Copp2010@yahoo.com](mailto:Anne_Copp2010@yahoo.com); [annie@electannieblack.com](mailto:annie@electannieblack.com); [bkintner@leg.ne.gov](mailto:bkintner@leg.ne.gov); Klippert, Rep. Brad <[Brad.Klippert@leg.wa.gov](mailto:Brad.Klippert@leg.wa.gov)>; [jb@buongiorno2022.com](mailto:jb@buongiorno2022.com); [jhill9693@gmail.com](mailto:jhill9693@gmail.com); [julie.fryemueller@sdlegislature.gov](mailto:julie.fryemueller@sdlegislature.gov); [kevin.jensen@sdlegislature.gov](mailto:kevin.jensen@sdlegislature.gov); [markfinchem@me.com](mailto:markfinchem@me.com); [paulfielder@blackfoot.net](mailto:paulfielder@blackfoot.net); [plyman@le.utah.gov](mailto:plyman@le.utah.gov); [rep.ramthun@legis.wisconsin.gov](mailto:rep.ramthun@legis.wisconsin.gov); Sutherland, Rep. Robert <[Robert.Sutherland@leg.wa.gov](mailto:Robert.Sutherland@leg.wa.gov)>; [sonnyborrelli@hotmail.com](mailto:sonnyborrelli@hotmail.com); [steven.galloway@mtleg.gov](mailto:steven.galloway@mtleg.gov); [theresa.manzella@mtleg.gov](mailto:theresa.manzella@mtleg.gov); [tina.mulally@sdlegislature.gov](mailto:tina.mulally@sdlegislature.gov); [troyforusa@protonmail.com](mailto:troyforusa@protonmail.com); Kraft, Rep. Vicki <[Vicki.Kraft@leg.wa.gov](mailto:Vicki.Kraft@leg.wa.gov)>; [wrogers@azleg.gov](mailto:wrogers@azleg.gov)  
**Cc:** <[gratton@chaseforva.com](mailto:gratton@chaseforva.com)> <[gratton@chaseforva.com](mailto:gratton@chaseforva.com)>; Debbie Gwynn <[debbie@chaseforva.com](mailto:debbie@chaseforva.com)>; Shayne Snavelly <[shayne@chaseforva.com](mailto:shayne@chaseforva.com)>; amanda chase <[amanda@chaseforva.com](mailto:amanda@chaseforva.com)>  
**Subject:** Meeting at 1:00pm Today

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Hello All,

Super excited to reunite with trailblazers Arizona Senator Wendy Rogers, Sonny Borelli and meet Representative Mark Finchem. We've met several times over the past couple of days and have a plan moving forward regarding protecting voter confidence in future elections.

Today we will meet again with other legislators from around the country at 1:00pm to discuss our findings over the past 3 days. This meeting will take place upstairs in the back room where we met yesterday.

Interested legislators and press can join us today in the upstairs press room for a press conference at 3pm.

Best,

Senator Amanda Chase  
District 11 - Virginia  
804-370-8727  
[Amanda@ChaseForVA.com](mailto:Amanda@ChaseForVA.com)

-----  
Debbie Gwynn/Executive Assistant  
804-332-0353 / [debbie@chaseforva.com](mailto:debbie@chaseforva.com)

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**From:** Debbie Gwynn <debbie@chaseforva.com>  
**Sent:** Thursday, August 19, 2021 1:16 PM EDT  
**To:** Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>  
**CC:** amanda chase <Amanda@ChaseForVA.com>; Daniells, Patty <Patty.Daniells@leg.wa.gov>; Vicki Kraft <vickikraft@gmail.com>; surfsupnow@protonmail.com <surfsupnow@protonmail.com>; Debbie Gwynn <debbie@chaseforva.com>  
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Executive Assistant to  
Senator Amanda Chase  
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Please include me (see cc'd emails and include those also on communications) on future calls/meetings.

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Vicki Kraft  
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-

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**To:** [Anne\\_Copp2010@yahoo.com](mailto:Anne_Copp2010@yahoo.com); [annie@electannieblack.com](mailto:annie@electannieblack.com); [bkintner@leg.ne.gov](mailto:bkintner@leg.ne.gov); Klippert, Rep. Brad <[Brad.Klippert@leg.wa.gov](mailto:Brad.Klippert@leg.wa.gov)>; [jb@buongiorno2022.com](mailto:jb@buongiorno2022.com); [jhill9693@gmail.com](mailto:jhill9693@gmail.com); [julie.fryemueller@sdlegislature.gov](mailto:julie.fryemueller@sdlegislature.gov); [kevin.jensen@sdlegislature.gov](mailto:kevin.jensen@sdlegislature.gov); [markfinchem@me.com](mailto:markfinchem@me.com); [paulfielder@blackfoot.net](mailto:paulfielder@blackfoot.net); [plyman@le.utah.gov](mailto:plyman@le.utah.gov); [rep.ramthun@legis.wisconsin.gov](mailto:rep.ramthun@legis.wisconsin.gov); Sutherland, Rep. Robert <[Robert.Sutherland@leg.wa.gov](mailto:Robert.Sutherland@leg.wa.gov)>; [sonnyborrelli@hotmail.com](mailto:sonnyborrelli@hotmail.com); [steven.galloway@mtleg.gov](mailto:steven.galloway@mtleg.gov); [theresa.manzella@mtleg.gov](mailto:theresa.manzella@mtleg.gov); [tina.mulally@sdlegislature.gov](mailto:tina.mulally@sdlegislature.gov); [troyforusa@protonmail.com](mailto:troyforusa@protonmail.com); Kraft, Rep. Vicki <[Vicki.Kraft@leg.wa.gov](mailto:Vicki.Kraft@leg.wa.gov)>; [wrogers@azleg.gov](mailto:wrogers@azleg.gov)  
**Cc:** <[gratton@chaseforva.com](mailto:gratton@chaseforva.com)> <[gratton@chaseforva.com](mailto:gratton@chaseforva.com)>; Debbie Gwynn <[debbie@chaseforva.com](mailto:debbie@chaseforva.com)>; Shayne Snavelly <[shayne@chaseforva.com](mailto:shayne@chaseforva.com)>; amanda chase <[amanda@chaseforva.com](mailto:amanda@chaseforva.com)>  
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Debbie Gwynn/Executive Assistant  
804-332-0353 / [debbie@chaseforva.com](mailto:debbie@chaseforva.com)

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**From:** Nurul Mozumder <nurul.mozumder@bristol.ac.uk>

**Sent:** Tuesday, June 08, 2021 3:38 PM EDT

**To:** Tyler Lindholm <Tyler.Lindholm@wyoleg.gov>; Tom Crank <Tom.Crank@wyoleg.gov>; Tom Walters <Tom.Walters@wyoleg.gov>; Tim Hallinan <Tim.Hallinan@wyoleg.gov>; Tim Salazar <Tim.Salazar@wyoleg.gov>; Sue Wilson <Sue.Wilson@wyoleg.gov>; Steve Harshman <Steve.Harshman@wyoleg.gov>; Stan Blake <Stan.Blake@wyoleg.gov>; Shelly Duncan <Shelly.Duncan@wyoleg.gov>; Scott Clem <Scott.Clem@wyoleg.gov>; Sara Burlingame <Sara.Burlingame@wyoleg.gov>; Sandy Newsome <Sandy.Nesome@wyoleg.gov>; Richard Tass <Richard.Tass@wyoleg.gov>; Pat Sweeney <Pat.Sweeney@wyoleg.gov>; Mike Greear <Mike.Greear@wyoleg.gov>; Mark Kinner <Mark.Kinner@wyoleg.gov>; Mark Jennings <Mark.Jennings@wyoleg.gov>; Lloyd Larsen <Lloyd.Larsen@wyoleg.gov>; Mike Yin <Mike.Yin@wyoleg.gov>; Landon Brown <Landon.Brown@wyoleg.gov>; Kevin O'Hearn <Kevin.O'Hearn@wyoleg.gov>; John Winter <John.Winter@wyoleg.gov>; John Freeman <John.Freeman@wyoleg.gov>; John Eklund <John.Eklund@wyoleg.gov>; Joe MacGuire <Joe.MacGuire@wyoleg.gov>; JoAnn Dayton-Selman <JoAnn.Dayton-Selman@wyoleg.gov>; Jim Roscoe <Jim.Roscoe@wyoleg.gov>; Jim Blackburn <Jim.Blackburn@wyoleg.gov>; Jerry Paxton <Jerry.Paxton@wyoleg.gov>; Jerry Obermueller <Jerry.Obermueller@wyoleg.gov>; Jared Olsen <Jared.Olsen@wyoleg.gov>; Jamie Flitner <Jamie.Flitner@wyoleg.gov>; Hans Hunt <hans.hunt@wyoleg.gov>; Garry Piiparinen <Garry.Piiparinen@wyoleg.gov>; Evan Simpson <Evan.Simpson@wyoleg.gov>; Eric Barlow <Eric.Barlow@wyoleg.gov>; Donald Burkhart <Donald.Burkhart@wyoleg.gov>; David Northrup <David.Northrup@wyoleg.gov>; David Miller <David.Miller@wyoleg.gov>; Danny Eyre <Danny.Eyre@wyoleg.gov>; Dan Furphy <Dan.Furphy@wyoleg.gov>; Dan Laursen <Dan.Laursen@wyoleg.gov>; Dan Kirkbride <Dan.Kirkbride@wyoleg.gov>; Dan Zwonitzer <Dan.Zwonitzer@wyoleg.gov>; Cyrus Western <Cyrus.Western@wyoleg.gov>; Clark Stith <Clark.Stith@wyoleg.gov>; Clarence Styvar <Clarence.Styvar@wyoleg.gov>; Chuck Gray <Chuck.Gray@wyoleg.gov>; Christopher Knapp <Christopher.Knapp@wyoleg.gov>; Charles Pelkey <Charles.Pelkey@wyoleg.gov>; Cathy Connolly <Cathy.Connolly@wyoleg.gov>; Bob Nicholas <Bob.Nicholas@wyoleg.gov>; Bill Pownall <Bill.Pownall@wyoleg.gov>; Bill Haley <Bill.Haley@wyoleg.gov>; Bill Henderson <Bill.Henderson@wyoleg.gov>; Art Washut <Art.Washut@wyoleg.gov>; Andy Schwartz <Andy.Schwartz@wyoleg.gov>; Andi Clifford <Andi.Clifford@wyoleg.gov>; Albert Sommers <Albert.Sommers@wyoleg.gov>; Aaron Clausen <Aaron.Clausen@wyoleg.gov>; Warren Petryk <Rep.Petryk@legis.wisconsin.gov>; Tyler Vorpagel <Rep.Vorpagel@legis.wisconsin.gov>; Tyler August <Rep.August@legis.wisconsin.gov>; Treig Pronschinske <Rep.Pronschinske@legis.wisconsin.gov>; Travis Tranel <Rep.Tranel@legis.wisconsin.gov>; Tony Kurtz <Rep.Kurtz@legis.wisconsin.gov>; Todd Novak <Rep.Novak@legis.wisconsin.gov>; Tod Ohnstad <Rep.Ohnstad@legis.wisconsin.gov>; Tip McGuire <Rep.McGuire@legis.wisconsin.gov>; Timothy Ramthun <Rep.Ramthun@legis.wisconsin.gov>; Terry Katsma <Rep.Katsma@legis.wisconsin.gov>; Steve Doyle <Rep.Doyle@legis.wisconsin.gov>; Staush Gruszynski <Rep.Gruszynski@legis.wisconsin.gov>; Sody Pope <Rep.Pope@legis.wisconsin.gov>; Shelia Stubbs <Rep.Stubbs@legis.wisconsin.gov>; Shannon Zimmerman <Rep.Zimmerman@legis.wisconsin.gov>; Shae Sortwell <Rep.Sortwell@legis.wisconsin.gov>; Scott Allen <Rep.Allen@legis.wisconsin.gov>; Scott Krug <Rep.Krug@legis.wisconsin.gov>; Samantha Kerkman <Rep.Kerkman@legis.wisconsin.gov>; Ron Tusler <Rep.Tusler@legis.wisconsin.gov>; Romaine Quinn <Rep.Quinn@legis.wisconsin.gov>; Robyn Vining <Rep.Vining@legis.wisconsin.gov>; Robin Vos <Rep.Vos@legis.wisconsin.gov>; Robert Wittke <Rep.Wittke@legis.wisconsin.gov>; Robert Brooks <Rep.Rob.Brooks@legis.wisconsin.gov>; Rob Hutton <Rep.Hutton@legis.wisconsin.gov>; Rob Swearingen <Rep.Swearingen@legis.wisconsin.gov>; Rob Stafsholt <Rep.Stafsholt@legis.wisconsin.gov>; Rob Summerfield <Rep.Summerfield@legis.wisconsin.gov>; Rick Gundrum <Rep.Gundrum@legis.wisconsin.gov>; Paul Tittl <Rep.Tittl@legis.wisconsin.gov>; Patrick Snyder <Rep.Snyder@legis.wisconsin.gov>; Nick Milroy <Rep.Milroy@legis.wisconsin.gov>; Nancy VanderMeer <Rep.VanderMeer@legis.wisconsin.gov>; Mike Rohrkaste <Rep.Rohrkaste@legis.wisconsin.gov>; Mike Kuglitsch <Rep.Kuglitsch@legis.wisconsin.gov>; Michael Schraa <Rep.Schraa@legis.wisconsin.gov>; Melissa Sargent <Rep.Sargent@legis.wisconsin.gov>; Mary Felzkowski <Rep.Felzkowski@legis.wisconsin.gov>; Mark Spreitzer <Rep.Spreitzer@legis.wisconsin.gov>; Mark Born <Rep.Born@legis.wisconsin.gov>; Marisabel Cabrera <Rep.Cabrera@legis.wisconsin.gov>; Loren Oldenburg <Rep.Oldenburg@legis.wisconsin.gov>; Lisa Subeck <Rep.Subeck@legis.wisconsin.gov>; LaKeshia Myers <Rep.Myers@legis.wisconsin.gov>; Kevin Petersen <Rep.Petersen@legis.wisconsin.gov>; Ken Skowronski <Rep.Skowronski@legis.wisconsin.gov>; Katrina Shankland <Rep.Shankland@legis.wisconsin.gov>; Kalan Haywood <Rep.Haywood@legis.wisconsin.gov>; Jonathan Brostoff <Rep.Brostoff@legis.wisconsin.gov>; Jon Plumer <Rep.Plumer@legis.wisconsin.gov>; John Jagler <Rep.Jagler@legis.wisconsin.gov>; John Spiros <Rep.Spiros@legis.wisconsin.gov>; John Macco <Rep.Macco@legis.wisconsin.gov>; Joel Kitchens <Rep.Kitchens@legis.wisconsin.gov>; Joe Sanfelippo <Rep.Sanfelippo@legis.wisconsin.gov>; Jodi Emerson <Rep.Emerson@legis.wisconsin.gov>; JoCasta Zamarripa <Rep.Zamarripa@legis.wisconsin.gov>; Joan Ballweg <Rep.Ballweg@legis.wisconsin.gov>; Jimmy Anderson <Rep.Anderson@legis.wisconsin.gov>; Jim Steineke <Rep.Steineke@legis.wisconsin.gov>; Jim Ott <Rep.OttJ@legis.wisconsin.gov>; Jill Billings <Rep.Billings@legis.wisconsin.gov>; Jessie Rodriguez <Rep.Rodriguez@legis.wisconsin.gov>; Jesse James <Rep.James@legis.wisconsin.gov>; Jeremy Thiesfeldt <Rep.Thiesfeldt@legis.wisconsin.gov>; Jeffrey Mursau <Rep.Mursau@legis.wisconsin.gov>; Jason Fields <Rep.Fields@legis.wisconsin.gov>; Janel Brandtjen <Rep.Brandtjen@legis.wisconsin.gov>; James Edming <Rep.Edming@legis.wisconsin.gov>; Greta Neubauer <Rep.Neubauer@legis.wisconsin.gov>; Gordon Hintz <Rep.Hintz@legis.wisconsin.gov>; Gary Tauchen <Rep.Tauchen@legis.wisconsin.gov>; Gary Hebl <Rep.Hebl@legis.wisconsin.gov>; Gae Magnafici <Rep.Magnafici@legis.wisconsin.gov>; Evan Goyke <Rep.Goyke@legis.wisconsin.gov>; Don Vruwink <Rep.Vruwink@legis.wisconsin.gov>; Dianne Hesselbein <Rep.Hesselbein@legis.wisconsin.gov>; Debra Kolste <Rep.Kolste@legis.wisconsin.gov>; David Steffen <Rep.Steffen@legis.wisconsin.gov>; David Bowen <Rep.Bowen@legis.wisconsin.gov>; Dave Murphy <Rep.Murphy@legis.wisconsin.gov>; Dave Considine <Rep.Considine@legis.wisconsin.gov>; Daniel Riemer <Rep.Riemer@legis.wisconsin.gov>; Daniel Knodl <Rep.Knodl@legis.wisconsin.gov>; Cody Horlacher <Rep.Horlacher@legis.wisconsin.gov>; Cindi Duchow <Rep.Duchow@legis.wisconsin.gov>; Chuck Wichgers <Rep.Wichgers@legis.wisconsin.gov>; Christine Sinicki <Rep.Sinicki@legis.wisconsin.gov>; Bob Kulp <Rep.Kulp@legis.wisconsin.gov>; Beth Meyers

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<Rep.Meyers@legis.wisconsin.gov>; Barbara Dittrich <Rep.Dittrich@legis.wisconsin.gov>; Amy Loudenberg <Rep.Loudenberg@legis.wisconsin.gov>; Amanda Stuck <Rep.Stuck@legis.wisconsin.gov>; Zack Maynard <zack.maynard@wvhouse.gov>; Adam Neylon <Rep.Neylon@legis.wisconsin.gov>; William Anderson <bill.anderson@wvhouse.gov>; Wayne Clark <wayne.clark@wvhouse.gov>; Vernon Criss <vernon.criss@wvhouse.gov>; Ty Nestor <ty.nestor@wvhouse.gov>; Trenton Barnhart <trenton.barnhart@wvhouse.gov>; Tony Paynter <tony.paynter@wvhouse.gov>; Tom Fast <tom.fast@wvhouse.gov>; Todd Longanacre <todd.longanacre@wvhouse.gov>; Terri Sypolt <terri.sypolt@wvhouse.gov>; Steve Westfall <steve.westfall@wvhouse.gov>; Shawn Fluharty <shawn.fluharty@wvhouse.gov>; Shannon Kimes <shannon.kimes@wvhouse.gov>; Sean Hornbuckle <sean.hornbuckle@wvhouse.gov>; Ruth Rowan <ruth.rowan@wvhouse.gov>; Roy Cooper <roy.cooper@wvhouse.gov>; Roger Hanshaw <roger.hanshaw@wvhouse.gov>; Roger Conley <roger.conley@wvhouse.gov>; Riley Keaton <riley.keaton@wvhouse.gov>; Ric Griffith <ric.griffith@wvhouse.gov>; Phillip Diserio <phillip.diserio@wvhouse.gov>; Phil Mallow <phil.mallow@wvhouse.gov>; Paul Espinosa <paul.espinosa@wvhouse.gov>; Pat McGeehan <pat.mcgeehan@wvhouse.gov>; Nathan Brown <nathan.brown@wvhouse.gov>; Moore Capito <moore.capito@wvhouse.gov>; Mike Pushkin <mike.pushkin@wvhouse.gov>; Mick Bates <mick.bates@wvhouse.gov>; Matthew Rohrbach <matthew.rohrbach@wvhouse.gov>; Marty Gearheart <marty.gearheart@wvhouse.gov>; Mark Zatezalo <mark.zatezalo@wvhouse.gov>; Mark Dean <mark.dean@wvhouse.gov>; Margitta Mazzocchi <margitta.mazzocchi@wvhouse.gov>; Lisa Zukoff <lisa.zukoff@wvhouse.gov>; Laura Kimble <laura.kimble@wvhouse.gov>; Larry Rowe <larry.rowe@wvhouse.gov>; Larry Pack <larry.pack@wvhouse.gov>; Ken Reed <ken.reed@wvhouse.gov>; Kayla Young <kayla.young@wvhouse.gov>; Kayla Kessinger <kayla.kessinger@wvhouse.gov>; Joshua Higginbotham <joshua.higginbotham@wvhouse.gov>; Josh Holstein <josh.holstein@wvhouse.gov>; Jordan Bridges <jordan.bridges@wvhouse.gov>; Jonathan Pinson <jonathan.pinson@wvhouse.gov>; Johnnie Wamsley <johnnie.wamsley@wvhouse.gov>; John Kelly <john.kelly@wvhouse.gov>; John Hott <john.hott@wvhouse.gov>; John Hardy <john.hardy@wvhouse.gov>; John Doyle <johndoyle@wvhouse.gov>; John Williams <john.williams@wvhouse.gov>; John Mandt <john.mandt@wvhouse.gov>; Joey Garcia <joe.garcia@wvhouse.gov>; Joe Ellington <joe.ellington@wvhouse.gov>; Joe Statler <joe.statler@wvhouse.gov>; Joe Jeffries <joe.jeffries@wvhouse.gov>; Jim Barach <jim.barach@wvhouse.gov>; Jeffries Jennings <buck.jennings@wvhouse.gov>; Jeffrey Pack <jeffrey.pack@wvhouse.gov>; Jason Barrett <jasonbarrett@wvhouse.gov>; Heather Tully <heather.tully@wvhouse.gov>; Guy Ward <guy.ward@wvhouse.gov>; George Miller <george.miller@wvhouse.gov>; Geoff Foster <geoff.foster@wvhouse.gov>; Gary Howell <gary.howell@wvhouse.gov>; Evan Worrell <evan.worrell@wvhouse.gov>; Evan Hansen <evan.hansen@wvhouse.gov>; Erika Storch <erikka.storch@wvhouse.gov>; Eric Householder <eric.householder@wvhouse.gov>; Ed Evans <ed.evans@wvhouse.gov>; Doug Smith <doug.smith@wvhouse.gov>; Doug Skaff <doug.skaff@wvhouse.gov>; Don Forsht <don.forsht@wvhouse.gov>; Dianna Graves <dianna.graves@wvhouse.gov>; Derrick Evans <derrick.evans@wvhouse.gov>; Dean Jeffries <dean.jeffries@wvhouse.gov>; David Kelly <david.kelly@wvhouse.gov>; David Pethel <dave.pethel@wvhouse.gov>; Danny Hamrick <danny.hamrick@wvhouse.gov>; Danielle Walker <danielle.walker@wvhouse.gov>; Daniel Linville <daniel.linville@wvhouse.gov>; Dana Ferrell <dana.ferrell@wvhouse.gov>; Cody Thompson <cody.thompson@wvhouse.gov>; Clay Riley <clay.riley@wvhouse.gov>; Chuck Horst <charles.horst@wvhouse.gov>; Chris Toney <chris.toney@wvhouse.gov>; Chris Pritt <chris.pritt@wvhouse.gov>; Chris Phillips <chris.phillips@wvhouse.gov>; Charlie Reynolds <charlie.reynolds@wvhouse.gov>; Chad Lovejoy <chad.lovejoy@wvhouse.gov>; Carl Martin <carl.martin@wvhouse.gov>; Caleb Hanna <caleb.hanna@wvhouse.gov>; Bryan Ward <bryan.ward@wvhouse.gov>; Brent Boggs <brent.boggs@wvhouse.gov>; Brandon Steele <brandon.steele@wvhouse.gov>; Ben Queen <ben.queen@wvhouse.gov>; Barry Bruce <barry.bruce@wvhouse.gov>; Barbara Fleischauer <barbaraf@wvhouse.gov>; Austin Haynes <austin.haynes@wvhouse.gov>; Amy Summers <amy.summers@wvhouse.gov>; Adam Burkhammer <adam.burkhammer@wvhouse.gov>; Hudgins, Rep. Zack <Zack.Hudgins@leg.wa.gov>; Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>; Slatter, Rep. Vandana <Vandana.Slatter@leg.wa.gov>; Dent, Rep. Tom <Tom.Dent@leg.wa.gov>; Orwall, Rep. Tina <Tina.Orwall@leg.wa.gov>; Ormsby, Rep. Timm <Timm.Ormsby@leg.wa.gov>; Senn, Rep. Tana <Tana.Senn@leg.wa.gov>; Peterson, Rep. Strom <Strom.Peterson@leg.wa.gov>; Tharinger, Rep. Steve <Steve.Tharinger@leg.wa.gov>; Kirby, Rep. Steve <Steve.Kirby@leg.wa.gov>; Bergquist, Rep. Steve <Steve.Bergquist@leg.wa.gov>; Rude, Rep. Skyler <Skyler.Rude@leg.wa.gov>; Appleton, Rep. Sherry <Sherry.Appleton@leg.wa.gov>; Kloba, Rep. Shelley <Shelley.Kloba@leg.wa.gov>; Santos, Rep. Sharon Tomiko <SharonTomiko.Santos@leg.wa.gov>; Wylie, Rep. Sharon <Sharon.Wylie@leg.wa.gov>; Shewmake, Rep. Sharon <Sharon.Shewmake@leg.wa.gov>; Goodman, Rep. Roger <Roger.Goodman@leg.wa.gov>; Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; DeBolt, Rep. Richard <Richard.DeBolt@leg.wa.gov>; Harris, Rep. Paul <Paul.Harris@leg.wa.gov>; Sullivan, Rep. Pat <Pat.Sullivan@leg.wa.gov>; Smith, Rep. Norma <Norma.Smith@leg.wa.gov>; Frame, Rep. Noel <Noel.Frame@leg.wa.gov>; Macri, Rep. Nicole <Nicole.Macri@leg.wa.gov>; Thai, Rep. My-Linh <My-Linh.Thai@leg.wa.gov>; Irwin, Rep. Morgan <Morgan.Irwin@leg.wa.gov>; Stonier, Rep. Monica Jurado <Monica.Stonier@leg.wa.gov>; Pellicciotti, Rep. Mike <Mike.Pellicciotti@leg.wa.gov>; Chapman, Rep. Mike <Mike.Chapman@leg.wa.gov>; Vick, Rep. Brandon <Brandon.Vick@leg.wa.gov>; Sells, Rep. Mike <Mike.Sells@leg.wa.gov>; Steele, Rep. Mike <Mike.Steele@leg.wa.gov>; Caldier, Rep. Michelle <Michelle.Caldier@leg.wa.gov>; Gregerson, Rep. Mia <Mia.Gregerson@leg.wa.gov>; Morgan, Rep. Melanie <Melanie.Morgan@leg.wa.gov>; Boehnke, Rep. Matt <Matt.Boehnke@leg.wa.gov>; Shea, Rep. Matt <Matt.Shea@leg.wa.gov>; Dye, Rep. Mary <Mary.Dye@leg.wa.gov>; Leavitt, Rep. Mari <Mari.Leavitt@leg.wa.gov>; Riccelli, Rep. Marcus <Marcus.Riccelli@leg.wa.gov>; Walsh, Rep. Jim <Jim.Walsh@leg.wa.gov>; Callan, Rep. Lisa <Lisa.Callan@leg.wa.gov>; Ortiz-Self, Rep. Lillian <Lillian.Ortiz-Self@leg.wa.gov>; Dolan, Rep. Laurie <Laurie.Dolan@leg.wa.gov>; Jinkins, Speaker Laurie <Laurie.Jinkins@leg.wa.gov>; Davis, Rep. Lauren <Lauren.Davis@leg.wa.gov>; Springer, Rep. Larry <Larry.Springer@leg.wa.gov>; Hoff, Rep. Larry <Larry.Hoff@leg.wa.gov>; Chambers, Rep. Kelly <Kelly.Chambers@leg.wa.gov>; Goehner, Rep. Keith <Keith.Goehner@leg.wa.gov>; Lovick, Rep. John <John.Lovick@leg.wa.gov>; Kretz, Rep. Joel <Joel.Kretz@leg.wa.gov>; Fitzgibbon, Rep. Joe <Joe.Fitzgibbon@leg.wa.gov>; Schmick, Rep. Joe <Joe.Schmick@leg.wa.gov>; Walen, Rep. Amy <Amy.Walen@leg.wa.gov>; Young, Rep. Jesse <Jesse.Young@leg.wa.gov>; Johnson, Rep. Jesse <Jesse.Johnson@leg.wa.gov>; Dufault, Rep. Jeremie <Jeremie.Dufault@leg.wa.gov>; Graham, Rep. Jenny

<Jenny.Graham@leg.wa.gov>; Valdez, Rep. Javier <Javier.Valdez@leg.wa.gov>; Mead, Rep. Jared <Jared.Mead@leg.wa.gov>; Fey, Rep. Jake <Jake.Fey@leg.wa.gov>; Maycumber, Rep. Jacquelin <Jacquelin.Maycumber@leg.wa.gov>; Wilcox, Rep. J.T. <JT.Wilcox@leg.wa.gov>; Mosbrucker, Rep. Gina <Gina.Mosbrucker@leg.wa.gov>; Pollet, Rep. Gerry <Gerry.Pollet@leg.wa.gov>; Tarleton, Rep. Gael <Gael.Tarleton@leg.wa.gov>; Chopp, Rep. Frank <Frank.Chopp@leg.wa.gov>; Pettigrew, Rep. Eric <Eric.Pettigrew@leg.wa.gov>; Wicks, Rep. Emily <Emily.Wicks@leg.wa.gov>; Cody, Rep. Eileen <Eileen.Cody@leg.wa.gov>; Orcutt, Rep. Ed <Ed.Orcutt@leg.wa.gov>; MacEwen, Rep. Drew <Drew.MacEwen@leg.wa.gov>; Stokesbary, Rep. Drew <Drew.Stokesbary@leg.wa.gov>; Hansen, Rep. Drew <Drew.Hansen@leg.wa.gov>; Lekanoff, Rep. Debra <Debra.Lekanoff@leg.wa.gov>; Entenman, Rep. Debra <Debra.Entenman@leg.wa.gov>

**Subject:** Re: Research on Ethical Global Leadership

**CAUTION:** External email.

Hello,

I wanted to **follow up** to see if there have been any updates regarding the below.

Thank you to those who have replied.

Kind regards,

**Dr N A Mozumder, PhD**

University of Bristol  
Richmond Building,  
Queens Road  
Bristol BS8 1LN

A top 10 UK university and top 50 world university (QS Rankings 2020)  
A top 2 UK university with leading employers (High Fliers 2019)  
A top 5 UK university for research (*THE* analysis of REF 2014)  
A top 6 European university for teaching (*THE* 2018)

Latest article:

[A Multilevel Trust-based Model of Ethical Public Leadership](#)

Mozumder, N. *J Bus Ethics* (2018). doi:10.1007/s10551-016-3341-1

**From:** Nurul Mozumder

**Sent:** 05 June 2021 14:42

**To:** Tyler Lindholm <Tyler.Lindholm@wyoleg.gov>; Tom Crank <Tom.Crank@wyoleg.gov>; Tom Walters <Tom.Walters@wyoleg.gov>; Tim Hallinan <Tim.Hallinan@wyoleg.gov>; Tim Salazar <Tim.Salazar@wyoleg.gov>; Sue Wilson <Sue.Wilson@wyoleg.gov>; Steve Harshman <Steve.Harshman@wyoleg.gov>; Stan Blake <Stan.Blake@wyoleg.gov>; Shelly Duncan <Shelly.Duncan@wyoleg.gov>; Scott Clem <Scott.Clem@wyoleg.gov>; Sara Burlingame <Sara.Burlingame@wyoleg.gov>; Sandy Newsome <Sandy.Newsome@wyoleg.gov>; Richard Tass <Richard.Tass@wyoleg.gov>; Pat Sweeney <Pat.Sweeney@wyoleg.gov>; Mike Greear <Mike.Greear@wyoleg.gov>; Mark Kinner <Mark.Kinner@wyoleg.gov>; Mark Jennings <Mark.Jennings@wyoleg.gov>; Lloyd Larsen <Lloyd.Larsen@wyoleg.gov>; Mike Yin <Mike.Yin@wyoleg.gov>; Landon Brown <Landon.Brown@wyoleg.gov>; Kevin O'Hearn <Kevin.O'Hearn@wyoleg.gov>; John Winter <John.Winter@wyoleg.gov>; John Freeman <John.Freeman@wyoleg.gov>; John Eklund <John.Eklund@wyoleg.gov>; Joe MacGuire <Joe.MacGuire@wyoleg.gov>; JoAnn Dayton-Selman <JoAnn.Dayton-Selman@wyoleg.gov>; Jim Roscoe <Jim.Roscoe@wyoleg.gov>; Jim Blackburn <Jim.Blackburn@wyoleg.gov>; Jerry Paxton <Jerry.Paxton@wyoleg.gov>; Jerry Obermueller <Jerry.Obermueller@wyoleg.gov>; Jared Olsen <Jared.Olsen@wyoleg.gov>; Jamie Flitner <Jamie.Flitner@wyoleg.gov>; Hans Hunt <hans.hunt@wyoleg.gov>; Garry Piiparinen <Garry.Piiparinen@wyoleg.gov>; Evan Simpson <Evan.Simpson@wyoleg.gov>; Eric Barlow <Eric.Barlow@wyoleg.gov>; Donald Burkhart <Donald.Burkhart@wyoleg.gov>; David Northrup <David.Northrup@wyoleg.gov>; David Miller <David.Miller@wyoleg.gov>; Danny Eyre <Danny.Eyre@wyoleg.gov>; Dan Furphy <Dan.Furphy@wyoleg.gov>; Dan Laursen <Dan.Laursen@wyoleg.gov>; Dan Kirkbride <Dan.Kirkbride@wyoleg.gov>; Dan Zwonitzer <Dan.Zwonitzer@wyoleg.gov>; Cyrus Western <Cyrus.Western@wyoleg.gov>; Clark Stith <Clark.Stith@wyoleg.gov>; Clarence Styvar <Clarence.Styvar@wyoleg.gov>; Chuck Gray <Chuck.Gray@wyoleg.gov>; Christopher Knapp <Christopher.Knapp@wyoleg.gov>; Charles Pelkey <Charles.Pelkey@wyoleg.gov>; Cathy Connolly <Cathy.Connolly@wyoleg.gov>; Bob Nicholas <Bob.Nicholas@wyoleg.gov>; Bill Pownall <Bill.Pownall@wyoleg.gov>; Bill Haley <Bill.Haley@wyoleg.gov>; Bill Henderson <Bill.Henderson@wyoleg.gov>; Art Washut <Art.Washut@wyoleg.gov>; Andy Schwartz <Andy.Schwartz@wyoleg.gov>; Andi Clifford <Andi.Clifford@wyoleg.gov>; Albert Sommers <Albert.Sommers@wyoleg.gov>; Aaron Clausen <Aaron.Clausen@wyoleg.gov>; Warren Petryk <Rep.Petryk@legis.wisconsin.gov>; Tyler Vorpapel <Rep.Vorpapel@legis.wisconsin.gov>; Tyler August <Rep.August@legis.wisconsin.gov>; Treig Pronschinske <Rep.Pronschinske@legis.wisconsin.gov>; Travis Tranel <Rep.Tranel@legis.wisconsin.gov>; Tony Kurtz <Rep.Kurtz@legis.wisconsin.gov>; Todd Novak <Rep.Novak@legis.wisconsin.gov>; Tod Ohnstad <Rep.Ohnstad@legis.wisconsin.gov>; Tip McGuire <Rep.McGuire@legis.wisconsin.gov>; Timothy Ramthun <Rep.Ramthun@legis.wisconsin.gov>; Terry Katsma <Rep.Katsma@legis.wisconsin.gov>; Steve Doyle <Rep.Doyle@legis.wisconsin.gov>; Staush Gruszynski <Rep.Gruszynski@legis.wisconsin.gov>; Sondy Pope <Rep.Pope@legis.wisconsin.gov>; Shelia Stubbs <Rep.Stubbs@legis.wisconsin.gov>; Shannon Zimmerman <Rep.Zimmerman@legis.wisconsin.gov>; Shae Sortwell <Rep.Sortwell@legis.wisconsin.gov>; Scott Allen <Rep.Allen@legis.wisconsin.gov>; Scott Krug <Rep.Krug@legis.wisconsin.gov>; Samantha Kerkman

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<Rep.Kerkman@legis.wisconsin.gov>; Ron Tusler <Rep.Tusler@legis.wisconsin.gov>; Romaine Quinn <Rep.Quinn@legis.wisconsin.gov>; Robyn Vining <Rep.Vining@legis.wisconsin.gov>; Robin Vos <Rep.Vos@legis.wisconsin.gov>; Robert Wittke <Rep.Wittke@legis.wisconsin.gov>; Robert Brooks <Rep.Rob.Brooks@legis.wisconsin.gov>; Rob Hutton <Rep.Hutton@legis.wisconsin.gov>; Rob Swearingen <Rep.Swearingen@legis.wisconsin.gov>; Rob Stafsholt <Rep.Stafsholt@legis.wisconsin.gov>; Rob Summerfield <Rep.Summerfield@legis.wisconsin.gov>; Rick Gundrum <Rep.Gundrum@legis.wisconsin.gov>; Paul Tittl <Rep.Tittl@legis.wisconsin.gov>; Patrick Snyder <Rep.Snyder@legis.wisconsin.gov>; Nick Milroy <Rep.Milroy@legis.wisconsin.gov>; Nancy VanderMeer <Rep.VanderMeer@legis.wisconsin.gov>; Mike Rohrkaste <Rep.Rohrkaste@legis.wisconsin.gov>; Mike Kuglitsch <Rep.Kuglitsch@legis.wisconsin.gov>; Michael Schraa <Rep.Schraa@legis.wisconsin.gov>; Melissa Sargent <Rep.Sargent@legis.wisconsin.gov>; Mary Felzkowski <Rep.Felzkowski@legis.wisconsin.gov>; Mark Spreitzer <Rep.Spreitzer@legis.wisconsin.gov>; Mark Born <Rep.Born@legis.wisconsin.gov>; Marisabel Cabrera <Rep.Cabrera@legis.wisconsin.gov>; Loren Oldenburg <Rep.Oldenburg@legis.wisconsin.gov>; Lisa Subeck <Rep.Subeck@legis.wisconsin.gov>; LaKeshia Myers <Rep.Myers@legis.wisconsin.gov>; Kevin Petersen <Rep.Petersen@legis.wisconsin.gov>; Ken Skowronski <Rep.Skowronski@legis.wisconsin.gov>; Katrina Shankland <Rep.Shankland@legis.wisconsin.gov>; Kalan Haywood <Rep.Haywood@legis.wisconsin.gov>; Jonathan Brostoff <Rep.Brostoff@legis.wisconsin.gov>; Jon Plumer <Rep.Plumer@legis.wisconsin.gov>; John Jagler <Rep.Jagler@legis.wisconsin.gov>; John Spiros <Rep.Spiros@legis.wisconsin.gov>; John Macco <Rep.Macco@legis.wisconsin.gov>; Joel Kitchens <Rep.Kitchens@legis.wisconsin.gov>; Joe Sanfelippo <Rep.Sanfelippo@legis.wisconsin.gov>; Jodi Emerson <Rep.Emerson@legis.wisconsin.gov>; JoCasta Zamarripa <Rep.Zamarripa@legis.wisconsin.gov>; Joan Ballweg <Rep.Ballweg@legis.wisconsin.gov>; Jimmy Anderson <Rep.Anderson@legis.wisconsin.gov>; Jim Steineke <Rep.Steineke@legis.wisconsin.gov>; Jim Ott <Rep.OttJ@legis.wisconsin.gov>; Jill Billings <Rep.Billings@legis.wisconsin.gov>; Jessie Rodriguez <Rep.Rodriguez@legis.wisconsin.gov>; Jesse James <Rep.James@legis.wisconsin.gov>; Jeremy Thiesfeldt <Rep.Thiesfeldt@legis.wisconsin.gov>; Jeffrey Mursau <Rep.Mursau@legis.wisconsin.gov>; Jason Fields <Rep.Fields@legis.wisconsin.gov>; Janel Brandtjen <Rep.Brandtjen@legis.wisconsin.gov>; James Edming <Rep.Edming@legis.wisconsin.gov>; Greta Neubauer <Rep.Neubauer@legis.wisconsin.gov>; Gordon Hintz <Rep.Hintz@legis.wisconsin.gov>; Gary Tauchen <Rep.Tauchen@legis.wisconsin.gov>; Gary Hebl <Rep.Hebl@legis.wisconsin.gov>; Gae Magnafici <Rep.Magnafici@legis.wisconsin.gov>; Evan Goyke <Rep.Goyke@legis.wisconsin.gov>; Don Vruwink <Rep.Vruwink@legis.wisconsin.gov>; Dianne Hesselbein <Rep.Hesselbein@legis.wisconsin.gov>; Debra Kolste <Rep.Kolste@legis.wisconsin.gov>; David Steffen <Rep.Steffen@legis.wisconsin.gov>; David Bowen <Rep.Bowen@legis.wisconsin.gov>; Dave Murphy <Rep.Murphy@legis.wisconsin.gov>; Dave Considine <Rep.Considine@legis.wisconsin.gov>; Daniel Riemer <Rep.Riemer@legis.wisconsin.gov>; Daniel Knodl <Rep.Knodl@legis.wisconsin.gov>; Cody Horlacher <Rep.Horlacher@legis.wisconsin.gov>; Cindi Duchow <Rep.Duchow@legis.wisconsin.gov>; Chuck Wichgers <Rep.Wichgers@legis.wisconsin.gov>; Christine Sinicki <Rep.Sinicki@legis.wisconsin.gov>; Bob Kulp <Rep.Kulp@legis.wisconsin.gov>; Beth Meyers <Rep.Meyers@legis.wisconsin.gov>; Barbara Dittrich <Rep.Dittrich@legis.wisconsin.gov>; Amy Loudenbeck <Rep.Loudenbeck@legis.wisconsin.gov>; Amanda Stuck <Rep.Stuck@legis.wisconsin.gov>; Zack Maynard <zack.maynard@wvhouse.gov>; Adam Neylon <Rep.Neylon@legis.wisconsin.gov>; William Anderson <bill.anderson@wvhouse.gov>; Wayne Clark <wayne.clark@wvhouse.gov>; Vernon Criss <vernon.criss@wvhouse.gov>; Ty Nestor <ty.nestor@wvhouse.gov>; Trenton Barnhart <trenton.barnhart@wvhouse.gov>; Tony Paynter <tony.paynter@wvhouse.gov>; Tom Fast <tom.fast@wvhouse.gov>; Todd Longanacre <todd.longanacre@wvhouse.gov>; Terri Sypolt <terri.sypolt@wvhouse.gov>; Steve Westfall <steve.westfall@wvhouse.gov>; Shawn Fluharty <shawn.fluharty@wvhouse.gov>; Shannon Kimes <shannon.kimes@wvhouse.gov>; Sean Hornbuckle <sean.hornbuckle@wvhouse.gov>; Ruth Rowan <ruth.rowan@wvhouse.gov>; Roy Cooper <roy.cooper@wvhouse.gov>; Roger Hanshaw <roger.hanshaw@wvhouse.gov>; Roger Conley <roger.conley@wvhouse.gov>; Riley Keaton <riley.keaton@wvhouse.gov>; Ric Griffith <ric.griffith@wvhouse.gov>; Phillip Diserio <phillip.diserio@wvhouse.gov>; Phil Mallow <phil.mallow@wvhouse.gov>; Paul Espinosa <paul.espinosa@wvhouse.gov>; Pat McGeehan <pat.mcgeehan@wvhouse.gov>; Nathan Brown <nathan.brown@wvhouse.gov>; Moore Capito <moore.capito@wvhouse.gov>; Mike Pushkin <mike.pushkin@wvhouse.gov>; Mick Bates <mick.bates@wvhouse.gov>; Matthew Rohrbach <matthew.rohrbach@wvhouse.gov>; Marty Gearheart <marty.gearheart@wvhouse.gov>; Mark Zatezalo <mark.zatezalo@wvhouse.gov>; Mark Dean <mark.dean@wvhouse.gov>; Margitta Mazzocchi <margitta.mazzocchi@wvhouse.gov>; Lisa Zukoff <lisa.zukoff@wvhouse.gov>; Laura Kimble <laura.kimble@wvhouse.gov>; Larry Rowe <larry.rowe@wvhouse.gov>; Larry Pack <larry.pack@wvhouse.gov>; Ken Reed <ken.reed@wvhouse.gov>; Kayla Young <kayla.young@wvhouse.gov>; Kayla Kessinger <kayla.kessinger@wvhouse.gov>; Joshua Higginbotham <joshua.higginbotham@wvhouse.gov>; Josh Holstein <josh.holstein@wvhouse.gov>; Jordan Bridges <jordan.bridges@wvhouse.gov>; Jonathan Pinson <jonathan.pinson@wvhouse.gov>; Johnnie Wamsley <johnnie.wamsley@wvhouse.gov>; John Kelly <john.kelly@wvhouse.gov>; John Hott <john.hott@wvhouse.gov>; John Hardy <john.hardy@wvhouse.gov>; John Doyle <johndoyle@wvhouse.gov>; John Williams <john.williams@wvhouse.gov>; John Mandt <john.mandt@wvhouse.gov>; Joey Garcia <joey.garcia@wvhouse.gov>; Joe Ellington <joe.ellington@wvhouse.gov>; Joe Statler <joe.statler@wvhouse.gov>; Joe Jeffries <joe.jeffries@wvhouse.gov>; Jim Barach <jim.barach@wvhouse.gov>; Jeffries Jennings <buck.jennings@wvhouse.gov>; Jeffrey Pack <jeffrey.pack@wvhouse.gov>; Jason Barrett <jasonbarrett@wvhouse.gov>; Heather Tully <heather.tully@wvhouse.gov>; Guy Ward <guy.ward@wvhouse.gov>; George Miller <george.miller@wvhouse.gov>; Geoff Foster <geoff.foster@wvhouse.gov>; Gary Howell <gary.howell@wvhouse.gov>; Evan Worrell <evan.worrell@wvhouse.gov>; Evan Hansen <evan.hansen@wvhouse.gov>; Erikka Storch <erikka.storch@wvhouse.gov>; Eric Householder <eric.householder@wvhouse.gov>; Ed Evans <ed.evans@wvhouse.gov>; Doug Smith <doug.smith@wvhouse.gov>; Doug Skaff <doug.skaff@wvhouse.gov>; Don Forsht <don.forsht@wvhouse.gov>; Dianna Graves <dianna.graves@wvhouse.gov>; Derrick Evans <derrick.evans@wvhouse.gov>; Dean Jeffries <dean.jeffries@wvhouse.gov>; David Kelly <david.kelly@wvhouse.gov>; David Pethel <dave.pethel@wvhouse.gov>; Danny Hamrick <danny.hamrick@wvhouse.gov>; Danielle Walker <danielle.walker@wvhouse.gov>; Daniel Linville <daniel.linville@wvhouse.gov>; Dana Ferrell <dana.ferrell@wvhouse.gov>; Cody Thompson <cody.thompson@wvhouse.gov>; Clay Riley <clay.riley@wvhouse.gov>; Chuck Horst <charles.horst@wvhouse.gov>; Chris Toney <chris.toney@wvhouse.gov>; Chris Pritt <chris.pritt@wvhouse.gov>; Chris Phillips <chris.phillips@wvhouse.gov>; Charlie Reynolds <charlie.reynolds@wvhouse.gov>; Chad Lovejoy <chad.lovejoy@wvhouse.gov>; Carl Martin

<carl.martin@wvhouse.gov>; Caleb Hanna <caleb.hanna@wvhouse.gov>; Bryan Ward <bryan.ward@wvhouse.gov>; Brent Boggs <brent.boggs@wvhouse.gov>; Brandon Steele <brandon.steele@wvhouse.gov>; Ben Queen <ben.queen@wvhouse.gov>; Barry Bruce <barry.bruce@wvhouse.gov>; Barbara Fleischaer <barbaraf@wvhouse.gov>; Austin Haynes <austin.haynes@wvhouse.gov>; Amy Summers <amy.summers@wvhouse.gov>; Adam Burkhammer <adam.burkhammer@wvhouse.gov>; Zack Hudgins <zack.hudgins@leg.wa.gov>; Vicki Kraft <vicki.kraft@leg.wa.gov>; Vandana Slatter <vandana.slatter@leg.wa.gov>; Tom Dent <tom.dent@leg.wa.gov>; Tina Orwall <tina.orwall@leg.wa.gov>; Timm Ormsby <tim.ormsby@leg.wa.gov>; Tana Senn <tana.senn@leg.wa.gov>; Strom Peterson <strom.peterson@leg.wa.gov>; Steve Tharinger <steve.tharinger@leg.wa.gov>; Steve Kirby <steve.kirby@leg.wa.gov>; Steve Bergquist <steve.bergquist@leg.wa.gov>; Skyler Rude <skyler.rude@leg.wa.gov>; Sherry Appleton <sherry.appleton@leg.wa.gov>; Shelley Kloba <shelley.kloba@leg.wa.gov>; Sharon Santos <sharontomiko.santos@leg.wa.gov>; Sharon Wylie <sharon.wylie@leg.wa.gov>; Sharon Shewmake <sharon.shewmake@leg.wa.gov>; Roger Goodman <roger.goodman@leg.wa.gov>; Robert Sutherland <robert.sutherland@leg.wa.gov>; Richard DeBolt <richard.debolt@leg.wa.gov>; Paul Harris <paul.harris@leg.wa.gov>; Pat Sullivan <pat.sullivan@leg.wa.gov>; Norma Smith <norma.smith@leg.wa.gov>; Noel Frame <noel.frame@leg.wa.gov>; Nicole Macri <nicole.macri@leg.wa.gov>; My-Linh Thai <my-linh.thai@leg.wa.gov>; Morgan Irwin <morgan.irwin@leg.wa.gov>; Monica Stonier <monica.stonier@leg.wa.gov>; Mike Pellicciotti <mike.pellicciotti@leg.wa.gov>; Mike Chapman <mike.chapman@leg.wa.gov>; Mike Volz <brandon.vick@leg.wa.gov>; Mike Sells <mike.sells@leg.wa.gov>; Mike Steele <mike.steele@leg.wa.gov>; Michelle Caldier <michelle.caldier@leg.wa.gov>; Mia Gregerson <mia.gregerson@leg.wa.gov>; Melanie Morgan <melanie.morgan@leg.wa.gov>; Matt Boehnke <matt.boehnke@leg.wa.gov>; Matt Shea <matt.shea@leg.wa.gov>; Mary Dye <mary.dye@leg.wa.gov>; Mari Leavitt <mari.leavitt@leg.wa.gov>; Marcus Riccelli <marcus.riccelli@leg.wa.gov>; Luanne Werven <jim.walsh@leg.wa.gov>; Lisa Callan <lisa.callan@leg.wa.gov>; Lillian Ortiz-Self <lillian.ortiz-self@leg.wa.gov>; Laurie Dolan <laurie.dolan@leg.wa.gov>; Laurie Jinkins <laurie.jinkins@leg.wa.gov>; Lauren Davis <lauren.davis@leg.wa.gov>; Larry Springer <larry.springer@leg.wa.gov>; Larry Hoff <larry.hoff@leg.wa.gov>; Kelly Chambers <kelly.chambers@leg.wa.gov>; Keith Goehner <keith.goehner@leg.wa.gov>; John Lovick <john.lovick@leg.wa.gov>; Joel Kretz <joel.kretz@leg.wa.gov>; Joe Fitzgibbon <joe.fitzgibbon@leg.wa.gov>; Joe Schmick <joe.schmick@leg.wa.gov>; Jim Walsh <amy.walen@leg.wa.gov>; Jesse Young <jesse.young@leg.wa.gov>; Jesse Johnson <jesse.johnson@leg.wa.gov>; Jeremie Dufault <jeremie.dufault@leg.wa.gov>; Jenny Graham <jenny.graham@leg.wa.gov>; Javier Valdez <javier.valdez@leg.wa.gov>; Jared Mead <jared.mead@leg.wa.gov>; Jake Fey <jake.fey@leg.wa.gov>; Jacquelin Maycumber <jacquelin.maycumber@leg.wa.gov>; J.T. Wilcox <jt.wilcox@leg.wa.gov>; Gina Mosbrucker <gina.mosbrucker@leg.wa.gov>; Gerry Pollet <gerry.pollet@leg.wa.gov>; Gael Tarleton <gael.tarleton@leg.wa.gov>; Frank Chopp <frank.chopp@leg.wa.gov>; Eric Pettigrew <eric.pettigrew@leg.wa.gov>; Emily Wicks <emily.wicks@leg.wa.gov>; Eileen Cody <eileen.cody@leg.wa.gov>; Ed Orcutt <ed.orcutt@leg.wa.gov>; Drew MacEwen <drew.macewen@leg.wa.gov>; Drew Stokesbary <drew.stokesbary@leg.wa.gov>; Drew Hansen <drew.hansen@leg.wa.gov>; Debra Lekanoff <debra.lekanoff@leg.wa.gov>; Debra Entenman <debra.entenman@leg.wa.gov>

**Subject:** Research on Ethical Global Leadership

Hello,

I am conducting a study on the topic of ethical global leadership. For the study, I am talking with political leaders across the globe.

The study aims to produce an ethical global leadership framework to understand distinctive opportunities and challenges in creating ethical leadership in the context of global politics. Your participation in the study may help speed up the transition from the traditional view of global leadership to one, which is based on ethics and trust. The research findings will be published in academic journals.

**I was wondering if we could talk for a few minutes via Microsoft Teams or by phone at a time suitable for you to share your valuable experience.**

Please find the indicative research questionnaire and a recent research publication (published in the Journal of Business Ethics, a Financial Times Top 50 Journal) attached.

Please do not hesitate to contact me if you have any questions.

I look forward to hearing from you.

Kind regards,

**Dr N A Mozumder, PhD**

University of Bristol  
Richmond Building,  
Queens Road  
Bristol BS8 1LN

A top 10 UK university and top 50 world university (QS Rankings 2020)  
A top 2 UK university with leading employers (High Fliers 2019)  
A top 5 UK university for research (*THE* analysis of REF 2014)  
A top 6 European university for teaching (*THE* 2018)

Latest article:

[A Multilevel Trust-based Model of Ethical Public Leadership](#)

Mozumder, N. *J Bus Ethics* (2018). doi:10.1007/s10551-016-3341-1

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**From:** State Rep. Ron Hanks <russco2022@gmail.com>  
**Sent:** Wednesday, October 06, 2021 1:53 PM EDT  
**To:** Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>  
**Subject:** Ron's running for US Senate

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[View this email in your browser](#)

FOR IMMEDIATE RELEASE: 6 October, 2021

CONTACT: Ron Hanks, 719-352-5264, [russco2022@gmail.com](mailto:russco2022@gmail.com)

## Colorado State Rep. Ron Hanks Launches Campaign for U.S. Senate

**Penrose, Colorado** – Today, Colorado State Representative Ron Hanks, a Republican serving State House District 60, announced his campaign for U.S. Senate to unseat incumbent Democrat Michael Bennet, who was appointed in 2009.

A conservative stalwart in the Colorado General Assembly, Rep. Hanks is the only Republican legislator running for U.S. Senate and the only candidate with a proven conservative record on the issues.

*“The best way to know what a candidate will do in office is by what they’ve already done. Never trust their words, trust their actions. Candidly, when it comes to defeating Bennet, the field of Republicans running in this race is too weak or inexperienced and some are even hostile to our America First values. Solving the crises exploding throughout America demands a leader who has demonstrated a clear pro-liberty record and the courage to stand in the line of fire of an unhinged leftist media and their masters in the Democrat party,”* commented State Rep. Ron Hanks (R).

*“With Bennet and Biden calling the shots, we’ve seen horrific and self-inflicted disasters hit our country and harm our citizens at home, in Afghanistan and around the world,”* continued Hanks.

*“We cannot fix America – we will not be America – without Election Integrity. We must conduct forensic audits and voter roll canvassing. Nothing else will matter if the will of The People is nullified by fraud. Our number one goal must be to fix proven election fraud in Colorado and America and hold every election criminal accountable,”* concluded Hanks.

View Ron Hanks’ campaign video here: [www.HanksforColorado.com](http://www.HanksforColorado.com)

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**From:** Rep. Ron Hanks - U.S. Senate <russco2022@gmail.com>

**Sent:** Tuesday, October 12, 2021 10:59 AM EDT

**To:** Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>

**Subject:** The RINO's are howling

**CAUTION:** External email.

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**Dear Patriot,**

Since I announced our campaign for US Senate in Colorado last week, the RINOs and their liberal masters in the media have been howling like wolves in sheep's clothing.

These are the same backstabbing turncoats who have been lying to Republicans – and America – trying to destroy President Trump by misreporting the facts and belittling our conservative values.

As my campaign video below shows, I never have and never will let these traitors dismantle our Constitution, so they howl when I insist we MUST have nationwide forensic election audits to guarantee The Big Steal cannot happen again.

Click my logo to see the video:



I will not relent. Let me say again: Election Fraud, in 2020 and in previous elections, is THE DEFINING ISSUE of America today.

How this issue resolves is going to determine whether we live in tyrannical, vengeful communism, or as free people with personal liberties, the rule of law, and peace among men.

If the left and their sycophants win, we lose.

This country matters. Help me fight for it.

Please join this fight today Patriot, and pitch in, [HERE](#).

When we defeat the corrupt establishment and arrive in the US Senate, we'll give them something to really howl about.

---

For freedom,

Ron Hanks (R)  
Colorado State Representative  
Republican for US Senate



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**From:** Rep. Ron Hanks <russco2022@gmail.com>  
**Sent:** Friday, November 19, 2021 12:53 PM EST  
**To:** Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>  
**Subject:** Will you please caucus for me?

CAUTION: External email.

Patriot,

The most important election day for real conservatives is Caucus Day.

That's when you and your Republican neighbors get together to select delegates to our Republican assemblies. Those conservative delegates will vote to decide the Republican nominee for US Senate to take on and defeat Democrat Michael Bennet -- and defeat the soft and inexperienced Republican sell-outs who are trying to trick you.

As the only proven conservative in our race for US Senate, I need your help: Please attend your local Republican precinct caucus in the coming months. It's easy and actually a lot of fun.

But to help organize the groundswell of conservative support from all over Colorado, we must begin organizing today to make sure we turn out as many real conservatives as possible. We can defeat the insider, untested, unproven sell-out Republicans who are running against me. They don't want the people to take back control -- they want the prestige of the position, and an inside-Washington career. Attending the caucus is our chance to stick it to The Swamp.

Patriot, as a personal favor to me and to help save our country, please, will you let me know TODAY if you will attend your caucus and vote for me in March 2022?? And while attending caucus is a big help, becoming a Caucus Captain for the Ron Hanks for US Senate campaign would help seal our victory.

Please reply to this email and give me a Yes or No

Or, if you need more info, please let me know.

Thank you for having my back, and may God bless America,

Ron

Colorado State Rep. Ron Hanks (R)  
Help at [www.HanksforColorado.com](http://www.HanksforColorado.com)

Paid for by Hanks US Senate



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**Subject:** Zoom mtg - Legislators Election Integrity

**Start:** Tuesday, August 24, 2021 7:30 PM EDT

**End:** Tuesday, August 24, 2021 8:30 PM EDT

**Show Time As:** Busy

**Recurrence:** None

**Meeting Status:** Not yet responded

**Organizer:** Kraft, Rep. Vicki

**Required Attendees:** Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>

Per Amanda Chase and Debbie.

**From:** Wendy Rogers <wendyjrogers@gmail.com>  
**Sent:** Tuesday, September 14, 2021 1:03 AM EDT  
**Subject:** //Action Item//Election Integrity Caucus  
**Attachment(s):** "Election Integrity Caucus Statement.docx - Google Docs.pdf"

**CAUTION:** External email.

Dear fellow state legislators,

When the Arizona Audit report comes out any day now, we must be ready to respond immediately.

Attached is the letter I intend to sign. **Please message me back only if you, as an elected official, would like to sign the letter below.** We need to have this WITH STATE LEGISLATORS' SIGNATURES at-the-ready once the Arizona report is made public. We must command the narrative before the Left does. **Simply tell me if you are a YES.**

We have put a lot of thought and effort into crafting this letter into just how it is. Attorney Christina Bobb of OAN assisted us in this effort.

Please do not message me back if you are a NO or if you are undecided. We can discuss this on the call tomorrow, but the letter goes out as is. Thank you.

In service,  
Wendy

Wendy Rogers, Lt Col USAF (ret)  
Senator LD6 Flagstaff  
[Gab.com/WendyRogersAZ](https://www.gab.com/WendyRogersAZ)  
[Facebook.com/WendyRogersAZ](https://www.facebook.com/WendyRogersAZ)  
[Twitter.com/WendyRogersAZ](https://www.twitter.com/WendyRogersAZ)

**ZOOM CALL**  
**Tuesday 14 Sep 21 at 7:30pm EDT**  
**AZ State Rep Mark Finchem leading the call**

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Join Zoom Meeting

<https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MwlvMWlqdz09>

Meeting ID: 872 8867 1016  
Passcode: 511178

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+1 646 558 8656 US (New York)  
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+1 346 248 7799 US (Houston)  
+1 720 707 2699 US (Denver)  
<https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MwlvMWlqdz09>

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To the citizens of the United States of America,

We the undersigned state legislators of the United States are vested with the plenary power by our US Constitution (Article 2 Section 1 Clause 2) to oversee the election of the president of the United States.

It has come to our attention from an audit of 2.1 million ballots in Arizona complemented by an in-depth canvass of votes in Arizona, as well as through multiple different data reviews of voting by independent experts; that our representative republic suffered a corrupted 2020 election.

In addition to Arizona, sworn affidavits have accumulated from our own states detailing rampant corruption and mismanagement in the election process. Multiple audits either underway or about to start, canvasses underway or about to start, and lawsuits challenging the validity of several counties in our states, have already shown fraud and inaccuracies.

We have come to the conclusion that all 50 states need to be forensically audited. Voter rolls should be scrubbed with a canvass of the voters to ensure future integrity of our elections.

If results from these measures prove an inaccurate election was held, as has been shown in Arizona, and is being shown in many other states; then it is clear that certification of our electors was improperly rendered in January 2021 of the November 2020 United States presidential election.

We call on each state to decertify its electors where it has been shown the elections were certified prematurely and inaccurately.

Once it is shown that either Joe Biden would receive fewer than 270 tallied electoral votes, or Donald Trump would receive more than 270 electoral votes, then we call for the US House of Representatives to convene and vote per the US Constitution by means of one vote per state to decide the rightful winner of the election in accordance with the constitutional process of choosing electors.

This is our historic obligation to restore the election integrity of the vote as the bedrock of our democratic republic.

If we do not have accurate and fair elections, we do not have a country.

Signed,

Senator Wendy Rogers, Arizona

**From:** Ron Hanks <ron@hanksforcolorado.com>  
**Sent:** Thursday, November 25, 2021 11:18 AM EST  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** A Time for Thanksgiving

**CAUTION:** External email.

[Redacted]

Happy Thanksgiving,

In spite of the grave circumstances our nation is enduring this year – I will spare you the long train of abuses and usurpations – there is good reason to assemble and enjoy family and friendships. In fact, it is because of those hardships our gatherings are all the more important.

As we gather, we should speak openly and honestly of our hopes for this nation, our aspirations as Americans, and the cures for our collective ills.

We should speak of the failings of the leaders currently elected or installed in our government, then remember, they serve US. We do not serve them, nor do we kneel to them.

**We should give thanks, knowing we have the best form of government in the world.** We have liberated and enriched humankind around the world with capitalism, free trade and generous legal immigration policies.

America – the Arsenal of Democracy – turned the tide against evil in the Great Wars, and since then we have liberated millions from the oppressive, controlled societies of fascism and communism.

There are great battles ahead to recover our nation from abusive globalist wastrels currently in office. But as we gather this Thanksgiving, we will recognize again we are greater in number than the retched opposition. As we gather, we will realize our beliefs are true and our convictions are just. And as we gather, we should, as Abraham Lincoln noted, affirm we are on God's side.

**I believe we are. I believe we will turn this nation around. We will expel the deceivers. We will rebuild government to serve the people, not enrich its advocates. I believe this will happen in 2022.**

And for that faith in our cause and in my fellow Americans, I give thanks.

In Liberty,

[Redacted]

- Ron

Conservative for US Senate  
State Representative - Colorado

Paid for by Hanks US Senate

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The campaign can be found on the web at [www.HanksforColorado.com](http://www.HanksforColorado.com)

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WA-REP-21-1728-B-000023



**From:** Wendy Rogers <wendyjrogers@gmail.com>

**Sent:** Tuesday, September 07, 2021 5:53 PM EDT

**To:** Dave Eastman <rep.eastmangroup@akleg.gov>; Jim Carlin <carlinlawoffice@gmail.com>; David Agema <agemaRNC@gmail.com>; Patrick Colbeck <patrick@migrassrootsalliance.org>; Chris Arsenault <chrisat@cox.net>; Annie Black <annie@electannieblack.com>

**CC:** Christina Bobb <christina@cgbstrategies.com>; Doug Mastriano <doug@fight4pa.com>; Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; Stephen Carra <stephencarra@gmail.com>; Senator Chase <amanda@chaseforva.com>; Steve Christiansen <schristiansen@le.utah.gov>; Rob Clements <rclements@leg.ne.gov>; Sandy Smith <sandy@sandysmithnc.com>; Kim Coley <conservativecoley@gmail.com>; Anne Copp <anne\_copp2010@yahoo.com>; Teddy Daniels <teddy@teddydanielspa.com>; Paul Fielder <paulfielder@blackfoot.net>; Julie Fryemueller <julie.fryemueller@sdlegislature.gov>; Stephen Galloway <stephen.galloway@mtleg.gov>; Randy Garber <randy.garber@house.ks.gov>; Jim Griffin <info@griffin4congress.com>; Karey Hanks <khanks.idaho@gmail.com>; Ron Hanks <ronhanksforHD60@gmail.com>; StephanieBorowicz@yahoo.com <StephanieBorowicz@yahoo.com>; jenniferforRep@gmail.com <jenniferforRep@gmail.com>; Kevin Jensen <kevin.jensen@sdlegislature.gov>; Bill Kintner <bkintner@leg.ne.gov>; Klippert, Rep. Brad <Brad.Klippert@leg.wa.gov>; martyH@harbinagency.com <martyH@harbinagency.com>; jacksonlahmeyer14@gmail.com <jacksonlahmeyer14@gmail.com>; Phillip Lyman <plyman@le.utah.gov>; Jeff Magrum <jmagrum@nd.gov>; Theresa Manzella <theresa.manzella@mtleg.gov>; Jim Marchant <jim@jimmarchant.com>; Tina Mulally <tina.mulally@sdlegislature.gov>; Bob Phelen <bob.phelen@mtleg.gov>; Lynz Piper-Loomis <lynzpiper@protonmail.com>; Lynz Piper-Loomis <lynz4usa@pm.me>; Timothy Ramthun <rep.ramthun@legis.wisconsin.gov>; rep-quattrocchi@rilegislature.gove <rep-quattrocchi@rilegislature.gove>; Sandy Salmon <salmonms@gmail.com>; Jerry Schillinger <j8960@midrivers.com>; Heather Scott <hscott@house.idaho.gov>; Jim Stalzer <jim.stalzer@gmail.com>; Margaret Sutton <margaret.sutton@sdlegislature.gov>; Brad Tschida <brad@tschida.org>; Christy Zito <christyzito@protonmail.com>; Wendy Rogers <wendyjrogers@gmail.com>

**Subject:** Attention: Election Integrity Caucus

**CAUTION:** External email.

With the Arizona Audit results coming out soon, we need to craft a joint statement that YOU are ready, willing, and able to pursue audits in YOUR own states.

We will put together a draft statement now and then fill in the blanks once the Arizona Audit results come out.

We have several states below not represented. Goal is to get all 50 states. **Need your help to fill in those gaps.**

Please get hold of counterpart state legislators in the states we're lacking.

**Reply All** by filling in legislators' names for states we lack and also include those new additions to the group email above. Thanks.

Remember, it is up to us STATE LEGISLATORS to get our country back by auditing the TRUTH of 2020.

(Quirky formatting did not allow me to put everyone's name on the roster where states had multiple names already.)

Thank you.

Wendy Rogers, Lt Col USAF (ret),

cell 480-529-9891

Senator LD6 Flagstaff

[Gab.com/WendyRogersAZ](https://gab.com/WendyRogersAZ)

[Facebook.com/WendyRogersAZ](https://facebook.com/WendyRogersAZ)

[Twitter.com/WendyRogersAZ](https://twitter.com/WendyRogersAZ)

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State	State
Alabama	AL
Alaska	Dave Eastman
Arizona	Rogers, Borrelli, Finchem

Arkansas	AR
California	CA
Colorado	Ron Hanks
Connecticut	Griffin
Delaware	DE
Florida	FL
Georgia	Harbin
Hawaii	HI
Idaho	Hanks, Scott
Illinois	IL
Indiana	IN
Iowa	Carlin, Salmon
Kansas	Garber
Kentucky	KY
Louisiana	LA
Maine	ME
Maryland	MD
Massachusetts	MA
Michigan	Agema, Colbeck, Carra
Minnesota	MN
Mississippi	MS
Missouri	MO
Montana	Fielder Galloway Manzella Phelen
Nebraska	NE
Nevada	Black, Kintner
New Hampshire	Clements, Copp
New Jersey	NJ

New Mexico	NM
New York	NY
North Carolina	Smith, Coley, Magrum
North Dakota	ND
Ohio	Gross, Mandel
Oklahoma	Lahmeyer
Oregon	OR
Pennsylvania	Mastriano, Borowicz, Daniels
Rhode Island	Arsenault Quattrochi
South Carolina	Piper-Loomis
South Dakota	Fryemueller, Jensen, Mulally
Tennessee	TN
Texas	TX
Utah	Christiansen, Lyman
Vermont	VT
Virginia	Amanda Chase
Washington	Sutherland, Klippert
West Virginia	WV
Wisconsin	Ramthun
Wyoming	WY

**From:** Rep. Ron Hanks (R) <russco2022@gmail.com>  
**Sent:** Wednesday, October 20, 2021 1:31 PM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** Election fraud in 2021?? Report it!!

CAUTION: External email.

[View this email in your browser](#)

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**Election Day is now less than two weeks away.**

**A majority of Americans believe there was election fraud in 2020. I have no doubt there was. Even with Fake News pushing their false narratives, the truth about the fraud has broken through the veil of lies.**

**This 2021 election cycle is at risk for fraud as well, and any evidence we can capture from this election may provide significant intelligence on the intent and operations of the criminal fraud network. There are multiple scenarios that could be revealed, and any evidence we gather will tighten the noose.**

**Ballots have been mailed. If you receive ballots for anyone other than the registered voters at your household, secure the ballot – don't throw it away – and reach out to my team at 719 401 0486.**

**Discuss the situation with the volunteer responding to your report, then determine how to handle the ballot so it will not be misused.**

**This is an easy way for honest citizens concerned about election fraud to help America clean up the system and ensure every valid vote is counted. No eligible voter should ever be disenfranchised by irregularities or fraud.**

**In Liberty & In God We Trust,**

**Ron Hanks  
Colorado State Representative  
Candidate US Senate  
719 401 0486  
[www.hanksforcolorado.com](http://www.hanksforcolorado.com)**



---

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**From:** Senator Amanda Chase <debbie+chaseforva.com@ccsend.com>  
**Sent:** Saturday, October 09, 2021 4:05 PM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** Election Integrity National Caucus Meeting - Tuesday, October 12, 2021

CAUTION:External email.

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**YOUR ATTENDANCE IS REQUESTED ON OUR  
NEXT ZOOM CALL ON  
NATIONAL ELECTION INTEGRITY ISSUES**

**Tuesday, OCTOBER 12, 2021 at 7:30pm EDT**

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# Hello Fellow Legislators!

Here is the information you will need to participate in our next group Zoom call on Tuesday, October 12th at 7:30pm EDT.

You are also welcome to send the invite to others as long as they are elected legislators. Please do not sent surrogates UNLESS they are elected officials.

## Topics for discussion:

- 1). Letter to be sent by NEIC that was sent to everyone for review. We haven't heard back from anyone so if you have comments/suggestions, please get them in to Debbie no later than Monday.
- 2). Review of the trip to Texas for the Ballot Mapping.

~~~~~  
Zoom Mtg - Senator Amanda Chase-

<https://us06web.zoom.us/j/4532787539?pwd=U0NSTGIhVDJyUEZKMWVlb3JRN1c5QT09>

Meeting ID: 453 278 7539

Passcode: 956286

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Passcode: 956286

Find your local number: <https://us06web.zoom.us/u/kfpmiZlkw>

For God and Virginia,

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**From:** Senator Amanda Chase <campaign+chaseforva.com@ccsend.com>  
**Sent:** Friday, September 24, 2021 1:24 PM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** Election Integrity National Caucus Meeting - Tuesday, September 28, 2021

CAUTION:External email.

□

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**PLEASE ATTEND OUR ZOOM CALL ON NATIONAL ELECTION INTEGRITY ISSUES**  
**Tuesday, SEPTEMBER 28, 2021 at 7:30pm EDT**

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□

## Hello Fellow Legislators!

We wanted to provide you with the information you will need to participate in our next group Zoom call on Tuesday, September 28th at 7:30pm EDT.

If there are other legislators interested in participating, please notify my Executive Assistant Debbie, at: [Debbie@ChaseForVA.com](mailto:Debbie@ChaseForVA.com).

~~~~~  
Zoom Mtg - Senator Amanda Chase-

ELECTION INTEGRITY - LEGISLATORS

Time: Sep 28, 2021 07:30 PM Eastern Time (US and Canada)

Join Zoom Meeting

<https://us06web.zoom.us/j/86293305308?pwd=WWFYbHgxWjV6bFBWY1V1Q2NpajNSdz09>

Meeting ID: 862 9330 5308

Passcode: 351907

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+1 253 215 8782 US (Tacoma)

Meeting ID: 862 9330 5308

Passcode: 351907

Find your local number: <https://us06web.zoom.us/j/86293305308>

For God and Virginia,

□  
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**From:** Senator Amanda Chase <debbie+chaseforva.com@ccsend.com>  
**Sent:** Monday, November 08, 2021 7:14 PM EST  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** Election Integrity National Caucus Meeting - Wednesday, November 17, 2021

CAUTION:External email.

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**YOUR ATTENDANCE IS REQUESTED ON OUR  
NEXT ZOOM CALL ON  
NATIONAL ELECTION INTEGRITY ISSUES**

**Wednesday, November 17, 2021 at 7:30pm EDT**

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# Hello Fellow Legislators!

Here is the information you will need to participate in our next group Zoom call on Wednesday, November 17th at 7:30pm EDT.

You are also welcome to send the invite to others as long as they are elected legislators. Please do not sent surrogates UNLESS they are elected officials.

## Topic for discussion:

- Discussion of the Virginia Election on 11/2/21

If you have other ideas for itinerary topics, please feel free to let Debbie know in advance of the meeting. See you there!

Zoom Mtg - Senator Amanda Chase-  
ELECTION INTEGRITY - LEGISLATORS

<https://us06web.zoom.us/j/4532787539?pwd=U0NSTGIhVDJyUEZKMWVib3JRN1c5QT09>

Meeting ID: 453 278 7539

Passcode: 956286

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+1 720 707 2699 US (Denver)  
+1 253 215 8782 US (Tacoma)

Meeting ID: 453 278 7539

Passcode: 956286

Find your local number: <https://us06web.zoom.us/u/kfpmiZlkw>

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**From:** Senator Amanda Chase <campaign+chaseforva.com@ccsend.com>

**Sent:** Friday, September 10, 2021 6:15 PM EDT

**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>

**Subject:** Election Integrity National Caucus Meeting

CAUTION:External email.

□

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**PLEASE ATTEND OUR SECOND ZOOM CALL ON NATIONAL ELECTION  
INTEGRITY ISSUES**

**Tuesday, SEPTEMBER 14, 2021 at 7:30pm EDT**

**\*\*\*\*\*Arizona State Representative Mark Finchem  
WILL BE LEADING OUR CALL!!\*\*\*\*\***

---

**Hello Fellow Legislators!**

**We hope you have all been well and wanted to provide you with the information you will need to participate in our next group Zoom call on Tuesday, September 14th at 7:30pm EDT.**

**If there are other legislators interested in participating, please reach out to my Executive Assistant Debbie at: [Debbie@ChaseForVA.com](mailto:Debbie@ChaseForVA.com).**

**This will get them on our distribution list for ongoing meetings and you can also feel free to pass along the invitation to them.**

~~~~~  
Zoom Mtg - Senator Amanda Chase-  
ELECTION INTEGRITY - LEGISLATORS

Join Zoom Meeting  
<https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MWlvMWlqdz09>

Meeting ID: 872 8867 1016  
Passcode: 511178

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Find your local number: <https://us06web.zoom.us/j/87288671016>

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**From:** Rep. Ron Hanks (R) <russco2022@gmail.com>  
**Sent:** Wednesday, November 03, 2021 4:16 PM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** FOR IMMEDIATE RELEASE: Hanks on historic election results

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## FOR IMMEDIATE RELEASE

3 November, 2021

### CONTACT

State Rep. Ron Hanks 719-352-5264 russco2022@gmail.com

## Colorado and Virginia Election Results Show Michael Bennet in Trouble and the Need for Full Forensic Election Audits

**Penrose, Colorado** – Today, Colorado State Representative Ron Hanks, a Republican serving State House District 60 and candidate for U.S. Senate released a statement on last night's historic election results:

*“Colorado’s across-the-board rejection of bigger government shows we do not trust our current elected officials to spend one more dime on their corrupt schemes. Michael Bennet’s reign of big government waste and abuse in the U.S. Senate is coming to an end as voters are clearly ready to hold him accountable in 2022.*

*Likewise, as the results from another swing state Virginia show, voters from all walks of life are rejecting the failed leadership of the corrupt Democrat Party in favor of authentic Republicans who will deliver on reforms that return government power into the hands of The People, where it belongs.*

*While the initial results from Colorado and Virginia are encouraging, they are not an indicator our elections are secure. The new governor of Virginia and Gov. Polis should conduct an immediate full forensic audit of the 2021 elections and compare them to a full forensic audit of the 2020 elections to further highlight any possible fraud in either election.*

*We cannot fix America – and we will not be America – without Election Integrity. We must conduct full forensic audits and voter roll canvassing. Nothing else will matter if the will of The People is nullified by fraud. Our number one goal must be to fix proven election fraud in Colorado and America and hold every election criminal accountable,”* concluded Hanks.

For more info visit: [www.HanksforColorado.com](http://www.HanksforColorado.com)

###



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**From:** Sutherland, Rep. Robert  
**Sent:** Wednesday, September 15, 2021 3:28 PM EDT  
**To:** wendyjrogers@gmail.com <wendyjrogers@gmail.com>  
**Subject:** FW: //Action Item//Election Integrity Caucus

See below

---

**From:** Klippert, Rep. Brad <Brad.Klippert@leg.wa.gov>  
**Sent:** Wednesday, September 15, 2021 11:50 AM  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** Re: //Action Item//Election Integrity Caucus

Yes, please include my name.

Brad Klippert

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**From:** Sutherland, Rep. Robert <[Robert.Sutherland@leg.wa.gov](mailto:Robert.Sutherland@leg.wa.gov)>  
**Sent:** Wednesday, September 15, 2021 11:40:35 AM  
**To:** @HRC Members <[HRCMEMBERS@leg.wa.gov](mailto:HRCMEMBERS@leg.wa.gov)>; @SRC Leg. Assistants <[SRCLEGASSIST@leg.wa.gov](mailto:SRCLEGASSIST@leg.wa.gov)>  
**Cc:** [wendyjrogers@gmail.com](mailto:wendyjrogers@gmail.com) <[wendyjrogers@gmail.com](mailto:wendyjrogers@gmail.com)>  
**Subject:** FW: //Action Item//Election Integrity Caucus

Fellow Republicans,

While this letter was initially sent out by AZ Senator Wendy Rogers (R) to Legislators across the Country who are members of the national 'Election Integrity Caucus' she has asked that I share it with you as well for your consideration. If election integrity is a concern of your constituents and yourself, let Sen. Rogers know that you would like your signature added to this letter. I would encourage doing so sooner rather than later because the Maricopa county audit results are expected any day now and she intends to send this letter out shortly after that.

Thank you all for your time and attention to this matter,

Sincerely,

**Robert J. Sutherland**

**State Representative**

39th Legislative District

Washington State House of Representatives

405 John L. O'Brien Bldg. | Olympia, WA

O: (360) 786-7967

E: [robert.sutherland@leg.wa.gov](mailto:robert.sutherland@leg.wa.gov)

W: <http://robertsutherland.housepublicans.wa.gov>

House Committee Assignments:

Transportation

Community & Economic Development

College and Workforce Development

---

**From:** Wendy Rogers <[wendyjrogers@gmail.com](mailto:wendyjrogers@gmail.com)>  
**Sent:** Tuesday, September 14, 2021 10:08 AM  
**Subject:** Fwd: //Action Item//Election Integrity Caucus

**CAUTION:**External email.

State legislators:

Ensuring you received this.

Wendy Rogers, Lt Col USAF (ret)

Senator LD6 Flagstaff Arizona

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OVERSIGHT

WA-REP-21-1728-B-000044

----- Forwarded message -----

From: **Wendy Rogers** <[wendyrogers@gmail.com](mailto:wendyrogers@gmail.com)>

Date: Mon, Sep 13, 2021 at 10:03 PM

Subject: //Action Item//Election Integrity Caucus

To:

Dear fellow state legislators,

When the Arizona Audit report comes out any day now, we must be ready to respond immediately.

Attached is the letter I intend to sign. **Please message me back only if you, as an elected official, would like to sign the letter below.** We need to have this WITH STATE LEGISLATORS' SIGNATURES at-the-ready once the Arizona report is made public. We must command the narrative before the Left does. **Simply tell me if you are a YES.**

We have put a lot of thought and effort into crafting this letter into just how it is. Attorney Christina Bobb of OAN assisted us in this effort.

Please do not message me back if you are a NO or if you are undecided. We can discuss this on the call tomorrow, but the letter goes out as is. Thank you.

In service,  
Wendy

Wendy Rogers, Lt Col USAF (ret)  
Senator LD6 Flagstaff  
[Gab.com/WendyRogersAZ](http://Gab.com/WendyRogersAZ)  
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[Twitter.com/WendyRogersAZ](https://twitter.com/WendyRogersAZ)

**ZOOM CALL**  
**Tuesday 14 Sep 21 at 7:30pm EDT**  
**AZ State Rep Mark Finchem leading the call**

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Join Zoom Meeting  
[https://us06web.zoom.us/j/87288671016?  
pwd=R0t1M3h2bHUrYVZRTDk0MwlvMWlqdz09](https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MwlvMWlqdz09)

Meeting ID: 872 8867 1016  
Passcode: 511178

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<https://us06web.zoom.us/j/87288671016>

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**From:** Sutherland, Rep. Robert  
**Sent:** Wednesday, September 15, 2021 2:40 PM EDT  
**To:** @HRC Members <HRCMEMBERS@leg.wa.gov>; @SRC Leg. Assistants <SRCLEGASSIST@leg.wa.gov>  
**CC:** wendyjrogers@gmail.com <wendyjrogers@gmail.com>  
**Subject:** FW: //Action Item//Election Integrity Caucus  
**Attachment(s):** "Election Integrity Caucus Statement.docx - Google Docs.pdf"

Fellow Republicans,

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Thank you all for your time and attention to this matter,

Sincerely,

**Robert J. Sutherland**

**State Representative**

39th Legislative District

Washington State House of Representatives

405 John L. O'Brien Bldg. | Olympia, WA

O: (360) 786-7967

E: [robert.sutherland@leg.wa.gov](mailto:robert.sutherland@leg.wa.gov)

W: <http://robertsutherland.houseRepublicans.wa.gov>

House Committee Assignments:

Transportation

Community & Economic Development

College and Workforce Development

---

**From:** Wendy Rogers <wendyjrogers@gmail.com>  
**Sent:** Tuesday, September 14, 2021 10:08 AM  
**Subject:** Fwd: //Action Item//Election Integrity Caucus

**CAUTION:**External email.

State legislators:

Ensuring you received this.

Wendy Rogers, Lt Col USAF (ret)

Senator LD6 Flagstaff Arizona

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From: **Wendy Rogers** <[wendyjrogers@gmail.com](mailto:wendyjrogers@gmail.com)>

Date: Mon, Sep 13, 2021 at 10:03 PM

Subject: //Action Item//Election Integrity Caucus

To:

Dear fellow state legislators,

When the Arizona Audit report comes out any day now, we must be ready to respond immediately.

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In service,  
Wendy

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**ZOOM CALL**  
**Tuesday 14 Sep 21 at 7:30pm EDT**  
**AZ State Rep Mark Finchem leading the call**

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Join Zoom Meeting

<https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MWlvMWlqdz09>

Meeting ID: 872 8867 1016  
Passcode: 511178

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One tap mobile  
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If results from these measures prove an inaccurate election was held, as has been shown in Arizona, and is being shown in many other states; then it is clear that certification of our electors was improperly rendered in January 2021 of the November 2020 United States presidential election.

We call on each state to decertify its electors where it has been shown the elections were certified prematurely and inaccurately.

Once it is shown that either Joe Biden would receive fewer than 270 tallied electoral votes, or Donald Trump would receive more than 270 electoral votes, then we call for the US House of Representatives to convene and vote per the US Constitution by means of one vote per state to decide the rightful winner of the election in accordance with the constitutional process of choosing electors.

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Signed,

Senator Wendy Rogers, Arizona

**From:** Sutherland, Rep. Robert  
**Sent:** Tuesday, October 12, 2021 1:07 PM EDT  
**To:** info@sutherland4rep.com <info@sutherland4rep.com>  
**Subject:** FW: Information Sharing from Last Update Call  
**Attachment(s):** "Cyber Ninjas Presentation 1.key", "Cyber Ninjas Presentation 2 2.key", "Cyber Ninjas Report, Vol. III.pdf", "Cyber Ninjas Presentation 1.pptx"

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**From:** Debbie Gwynn <debbie@chaseforva.com>  
**Sent:** Saturday, October 2, 2021 10:56 AM  
**To:** amanda chase <amanda@chaseforva.com>  
**Cc:** Debbie Gwynn <debbie@chaseforva.com>  
**Subject:** Fwd: Information Sharing from Last Update Call

**CAUTION:** External email.

Hello Everyone,

Following is the information we told you we would share on our last call.

This is the letter that has been drafted to be sent out by the NEIC. It does have similarities to the letter that Wendy Rogers had circulated, along with edits that were recommendations from caucus members. Please feel free to review and provide feedback on whether you can agree to sign off on the letter. We'd like for everyone to have a say so, and be in agreement on this before it goes out.

## Election Integrity Caucus

Chair: Senator Amanda Chase

Debbie Gwynn, Executive Assistant

[debbie@chaseforva.com](mailto:debbie@chaseforva.com)

804 393 2715

September 30, 2021

To the citizens of the United States of America,

We the undersigned state legislators of the United States are vested with the plenary power by our US Constitution (Article 2 Section 1 Clause 2) to oversee the election of the president of the United States.

"Each State shall appoint, in such Manner as the Legislature thereof may direct, a Number of Electors, equal to the whole Number of Senators and Representatives to which the State may be entitled in the Congress: but no Senator or Representative, or Person holding an Office of Trust or Profit under the United States, shall be appointed an Elector."

It has come to our attention from an independently administered forensic election audit of 2.1 million ballots in Maricopa County, Arizona that the results of the 2020 election in Arizona should not have been certified due to a number of questionable and unexplainable actions taken by the Maricopa County Board of Supervisors to include: obstruction of an audit sanctioned by the Arizona Senate, deletion of data immediately prior to the audit, corrupted images and refusal to turn over subpoenaed routers and tokens.

In addition, an in-depth canvass of votes in Arizona, as well as through multiple different data reviews of voting by independent experts conclude that there is enough reasonable maladministration to call into question the results of the Arizona 2020 election results and subsequently its electors.

It is clear that certification of Arizona electors were improperly rendered in January 2021 of the November 2020 United States presidential election and we call for a complete nullification of Arizona's electors.

Arizona is not the only state that has experienced an unusually high number of irregularities. Sworn affidavits have accumulated from many states detailing rampant corruption and mismanagement in the election process. Multiple audits are either underway or about to start, canvasses underway or about to start, and lawsuits challenging the validity of several counties in our states, have already shown maladministration and significant inaccuracies.

We have come to the conclusion that all 50 states need to be forensically audited as similar patterns are being discovered across the country. We must restore voter confidence in our election system that was compromised when guardrails were taken off of our election systems in the name of "covid related safety precautions". These safeguards must be restored. Voter rolls should be scrubbed with a canvass of the voters to ensure future integrity of our elections.

We cannot continue as if nothing happened. It is incumbent upon each state to ensure every legal vote is counted so that voters can trust that those elected were truly elected by the people. We must restore voter confidence as election integrity is the foundation of our republic and the peaceful transfer of power.

We the undersigned are legislators committed to seeking full forensic audits in our respective states, introducing risk limiting legislation to ensure fair and transparent elections, and working closely with organizations within our respective states to restore election integrity.

Signed,

Senator Amanda Chase, Virginia

~~~~~

The first set of attachments is the Cyber Ninjas Presentation, volumes 1, 2, & 3.

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~~~~~

Here is the Executive Summary provided to us by Sonny Borrelli:

~~~~~

Here are the recommendations provided by the Cyber Ninja's for submission of new legislation you may want to consider submitting in your next session.

### 3 RECOMMENDATIONS

The following sections outline the key recommendations that were determined over the course of this audit.

#### 3.1 Result Reconciliation

Legislation should be considered that does not allow an election to be certified until the Official Canvas and the Final Voted File is fully reconciled. Furthermore, full records for every ballot sent, ballot received, ballot rejected, and ballot voided should have to be fully reconciled within a defined period after the election.

#### 3.2 Voter Registration

Legislation should be considered that requires voter rolls to be entered in an individual's full legal name and adds accountability for Counties that enter rolls in any other format.

#### 3.3 Voter Rolls

Legislation should be considered that links voter roll registration to changes in driver's licenses or other state identification, as well as requiring the current voter rolls be validated against the United States Postal Service (USPS) National Change of Address (NCOA) at a predefined period prior to every election. Any voter roll software should validate that there is only one entry in the state database per identification number, such as a driver's license number. Laws already exist for interstate reporting of changes in residence, addresses, and driver's licenses. Tying voter roll registration to these forms of identification would greatly increase the likelihood that voter registration details would be kept up to date. Individuals are more likely to remember their license needs to be updated immediately than voter

registration, and since most states now offer the ability to register to vote when getting a license, license updates could also update voter rolls.

It is recommended that the voter rolls be validated against the NCOA both 90 days or more prior to the election, in addition to a week before mail-in ballots are sent out. This check would not be utilized to purge the rolls, but to validate that a mail-in ballot should be sent prior to that ballot going out. The legislature may also want to consider whether a change of address should suspend Permanent Early Voting List (PEVL) enrollment.

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In addition, legislation should be considered to require the voter rolls to periodically be compared against ERIC, the Social Security's Master Death List, or other commercially available tools that give access to this information. Failure to do this at least once a year should result in penalties for a county.

### 3.4 Election Software

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. Specifically, its recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years. Part of this testing should be explicitly testing an programming interface access to validate that no external party has the capability to manipulate the voter rolls.

Furthermore, it should be required that whoever builds the software be required to rotate vendors doing the OWASP ASVS Level 3 assessment a minimum of once every four years, with a rotation of no less than three vendors before returning back to a vendor utilized in the past.

The vendor who performs this work must be willing to attest that their assessment fully covered the ASVS Level 3 requirements that there are no critical or high vulnerabilities detected, and that there is a remediation plan for any moderate risk vulnerabilities.

### 3.5 Voting Machines

Legislation should be considered that would prohibit connecting tabulators, or the Election Management System Servers or similar equipment from being connected to the internet or any other mechanism that could allow remote access to these systems.

Furthermore, County employees should have access to all administrative functions of all election equipment and have sufficient access to independently validate any configuration items on the device without requiring the involvement of any 3<sup>rd</sup> party vendor.

In addition, electronic voting machines must always have a paper backup of all ballots which can be used to confirm that votes were cast as intended; and these machines must be regularly maintained according to the vendors recommended maintenance schedule.

Legislation should be considered that would require that paper stocks utilized on election day conform to manufacturer recommendations to ensure that the paper that has been tested in the device is what is actually utilized to cast votes. Legislation should be considered that requires following all CISA Guidelines for Election Systems and Equipment, the documentation of any variations among these guidelines, and the signing off on a risk memo by the appropriate party for any derivations from those guidelines.

Legislation should be considered which requires the assignment of individual usernames and passwords for all election related equipment and matters.

### 3.6 Election Audits

Legislation should be considered that creates an election audit department in charge of regularly conducting audits on a rotating basis across all counties in Arizona after elections. This department should validate that the County follows all processes and procedures outlined in the Elections Procedure Manual (EPM), and have the ability to penalize the County for repetitive EPM failures, or other failures that make auditing more difficult.

Legislation should be considered that requires batches of ballots to be clearly labeled, separated from each other in a manner where they cannot easily mix together, and easily connected to the batches run through the tabulation equipment for easy auditing of the system.

Legislation should be considered to penalize purposely inhibiting a legislative investigation, or an officially sanctioned audit of an election.

### 3.7 Ballots

Legislation should be considered that will make ballot images and the Cast Vote Record artifacts from an election that is published within a few days of the results being certified for increased transparency and accountability in the election process.

Legislation should further be considered that would require all ballots to be cast on paper by hand utilizing paper with security features such as watermarks or similar technology; with a detailed accounting of what paper(s) and the quantities utilized for any given election cycle.

Mail-in voting should incorporate an objective standard of verification for early voter identification, similar to the ID requirements required for in person voting.

Please let us know if you have any questions.

*Amanda Chase*

Virginia State Senator Amanda Chase/804-370-8727  
District 11, Chesterfield/Amelia/Colonial Heights

Debbie Gwynn, Exec. Assistant  
804-393-2715

# Unable to Process

Maricopa County:

# Forensic Election Audit



# Introduction





# Introduction – MC Forensic Audit



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# Introduction – MC Forensic Audit

## Overview



- 2.1M ballots processed by hand
- Over 1,500 people involved
- Over 100,000 hours of time contributed

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# Introduction – MC Forensic Audit



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## Introduction – MC Forensic Audit

### Security



- The perimeter was secured at the coliseum
- COVID checks & access validation
- Ballots & election equipment were secure in corrals
- 24/7 video surveillance & law enforcement guard

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# Introduction – MC Forensic Audit



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## Introduction – MC Forensic Audit

### Tallying



- All counters were Maricopa residents who voted in the last election.
- Each person was run through a standard background check.
- All three counters counted “blind” without any talking.
- Roughly every ~50 ballots tallies were compared and needed to agree or be redone.

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# Introduction – MC Forensic Audit



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## Introduction – MC Forensic Audit

### Paper Examination (PE)



- High quality DSLR images captured of the front and back of all ballots
- Microscope images captured of key ballot locations
- Over 140TB of data storage for PE alone

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# Status





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## Status – MC Forensic Audit

### Current Status

- Complete
  - Hand-counting of all federal races
  - Image and microscope capture of all ballots
  - Review & Comparison of Official Results
  - Analysis of the Voter Rolls
- Expected Soon
  - Review of Splunk Logs and Routers via Settlement Agreement terms.
  - Completion of Paper Analysis

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## Status – MC Forensic Audit

### Current Status

- No Longer In Scope
  - Canvasses to confirm voter rolls
    - Removed from scope of work.
  - Review of tabulator configuration to check internet configuration.
    - Hardware tokens never provided by the County.
  - Review of Voter Roll System
    - Systems accessing rolls never provided by the County.
- Review of ICX Devices
  - Systems never provided by the County.
- Review of provisional ballots
  - Provisional Ballots Never Provided by County.
- Review of undeliverable ballots
  - Undeliverable ballots never provided by county.

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# Ballots & Tallying





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## Ballots & Tallying – MC Forensic Audit

### Ballots & Tallying - Background

- Ballots that are damaged or can't be processed by a tabulator are duplicated.
- Damaged Sent to Duplicates (DSD) are the originals, DUPs the Duplicate.
- There should be one DSD per DUP.
- There should be a unique serial number to match up a DSD to its DUP.
- Duplicate ballots should be stored separately from original ballots.

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# Ballots & Tallying – MC Forensic Audit

## Findings

- Duplicate ballots comingled with original ballots
- Duplicated ballots with incorrect & missing serial numbers
- Duplicates that reuse serial numbers
- More duplicates than original ballots

DESCRIPTION	TYPE	ESR#	Count
Duplicate Ballots Sent to Board 1	Ballot	Residential	26,965
Original Damaged Ballots SD 8	DSD		29,104
Manicopa County Forensic Audit - Original Large Print Sent to Duplication 2	DSD		26,965
Manicopa County Forensic Audit - Duplicate Ballots Counted	DSD		29,104
Original Damaged Ballots SD 8	DSD		27,869
Manicopa County Reported			27,869
DUPBOARD3HAND0217	99	Biden	Board 1 Hand Dup 217
DUPBOARD3HAND0218	492	0	Biden
DUPBOARD3HAND0218	492	0	Biden

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2592 more DUPS than DSDs



# Ballots & Tallying – MC Forensic Audit

## Findings

- Duplicate ballots comingled with original ballots
- Duplicated ballots with incorrect & missing serial numbers
- Duplicates that reuse serial numbers
- More duplicates than original ballots
  - Extra DUPS favor Trump & Jorgenson
  - Extra DUPS favor McSally

Description	Damaged Sent to Duplication (DSD)	Duplicate Ballots (DUP)	Expected % To Candidate	% Difference To Candidate
Trump	995,404	996,896	48%	58%
Biden	1,040,873	1,041,733	50%	33%
Jorgenson	31,501	31,580	2%	3%

Description	Damaged Sent to Duplication (DSD)	Duplicate Ballots (DUP)	Expected % To Candidate	% Difference To Candidate
McSally	983,662	985,100	47%	55%
Kelly	1,064,336	1,065,266	51%	36%

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## Tally Results – (Based on OSD)

	McSally	Kelly	Write In / Over / Under	Total
Maricopa County Forensic Audit	983,662	1,064,336	40,398	2,088,396*
Official Maricopa County Canvass	984,203	1,064,396	40,964	2,089,563
DELTA	(541)	(60)	(566)	(1,167)



## Tally Results – (Based on DSD)

	Trump	Biden	Jorgenson	Write In / Over / Under	Total
<b>Maricopa County Forensic Audit</b>	995,404	1,040,873	31,501	20,791	2,088,569
<b>Official Maricopa County Canvass</b>	995,665	1,040,774	31,705	21,419	2,089,563
<b>DELTA</b>	(261)	99	(204)	(628)	(994)

\* Slight difference in Presidential & Senate ballot totals are due to small differences in hand counts across 2.1M ballots

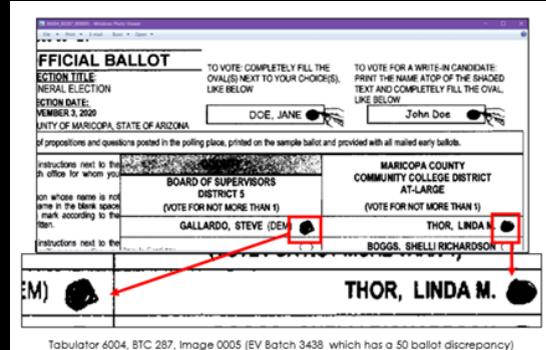
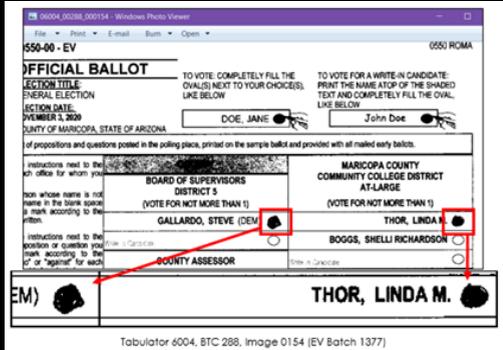


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# Ballots & Tallying – MC Forensic Audit

## Findings

- At least a batch of 50 ballots was run through the tabulators twice.



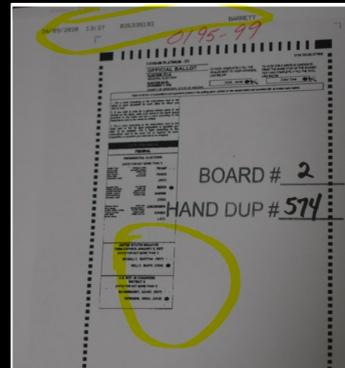
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2592 more DUPs than DSDs



## Findings

- Several UOCAVA ballots have been double-counted



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2592 more DUPS than DSDs

# Official Results





## Official Results – MC Forensic Audit

### Official Results - Background

- Official Canvass – Tallies of the ballots cast
  - Per candidate, per precinct, provisional, etc.
- VM55 Final Voted File – A list of all the people who cast a ballot in the election
  - Indicates method of voting and other details
- VM34 Full Voter File – A list of all people eligible to vote
  - Released on a monthly basis

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## Definitions

- EV32 Early Voting Sents – A list of all the ballots mailed out
  - Includes the date mailed, the address mailed to, the ballot type, etc.
- EV33 Early Voting Returns – A list of all the ballots received for Early Voting
  - Includes the date returned and the method (Mail-in or in Person)



## Election System Balance

- If the following situation happened
  - 10 people mailed in a ballot
  - 10 people voted early in person
  - 10 people voted on election day in person
- You would expect
  - The Official Canvas has a total of 30 votes across all the candidates / precincts etc.
  - The VM55 should show a list of 30 people:
    - 10 people who voted via mail-in
    - 10 via Early Voting in Person
    - 10 via Election Day in person
  - EV32 Sents would show 10 ballots mailed
  - EV33 Returns would show 10 mail-in ballots received, and 10 mail-in ballots for EV In Person

None of these system balance.

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## Official Results – MC Forensic Audit

### Findings

- Official Canvass has 3,432 more ballots cast than the list of people who show as having cast a vote (VM55)
- 9,041 mail-in voters show returning more ballots (EV33) than they were sent (EV32).
- 277 Precincts show in the Official Canvass as having more ballots cast than people who showed up to vote (VM55) for a total of 1,551 excess votes.
- There are 2,472 ballots shown in EV33 that don't have corresponding entries in the VM55, and only 2,042 ballots show as rejected in the Official Canvas for a discrepancy of 430.
- 397 mail-in ballots show as received (EV33) that never show as sent (EV32).
- 255,326 Early Votes show in the VM55 that do not have a corresponding EV33 entry.

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2592 more DUPS than DSDs

# Voters Who Moved





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# Moving— MC Forensic Audit

## Moving - Background

- Individuals who voted were compared against a commercial database called Melissa to see who moved before the October 5<sup>th</sup> cutoff.

### Melissa Personator

- Checks addresses associated with a user
- Shows prior and current addresses
- Tracks moves and move dates
- Tracks date-of-birth and death dates

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## Moving – MC Forensic Audit

### Findings

- 23,344 voters voted via mail-in ballot even though they show in Melissa as having moved, and no one with the same last name shows as living at the address.
- 2,382 voters voted in-person even though they show in Melissa as having moved out of Maricopa County.
- 2,081 voters moved out-of-state during the 29 days before the election and were given a full ballot instead of a presidential-only ballot.

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2592 more DUPS than DSDs

# Voter Rolls





## Voter Rolls - Background

- Registration dates do not generally change unless to correct a mistake.

Thank you for your questions.

**Are there any circumstances in which someone's registration date can change?**

Generally, a voter's date of registration does not change outside of correcting a mistake. The date of registration is the date where the voter first registered to vote in in the county, while any updates to a voter's registration is tracked separately.

The only time a voter may have two dates of registration is if their registration has previously been cancelled and the voter registers again. The original record could be cancelled for a variety of reasons, including death of the voter, voter request, or the voter has moved outside Maricopa County. Only the latest voter registration record is considered valid and a voter cannot use their cancelled record.

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## Voter Rolls - Background

- AFFSEQ is a unique number found in the voter roll system that is associated with a single transaction to a single user.
  - That change transaction has an image to go along with it to reference the document that authorized the change.
  - AFFSEQ's should be unique and only happen once and definitely shouldn't be shared by users.
- A.R.S. 16-152 requires that complete names be used.

On Aug 30, 2021, at 11:52 AM, voterinfo - RISCX <voterinfo@risc.maricopa.gov> wrote:

Good morning [REDACTED]. The AFFSEQs refers to Affidavit sequence. Each transaction by a voter will result in an affidavit. The affidavit could be a modification to your registration such as address change, party change or an updated signature as an example. An affidavit identifier is also applied to the affidavit envelope, or a provisional ballot used during an election. These identifiers are unique to each transition and never repeated.



## Ballots & Tallying – MC Forensic Audit

### Findings

- Potentially as many as 5,047 individuals who voted in more than one county for up to 5,295 votes.
- 393 voters with incomplete names voted in the election.
- 198 individuals registered after the October 15<sup>th</sup> cutoff and voted in the election.
- 2,861 voters have shared an AFFSEQ number with another voter at some point.
- 282 potentially deceased voters voted in the election.
- 186 people potentially have duplicate voter IDs that both voted.

Description	Number of voters
Last name only	15
Last name is an initial only	9
No last name	45
First name is an initial only	324
Total	393

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2592 more DUPS than DSDs

# Unable to Process

9/24/2021

# Maricopa County Forensic Election Audit

## Volume III: Result Details

**Work Performed For:**

Arizona State Senate  
1700 W Washington St  
Phoenix, AZ 85007



# 1 CONTACT DETAILS

Name	Title	Phone	E-mail
Doug Logan	Principal Consultant	941-364-6527	<a href="mailto:dlogan@CyberNinjas.com">dlogan@CyberNinjas.com</a>

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### 3 DOCUMENT OVERVIEW

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The audit was designed to be a comprehensive review of the results from the Maricopa County 2020 General Election to confirm the effectiveness of existing legislation in governing elections, and to provide additional insights on possible areas of information-based legislative reform that could ensure an even greater level of integrity and accuracy in how elections are conducted.

This audit is the most comprehensive election audit that has been conducted. It involved reviewing everything from the voter history for the election, to retallying all 2.1 million ballots by hand, to performing forensic photography and review of the ballot paper, to conducting cyber forensic imaging and analysis of the provided voting equipment. This extensive process involved over 1,500 people who contributed a total of over 100,000 hours of time over the course of more than five months from when setup began, to when this report is completed.

This volume of the report serves to outline details of the results from the audit; including all the data and evidence to support the conclusions of this report.

### 4 TALLY RESULTS

---

The audit included a full hand-recount of all 2.1 million ballots from the 2020 General Election. During this process all original ballots were counted, as well as those ballots returned from duplication. Ballots that were duplicated included various categories of ballots that were not able to be run through the voting machines, such as damaged ballots or Uniformed and Overseas Citizens Absentee Voting Act (UOCAVA) ballots. The tallies from the original ballots sent to duplication, and the ballots received back from duplication were kept separate so that a comparison could occur. As can be found in audit finding, “More Duplicates Than Originals,” there were more duplicates than there were originals. For this reason, we utilized the counts of the originals for all official tallies.

This is the most important finding in the audit because the paper ballots are the best evidence of voter intent, and there is no reliable evidence that the paper ballots were altered to any material degree.

#### 4.1 Presidential Race

---

The chart below summarizes the results of the hand-recount of the Presidential Race of the Maricopa County Forensic Audit. These tallies are based on the tallies from all original ballots and does not include the ballots duplicated from the originals.

	<b>Trump</b>	<b>Biden</b>	<b>Jorgenson</b>	<b>Write In / Over / Under</b>	<b>Total</b>
Maricopa County Forensic Audit	995,404	1,040,873	31,501	20,791	2,088,569
Official Maricopa County Canvass	995,665	1,040,774	31,705	21,419	2,089,563
DELTA	(261)	99	(204)	(628)	(994)

### 4.3 Senate Race

The chart below summarizes the results of the hand-recount of the Senate Race of the Maricopa County Forensic Audit. These tallies are based on the tallies from all original ballots and does not include the ballots duplicated from the originals.

NOTE: Vote totals for the presidential and senatorial elections mismatch slightly primarily due to small differences in hand counts among the 2.1M million ballots.

	McSally	Kelly	Write In / Over / Under	Total
Maricopa County Forensic Audit	983,662	1,064,336	40,398	2,088,396
Official Maricopa County Canvass	984,203	1,064,396	40,964	2,089,563
DELTA	(541)	(60)	(566)	(1,167)

## 5 VOTER HISTORY, BALLOT, AND CERTIFIED RESULTS FINDINGS

The following section outlines all findings related to voting history, ballots and the certified results. This section covers everything that directly impacts the counting and accounting of results.

### 5.1 Ballot Scoring Methodology

Ballot related findings are scored based on the total number of potential ballots impacted by the finding. Based on the range by which this falls within a Severity is assigned, as can be seen in the chart to the right. In these circumstances a severity will still be assigned to the finding based on the potential impact the finding may have had on the election.

Ballots Impacted	Severity
10,000+	Critical
5,000 – 9,999	High
1,500 – 4,999	Medium
Less than 1,500	Low

## 5.2 Finding Summary Table

#	Finding Name	Phase	Ballots Impacted	Severity
5.3.1	Mail-in Ballots Voted from Prior Address	Voter History	23,344	Critical
5.4.1	More Ballots Returned by Voter Than Received	Voter History	9,041	High
5.4.2	Voters That Potentially Voted in Multiple Counties	Certified Results	5,295	High
5.5.1	Official Results Does Not Match Who Voted	Certified Results	3,432	Medium
5.5.2	More Duplicates Than Original Ballots	Ballot	2,592	Medium
5.5.3	In-Person Voters Who Had Moved out of Maricopa County	Certified Results	2,382	Medium
5.5.4	Voters Moved Out-of-State During 29-Day Period Preceding Election	Voter History	2,081	Medium
5.5.5	Votes Counted in Excess of Voters Who Voted	Certified results	1,551	Medium
5.6.1	Voters Not Part of the Official Precinct Register	Voter History	618	Low
5.6.2	Duplicated Ballots Incorrect & Missing Serial Numbers	Certified Results	500	Low
5.6.3	Ballots Returned Not in the Final Voted File	Ballot	430	Low
5.6.4	Mail-in Ballot Received Without Record of Being Sent	Certified Results	397	Low
5.6.5	Voters With Incomplete Names	Voter History	393	Low
5.6.6	Deceased Voters	Voter History	282	Low
5.6.7	Audit UOCAVA Count Does Not Match the EAC Count	Ballots	226	Low
5.6.8	Late Registered Voters with Counted Votes	Voter History	198	Low
5.6.9	Date of Registration Changes to Earlier Date	Voter History	194	Low
5.6.10	Duplicate Voter IDs	Voter History	186	Low
5.6.11	Multiple Voters Linked by AFFSEQ	Voter History	101	Low
5.6.12	Double Scanned & Counted ballots	Ballot	50	Low
5.6.13	UOCAVA Electronic Ballots Double Counted	Ballot	6	Low
5.6.14	Duplicate Ballots Reuse Serial Numbers	Ballot	6	Low
5.7.1	Audit Interference	Ballot	N/A	Informational
5.7.2	Batch Discrepancies	Ballot	N/A	Informational
5.7.3	Commingled Damaged and Original Ballots	Ballot	N/A	Informational
5.7.4	Early Votes Not Accounted for in EV33	Certified Results	N/A	Informational
5.7.5	High Bleed-Through Rates on Ballots	Ballot	N/A	Informational
5.7.6	Improper Paper Utilized	Ballot	N/A	Informational
5.7.7	Inaccurate Identification of UOCAVA Ballots	Ballot	N/A	Informational
5.7.8	Missing Subpoena Items	Ballot	N/A	Informational
5.7.9	No Record of Voters in Commercial Database	Voter History	N/A	Informational
5.7.10	Out of Calibration Ballot Printers	Ballot	N/A	Informational
5.7.11	Real-Time Provisional Ballots	Voter History	N/A	Informational
5.7.12	Voter Registration System Audit Access	Voter History	N/A	Informational
5.7.13	Questionable Ballots	Ballot	N/A	Informational

## 5.3 Critical Findings

### 5.3.1 MAIL-IN BALLOTS VOTED FROM PRIOR ADDRESS

**Ballots  
Impacted** 23,344

Mail-in ballots were cast under voter registration IDs for people that may not have received their ballots by mail because they had moved, and no one with the same last name remained at the address. Through extensive data analysis we have discovered approximately 23,344 votes that may have met this condition. If a registered voter does not have a secondary mailing address listed with the county and no longer lives at the address listed on their voter registration, they should not receive their mail-in ballot by automatic postal forwarding. In certain circumstances, however, it may be possible for them to receive a ballot, for example, if they know the present occupant, or if the ballot is improperly forwarded.

If ballots are being sent by forwardable mail, this would violate the Arizona Elections Procedures Manual, which requires, "A ballot-by-mail must be mailed to voters by first-class, non-forwardable mail." EPM p. 56. Therefore, this is a potentially criminal act. See ARS 16-452(C) (any person who violates a rule set forth in the EPM "is guilty of a class 2 misdemeanor.").

Ensuring that ballots are sent by non-forwardable mail serves an important purpose. When non-forwardable mail is returned undelivered, the County Recorder is required to initiate a process that places a voter on inactive status - meaning they will no longer automatically receive an early ballot - and may eventually remove them from the rolls entirely. ARS 16-165(A)(7), 544(E).<sup>1</sup>

The Final Voted File, or VM55, was cross-checked against a commercially available data source provided by Melissa<sup>2</sup> called Personator. Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service's National Change of Address (NCOA) service, and the Social Security Administration's Master Death List.

Addresses were not included in the results if there was a valid secondary mailing address as part of the voting record. Only moves prior to October 5, 2020, are included in the move numbers.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to gain access to the mail-in ballot.

Party	%
Democrat Party	39.5%
Republican Party	33.0%
Prefer Not to Declare	26.5%
Libertarian Party	1.0%

NOTE: While high quality commercial database sources were utilized to assemble these findings, some error is expected within these results. To further validate these findings, it is recommended that canvassing be conducted.

<sup>1</sup> With the passage of SB 1485, going forward, voters may be removed from the rolls if they have not voted for a prolonged period of time.

<sup>2</sup> <https://www.melissa.com>

NOTE: A full list of the Voter IDs affected can be found in esB1-B3 There are potential ways that a voter could receive their ballot which in some cases would not violate the law. Additional investigation by the Attorney General is recommended for any conclusive determination.

Description	Ballots
Mail-in votes from voters who moved within Maricopa County prior to the registration deadline	15,035
Mail-in votes from voters who moved out of Arizona prior to registration deadline	6,591
Mail-in votes from voters who moved within Arizona but out of Maricopa prior to registration deadline	1,718

NOTE: Please see Appendixes B1, B2 and B3 for the details for this finding.

### 5.3.1.1 REFERENCES

- [A.R.S. § 16-101 – Qualifications of registrant](#)<sup>3</sup>
- [State of Arizona – 2019 Elections Procedures Manual](#)<sup>4</sup>
- [A.R.S. § 16-165 – Causes for Cancellation](#)<sup>5</sup>
- [A.R.S § 16-452 – Rules](#)<sup>6</sup>
- [A.R.S § 16-544 – Permanent early voting list](#)<sup>7</sup>

### 5.3.1.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654

### 5.3.1.3 RECOMMENDATION

Legislation should be considered that links voter roll registration to changes in driver’s licenses or other state identification, as well as requiring the current voter rolls be validated against the United States Postal Service (USPS) National Change of Address (NCOA) at a predefined period prior to every election.

Laws already exist for interstate reporting of changes in residence, addresses, and driver’s licenses. Tying voter roll registration to these forms of identification would greatly increase the likelihood that voter registration details would be kept up to date. Individuals are more likely to remember their license needs to be updated immediately than voter registration, and since all states now offer the ability to register to vote when getting a license, license updates could also update voter rolls.

<sup>3</sup> <https://www.azleg.gov/ars/16/00101.htm>

<sup>4</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>5</sup> <https://www.azleg.gov/ars/16/00165.htm>

<sup>6</sup> <https://www.azleg.gov/ars/16/00452.htm>

<sup>7</sup> <https://www.azleg.gov/ars/16/00544.htm>

It is recommended that the voter rolls be validated against the NCOA both 90 days or more prior to the election, in addition to a week before mail-in ballots are sent out. This check would be utilized to determine if a mail-in ballot would be sent to the address since ballots are not allowed to be forwarded. The legislature may want to consider whether a change of address should suspend Permanent Early Voting List (PEVL) enrollment.

The Senate should consider referring this matter to the Attorney General’s Office for a criminal investigation as to whether the requirements of ARS 16-452(C) have been violated.

## 5.4 High

5.4.1 MORE BALLOTS RETURNED BY VOTER THAN RECEIVED	<b>Ballots Impacted</b> 9,041
--	-------------------------------

9,041 more ballots show as returned in the EV33 Early Voting Returns File for a single individual who voted by mail than show as sent to that individual within the EV32 Early Voting Sent File. In most of these instances an individual was sent one ballot but had two ballots received on different dates.

Further investigation would be needed to determine the cause, but this could be explained in any of the possible ways:

- More than one ballot could have been sent out, but an entry was missed within the EV32 file.
- The same ballot could have been processed more than once on different days, resulting in two EV33s for one ballot.
- Checking into Early Vote in person may not have recognized that a mail-in ballot was already received and both the Early Vote In-Person and the mail-in may have generated an EV33.
- A counterfeit ballot was sent via mail and both the legitimate ballot sent and the counterfeit ballot generated EV33 entries.

NOTE: We’ve been informed shortly before the release of this report that some of the discrepancies outlined could be due to the protected voter list. This has not been able to be validated at this time, but we thought it was important to disclose this information for accuracy.

NOTE: An EV33 indicates that a ballot is received and does not necessarily mean the ballot was counted. It is assumed that only the first ballot received and validated is counted.

Ballots Sent to Voter	Ballots Received for Voter	Quantity of Voters
1	2	8,875
1	3	163
1	4	3

NOTE: Please see Appendix C1 for details on the voters who had more ballots received than sent.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another party that was somehow able to cast a vote.

Party	%
Democrat Party	34.4%
Republican Party	30.4%
Prefer Not to Declare	30.1%
Independent	3.7%
Libertarian Party	1.3%

#### 5.4.1.1 REFERENCES

- [A.R.S. § 16-246 – Early Balloting<sup>8</sup>](#)
- [A.R.S. § 16-542 – Request for ballot<sup>9</sup>](#)
- [A.R.S § 16-544 – Permanent early voting list<sup>10</sup>](#)
- [A.R.S. § 16-558.01 – Mailing of Ballots<sup>11</sup>](#)

#### 5.4.1.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654
EV33-1377-10-09-2020_101111.txt	f1daa7089f7300237f6b4ff779661cf9
EV33-1377-10-12-2020_113210.txt	72e4e6c102e3539b4dd15b4454357b69
EV33-1377-10-13-2020_111553.txt	9b14841281c031533322b50aabb86a24
EV33-1377-10-14-2020_112757.txt	1b7537d7d9b927dbf4e462ed5ee8f97c
EV33-1377-10-15-2020_121331.txt	dec7d08dde4970c26e32b8c844f4a9ab
EV33-1377-10-16-2020_113522.txt	f0a632c3fd9b5f177d48504dc119be31
EV33-1377-10-19-2020_111708.txt	db80b692a9188add0844a8974e227287
EV33-1377-10-20-2020_112351.txt	57d1795db8be71d516e29350e347fb3a
EV33-1377-10-21-2020_111843.txt	56c3b5a11651c68735164c578eade4e1
EV33-1377-10-22-2020_111714.txt	03551f170bf758efc90c013d0fe2e467
EV33-1377-10-23-2020_112614.txt	dbfdd369ac148723540c83f614cca454
EV33-1377-10-26-2020_111318.txt	0b68adff779f59c70a530000bf989aca
EV33-1377-10-27-2020_111413.txt	a6fc7377bf6c6fe6653f539c5970a6f7
EV33-1377-10-28-2020_111331.txt	43758b9290f90d0305d5ed84aa10becb
EV33-1377-10-29-2020_111300.txt	410b30b06f2ca73022f27173fe114038
EV33-1377-10-30-2020_111804.txt	5cb44e5ea214f40227e04345d4355ff7
EV33-1377-11-02-2020_111214.txt	5d15bb8686a022f53400550cfe010a07

<sup>8</sup> <https://www.azleg.gov/ars/16/00246.htm>

<sup>9</sup> <https://www.azleg.gov/ars/16/00542.htm>

<sup>10</sup> <https://www.azleg.gov/ars/16/00544.htm>

<sup>11</sup> <https://www.azleg.gov/ars/16/00558-01.htm>

File Name	MD5 Hash
EV32-1377-09-18-2020_075112.txt	ab22e9ba4ad54af1b7a47f8381d506c7
EV32-1377-09-30-2020_111728.txt	2e4df9ccf2e5e64fd7e164628ff7667a
EV32-1377-10-01-2020_113125.txt	92538fe838c7c872957d155a98290874
EV32-1377-10-02-2020_125658.txt	be7d44838daa2aa758a0adb1dfe88acd
EV32-1377-10-05-2020_112338.txt	31a356a1a1826639759fc66afb812498
EV32-1377-10-06-2020_114600.txt	cb70c4468ebd51142003e46e3e1257c4
EV32-1377-10-07-2020_111951.txt	185d423606927ba15f827e19329c02aa
EV32-1377-10-08-2020_111639.txt	4f82598b6fab071300e92b8f56407451
EV32-1377-10-09-2020_112718.txt	bdf22cce7eca5eeb0b52dbb9f87a54b6
EV32-1377-10-12-2020_113153.txt	67a7ab52ab0850127528b18667eaf5c6
EV32-1377-10-13-2020_111535.txt	81af1c0b010368d0e11cc68e8a21f2e6
EV32-1377-10-14-2020_112738.txt	e88cce6a8a27b5bf755765f516710c48
EV32-1377-10-15-2020_121305.txt	2f12b801d981afc0e4e114bdfbf4241c
EV32-1377-10-16-2020_113410.txt	46a251f88fdd1d2e2352ac1dc61ffa9
Maricopa_EV32-1377-10-19-2020_111633-2020-10-20T14 53 30Z.txt	9cd6e80c07e1f33129cf98302930abb6
Maricopa_EV32-1377-10-20-2020_112309-2020-10-21T15 13 12Z.txt	e3cc25b520b5710090f4dfff2d7fce7f
Maricopa_EV32-1377-10-21-2020_111759-2020-10-22T15 08 54Z.txt	e786fec02788d0b7c4392ca5b1cd284e
Maricopa_EV32-1377-10-22-2020_111639-2020-10-23T15 03 40Z.txt	86ea315f6bce7c0c902027b5373f6e2c
Maricopa_EV32-1377-10-23-2020_112532-2020-10-26T15 00 59Z.txt	ca42553da16ea38cf2b72f29b81a990f

#### 5.4.1.3 RECOMMENDATION

It is recommended that the Attorney General inquire of Maricopa County as to the reason for this discrepancy, and if a sufficient explanation is not received an investigation be opened to investigate this further.

**Ballots Impacted** 5,295

#### 5.4.2 VOTERS THAT POTENTIALLY VOTED IN MULTIPLE COUNTIES

Comparing the Maricopa County VM55 Final Voted File to the equivalent files of the other fourteen Arizona counties resulted in 5,047 voters with the same first, middle, last name and birth year, representing 10,342 votes among all the counties. While it is possible for multiple individuals to share all these details, it is not common although the incidence here (roughly one-third of one percent) may be the rate of commonalities in identifying information between legitimate, separate individual voters especially with common last names. This list should be fully reviewed.

NOTE: The Ballot Impacted was calculated by the total number of votes (10,342) and subtracting the number of maximum number of potential unique people (5,047). This yielded 5,295.

NOTE: Please see Appendix D1 for details on the potential voters who cast a vote in more than one location.

### 5.4.2.1 REFERENCES

- [State of Arizona – 2019 Elections Procedures Manual](#)<sup>12</sup>
- [A.R.S. § 16-120 – Eligibility to vote](#)<sup>13</sup>

### 5.4.2.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654
Apache County - 01_02_2021 Party CD-2021-02-09T00 22 11Z.csv	be4c0af2563848085d58ba6b35a486d9
Cochise County Voter File 01022021.csv	6839d6c54e5da7b5440018b23c239a80
Coconino County - 11-3-20 General Voter List with Voting History.csv	aa92299b3af0188e0d477d30929ff2e8
Gila County - votinghistoryexport_637454437931504987.csv	ea8475adc98ba6d488c1cf772333c750
Graham County - votinghistoryexport022021.csv	a967c66261fc118b12a7673cfc140293
Greenlee Party Report Active voters with voting history 1-6-2021-2021-01-06T17 47 47Z.csv	9f911e1249c0c6303d393e88f435057c
La Paz County - votinghistoryexport11032020-2020-12-09T19 37 25Z.csv	a94f953df2f4843ee1a753f2102ef589
Mojave County - Party File 1-2-2021.csv	427dfa3347df1c9a373d1c60250d71d3
Navajo County - Parties List January 21-2021-02-10T22 08 47Z.csv	1aea8fc97eaa284ba27de8689774315
Pima County - ActiveVoters20210105112009.csv	93bbfb0586d83cc714b8d02b2ad8d8e3
Pinal County - Active Voter List 01052021.csv	44d10afdac81cf1dea2bd5faffda50dc
Santa Cruz County - 1ST QTR ACTIVE VOTER LIST REPORT 01202021.csv	73e8599aab7c084c94605621f0c148e2
YavapaiCounty - 11-10-2020 votinghistory-Yavapai.csv	2e68ec2f922a0eda6999f3fc5b1c0638
Yuma County - Voting History Export_Include ALL Registered Voters.csv	d87c732fc069e85db4a92974bd7c689b

### 5.4.2.3 RECOMMENDATION

Legislation should be considered which requires a more clear schedule for cleaning up and maintaining voter rolls, including specific requirements for a county based on its size and growth.

## 5.5 Medium Findings

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<sup>12</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>13</sup> <https://www.azleg.gov/ars/16/00120.htm>

### 5.5.1 OFFICIAL RESULTS DO NOT MATCH WHO VOTED

**Ballots Impacted** 3,432

The official result totals do not match the equivalent totals from the Final Voted File (VM55). These discrepancies are significant with a total ballot delta of 11,592 between the official canvass and the VM55 file when considering both the counted and uncounted ballots.

#### Official Results verses Final Voted File (VM55) – Counted Ballots

Description	Type	Official Results	Final Voted (VM55)	Delta
Early Vote	Mail In (R)	N/A	1,702,981	
	In Person (B)	N/A	209,112	
	Total	1,915,487	1,912,093	3,394
Election Day Vote	Regular	167,878	N/A	
	Provisional	6,198	N/A	
	Total	174,076	(P) 174,038	38
Total Counted:		2,089,563	2,086,131	3,432

NOTE: Please see Appendix E1 for a full break-down by precinct of the differences between the Official Results and the Final Voted File (VM55).

#### 5.5.1.1 DATA FILES UTILIZED

File Name	MD5 Hash
<u>11-03-2020-1 Final Official Summary Report NOV2020.pdf</u> <sup>14</sup>	321a78c74d4f442da0659014b29cb091
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654

#### 5.5.1.2 RECOMMENDATION

Legislation should be considered that would require the Official Canvass to fully reconcile with the Final Voted File. The number of individuals who showed up to vote should always match the number of votes cast.

<sup>14</sup> <https://recorder.maricopa.gov/electionarchives/2020/11-03-2020-1%20Final%20Official%20Summary%20Report%20NOV2020.pdf>

5.5.2 MORE DUPLICATES THAN ORIGINAL BALLOTS

Maricopa County reported “In this election, Maricopa County had 27,869 duplicate ballots pertaining to the Presidential Electors.”<sup>15</sup> The audit team counted 29,557 duplicate ballots. However, only 26,965 original ballots were sent to duplication.

Description	Ballots Count
Maricopa County Forensic Audit - Original Ballots Sent to Duplication	26,965
Maricopa County Forensic Audit – Duplicate Ballots Counted	29,557
Maricopa County – Reported Duplicate Ballots	27,869

A comparison of the total number of original ballots sent to duplication vs the total number of duplicate ballots shows that Maricopa County counted 2,592 more duplicate ballots than original ballots sent to duplication. The audit team attempted to resolve the discrepancies, but those efforts were impeded by the County’s failure to properly identify duplicate ballot batches and failure to assign unique serial numbers to each damaged ballot sent to duplication and then match that number to the duplicate ballot printed to replace it.

The County reported 1688 fewer ballots sent to duplication than identified by the audit team. The County provided 904 fewer original ballots than they reportedly duplicated.

These extra duplicates favored Republican candidates over Democrat candidates, and even favored the Libertarian candidate at a higher rate than the overall vote distribution.

Description	Damaged Sent to Duplication (DSD)	Duplicate Ballots (DUP)	Expected % To Candidate	% Difference To Candidate
Trump	995,404	996,896	48%	58%
Biden	1,040,873	1,041,733	50%	33%
Jorgenson	31,501	31,580	2%	3%

Description	Damaged Sent to Duplication (DSD)	Duplicate Ballots (DUP)	Expected % To Candidate	% Difference To Candidate
McSally	983,662	985,100	47%	55%
Kelly	1,064,336	1,065,266	51%	36%

NOTE: Please see Appendixes F1 and F2 for the details of this finding.

<sup>15</sup> <https://ecf.azd.uscourts.gov>

### 5.5.2.1 REFERENCES

- Maricopa Clerk of Court Duplicate Ballots<sup>16</sup>
- State of Arizona – 2019 Elections Procedures Manual<sup>17</sup>
- A.R.S. § 16-621 – Proceedings at the counting center<sup>18</sup>

### 5.5.2.2 RECOMMENDATION

Legislation should be considered that requires regular audits of elections within a year of the election. Among the mandatory items required to perform in the audit should be a review of the duplicate ballot process.

### 5.5.3 IN-PERSON VOTERS WHO HAD MOVED OUT OF MARICOPA COUNTY **Ballots Impacted** 2,382

The VM55 Final Voted File, was cross-checked against a commercially available data source provided by Melissa called Personator and 2,382 ballots were cast voter IDs for individuals that moved outside of Maricopa County prior to 10/5/2020. Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service’s National Change of Address (NCOA) service, and the Social Security Administration’s Master Death List. Only moves prior to October 5, 2020, are included in the move numbers.

NOTE: While high quality commercial database sources were utilized to assemble these findings, a small percentage of error is expected within these results. To further validate these findings, it is recommended that canvassing be conducted.

Description	Ballots
In-Person votes from voters who moved out of Arizona prior to registration deadline	1,528
In-Person votes from voters who moved within Arizona but out of Maricopa prior to registration deadline	854

NOTE: Please see Appendixes G1 and G2 for additional details on the individuals that show as moved.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another party that was somehow able to cast a vote.

Party	%
Republican Party	43.37%
Democrat Party	25.06%
Prefer Not to Declare	26.87%
Independent	3.27%
Libertarian Party	1.18%
Green Party	0.25%

<sup>16</sup> <https://www.clerkofcourt.maricopa.gov/home/showpublisheddocument/1902/637425888214000000>

<sup>17</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>18</sup> <https://www.azleg.gov/ars/16/00621.htm>

### 5.5.3.1 REFERENCES

- Maricopa County – 11-03-2020 - General Election Canvass Summary<sup>19</sup>

### 5.5.3.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654

### 5.5.3.3 RECOMMENDATION

Legislation should be considered that links voter roll registration to changes in driver’s licenses or other state identification, as well as requiring the current voter rolls be validated against the United States Postal Service (USPS) National Change of Address (NCOA) at a predefined period prior to every election.

Laws already exist for interstate reporting of changes in residence, addresses, and driver’s licenses. Tying voter roll registration to these forms of identification would greatly increase the likelihood that voter registration details would be kept up to date. Individuals are more likely to remember their license needs to be updated immediately than voter registration, and since most states now offer the ability to register to vote when getting a license, license updates could also update voter rolls.

It is recommended that the voter rolls be validated against the NCOA both 90 days or more prior to the election, in addition to a week before mail-in ballots are sent out. This check would be utilized to determine if a mail-in ballot would be sent to the address since ballots are not allowed to be forwarded. The legislature may want to consider whether a change of address should suspend Permanent Early Voting List (PEVL) enrollment.

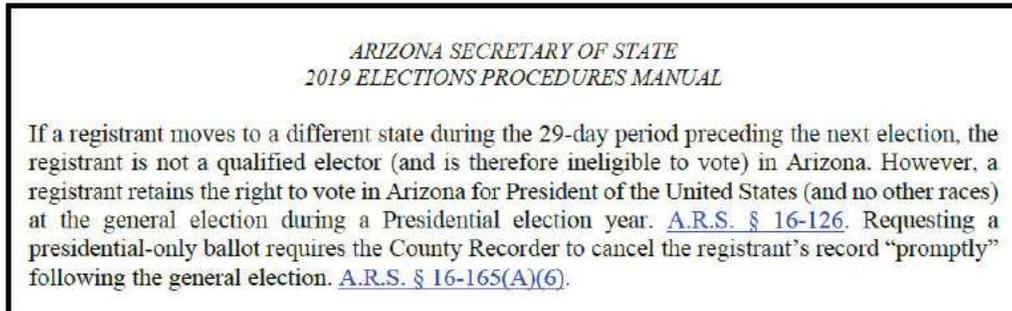
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<sup>19</sup> <https://recorder.maricopa.gov/electionarchives/2020/11-03-2020-1%20Final%20Official%20Summary%20Report%20NOV2020.pdf>

#### 5.5.4 VOTERS MOVED OUT-OF-STATE DURING 29-DAY PERIOD PRECEDING ELECTION

Ballots  
Impacted 2,081

Arizona law and the 2019 Election Procedures Manual address the specific voting eligibility of a person who moves out of Arizona during the 29-day period before the election. A person that moved out of Arizona between 10/5/2020 and 11/03/2020, was no longer legally considered a “resident,” however was eligible by law to vote a presidential-only ballot. See the image below taken from the 2019 Elections Procedure Manual (pg. 30).



The 2019 Elections Procedure Manual states “A registrant is a “resident” if they have physical presence in the county along with an intent to remain. A registrant may be temporarily absent from the jurisdiction without losing their residency status, as long as they have an intent to return. A.R.S. § 16-103.” (pg. 12)

The Final Voted File, or VM55, was cross-checked against a commercially available data source provided by Melissa<sup>20</sup> called Personator. Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service’s National Change of Address (NCOA) service, and the Social Security Administration’s Master Death List.

The cross-check resulted in 2,081 instances of a voter that moved out of the state of Arizona during the 29-day period before the election who cast a ballot in the 2020 general election. It cannot be determined whether these voters undervoters all the races on their ballots other than the presidential race, thereby creating a *de facto* Presidential-Only ballot.

The ballot definitions on the Dominion EMS do not include a “Presidential-Only” ballot. The Dominion voting machines would not be able to read a ballot for which a ballot definition does not exist. Additionally, in examining the EV33 sent ballot files for ballot codes, the ballot images, and the cast vote record, no presidential-only ballots as specified by A.R.S. § 16-126 and the 2019 Election Procedures Manual were found to be cast in this election.

<sup>20</sup> <https://www.melissa.com>

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Republican Party	41.28%
Democrat Party	31.57%
Prefer Not to Declare	21.96%
Independent	4.32%
Libertarian Party	0.82%
Green Party	0.05%

NOTE: Please see Appendix H1 for details on the voters who moved out-of-state during the 29-day period preceding the election.

#### 5.5.4.1 REFERENCES

- [Arizona State - 2019 Elections Procedure Manual](#)<sup>21</sup>
- [A.R.S. § 16-126 – Authority to vote in a presidential election after moving from state](#)<sup>22</sup>
- [A.R.S. § 16-103 – Qualified person temporarily absent from the state](#)<sup>23</sup>

#### 5.5.4.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654

#### 5.5.4.3 RECOMMENDATION

Legislation should be considered that links voter roll registration to changes in driver’s licenses or other state identification, as well as requiring the current voter rolls be validated against the United States Postal Service (USPS) National Change of Address (NCOA) at a predefined period prior to every election.

Laws already exist for interstate reporting of changes in residence, addresses, and driver’s licenses. Tying voter roll registration to these forms of identification would greatly increase the likelihood that voter registration details would be kept up to date. Individuals are more likely to remember their license needs to be updated immediately than voter registration, and since most states now offer the ability to register to vote when getting a license, license updates could also update voter rolls.

It is recommended that the voter rolls be validated against the NCOA both 90 days or more prior to the election, in addition to a week before mail-in ballots are sent out. This check would be utilized to determine if a mail-in ballot would be sent to the address since ballots are not allowed to be forwarded. The legislature may want to consider whether a change of address should suspend Permanent Early Voting List (PEVL) enrollment.

<sup>21</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>22</sup> <https://www.azleg.gov/ars/16/00126.htm>

<sup>23</sup> <https://www.azleg.gov/ars/16/00103.htm>

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### 5.5.5 VOTES COUNTED IN EXCESS OF VOTERS WHO VOTED

**Ballots  
Impacted** 1551

The number of votes cast in an election should not exceed the number of voters who participate in the election. An analysis of the Maricopa County Official Canvass and the VM55 Final Voted file from November 2020 show that multiple precincts counted votes in excess of the number of voters who participated in the 2020 General Election.

Reconciliation of the voters who participated to ballots cast is first required at a every vote center for election day voting. The County Audit Board is required to reconcile the voters who participated with the ballots cast for each precinct prior to certifying the Official Canvass. The expected delta should be more voters who voted than votes cast because some ballots were undervoted or overvoted. There were 277 precincts with a voter deficit, 65 precincts with an equal number of voters who voted, and cards cast. There were 401 precincts with the expected surplus.

NOTE: We've been informed shortly before the release of this report that some of the discrepancies outlined could be due to the protected voter list. This has not been able to be validated at this time, but we thought it was important to disclose this information for accuracy.

NOTE: The following chart illustrates the percentage of voters by registered party that are given within the precincts that the Ballot Impacted number represents. Understanding why there is more votes than voters in this precinct would be required before any determination could be made as to whether the precinct breakouts would influence how this finding impacted the votes.

Party	%
Republican Party	42.25%
Democrat Party	30.02%
Prefer Not to Declare	22.34%
Independent	4.41%
Libertarian Party	0.90%
Green Party	0.0%

From the Arizona Election Procedure Manual, the Audit Board has several responsibilities:

- “1. Receives the Official Ballot Reports for each voting location and any supplemental information from the election boards that could explain any discrepancies.*
- 2. Receives the signature rosters, poll lists (or scanned copies), or reports from e-pollbooks that show voter check-ins and signatures...”*
- “9. Identifies discrepancies in the reports following final tabulation of duplicated ballots and provisional ballots.*
- 10. Resolves problems that appear to be of major significance in the presence of political party observers; and*
- 11. Resolves and documents all discrepancies. The functions of the Audit Board must be completed prior to the acceptance of the canvassing.”*

Note that the Audit Board must consider discrepancies after the final tabulation which would include discrepancies in the number of votes counted vs. the number of voters who participated in the election. This would include mail ballots, duplicated ballots and provisional ballots for voters in every precinct. Maricopa County failed to resolve these discrepancies prior to acceptance of the canvass.

NOTE: Please see Appendix I1 for the full list broken out by precinct.

#### 5.5.5.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>24</sup>

#### 5.5.5.2 DATA FILES UTILIZED

File Name	MD5 Hash
11-03-2020-2b Final SOV and Official Canvass Report NOV2020.csv	e907163ef4b0d99e116c24fcb98a6969
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654

<sup>24</sup> [https://azsos.gov/sites/default/files/2019 ELECTIONS PROCEDURES MANUAL APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

### 6.5.5.3 RECOMMENDATION

Maricopa County Election Officials and Audit Board should examine all records and resolve all discrepancies prior to certification of election results. Each legal voter should be permitted to vote one and only one time.

## 5.6 Low Findings

**Ballots  
Impacted** 618

### 5.6.1 VOTERS NOT PART OF THE OFFICIAL PRECINCT REGISTER

The list of individuals who are eligible and able to vote in an election, also known as the official precinct register, is established 10 days prior to the election. This means that for the 2020 General Election this was established on October 22<sup>nd</sup>. At that point in time everyone who was officially on the voter rolls for the election should have been on the rolls. It should not require an earlier or a later voter roll file to find a complete list of everyone who was eligible and actually voted in the election. However, a review of the VM55 Final Voted File for the 2020 General Election shows voter IDs that do not show on either the October 2, 2020 voter rolls or on the November 7, 2020 voter rolls. To match up all the voter IDs that show on the VM55 Final Voted File for the 2020 General Election it requires that you look back to the April 9, 2017, voter rolls to find all the IDs: in addition to also requiring the December 4, 2020, rolls. In total it takes 12 different months VM34 Monthly Voter Roll files to find and match-up all voters in the 2020 General Election. This can be seen in the diagram below.

<u>VM34 File Date</u>	<u># Of Matched Voters</u>
12/4/2020	605
11/7/2020	2,089,465
9/5/2020	1
8/8/2020	1
7/3/2020	1
6/6/2020	1
12/6/2019	2
10/5/2019	3
4/5/2019	1
2/2/2019	1
5/6/2017	1
4/9/2017	1

NOTE: It is expected that the official precinct registration might be missing a few people who hadn't provided proof of citizenship prior, and has until 7pm on election day to provide this information; or those who qualify for UOCAVA who are allowed to register to vote up until 7pm on election day. However, in both cases you would expect these individuals to be in the November 7<sup>th</sup> rolls, which occurs after the election.

NOTE: Please see Appendix A for a copy of the VM55 Final Voted File joined to the appropriate rows of data from all of the above VM34s. This file is utilized as the basis for every finding that requires both VM55 and VM34 data.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Republican Party	37.06%
Democrat Party	34.79%
Prefer Not to Declare	26.54%
Libertarian Party	1.13%
Independent	0.49%

### 5.6.1.1 REFERENCES

- A.R.S. § 16-168 - Precinct registers<sup>25</sup>

### 5.6.1.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654
Maricopa County-VM34 Voter Registration Oct 2, 2020	99a4440ae9bab7f0de96d7656b4e739d
Maricopa County-VM34 Voter Registration Nov 7, 2020	d7bfc018296832836d2bd8de440cba53
Maricopa County-VM34 Voter Registration Dec 4, 2020	255f69007b253c7f2737b050c439f269

### 5.6.1.3 RECOMMENDATION

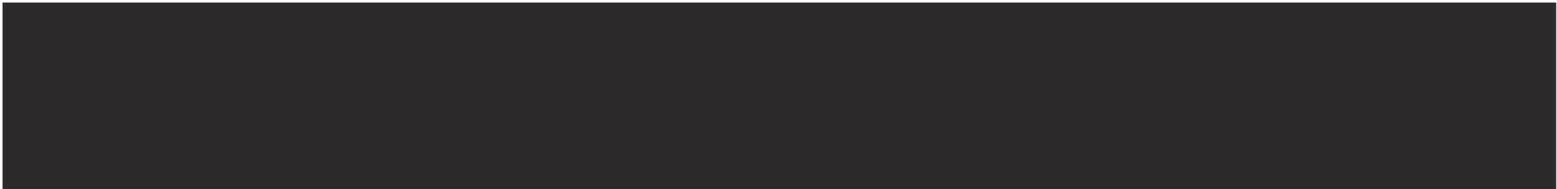
Legislation should be considered that will require that the precinct registers be complete and comprehensive of every individual who could legally vote for the election.

<sup>25</sup> <https://www.azleg.gov/ars/16/00168.htm>

5.6.2 DUPLICATED BALLOTS INCORRECT & MISSING SERIAL NUMBERS

Damaged Ballots sent to duplication must have a serial number that can be matched to the duplicate (replacement ballot). Many damaged ballots sent to duplication do not have a serial number, and multiple duplicated ballots have incorrect serial numbers that do not match the original ballots. The County must “record an identical serial number on both the original and duplicate ballot (including spoiled duplicates) – this ties the ballots together and creates a paper trail as required by statute, A.R.S. § 16-621(A)”

In addition, there are hundreds of damaged ballots with unreadable serial numbers like these examples below:

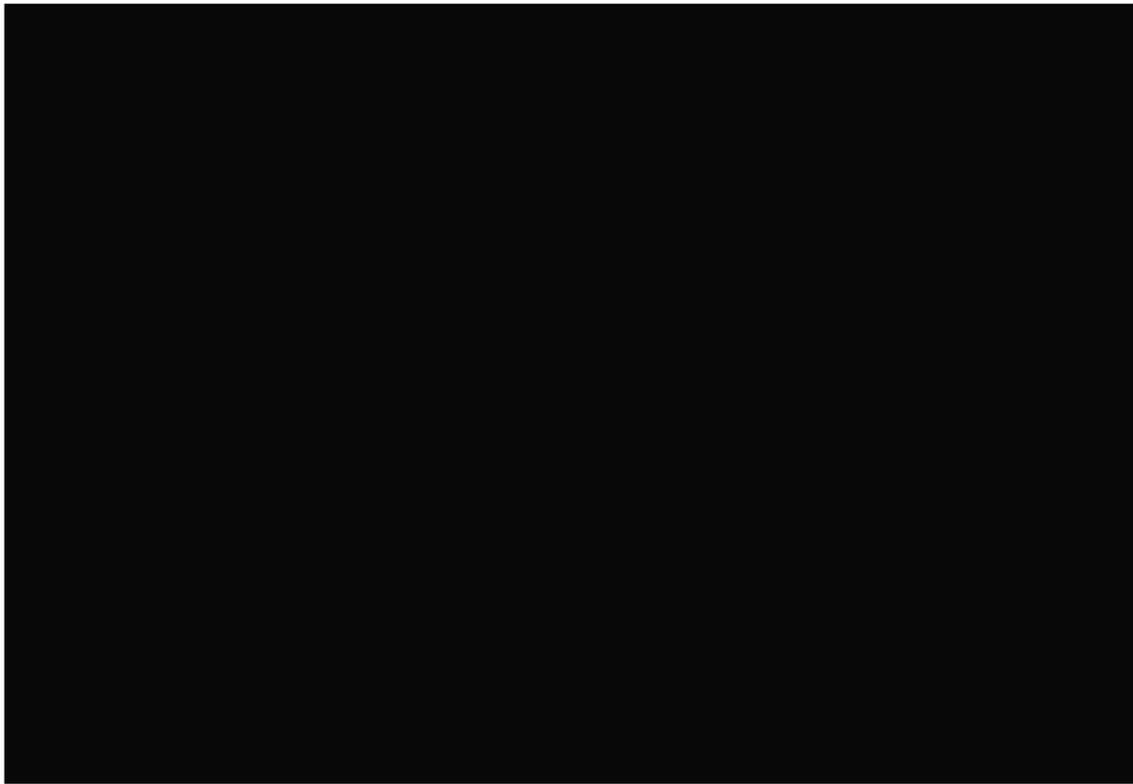


Of those original ballots that had a readable serial number, several of them had incorrect serial numbers. In some cases, as shown in the example below, the audit team was able to identify the original ballot and the duplicate ballot based on a series of precinct, ballot type and presidential selection. The five ballots in the table below had incorrect serial numbers on the duplicate ballot.

Duplicate Ballot Serial Number	Precinct	Ballot Type	Presidential Selection	Original Damaged Ballot Serial Number
DUPBOARD3HAND0214	643	0	Biden	Board 1 Hand Dup 214
DUPBOARD3HAND0215	239	99	Trump	Board 1 Hand Dup 215
DUPBOARD3HAND0216	391	99	Biden	Board 1 Hand Dup 216
DUPBOARD3HAND0217	144	99	Biden	Board 1 Hand Dup 217
DUPBOARD3HAND0218	492	0	Biden	Board 1 Hand Dup 218



Segment Trailer Sheet showing precinct and ballot type



*UOCAVA Ballot Image showing precinct, ballot type*

#### 5.6.2.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>26</sup>
- A.R.S. § 16-621 – Proceedings at the counting center<sup>27</sup>

#### 5.6.2.2 RECOMMENDATION

Legislation should be considered that requires regular audits of the duplicate ballot process.

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<sup>26</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>27</sup> <https://www.azleg.gov/ars/16/00621.htm>

5.6.3 BALLOTS RETURNED NOT IN THE FINAL VOTED FILE

Ballots show as returned in the EV33 Early Voting Returns File but there is no matching record in the VM55 Final Voted File. All entries in the EV33 file show with a ballot status of “Returned” and the only other status of “Voided Early Ballot” is not used anytime in the 2020 General Election.

The most likely explanation is that these ballots represent rejected ballots. However, the number of ballots in question, 2,472, does not match the 2,976 ballots that were rejected (2,042) or late (934). It is expected there should be a full accounting of all ballots received and voted that can be matched up to individual voter participation.

NOTE: Please see Appendix K1 for a list of all the EV33 entries that cannot be found in the VM55 file.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Republican Party	33.25%
Democrat Party	32.12%
Prefer Not to Declare	29.41%
Independent	3.84%
Libertarian Party	1.05%
Green Party	0.25%
Independent	0.08%

5.6.3.1 REFERENCES

- A.R.S. 16-542 – Request for ballot<sup>28</sup>
- A.R.S. 16-246 – Early Balloting<sup>29</sup>

<sup>28</sup> <https://www.azleg.gov/ars/16/00542.htm>

<sup>29</sup> <https://www.azleg.gov/ars/16/00246.htm>

### 5.6.3.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654
EV33-1377-10-09-2020_101111.txt	f1daa7089f7300237f6b4ff779661cf9
EV33-1377-10-12-2020_113210.txt	72e4e6c102e3539b4dd15b4454357b69
EV33-1377-10-13-2020_111553.txt	9b14841281c031533322b50aabb86a24
EV33-1377-10-14-2020_112757.txt	1b7537d7d9b927dbf4e462ed5ee8f97c
EV33-1377-10-15-2020_121331.txt	dec7d08dde4970c26e32b8c844f4a9ab
EV33-1377-10-16-2020_113522.txt	f0a632c3fd9b5f177d48504dc119be31
EV33-1377-10-19-2020_111708.txt	db80b692a9188add0844a8974e227287
EV33-1377-10-20-2020_112351.txt	57d1795db8be71d516e29350e347fb3a
EV33-1377-10-21-2020_111843.txt	56c3b5a11651c68735164c578eade4e1
EV33-1377-10-22-2020_111714.txt	03551f170bf758efc90c013d0fe2e467
EV33-1377-10-23-2020_112614.txt	dbfdd369ac148723540c83f614cca454
EV33-1377-10-26-2020_111318.txt	0b68adff779f59c70a530000bf989aca
EV33-1377-10-27-2020_111413.txt	a6fc7377bf6c6fe6653f539c5970a6f7
EV33-1377-10-28-2020_111331.txt	43758b9290f90d0305d5ed84aa10becb
EV33-1377-10-29-2020_111300.txt	410b30b06f2ca73022f27173fe114038
EV33-1377-10-30-2020_111804.txt	5cb44e5ea214f40227e04345d4355ff7
EV33-1377-11-02-2020_111214.txt	5d15bb8686a022f53400550cfe010a07

### 5.6.3.3 RECOMMENDATION

Legislation should be considered that requires that the various election related systems to properly integrate in order to give accurate and consistent counts between the mail-in ballots cast, mail-in ballots received, mail-in ballots accepted, mail-in ballots rejected, and be able to reconcile these details with who voted in the final voted file.

5.6.4 MAIL-IN BALLOT RECEIVED WITHOUT RECORD OF BEING SENT **Ballots Impacted** 397

Ballots show as returned in the EV33 Early Voting Returns File for a voter who voted by mail but there is no matching record in the EV32 Early Voting Sent File showing that a ballot was ever sent. This most likely means that there was a clerical error in the EV32 Early Voting Sent Files and ballots that were sent out legitimately were not recorded.

NOTE: At an earlier hearing it was stated that there were 74,243 entries in EV33 Early Voting Returns Files without a corresponding entry in the EV32 Early Voting Sent Files. This was brought up in the context of justification for performing canvassing to further validate the reasoning for this discrepancy. While this discrepancy is accurate, it was unintentionally misleading. All but 397 of those entries were Early Voting in-person votes which also generate an EV33 entry in addition to mail-in ballots.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Democrat Party	33.25%
Republican Party	31.49%
Prefer Not to Declare	29.72%
Independent	3.53%
Libertarian Party	2.02%
Green Party	0.08%

NOTE: Please see Appendix L1 for a complete list of the voters who had a ballot received, but there is no record of a ballot being sent.

#### 5.6.4.1 REFERENCES

- [A.R.S. 16-542 – Request for ballot](#)<sup>30</sup>
- [A.R.S. 16-246 – Early Balloting](#)<sup>31</sup>

#### 5.6.4.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654
EV33-1377-10-09-2020_101111.txt	f1daa7089f7300237f6b4ff779661cf9
EV33-1377-10-12-2020_113210.txt	72e4e6c102e3539b4dd15b4454357b69
EV33-1377-10-13-2020_111553.txt	9b14841281c031533322b50aabb86a24
EV33-1377-10-14-2020_112757.txt	1b7537d7d9b927dbf4e462ed5ee8f97c
EV33-1377-10-15-2020_121331.txt	dec7d08dde4970c26e32b8c844f4a9ab
EV33-1377-10-16-2020_113522.txt	f0a632c3fd9b5f177d48504dc119be31
EV33-1377-10-19-2020_111708.txt	db80b692a9188add0844a8974e227287
EV33-1377-10-20-2020_112351.txt	57d1795db8be71d516e29350e347fb3a
EV33-1377-10-21-2020_111843.txt	56c3b5a11651c68735164c578eade4e1
EV33-1377-10-22-2020_111714.txt	03551f170bf758efc90c013d0fe2e467
EV33-1377-10-23-2020_112614.txt	dbfdd369ac148723540c83f614cca454
EV33-1377-10-26-2020_111318.txt	0b68adff779f59c70a530000bf989aca
EV33-1377-10-27-2020_111413.txt	a6fc7377bf6c6fe6653f539c5970a6f7
EV33-1377-10-28-2020_111331.txt	43758b9290f90d0305d5ed84aa10becb
EV33-1377-10-29-2020_111300.txt	410b30b06f2ca73022f27173fe114038
EV33-1377-10-30-2020_111804.txt	5cb44e5ea214f40227e04345d4355ff7
EV33-1377-11-02-2020_111214.txt	5d15bb8686a022f53400550cfe010a07
EV32-1377-09-18-2020_075112.txt	ab22e9ba4ad54af1b7a47f8381d506c7
EV32-1377-09-30-2020_111728.txt	2e4df9ccf2e5e64fd7e164628ff7667a

<sup>30</sup> <https://www.azleg.gov/ars/16/00168.htm>

<sup>31</sup> <https://www.azleg.gov/ars/16/00246.htm>

File Name	MD5 Hash
EV32-1377-10-01-2020_113125.txt	92538fe838c7c872957d155a98290874
EV32-1377-10-02-2020_125658.txt	be7d44838daa2aa758a0adb1dfe88acd
EV32-1377-10-05-2020_112338.txt	31a356a1a1826639759fc66afb812498
EV32-1377-10-06-2020_114600.txt	cb70c4468ebd51142003e46e3e1257c4
EV32-1377-10-07-2020_111951.txt	185d423606927ba15f827e19329c02aa
EV32-1377-10-08-2020_111639.txt	4f82598b6fab071300e92b8f56407451
EV32-1377-10-09-2020_112718.txt	bdf22cce7eca5eeb0b52dbb9f87a54b6
EV32-1377-10-12-2020_113153.txt	67a7ab52ab0850127528b18667eaf5c6
EV32-1377-10-13-2020_111535.txt	81af1c0b010368d0e11cc68e8a21f2e6
EV32-1377-10-14-2020_112738.txt	e88cce6a8a27b5bf755765f516710c48
EV32-1377-10-15-2020_121305.txt	2f12b801d981afc0e4e114bdfbf4241c
EV32-1377-10-16-2020_113410.txt	46a251f88fdd1d2e2352ac1dc61fffa9
Maricopa_EV32-1377-10-19-2020_111633-2020-10-20T14 53 30Z.txt	9cd6e80c07e1f33129cf98302930abb6
Maricopa_EV32-1377-10-20-2020_112309-2020-10-21T15 13 12Z.txt	e3cc25b520b5710090f4dfff2d7fce7f
Maricopa_EV32-1377-10-21-2020_111759-2020-10-22T15 08 54Z.txt	e786fec02788d0b7c4392ca5b1cd284e
Maricopa_EV32-1377-10-22-2020_111639-2020-10-23T15 03 40Z.txt	86ea315f6bce7c0c902027b5373f6e2c
Maricopa_EV32-1377-10-23-2020_112532-2020-10-26T15 00 59Z.txt	ca42553da16ea38cf2b72f29b81a990f

#### 5.6.4.3 RECOMMENDATION

It is recommended that the Attorney General inquire of Maricopa County as to the reason for this discrepancy, and if a sufficient explanation is not received an investigation be opened to investigate this further.

**Ballots  
Impacted 393**

#### 5.6.5 VOTERS WITH INCOMPLETE NAMES

A.R.S. 16-152 requires that the form used for the registration of electors shall contain the registrant’s given name, middle name, if any, and surname.

The 11/07/2020 VM34 contains 720 voters with incomplete names. 393 of these voters voted in the 2020 General Election.

Examples of incomplete names include:

- Voters with only a last name
- Voters with only an initial for their last name
- Voters with an initial for their first name and last name
- Voters with no last name
- Voters with only an initial for their first name

NOTE: It is possible to have a legal name that is just an initial, or to not have a surname. However, this is extremely rare, and the list should be reviewed to determine its accuracy.

Description	Number of voters
Last name only	15
Last name is an initial only	9
No last name	45
First name is an initial only	324
<b>Total</b>	<b>393</b>

The 2019 Elections Procedure Manual addresses failure to provide name. “If the State Form, Federal Form, FPCA, or FWAB does not contain the registrant’s name, residence address or location, DOB, or signature (or assisting person’s signature), but the County Recorder has the address, telephone number, or email address to contact the registrant to request the incomplete information, the registrant should be entered into the voter registration database in a “suspense” status until the incomplete information or a new voter registration form is received. A.R.S. § 16-134(B); A.R.S. § 16-121.01(A).” (pgs. 18-19)

If the registrant does not provide the missing, incomplete, or illegible information by 7:00 p.m. on the date of the next regular general election, the registration form is invalid and the registrant’s status may be changed from “suspense” to “not registered,” with the reason code “pending expired” (or functional equivalent). The registrant would need to submit a new voter registration application to be eligible to vote in future elections. (pg. 19)

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Democrat Party	34.35%
Republican Party	32.57%
Prefer Not to Declare	24.43%
Independent	6.87%
Libertarian Party	1.27%
Green Party	.51%

NOTE: Please see Appendixes M1 and M2 for a list of voters with incomplete names who voted, and a list of all incomplete names on the November 7, 2020 voter rolls.

### 5.6.5.1 REFERENCES

- [A.R.S. 16-152 – Registration Form](#)<sup>32</sup>
- [State of Arizona - 2019 Elections Procedure Manual](#)<sup>33</sup>

### 5.6.5.2 DATA FILES UTILIZED

<u>File Name</u>	<u>MD5 Hash</u>
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654

### 5.6.5.3 RECOMMENDATION

Legislation should be considered that requires the voter registration entries be a direct match with any acceptable form of government identification, and always checked against that identification to validate compliance. If existing laws are sufficient that this should be occurring, additional legislation should be considered to increase the likelihood of compliance such as penalties.

### 5.6.6 DECEASED VOTERS

**Ballots  
Impacted** 282

The Final Voted File, or VM55, was cross-checked against a commercially available data source provided by Melissa<sup>34</sup> called Personator, and it was found that 282 individuals who were flagged as deceased prior to October 5, 2020, voted in the election.

Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service's National Change of Address (NCOA) service, and the Social Security Administration's Master Death List.

NOTE: It is recommended that the Attorney General further investigate this finding to confirm the validity of this finding, and if applicable, determine who cast the vote on behalf of the deceased individual.

<sup>32</sup> <https://www.azleg.gov/ars/16/00152.htm>

<sup>33</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>34</sup> <https://www.melissa.com>

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Republican Party	49.65%
Democrat Party	30.14%
Prefer Not to Declare	12.77%
Independent	7.09%
Libertarian Party	0.35%

NOTE: Please see Appendix N1 for a complete list of individuals who show as being dead in Melissa.

#### 5.6.6.1 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654

#### 5.6.6.2 RECOMMENDATION

Legislation should be considered to require the voter rolls to periodically be compared against the Social Security’s Master Death List, or other commercially available tools that gives access to this information. A minimum frequency on to conduct this should specifically be required.

#### 5.6.7 AUDIT UOCAVA COUNT DOES NOT MATCH THE EAC COUNT

**Ballots Impacted** 226

The Uniformed and Overseas Citizens Absentee Voting Act (UOCAVA) requires all counties in the United States to report data related to the ability of civilian, military, and overseas citizens to register to vote and successfully cast a ballot. Analysis of the data submitted by Maricopa to the US Election Commission shows discrepancies in the number of ballots reported by the County to the EAC and the number of ballots observed during the audit. The audit team found 226 more electronically submitted UOCAVA ballots than the County reported to the EAC. Any UOCAVA ballots returned by mail were not identified as UOCAVA. Therefore, the audit team used the County mail numbers reported to the EAC. A Public Records Request for UOCAVA data was submitted to the Arizona Secretary of State but as of this date, no records have been provided in response to that request.

#### Election Administration Voting Survey 2020 vs Audit Counts

UOCAVA Type	EAVS 2020	Audit Count	Discrepancy
Electronically	8,988	9,214	-226
Mail	1,420	Comingled	Unknown
Total	10,408	-	-

While many people believe that UOCAVA is a law that primarily enables active-duty military men and women to vote, it is used more often by non-military voters. See below table of the total number of Civilian vs Military voters who were UOCAVA eligible in Maricopa County based on the November 07, 2020, VM34 Monthly Voter Rolls.

Military Returned Ballots	Military % of UOCAVA	Civilian Ballots Returned	Civilian % of UOCAVA
4,359	35%	7,934	65%

The law allows military voters who are out of their home county to vote electronically. However, non-military voters (civilians) who are not out of the country are not eligible to vote electronically. According to Maricopa County’s UOCAVA Map website, more than 140 civilians – who were not UOCAVA eligible due to being in the United States--were permitted to vote via UOCAVA in the 2020 General Election.

The Uniformed and Overseas Citizens Absentee Voting Act defines eligibility as:

- A member of a uniformed service on active duty who, by reason of such active duty, is absent from the place of residence where the member is otherwise qualified to vote;
- A member of the merchant marines who, by reason of service in the merchant marine, is absent from the place of residence where the member is otherwise qualified to vote; or
- A spouse or dependent of a member referred to above who, by reason of the active duty or service of the member, is absent from the place of residence where the spouse or dependent is otherwise qualified to vote.
- An absent uniformed services voter who, by reason of active duty or service is absent from the United States on the date of the election involved;
- A person who resides outside the United States and is qualified to vote in the last place in which the person was domiciled before leaving the United States; or
- A person who resides outside the United States and (but for such residence) would be qualified to vote in the last place in which the person was domiciled before leaving the United States

Maricopa County shows that there are 12,293 eligible UOCAVA voters based on the November 7, 2020, VM34 Monthly Voter Rolls. Of these UOCAVA ballots transmitted, 85% or 10,408 were reported as returned. Historically, approximately 68% of UOCAVA voters return their ballot.

#### 5.6.7.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>35</sup>
- Maricopa County UOCAVA Map Website<sup>36</sup>
- US Election Commission 2020 Survey Results<sup>37</sup>
- US Election Commission 2016 Survey Results<sup>38</sup>

<sup>35</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>36</sup> <https://recorder.maricopa.gov/uocavamap/>

<sup>37</sup> <https://www.eac.gov/research-and-data/studies-and-reports>

<sup>38</sup> [https://www.eac.gov/sites/default/files/eac\\_assets/1/6/2016\\_EAVS\\_Comprehensive\\_Report.pdf](https://www.eac.gov/sites/default/files/eac_assets/1/6/2016_EAVS_Comprehensive_Report.pdf)

### 5.6.7.2 DATA FILES UTILIZED

<u>File Name</u>	<u>MD5 Hash</u>
11-03-2020-0 Canvass COMPLETE NOV2020	ce62cc061b6bb56b4fd40aa4866adb16
Maricopa County-VM34 Voter Registration Nov 7, 2020	d7bfc018296832836d2bd8de440cba53

### 5.6.7.3 RECOMMENDATION

Legislators should consider auditing the UOCAVA voting system to determine whether any changes are required to ensure the integrity of the vote.

### 5.6.8 LATE REGISTERED VOTERS WITH COUNTED VOTES Ballots Impacted 198

Individuals who registered to vote after the October 15<sup>th</sup> deadline were allowed to cast a vote and these votes were counted. The Final Voted File, or the VM55, is the official record of who cast a vote for a given election. This file does not contain the Date of Registration for individuals who voted in the election, but it does include each person's Voter ID which can be cross referenced against the Full Voter File, or VM34, to get the registration date value.

It would be expected that either the October or the November VM34 file would contain all of the registered voters that voted in on the November 2020 General Election, but this was not the case. It took 12 different VM34 files ranging from April 9, 2017, to December 4<sup>th</sup>, 2020, to find all of the Voter IDs found in the Final Voted VM55 File for the 2020 General Election.

When utilizing multiple Full Voter Files that span multiple years it can get complicated to determine which data for a given Voter ID should be utilized when that Voter ID is found in more than one file. For the purpose of our analysis for this and other findings we assumed that the November 7, 2020, VM34 file would be the most accurate since it was right after the election, and the only VM34 officially provided by Maricopa County as part of a subpoena.

As a result, we loaded the data from VM34 files for every month from January 2017 through December 2020 into a database. First, we loaded the December 4, 2020, VM34 file. We then subsequently loaded the VM34 files from the oldest to the newest, with each subsequent VM34 file replacing the stored data for any Voter ID that had existed in a prior load and finishing with the November 7, 2020, file. This ensured that we always had the most current data for a given Voter ID, and the latest data from the last time a given Voter ID showed up in a VM34 file would always be utilized.

This composite VM34 file was then matched up with the VM55 file to provide additional details for all voters within the Final Voted VM55 file.

In all, it required data from the following VM34 files to match all the data:

<u>VM34 File Date</u>	<u># Of Matched Voters</u>
12/4/2020	605
11/7/2020	2,089,465
9/5/2020	1
8/8/2020	1
7/3/2020	1
6/6/2020	1
12/6/2019	2
10/5/2019	3
4/5/2019	1
2/2/2019	1
5/6/2017	1
4/9/2017	1

When building this file in this manner there were 198 voters registered after October 15<sup>th</sup> who voted in the election and had their vote counted, according to the Final Voted File.

NOTE: Individuals who register according to the Uniformed and Overseas Citizens Absentee Voting Act (UOCAVA) were not included in this list as the rules for UOCAVA allow registration up to 7:00pm on election day.

NOTE: Publicly, we had stated that there were 3,981 individuals who had registered after October 15<sup>th</sup> and voted. This was based on a wrong assumption by one of our data analysts who concluded that the only way the Official Canvass could match the Final Voted VM55 file was if those voters flagged as "Q," or uncounted provisional ballots, were in fact counted in the Official Canvass. While the discrepancy between the Official Canvass and the VM55 numbers are very similar to that number, assumptions should not have been made as to the reasoning for that.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

<b>Party</b>	<b>%</b>
Republican Party	33.84%
Democrat Party	31.82%
Prefer Not to Declare	33.33%
Independent	0.51%
Libertarian Party	0.51%

NOTE: Please see Appendix A for the complete VM55 Final Voted File with all of the various VM34 files.

NOTE: Please see Appendix O1 for a list of the late registered voters who voted.

### 5.6.8.1 REFERENCES

- [A.R.S. § 16-152 – Registration Form](#)<sup>39</sup>
- [A.R.S. § 16-120 – Eligibility to vote](#)<sup>40</sup>
- [A.R.S. § 16-101 – Qualifications of registrant](#)<sup>41</sup>

### 5.6.8.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654
Maricopa County-VM34 Voter Registration Oct 2, 2020	99a4440ae9bab7f0de96d7656b4e739d
Maricopa County-VM34 Voter Registration Nov 7, 2020	d7bfc018296832836d2bd8de440cba53
Maricopa County-VM34 Voter Registration Dec 4, 2020	255f69007b253c7f2737b050c439f269

### 5.6.8.3 RECOMMENDATION

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. This would prevent the entry of invalid data. Specifically, its recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years.

### 5.6.9 DATE OF REGISTRATION CHANGES TO EARLIER DATE

**Ballots Impacted** 193

Dates of Registration in the Full Voter File, also known as a VM34, are periodically changing, including changing to earlier dates. Dates of Registration are significant because they can determine if someone is eligible to vote in an election, or if they're not eligible. Based on communications with the Maricopa County Recorder's Office, Dates of Registration should never change except for fixing the occasional mistake.

A review of the November 7, 2020, VM34 file and subsequent VM34 files for the remainder of 2020 and into 2021 show 891 dates of registration changes that would have made someone eligible to vote in the November 2020 General Election when their date of registration shown on the November 7<sup>th</sup> file would have prohibited it. Out of these 890 dates of registration, 193 had their votes counted in the 2020 General Election despite still having an ineligible date of registration on the November 7<sup>th</sup> VM34.

<sup>39</sup> <https://www.azleg.gov/ars/16/00152.htm>

<sup>40</sup> <https://www.azleg.gov/ars/16/00120.htm>

<sup>41</sup> <https://www.azleg.gov/ars/16/00101.htm>

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Prefer Not to Declare	34.20%
Republican Party	33.16%
Democrat Party	31.61%
Independent	0.52%
Libertarian Party	0.52%

NOTE: Please see Appendix P1 for more details on the voters whose registration dates were changed to an earlier date.

----- Forwarded Message -----  
From: voterinfo - RISCX <voterinfo@risc.maricopa.gov>  
To: [REDACTED]  
Sent: Friday, September 3, 2021, 04:51:57 PM MST  
Subject: RE: Customer Website Comments - Voter Information

Hello [REDACTED]

Thank you for your questions.

**Are there any circumstances in which someone's registration date can change?**

Generally, a voter's date of registration does not change outside of correcting a mistake. The date of registration is the date where the voter first registered to vote in in the county, while any updates to a voter's registration is tracked separately.

The only time a voter may have two dates of registration is if their registration has previously been cancelled and the voter registers again. The original record could be cancelled for a variety of reasons, including death of the voter, voter request, or the voter has moved outside Maricopa County. Only the latest voter registration record is considered valid and a voter cannot use their cancelled record.

**Does it always reflect the original registration in Maricopa County or can someone transfer a registration from another county?**

The date of registration will always reflect the original date of registration in the county where the voter lives. Voter rolls are maintained at the county level, so counties only keep records of the voters in their jurisdiction. For example, Maricopa County can process and access records for our 2.6 million voters, but we do not keep records of Pima County voters.

If a voter moves to another county or state, that voter will have to reregister in their new location. We cannot transfer a voter registration between counties or states.

### 5.6.9.1 REFERENCES

- [A.R.S. § 16-152 – Registration Form](#)<sup>42</sup>
- [A.R.S. § 16-120 – Eligibility to vote](#)<sup>43</sup>
- [A.R.S. § 16-101 – Qualifications of registrant](#)<sup>44</sup>

### 5.6.9.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654
Maricopa County-VM34 Voter Registration Oct 2, 2020	99a4440ae9bab7f0de96d7656b4e739d
Maricopa County-VM34 Voter Registration Nov 7, 2020	d7bfc018296832836d2bd8de440cba53
Maricopa County-VM34 Voter Registration Dec 4, 2020	255f69007b253c7f2737b050c439f269

### 5.6.9.3 RECOMMENDATION

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. Specifically, its recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years.

<sup>42</sup> <https://www.azleg.gov/ars/16/00152.htm>

<sup>43</sup> <https://www.azleg.gov/ars/16/00120.htm>

<sup>44</sup> <https://www.azleg.gov/ars/16/00101.htm>

5.6.10 DUPLICATE VOTER IDS

Individuals were found within the voter rolls that had the same first name, last name, shared an address at one point in the past, and their birth years were within 10 years; suggesting they're the same person, but multiple Voter IDs. In all 186 cases both VoterIDs voted in the 2020 General Election.

NOTE: All Voter ID's associated with this finding can be found in Appendix Q1. This finding is not any clear indication of wrongdoing, and if wrongdoing occurred it may or may not have been the result of the individual whose Voter ID is listed in this report. It is recommended that the Attorney General follow-up further and determine if any additional action is needed.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Democrat Party	46.15%
Republican Party	30.77%
Prefer Not to Declare	15.93%
Independent	5.49%
Libertarian Party	1.65%

5.6.10.1 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654
Maricopa County-VM34 Voter Registration Nov 7, 2020	d7bfc018296832836d2bd8de440cba53

5.6.10.2 RECOMMENDATION

Legislation should be considered that requires the periodic review of the voter rolls for duplicate entries by the same name and year of birth. Legislation should also be considered that would require voter registration to validate that no other registered voter on the rolls registered with the same valid identification. This would prevent both accidental and purposeful multiple registrations.

### 5.6.11 MULTIPLE VOTERS VINKED BY AFFSEQ

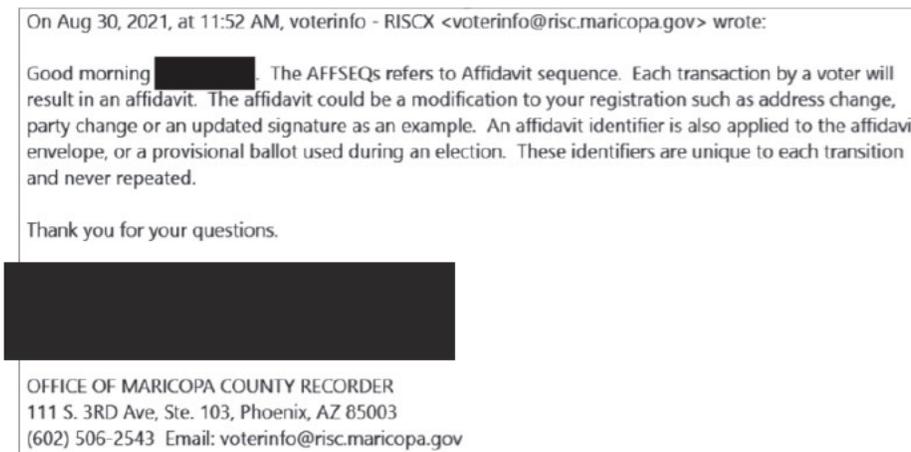
Each voter registration form has a unique, preprinted number on it much like a serial number on paper currency. This number is called an affidavit sequence number or AFFSEQ. It is preprinted, usually in the upper right-hand corner of every registration document. Each unique AFFSEQ number represents the specific registration document it is preprinted on.

Below is an example of an actual AFFSEQ number preprinted on a voter registration document. This specific AFFSEQ number [REDACTED] should only ever be associated with the voter and voter ID that filled out and signed this registration form this number was printed on.



The County uses AFFSEQ numbers and their corresponding registration documents to record any changes or updates to an individual voter's registration record. Every time a voter fills out a registration document, whether it be to register for the first time or to update their registration information with an address change, party change or signature update, the AFFSEQ number preprinted on their form is recorded in their voter record along with the date the form was signed by the registrant. A digital image of each registration document is created. The image is titled with the AFFSEQ number of the document it represents. The AFFSEQ identifier number is unique to each transaction, unique to the voter, and should never be repeated. As with paper currency, if more than one bill is found with the same serial number, then the bills are examined to determine which bill is the original and which is the duplicate.

Comparing the VM55 Final Voted file to the Maricopa County monthly VM34 files across time, between January 6, 2018-June 6, 2021, resulted in 5,711 instances where an affidavit sequence number was shared by multiple voters. It was confirmed with the County that AFFSEQ numbers are unique to the voter and should never be repeated.



Of the 5,711 instances of AFFSEQ numbers shared by multiple 2020 General Election voters, at least one vote was cast.

- In 101 of these instances, BOTH voter IDs linked by AFFSEQ voted in 2020 General Election.

160,223 AFFSEQ images were provided which is an extremely small percentage of the total AFFSEQ images that are recorded over time.

Upon examining hundreds of these AFFSEQ registration document images of voters sharing the same AFFSEQ number, it was found that:

- The same person is being assigned more than one voter ID number.
- Voter identities and their voter ID are being associated with other individuals with different names, addresses, identifying information and even of the opposite gender

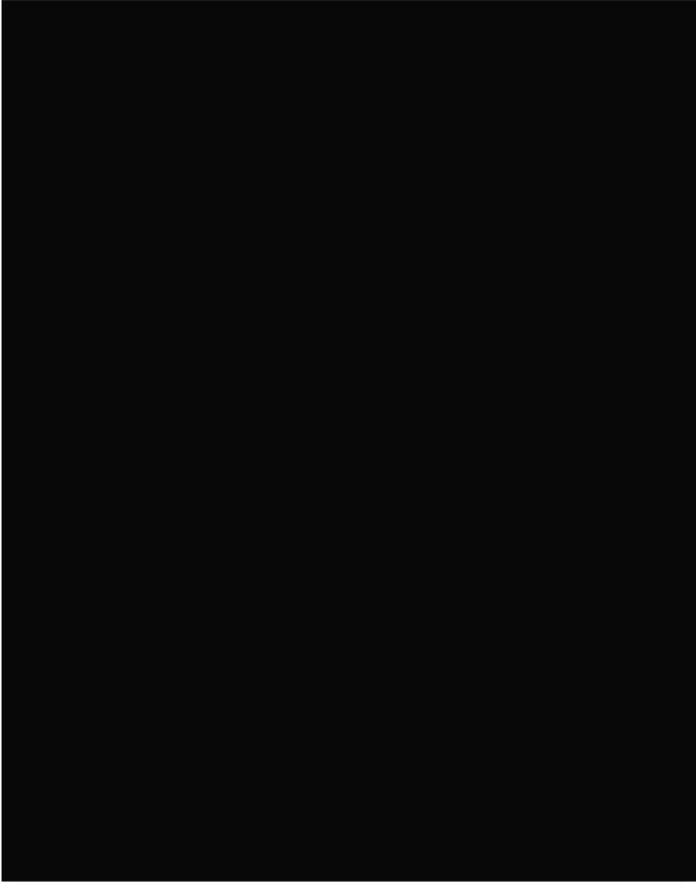
The registration document images of all shared AFFSEQ numbers need to be examined to determine which associated voter is correctly associated with the document.

Three samples of the types of issues we found in the 5,711 instances are documented below.

**Same Person with Two Different Voter ID's Linked by AFFSEQ-Both Voter IDs Voted in GE2020:**

In this sample instance, the same person, with her name misspelled in the voter registration database, shares an AFFSEQ with herself and also has two voter IDs. In the images below you can that the same person filled out two registration forms 10 days apart, she was given a unique voter ID in each instance even though both forms were filled out with the same name, address, birth date and phone number. A vote was cast by mail-in ballot for both voter IDs.

VOTER ID	Name	Address	DOB Year	Date of Registration	VM 34 File Name	Initial AFFSEQ	Initial Change Effective Date	Linked AFFSEQ	VM55 BALTYPE
[REDACTED]									



**Same Person with the Secondary Voter ID Given a Different Name and Address-Both Voter IDs Voted GE2020:**

The first image below shows the voter information for two voters that share the same AFFSEQ number, [REDACTED]. County records show that in the 1/6/2018 VM34 file that [REDACTED] shared the same AFFSEQ number with [REDACTED]. These two voters have different names, addresses, and birth years.

In the registration image below, you can see that J Lancaster filled out a registration form on 4/10/2018. The preprinted AFFSEQ number on the form was [REDACTED]. [REDACTED] lists his birthyear as 1978 on this form. It is listed as 1975 in his voter record. He included his driver's license number as identifying information. On this form in the lower right-hand corner, a county employee wrote the voter ID number [REDACTED], identifying the connection with that voter ID. In row 1 of the voter record below, you see that voter ID number [REDACTED] belongs to [REDACTED], not [REDACTED]. The County employee identified that J Lancaster was connected with [REDACTED] in some way. The date the County employee stamped this form is April 23, 2018. Both voter IDs were used to vote in the 2020 General Election.

In row 2 you can see that J Lancaster has a voter ID number of [REDACTED]. [REDACTED] address in the VM34 record is in Phoenix. This corresponds with his voter registration form below.

VOTER ID	Name	Address	Birth Year	Date of Registration	VM34 File Date	Initial AFFSEQ	Initial Change Effective Date	Linked AFFSEQ	VM55 BALTYPE
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]



**Male Voter Filled Out Registration Form but a Female is Recorded as Associated with His Registration Form, Both Are Linked by AFFSEQ-Both Voter IDs Voted GE2020:**

Just as no two voters should share an AFFSEQ number, no two voters should share a voter ID number. The County confirmed that voter IDs are generated automatically and that they are never reused. It was found that not only are two voters sharing an AFFSEQ number, but they are also sharing a voter ID number.

██████████ registered to vote on 9/25/2018. The AFFSEQ on his registration form is ██████████. He was given voter ID number of ██████████. In row 1 below you can see that his voter ID number is now associated with ██████████, a female, at a different address in Phoenix. This unknown person who is using ██████████ original voter ID voted in the 2020 General Election using a mail in ballot. ██████████ voted in person on election day.

██████████ filled out a registration form again on ██████████. He was given voter ID number ██████████. ██████████ voted in 2020 General Election in person at the polls. We do not have an image of this voter registration as it was not in the limited AFFSEQ images supplied to us by the County.

VOTER ID	Name	Address	Birth Year	Date of Registration	VM34 File Date	Initial AFFSEQ	Initial Change Effective Date	Linked AFFSEQ	VM55 BALTYPE
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NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Democrat Party	42%
Republican Party	33%
Prefer Not to Declare	22%
Independent	2%
Libertarian Party	1%

NOTE: Please see Appendix R1 for a complete list of users who have shared an AFFSEQ.

### 5.6.11.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>45</sup>

### 5.6.11.2 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654
VM34_20170107_113131.txt	fb675c6b6ad9757759a1e686ce87a17f
VM34_20170204_104417.txt	02a1003bf8ddc1a0cc547032c73505db
VM34_20170305_102136.txt	708ea30d01595f1552892a13e1c11eeb
VM34_20170409_044850.txt	9b25f73a824589bd70e20fe02cb1f703
VM34_20170506_094005.txt	d8bbaacbaaffba5321ac4b22d7aaebf5e
VM34_20170604_014543.txt	ecb6f6760b313b135c6a9ba7e4d6369a
VM34_20170708_091800.txt	76c897e712aba76072dff3fb68e8d29c
VM34_20170805_111659.txt	ad9f1e228123d67c9774d5c4de3a4442
VM34_20170903_031323.txt	05cfd1aa1f82392f99c65e394d526470
VM34_20171008_021223.txt	6e199b2b3fc9a98c78d4c3ee76727720
VM34_20171103_103144.txt	c7890363fbaf1de622af2f589d0a48d4
VM34_20171203_070930.txt	b796c93976f7d89cd53d09a26406fcf
VM34_20180106_024335.txt	74823063c6c04beb0ae2ba94789992b8
VM34_20180203_063848.txt	6b55c00202aa4edb39bb47bac27e7545
VM34_20180302_095453.txt	8c6e9e7edaaff58b2b4635c3ad56369c
VM34_20180406_081509.txt	fc3f8d71d9cdfebc10aeaf7fb5c4290b
VM34_20180504_093125.txt	fa683fa02fd0d9bfc52a106af6873e
VM34_20180602_102915.txt	c99fd11d76648af61948842161d1d197
VM34_20180707_024237.txt	b6141774c149ea2f7695e230d5f78eb9
VM34_20180803_115351.txt	351a3107ef1a7e5a907c1137393216ee
VM34_20180907_091404.txt	62e7d11db59dbb5be078b7a3374125be
VM34_20181005_112120.txt	1b07988566c762821d625a0477269d3c
VM34_20181102_105026.txt	cb73855d70509a13a52beedde18666a3
VM34_20181209_032523.txt	9838a26c37f016d0e87adb43a9501707
VM34_20190106_084008.txt	6f4be0c41404d12bb0f6ff69d8f27a28
VM34_20190202_063949.txt	cc8a7b9b1cf66a9b8fce0905df71af74
VM34_20190302_090830.txt	15ec5c127b37ec91c1c14708e7a9421d
VM34_20190405_074946.txt	fb6ecbf069154cbb8149d4af8348c6c4
VM34_20190503_080954.txt	b130edae7a4ae04afcf8e459c085fc2d
VM34_20190608_035533.txt	301287923fc8327b259c286712f0b38c
VM34_20190705_102047.txt	b89551ec6616a148a0a6eb0d9a9eb9a4
VM34_20190802_093213.txt	b2517193b03f9820c3588789890cd505
VM34_20190906_115511.txt	7fe4f70c92e995a87cd67c69feac348a
VM34_20191005_075436.txt	30cd819a5b53759ebd9b35fcf4f2f515

<sup>45</sup> [https://azsos.gov/sites/default/files/2019 ELECTIONS PROCEDURES MANUAL APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

File Name	MD5 Hash
VM34_20191206_062132.txt	4d7d56540c50bcb9efd53882f65dafa9
VM34ALL_20201107_003451.txt	d7bfc018296832836d2bd8de440cba53
VM34_20200103_062658.txt	ea5eb36acb1f3a20204fc860578755bc
VM34_20200208_124009.txt	cb840187d01b8d26f4a192a29de0729a
VM34_20200306_114048.txt	92b41e30958182e994ff86b5600c9002
VM34_20200403_113114.txt	5460b45b91f6709ee118e2385020b102
VM34_20200502_014453.txt	c44bf7968e9bf4fde446f5c43da584ef
VM34_20200606_001100.txt	1d8b12eea610b5b55f07d9fad1d8af80
VM34_20200703_213734.txt	47afb6e874c859a08c4105f912981330
VM34_20200808_004341.txt	8cb279714659f945f154129ea757f677
VM34_20200905_001156.txt	11ec4b2896389484429edbabb5a717bd
VM34_20201002_235246.txt	99a4440ae9bab7f0de96d7656b4e739d
VM34_20201204_214820.txt	255f69007b253c7f2737b050c439f269
VM34_20210101_194641.txt	55e2e5308c1c818ab64e58b2952d63cc
VM34_20210205_184914.txt	3c1a1c1a8400464de6a4730d4e50f6c3
VM34_20210305_191848.txt	af6f78181173c9e7cad7e5f17029dd20
VM34_20210402_214448.txt	2fa8f197af888c6e0604ac9ca849aa1b
VM34_20210507_194658.txt	3a7e950b1d9e0d657a4a45e0b22506a5
VM34_20210604_190336.txt	30f1fe36c5ad4eac2a7ca5508663b9bf

### 5.6.11.3 RECOMMENDATION

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. Specifically, it is recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years.

5.6.12 DOUBLE SCANNED & COUNTED BALLOTS

While examining batch discrepancies between the hand count and the Maricopa County Cast Vote Record (CVR) totals, we discovered that the county double counted ballots. We continue to review the Dominion images to identify the total number of double counted ballots. EVC4/10-26 thru 10-28/3385 which has a 50-ballot discrepancy is presented as an example below. The image shows one of 50 ballots that were tabulated twice giving each associated voter – two votes.



tabulator 6004, BIC 288, image 0154 [EV Batch 13/7]

5.6.12.1 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County Transfer Manifests	N/A
Maricopa County Daily Ballot Summary	N/A
Maricopa County 2020 General Election Cast Vote Record	c31a2f34714b7582cb17e907be3152e0

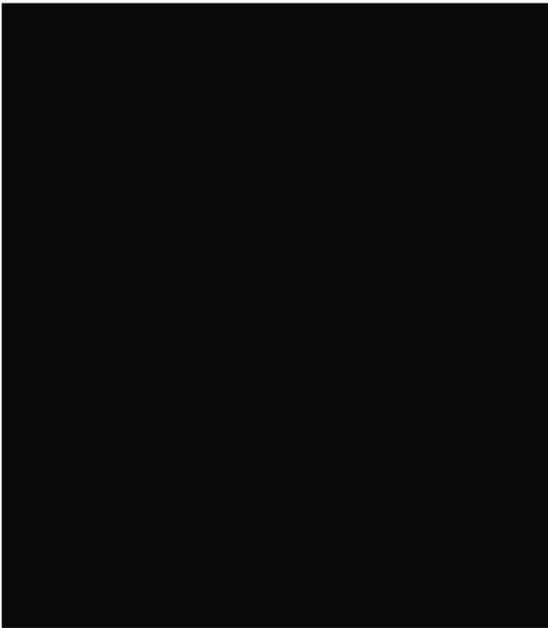
### 5.6.12.2 RECOMMENDATION

Maricopa County officials should audit the tabulation process daily to ensure no batches are scanned and tabulated multiple times.

**Ballots  
Impacted** 6

### 5.6.13 UOCAVA ELECTRONIC BALLOTS DOUBLE COUNTED

During our hand count, we identified multiple UOCAVA ballots that had been printed and duplicated more than once (e.g., Double Votes). Below is one example of one double printed UOCAVA ballot that was assigned two different serial numbers and submitted for duplication. This would result in two votes being counted for this one voter.



### 5.6.13.1 REFERENCES

- EAC - 2018 UOCAVA Data Set<sup>46</sup>

### 5.6.13.2 RECOMMENDATION

Legislation should be considered which would require that systems utilized for UOCAVA would keep track of and help prevent the double-printing of ballots.

<sup>46</sup> <https://www.eac.gov/research-and-data/datasets-codebooks-and-surveys>

5.6.14 DUPLICATE BALLOTS REUSE SERIAL NUMBERS

Duplicate Ballots were found reusing serial numbers. Without unique serial numbers its near impossible to match an original ballot (DSD) with its duplicated ballot (DUP).

Below is an example of a serial number used multiple times:

BOX ID	TYPE	SERIAL NO.
EVH1/11-11/DUP 175044	DUP	DUP294104
Original Damaged Ballots SD 8	DSD	DUP294104
Original Large Print Sent to Duplication 2	DSD	DUP294104
DSD RANDOM SAMPLE REVIEW 2	DSD	DUP171329
EVH1/11-07/DUP9582	DUP	DUP171329
Original Damaged Ballots SD 8	DSD	DUP171329

5.6.14.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>47</sup>
- A.R.S. § 16-621 – Proceedings at the counting center<sup>48</sup>

5.6.14.2 RECOMMENDATION

Legislation should be considered that would explicitly require each damaged ballot to have a unique serial number in order to match it up with its original.

<sup>47</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>48</sup> <https://www.azleg.gov/ars/16/00621.htm>

## 5.7 Informational Findings

### 5.7.1 AUDIT INTERFERENCE

Ballots Impacted N/A

Runbeck Election Services is a privately owned company that provided election services including the printing of all mail ballots for Maricopa County in the 2020 General Election. Prior to the start of the audit, members of the audit team conducted research into the paper, ink, toner and format of the official ballots. As part of that research, the audit team contacted Runbeck CEO, to ask several general questions about the ballots used in the 2020 General Election. Initially, the CEO agreed to a call but then asked for the questions in writing. As requested, the audit team sent Mr. Ellington 5 general questions via email. Mr. Ellington responded to that email and said that Maricopa County instructed him that vendors, even private companies, should not speak with auditors. Maricopa County refused to provide the information about the ballot paper and ballot printing and then interfered with the auditor's communication with Runbeck, a private company that does business with hundreds of other jurisdictions and entities.

#### 5.7.1.1 RECOMMENDATION

Legislators should consider legislation that would prohibit interference with legislative investigations under a criminal penalty.

### 5.7.2 BATCH DISCREPANCIES

Ballots Impacted N/A

A comparison of our hand count totals to the CVR totals has revealed numerous discrepancies. We are in the process of comparing the Dominion images of ballots to determine the cause of the discrepancy. Below are two examples of discrepancies.

7	EVC1/10-31/6841 ✓	6841, 6835, 6553, 6875, 6966, 6717, 6807
---	-------------------	--

Above: Maricopa County Ballot Transfer Manifest showing EV batches in the box.

Operator: <i>FORNARA</i> MARICOPA COUNTY ELECTIONS DEPARTMENT <i>10/31</i>					
Starting #: <i>6375</i>			Page <i>1</i> of <i>1</i>		
GENERAL ELECTION NOVEMBER 3, 2020	EV BATCH #	EV COUNT	BTC BATCH #	TOTAL BALLOTS	TO DUPE
<i>1371 Hand Count</i>	<i>6207</i>	<i>199</i>	<i>33</i>	<i>199</i>	
<i>Count</i>	<i>6891</i>	<i>198</i>	<i>34</i>	<i>198</i>	
	<i>6835</i>	<i>199</i>	<i>35</i>	<i>199</i>	
	<i>6841</i>	<i>200</i>	<i>26</i>	<i>200</i>	
	<i>6553</i>	<i>199</i>	<i>37</i>	<i>199</i>	
	<i>6875</i>	<i>200</i>	<i>38</i>	<i>200</i>	
	<i>6966</i>	<i>200</i>	<i>39</i>	<i>199</i>	
<i>Accidentally split batch</i>	<i>6717</i>	<i>199</i>	<i>40</i>	<i>95</i>	<i>1</i>
	<i>6717</i>	<i>199</i>	<i>41</i>	<i>104</i>	
	<i>6807</i>	<i>200</i>	<i>42</i>	<i>200</i>	
	<i>6811</i>	<i>198</i>	<i>43</i>	<i>198</i>	
	<i>6998</i>	<i>200</i>	<i>44</i>	<i>200</i>	
	<i>6791</i>	<i>199</i>	<i>45</i>	<i>199</i>	

Above: Maricopa County Daily Ballot Summary for 10-31-2020 Tabulator C1. Note that BTC Batch 40 has 95 ballots and BTC Batch 41 has 104 ballots which combine to make up EV Batch 6717 which should have 199 total ballots.

tabulatorbatch d	tabulator d	batch d	f e	ba ots
06001_00033	06001	00033	566	199
06001_00034	06001	00034	577	199
06001_00035	06001	00035	595	198
06001_00036	06001	00036	608	200
06001_00037	06001	00037	789	200
06001_00038	06001	00038	791	191
06001_00039	06001	00039	795	200
06001_00040	06001	00040	801	200
06001_00041	06001	00041	782	199
06001_00042	06001	00042	786	199
06001_00043	06001	00043	792	199
06001_00044	06001	00044	796	199

The CVR summary, pictured above, shows that BTC Batch 40 had 200 ballots tabulated and BTC Batch 41 had 199 ballots tabulated. These numbers do not match the Blue Sheet totals. Pallet 7 Box EVC1/10-31/6841 has only 1396 ballots but the CVR shows 1500 ballots. This results in a discrepancy of -104 ballots.

#### 5.7.2.1 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County Transfer Manifests	N/A
Maricopa County Daily Ballot Summary	N/A
Maricopa County 2020 General Election Cast Vote Record	c31a2f34714b7582cb17e907be3152e0

#### 5.7.2.2 RECOMMENDATION

Maricopa County officials conduct daily audits and quality control measure to reduce errors.

### 5.7.3 COMMINGLED DAMAGED AND ORIGINAL BALLOTS

The 2019 Election Procedure Manual requires that all original damaged ballots sent to duplication be placed in an envelope or container labeled “Ballots that have been duplicated.” The County delivered boxes of ballots that were commingled and incorrectly identified. Batches identified on the manifest as original ballots were, in fact, machine duplicated ballots. The auditors could not rely on the County’s description of ballot boxes or batches identified on the manifest. Hours of careful examination were required to unravel the inaccurate documents provided to ensure that votes were not counted twice.

As an example, in Box EVH1/11-07/MC17349, the manifest shows that there are 14 batches of original ballots. When the auditors opened the boxes to count the ballots, they observed 7 batches of original ballots, 8 batches of duplicate ballots and one batch missing from the manifest. Batches of duplicate ballots in boxes of original undamaged ballots is a difficult issue to unravel. During the hand count, we also identified several instances of damaged ballots in boxes with original ballots. We are unable to determine if the damaged ballots had been duplicated and tabulated as duplicates. The Election Procedures Manual makes it clear that damaged ballots sent to duplication must be separated and the County did not consistently adhere to this rule.

The Arizona Secretary of State claims that duplicate ballots and the original damaged ballots sent to duplication are to be segregated. In case No. CV2020-015285, Roopali Desai represented Arizona Secretary of State Katie Hobbs and said:

*THE COURT: And those are segregated? I'm -- those-- they don't get put in the pile where we're not going to be able to find them anymore, right? We know where those are?*

*MS. DESAI: Duplicated ballots are -- those are --the original as well as the duplicated ballots are, by statute, segregated and preserved.*

#### 5.7.3.1 REFERENCES

- [Arizona Supreme Court Case – CV2020-015285](#)<sup>49</sup>
- [State of Arizona – 2019 Elections Procedures Manual](#)<sup>50</sup>

#### 5.7.3.2 RECOMMENDATION

All duplicated ballots should be separated and properly identified as duplicates. All original damaged ballots sent to duplication should be separated and properly identified in compliance with the EPM.

<sup>49</sup> [https://www.supremecourt.gov/DocketPDF/20/20-809/163521/20201211121632424\\_12-11-20%20Appendix%20Ward%20v%20Jackson.pdf](https://www.supremecourt.gov/DocketPDF/20/20-809/163521/20201211121632424_12-11-20%20Appendix%20Ward%20v%20Jackson.pdf)

<sup>50</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

## 5.7.4 EARLY VOTES NOT ACCOUNTED FOR IN EV33

Ballots Impacted N/A

The EV33 Early Voting Return Files do not contain entries for 255,326 Early Voters which are recorded in the VM55 Final Voted File. Individuals that vote as part of Early Voting, either by mail or in person, should have an EV33 entry related to their casting of a vote containing details as to when and how that vote was cast. Without an EV33 these details are unavailable, and it could make some types of audits impossible.

Ballot Type	Number of Voters
B – Early Vote - In-Person	38,817
R – Early Vote - Mail-In	187,823

NOTE: Please see Appendix S1 for a complete list of the entries from the VM55 file without EV33s.

### 5.7.4.1 REFERENCES

- [A.R.S. § 16-558.01 – Mailing of Ballots](#)<sup>51</sup>
- [A.R.S. § 16-246 – Early Balloting](#)<sup>52</sup>
- [A.R.S. § 16-542 – Request for ballot](#)<sup>53</sup>

### 5.7.4.2 DATA FILES UTILIZED

File Name	MD5 Hash
EV33-1377-10-09-2020_101111.txt	f1daa7089f7300237f6b4ff779661cf9
EV33-1377-10-12-2020_113210.txt	72e4e6c102e3539b4dd15b4454357b69
EV33-1377-10-13-2020_111553.txt	9b14841281c031533322b50aabb86a24
EV33-1377-10-14-2020_112757.txt	1b7537d7d9b927dbf4e462ed5ee8f97c
EV33-1377-10-15-2020_121331.txt	dec7d08dde4970c26e32b8c844f4a9ab
EV33-1377-10-16-2020_113522.txt	f0a632c3fd9b5f177d48504dc119be31
EV33-1377-10-19-2020_111708.txt	db80b692a9188add0844a8974e227287
EV33-1377-10-20-2020_112351.txt	57d1795db8be71d516e29350e347fb3a
EV33-1377-10-21-2020_111843.txt	56c3b5a11651c68735164c578eade4e1
EV33-1377-10-22-2020_111714.txt	03551f170bf758efc90c013d0fe2e467
EV33-1377-10-23-2020_112614.txt	dbfdd369ac148723540c83f614cca454
EV33-1377-10-26-2020_111318.txt	0b68adff779f59c70a530000bf989aca
EV33-1377-10-27-2020_111413.txt	a6fc7377bf6c6fe6653f539c5970a6f7
EV33-1377-10-28-2020_111331.txt	43758b9290f90d0305d5ed84aa10becb
EV33-1377-10-29-2020_111300.txt	410b30b06f2ca73022f27173fe114038
EV33-1377-10-30-2020_111804.txt	5cb44e5ea214f40227e04345d4355ff7
EV33-1377-11-02-2020_111214.txt	5d15bb8686a022f53400550cfe010a07

<sup>51</sup> <https://www.azleg.gov/ars/16/00558-01.htm>

<sup>52</sup> <https://www.azleg.gov/ars/16/00246.htm>

<sup>53</sup> <https://www.azleg.gov/ars/16/00542.htm>

### 5.7.4.3 RECOMMENDATION

Legislation should be considered that requires that the various election related systems to properly integrate to give accurate and consistent counts between the mail-in ballots cast, mail-in ballots received, mail-in ballots accepted, mail-in ballots rejected, and be able to reconcile these details with who voted in the final voted file.

5.7.5 HIGH BLEED-THROUGH RATES ON BALLOTS **Ballots Impacted** N/A

A large number of the ballots from in-person voting, primarily on Election Day (ED), experienced bleed-through where the marks from one-side of the ballot were clearly visible on the other side of the ballot. This does not happen when the manufacturer recommended paper is utilized under normal circumstances.

The biggest concern with bleed through is if it occurs in a place that might somehow impact the reading of the ballot on the other side of the paper. Ballots are generally designed to minimize this potential by offsetting the races on each side of the paper so that if bleed-through does happen it is a safe distance away from the ballot ovals on the other side of the paper. Maricopa County Ballots were designed in this manner.

The effect of this offsetting can be hampered, however, if the ballot printer is not in calibration (Please see Section 5.7.10, "Out of Calibration Ballot Printers"). When this occurs the miscalibration causes the front of the ballot to not align where it was intended to on the back of the ballot. If this miscalibration is off enough it could allow the bleed-through to fill out a ballot oval on the other side of the paper and cast a vote, cause an overvote, or simply confuse the tabulator enough to send the ballot to adjudication. Out of the several thousand ballot images that were manually reviewed we could not find any images where bleed-through was close enough to a ballot oval to cause mistabulation, nor did we see any immediate correlation with adjudication. The Dominion tabulators appeared to focus on the actual oval and no bleed-through example was found where a ballot printer was so miscalibrated it actually filled a portion of the oval.

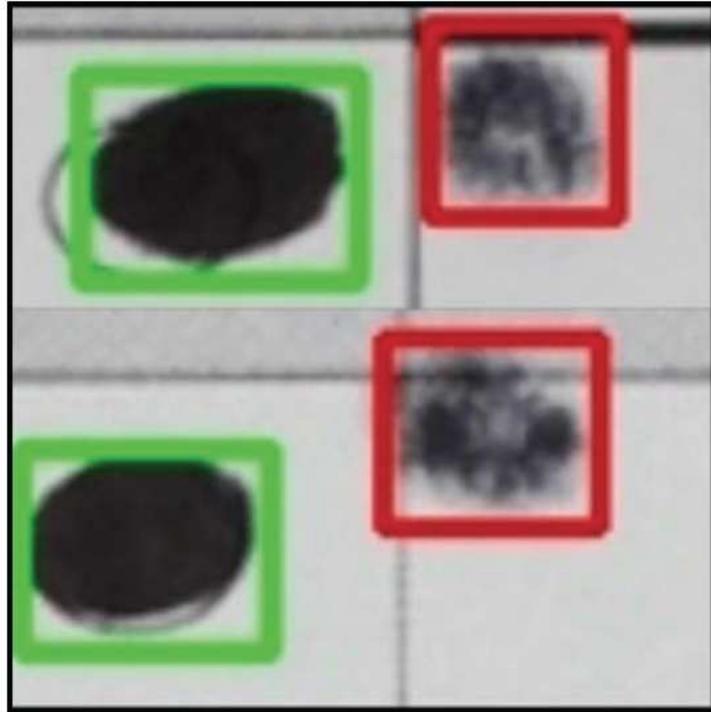


Figure 1 - Green is around the actual vote. The red boxes show the bleed through from the other side.

#### 5.7.5.1 REFERENCES

- Dominion Printing & Finishing Specifications<sup>54</sup>

#### 5.7.5.2 RECOMMENDATION

Legislation should be considered that would require that the election equipment be properly maintained, including, but not limited to ensuring that ballot printers are in the proper calibration.

#### 6.7.5.3 INSTANCES

Kinematic Artifact processing is currently evaluating the ballot images to do a full analysis of bleed-through. A full report documenting all of the bleed-through is expected in the coming weeks. At this time, this particular issue appears to be systemic to any non-Runbeck printed ballots.

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<sup>54</sup> <https://www.sos.state.co.us/pubs/elections/VotingSystems/DVS-DemocracySuite511/documentation/SD-IC-PrintingSpecification-5-11-CO.pdf>

### 5.7.6 IMPROPER PAPER UTILIZED

A large number of the ballots from in-person voting, utilized paper that is not recommended by the manufacturer of the tabulators for use in the systems. This can result in higher jam rates, more bleed through, and could theoretically impact the readability of the ballots by the scanners, but this last case is extremely unlikely. At this time 10 different papers have been found. Several of these paper stocks include paper with the weight from 20lb to 30lbs; when the generally accepted best practice for voting is to utilize ballot stock of 80lbs or higher. Since this type of paper is generally not tested within the equipment, nor part of the Logic and Accuracy testing, the effects of utilizing it is unclear.

The large number of papers utilized during this election and the lack of official reporting about what paper stocks were utilized made it difficult to identify any potential counterfeit ballots. Standardization on these details would more greatly facilitate future audits.

#### 5.7.6.1 REFERENCES

- Dominion Printing & Finishing Specifications<sup>55</sup>

#### 5.7.6.2 RECOMMENDATION

Legislation should be considered that would require that paper stocks utilized on election day should conform to manufacturer recommendations to ensure that the paper that has been tested in the device is what is actually utilized to cast votes. Legislation should also be considered that mandates the standardization of paper utilized for the election including requiring that the ballot stock amounts utilized be fully accounted for and tracked.

#### 5.7.6.3 INSTANCES

Kinematic Artifact processing is currently evaluating the ballot images to do a full analysis of types of paper utilized. A full report documenting all of the papers utilized is expected in the coming weeks.

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<sup>55</sup> <https://www.sos.state.co.us/pubs/elections/VotingSystems/DVS-DemocracySuite511/documentation/SD-IC-PrintingSpecification-5-11-CO.pdf>

5.7.7 INACCURATE IDENTIFICATION OF UOCAVA BALLOTS

Maricopa County identified only one box on the manifest as having UOCAVA Original Ballots sent to duplication. The audit team examined all other boxes of ballots and identified 6 other boxes that were inaccurately labeled. All UOCAVA ballots identified by the County were 8 1/2" X 11" copies of electronically submitted voted ballots. UOCAVA ballots were found in boxed labeled Braille Ballots and boxes labeled the generic Original Ballots/Damaged/Sent to Duplication. This inaccurate labeling of UOCAVA boxes gave the impression that there were far fewer UOCAVA ballots than were actually counted.

**Ballot Custody Transfer Manifest**  
 Arizona Senate Fifty-Fifth Arizona Legislature / First Regular Session Subpoena Duces Tecum  
 Karen Fann, President of the Arizona Senate / Warren Petersen, Chairman of Senate Judiciary Committee

Transfer Date: 3/3/2021  
 Total Boxes: [REDACTED]  
 Observed by: [REDACTED]

Pallet #	Box # (Ballot Type, Machine, Date, First Batch)	Batches
41	[REDACTED]	✓ 1 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 2 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 3 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 4 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 5 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 6 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 7 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 8 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 9 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 10 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 11 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 12 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 13 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 14 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 15 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 16 Original Ballots/Damaged/Sent to Duplication
41	[REDACTED]	✓ 1 Braille Original to Duplication
41	[REDACTED]	✓ 2 Braille Original to Duplication
41	[REDACTED]	✓ 3 Braille Original to Duplication
41	[REDACTED]	✓ 1 Large Print Original to Duplication
41	[REDACTED]	✓ 2 Large Print Original to Duplication
41	[REDACTED]	✓ 3 Large Print Original to Duplication
41	[REDACTED]	✓ 1 Election Day Damaged Original to Duplication
41	[REDACTED]	✓ 1 Provisional Damaged Original to Duplication
41	[REDACTED]	✓ 1 UOCAVA Original to Duplication
41	[REDACTED]	✓ Data Cards - ICP2s - Election Day/USB Drives for Results
41	[REDACTED]	✓ 1 Upload
41	[REDACTED]	✓ 2 Totals Tapes - ICP2s - Election Day
41	[REDACTED]	✓ 3 Totals Tapes - ICP2s - Election Day
41	[REDACTED]	✓ Original Damaged Ballots for Duplication - Random
41	[REDACTED]	✓ 4 Sample Review #1 (Box 1 of 2)
41	[REDACTED]	✓ Original Damaged Ballots for Duplication - Random
41	[REDACTED]	✓ 5 Sample Review #1 (Box 2 of 2)
41	[REDACTED]	✓ Original Damaged Ballots for Duplication - Random
41	[REDACTED]	✓ 6 Sample Review #2 (Box 1 of 2)

[REDACTED] ✓ Orig Dam Ballots for Dupl - Rand Samp Rev #2 Box 2 of 2 CN  
 [REDACTED] 4/22/2021 [REDACTED]

5.7.7.1 RECOMMENDATION

Legislation should be considered that requires UOCAVA systems to be designed in a manner to prevent potential multiple copies of UOCAVA ballots from being printed.

### 5.7.8 MISSING SUBPOENA ITEMS

Ballots Impacted N/A

The original subpoena dated January 13, 2021, required Maricopa County to provide “Access to all original, paper ballots (including but not limited to early ballots, Election Day Ballots and Provisional Ballots).” The auditors did not receive the following original ballots:

- Rejected Provisional Ballots
- Uncured Mail Ballots
- Ballots returned to the County as undeliverable

Failing to receive these components prevented portions of the audit from being completed, such as validating that the right number of provisional ballots existed, and that ballots returned to the County as undeliverable were properly accounted for and were not reused in some other context. Since these items were not provided, this work was not able to be completed.

### 5.7.9 NO RECORD OF VOTERS IN COMMERCIAL DATABASE

Ballots Impacted N/A

All voters within the Final Voted File, or VM55, was cross-checked against a commercially available data source provided by Melissa<sup>56</sup> called Personator and 86,391 individuals were found with no record in the database for either their name, or anyone with the same last name at the address in the VM55 file. It is expected that most if not all of these individuals are in fact real people with a limited public record and commercial presence. It is highly recommended that this list be further validated with canvassing to determine what percentage of these voters represent current and valid voters.

Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service’s National Change of Address (NCOA) service, and the Social Security Administration’s Master Death List.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

Party	%
Democrat Party	43.97%
Prefer Not to Declare	29.83%
Republican Party	22.21%
Independent	2.55%
Libertarian Party	1.3%
Green Party	0.12%

#### 5.7.9.1 DATA FILES UTILIZED

File Name	MD5 Hash
Maricopa County-VM55 Final Voted Nov2020 PBRQ	43070bc7afdf40a37cd45092e9733654

<sup>56</sup> <https://www.melissa.com>

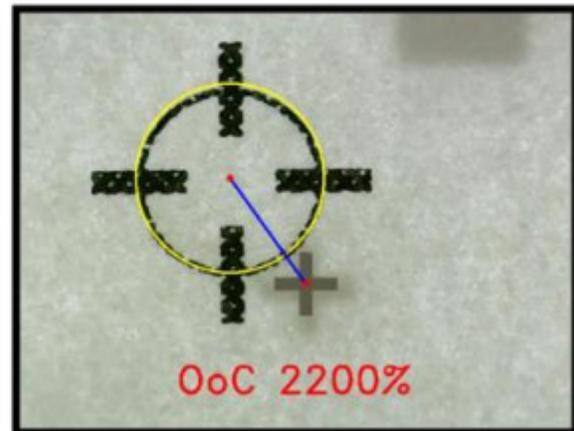
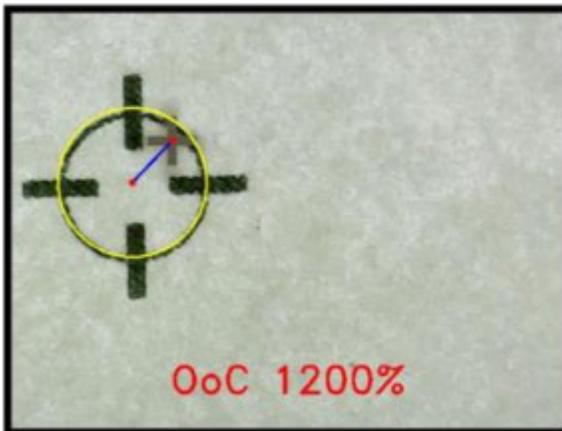
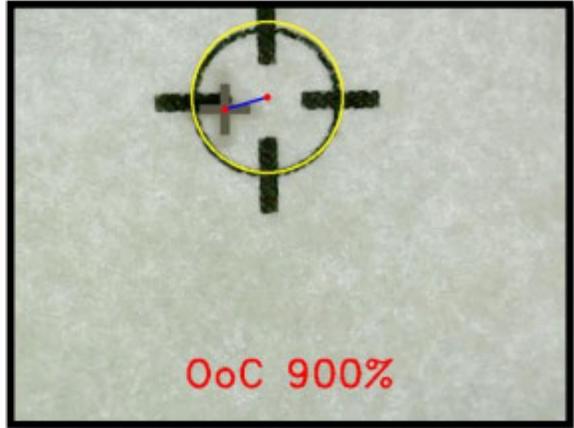
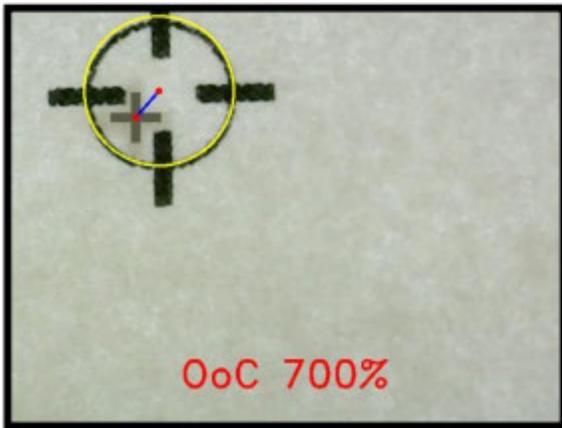
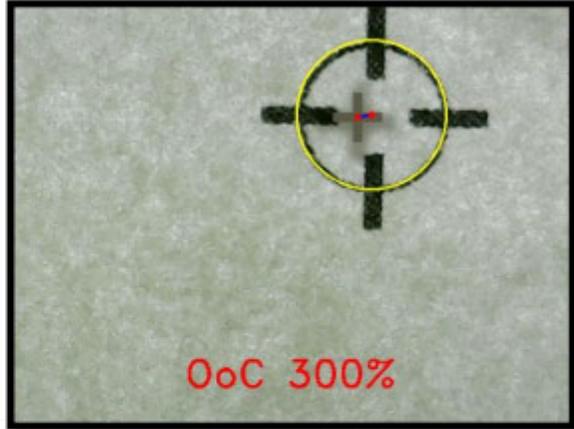
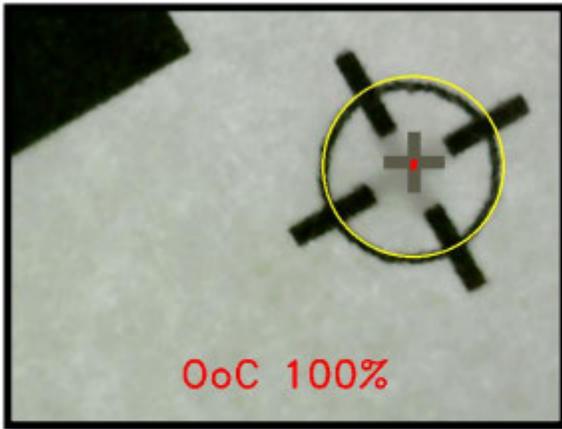
### 5.7.9.2 RECOMMENDATION

Legislation should be considered that requires a periodic review and maintaining of the voter rolls to be sure it represents current Arizona residents.

### 5.7.10 OUT OF CALIBRATION BALLOT PRINTERS

**Ballots  
Impacted** N/A

A large number of ballots appear to have been printed on printers not properly calibrated. This means that the front-page of the ballot is not consistently aligned with the back page of the ballot. The way this alignment presented appeared to be unique for each vote center printer. This is contrary to manufacturer guidelines and recommendations and could theoretically result in inconstant reading of votes across all the different tabulators, although we identified no instances of this issue causing a ballot to be tabulated incorrectly in the several thousand images reviewed.



### 5.7.10.1 REFERENCES

- Dominion Printing & Finishing Specifications<sup>57</sup>

### 5.7.10.2 RECOMMENDATION

Legislation should be considered that would require that the election equipment be properly maintained, including, but not limited to ensuring that ballot printers are properly calibrated.

### 5.7.10.3 INSTANCES

The Kinematic Artifact processing is currently processing ballot images to fully map all printer miscalibrations. A full report is expected in the coming weeks.

### 5.7.11 REAL-TIME PROVISIONAL BALLOTS

**Ballots  
Impacted** N/A

The Arizona Secretary of State Elections Procedures Manual identifies circumstances that require the issuance of a Provisional Ballot. If a voter appears in the e-pollbook or signature roster as having received an early ballot by mail, but the voter wants to vote in person on Election Day, that voter must be issued a Provisional Ballot. However, Maricopa County reported 58,550 voters who had received mail ballots but were issued standard ballots on Election Day. The County identifies these as “real-time Provisional Ballots.” There is no mention of real-time provisional in the AZ Elections Procedures Manual. In fact, the EPM specifically addresses this circumstance and is clear that such voters must be issued a Provisional ballot.

There appears to be no statutory authority for Maricopa County to deviate from the EPM and issue standard ballots to voters who had already received a mail ballot. We identified no instances of these voters casting more than one ballot, however.

This was reported as a note at the bottom of page 12,329 of the November General Election Canvass Final -below:

**Note:** There were 58550 Early Ballot recipients that had not RETURNED their Early Ballot and consequently were issued a standard ballot on Election Day. These were processed as real-time Provisional Ballots.

#### A.R.S. § 16-579(F). Issuing a Provisional Ballot

##### 1. *Circumstances Requiring Issuance of a Provisional Ballot:*

###### **Voter Received an Early Ballot**

*A voter must be allowed to vote a provisional ballot if the voter appears on the signature roster or e-pollbook as having received an early ballot-by-mail, but either:*

*(1) affirms that they have not voted and will not vote the ballot-by-mail; or*

*(2) surrenders the ballot-by-mail to the inspector on Election Day. A.R.S. § 16-579(B)*

*Voters who appear at a voting location with a ballot-by-mail that has not been voted, along with the affidavit envelope, may use a privacy booth at the voting location to mark the ballot-by-mail. In this circumstance, the voter*

<sup>57</sup> <https://www.sos.state.co.us/pubs/elections/VotingSystems/DVS-DemocracySuite511/documentation/SD-IC-PrintingSpecification-5-11-CO.pdf>

does not sign in and the voter must place the voted ballot-by-mail in its affidavit envelope, sign the affidavit envelope, and place the envelope in the early ballot drop-off container at the voting location.

#### 5.7.11.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>58</sup>
- A.R.S § 16-579 – Procedure for obtaining ballot by elector<sup>59</sup>

#### 5.7.11.2 DATA FILES UTILIZED

File Name	MD5 Hash
11-03-2020-0 Canvass COMPLETE NOV2020	ce62cc061b6bb56b4fd40aa4866adb16

#### 5.7.11.3 RECOMMENDATION

Maricopa County should explain this deviation from the Elections Procedures Manual.

#### 5.7.12 VOTER REGISTRATION SYSTEM AUDIT ACCESS

Ballots Impacted N/A

One of the most important components of the audit was the analysis of the voter registration system and records of authorized or unauthorized access to that system. Our audit team has been denied the access required to complete this portion of the audit. In the Senate’s subpoena dated January 12, 2021, Maricopa County was ordered to provide the auditors access to, or control of all equipment used in connection with the administration of the 2020 election. In a second subpoena, dated July 26, 2021, the County was ordered to provide all reports, finding and other documents concerning the voter registration breach. The response from the County claims that they are not aware of a breach.

**1. "All reports, findings and other documents concerning any breach of the voter registration server, the Maricopa County Recorder’s Office systems, or any other aspect of the Maricopa County elections systems at any time within six months of the November 3, 2020 general election"**

The Board of Supervisors is not aware of any “breach”, as stated above, occurring during this time period, or any other time period relevant to the November 3, 2020 election. The Board of Supervisors is aware of an incident in November 2020 wherein an individual programmatically accessed the County Recorder’s website and gathered publicly available information for a short period of time. The Recorder’s website is in no way connected to the air-gapped tabulation system in the secure room where ballots are counted. To the extent you are requesting records related to this incident, you recently made a public records request to both the Maricopa County Recorder and the Board of Supervisors requesting similar information. As always, the Board of Supervisors will comply with your public records request promptly consistent with Arizona law. We hereby request that you accept our response to your public records request in lieu of production pursuant to this subpoena.

Claiming that this breach was nothing more than unauthorized access to public data has not been supported with evidence. According to a news article published December 4<sup>th</sup>, 2020, Maricopa County confirmed voter data had been stolen and that a federal investigation was under way. CISA considers voter registration systems to be critical infrastructure and thus requires states and counties to implement the highest levels of security. The only way to ensure that there is one vote for every legally registered voter is careful control of the voter registration database.

<sup>58</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>59</sup> <https://www.azleg.gov/ars/16/00579.htm>

### 5.7.12.1 REFERENCES

- [Maricopa County Letter to Arizona Senate](#)<sup>60</sup>
- [Cybersecurity and Infrastructure Agency \(CISA\)](#)<sup>61</sup>

### 5.7.12.2 RECOMMENDATION

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. Specifically, its recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years.

**Ballots  
Impacted**

N/A

### 5.7.13 QUESTIONABLE BALLOTS

Analysis of the paper ballots has discovered ballots which exhibit characteristics that are anomalous and do not match known legitimate ballots. This includes color ballots that are missing Machine Identification Codes (MIC), as well as ballots that are demonstrating consistent printing irregularities that suggest they were not printed with the standard ballot PDF generated from the Dominion Election Management System (EMS). These irregularities may have logical explanations, but these explanations are not immediately evident.

NOTE: The questionable ballots have been reviewed to determine if they favor one presidential candidate over another presidential candidate. No discernable pattern could be determined. This highly suggests that these are not counterfeit but do require some sort of explanation.

### 5.7.13.1 REFERENCES

- [Maricopa County Election Facts and Myths](#)<sup>62</sup>
- [Runbeck Printing Website](#)<sup>63</sup>
- [HP PageWide WebPress T HD Specification](#)<sup>64</sup>

### 5.7.13.2 RECOMMENDATION

Legislators should consider passing laws standardizing the papers and printing process utilized for printing ballots and requiring documentation to be kept of all papers utilized. This will facilitate determining if a ballot is in fact genuine and remove any areas for confusion.

<sup>60</sup> <https://www.maricopa.gov/DocumentCenter/View/70435/Final-Signed-Letter-to-Senators>

<sup>61</sup> <https://www.cisa.gov/election-security>

<sup>62</sup> <https://recorder.maricopa.gov/justthefacts/>

<sup>63</sup> <https://runbeck.net/election-solutions/election-printing-mailing/>

<sup>64</sup> <https://www.hp.com/us-en/commercial-industrial-printing/pagewide/t250-hd-web-presses.html>

## 6 VOTING MACHINE FINDINGS

The following section outlines all findings related to the voting machines including the analysis and discoveries during the Voting Machine phases of the work.

### 6.1 Voting Machine Scoring

Cyber Ninjas utilizes a risk ranking system based on the guidelines outlined by NIST publication 800-30, "Guide for Conducting Risk Assessments – Information Security." A severity is assigned to a finding based on a combination of the likelihood the finding could impact the election, or the ability to audit the election and the impact it could have on the election results.

Likelihood	Impact			
	Low	Medium	High	Critical
Critical	Medium	High	High	Critical
High	Medium	Medium	High	High
Medium	Low	Medium	Medium	High
Low	Low	Low	Medium	Medium

Table 1: Election Risk Matrix.

Both the likelihood and the impact of the finding are rated independently on a scale from "Low" to "Critical." These ratings are then combined utilizing the risk matrix represented in Table 1 to determine the associated severity for the issue.

### 6.2 Digital Analysis Summary

Because the Maricopa County Board of Supervisors and the Arizona State Senate have recently settled their dispute concerning outstanding subpoena items, this portion of the audit is not yet complete. Analysis of those items that were produced, however, clearly demonstrated that the Maricopa County voting systems did not follow CISA or industry standard cyber security best practices.

First Maricopa County personnel did not control the administrative iButton credentials necessary to configure, validate and certify the ICP2 tabulators. Second, Maricopa County did not properly assign and manage the user names and passwords necessary to restrict access the voting systems. The user accounts were not attributable to an individual, rather they were shared throughout the staff. Furthermore, the same password was utilized by multiple accounts and was never changed since the installation of the Dominion software. That same password was used by both administrative and user accounts. If a user had access to user level account, that user had all the knowledge necessary to perform administrative functions with elevated access. Third, the windows security and activity logs were not preserved for the required 22 months following the election, thus significantly hampering the analysis of authorized activity. It did appear that the Dominion software specific logs were preserved, but those logs do did not provide the same level of detail or data that the Windows operating system logs did for security events, remote login events or other user activity. Fourth, there was a clear lapse in the hardware configuration monitoring and baseline in the Maricopa County voting systems as evidenced by the presence of an unauthorized second bootable hard drive in the Adjudication 2 workstation.

### 6.3 Summary Table

#	Finding Name	Likelihood	Impact	Severity
6.4.1	Election Management System Database Purged	High	High	High
6.4.2	Election Files Deleted	High	High	High
6.4.3	Corrupt Ballot Images	High	High	High

6.5.1	Missing Ballot Images	Medium	High	Medium
6.5.2	Failure to Follow Basic Cyber Security Practices	Medium	High	Medium
6.5.3	Subpoenaed Equipment Not Provided	Medium	High	Medium
6.5.4	Anonymous Logins	Medium	Medium	Medium
6.5.5	Dual Boot System Discovered	Medium	Medium	Medium
6.5.6	EMS Operating System Logs Not Preserved	Low	High	Medium
0	Election Data Found from Other States	Low	Medium	Low

## 6.4 High Findings

6.4.1 ELECTION MANAGEMENT SYSTEM DATABASE PURGED **Likelihood:** High **Impact:** High

The Election Management System (EMS) database which holds all details associated with the 2020 General Election was purged and all the election results were cleared by a Results Tally and Reporting Admin on February 2 at 5:14 pm; the evening before the Pro V & V audit was scheduled to officially start. This means that these results were not available for Pro V & V or SLI to perform any type of audit, nor were they available for Cyber Ninjas to review. The next day Pro V & V then proceeded to add new tabulators for their audit, and they imported results into these tabulators further clearing remnants of the database. It is worth noting that the Dominion software fully supports creating a full copy of an existing election project; and if a cleared database was required for Pro V & V to perform their audit, they could have first duplicated the existing Election Project. Neither of the “auditors” retained by Maricopa County identified this finding in their reports.

NOTE: While the log file clearly indicates that the results and images were also purged as part of the process, the majority of the images did appear to be reloaded back to the system at some point. There were images missing and a number of corrupt images as can be seen in the other findings.

NOTE: On August 26<sup>th</sup> the Maricopa County Board of Supervisors was requested to explain the reasoning for this activity but has chosen not to respond.



Figure 2 - UserLog shows that RTRAdmin Successfully Purged the 20201103 Election Database and Files.

Tabulator Nu...	Name	Location	Type	Counting Group	Log File	Closed	Images Loaded	Load
157189	Audit 7	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
3002	HiPro 2 Early ...	MCTEC	Imagecast Ce...	EARLY VOTE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
157192	Audit 10	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157191	Audit 9	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157193	Audit 11	Maricopa	ICE/ICP 2	EARLY VOTE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157185	Audit 3	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157186	Audit 4	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157195	Audit 13	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
6004	Canon 4 Early...	MCTEC	Imagecast Ce...	EARLY VOTE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
157190	Audit 8	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157184	Audit 2	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157187	Audit 5	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157188	Audit 6	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157194	Audit 12	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
157183	Audit 1	Maricopa	ICE/ICP 2	EARLY VOTE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1
3001	HiPro 1 Early ...	MCTEC	Imagecast Ce...	EARLY VOTE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3

Figure 3 - Tabulator List is full of "audit" tabulators which are the only ones with results.

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### Election Summary Report General Election Maricopa County November 3, 2020

Elector Group	Counting Group	Ballots	Voters	Registered Voters	Turnout
Total	EARLY VOTE	8,164	8,164	2,595,272	0.31%
	ELECTION DAY	0	0		0.00%
	PROVISIONAL	0	0		0.00%
	Total	8,164	8,164		0.31%

Registered Voters: 8,164 of 2,595,272 (0.31%)  
Ballots Cast: 8,164

Figure 4 - Results for the 2020 General Election only show 8,164 votes from the Pro V & V audit.

#### 6.4.1.1 DATA FILES UTILIZED

File Name	MD5 Hash
AZAud-E-089-1 _EMS PRIMARY\AZAud-E-089-1 _EMS PRIMARY	95a6f531c4969dda8f5703858e33d414

#### 6.4.1.2 RECOMMENDATION

Legislation should be considered that could more greatly facilitate audits to be performed and require the counties to cooperate with the audits when they occur. Specifically, the county should be required to provide all the details needed to have a fully functional Election Management System where results can be reviewed.

#### 6.4.2 ELECTION FILES DELETED

**Likelihood:** High      **Impact:** High

According to the Master File Table (MFT) of the drives, a large number of files on the Election Management System (EMS) Server and HiPro Scanner machines were deleted including ballot images, election related databases, result files, and log files. These files would have aided in our review and analysis of the election systems as part of the audit. The deletion of these files significantly slowed down much of the analysis of these machines. Neither of the “auditors” retained by Maricopa County identified this finding in their reports.

6.4.2.1.1 Deletion Activity on the EMS C:\ Drive

The EMS server that was produced contained six hard drives. Two of those hard drives were configured in a mirrored configuration and contained the operating system and install programs. This mirrored drive was assigned the drive letter "C" and was the boot drive for the EMS. Between 10/28/20 08:52:36AM and 11/05/20 05:58:58PM 865 directories and 85,673 election related files (scanned ballots, .dvd files, slog.txt files, etc.) were deleted from the EMS C:\ drive. A full listing is provided in the file named Files and Directories Deleted from the EMS C Drive.txt.



*Figure 5-Example of Election Related File Deletion from EMS C:\ Drive*

6.4.2.1.2 Deletion Activity on the EMS D:\ Drive

The other four (4) hard drives were configured in a 0+1 hardware raid configuration that contained a single 2.1 Terabyte partition. For the purposes of this examination this raid was manually reconstructed and mounted as a single 2.1 TB drive. This mounted image was then imaged using the FTK Imager software package. The resulting forensic image was then utilized for analysis. This drive contained the dominion election data, election definitions, the election databases, the NAS directory and the scanned ballot images. Between 11/01/20 10:37:41AM and 03/16/21 10:17:06AM 9,571 directories and 1,064,746 election related files were deleted from the D drive. These deleted files include scanned ballot images, ICX results, context.spx files, choice.spx files, .dvd files from the tabulators, and other election related files. A full listing of the deletions is provided in the file Files and Directories Deleted from the EMS D Drive.txt.



*Figure 6-Trump Ballot Image Created and Deleted on 1 Nov 2020 from D:\ Drive*



*Figure 7-Deleted Election Results Files on 5 November 2020 from D:\ Drive*

6.4.2.1.3 Deleted Directories and Files from HiPro 1

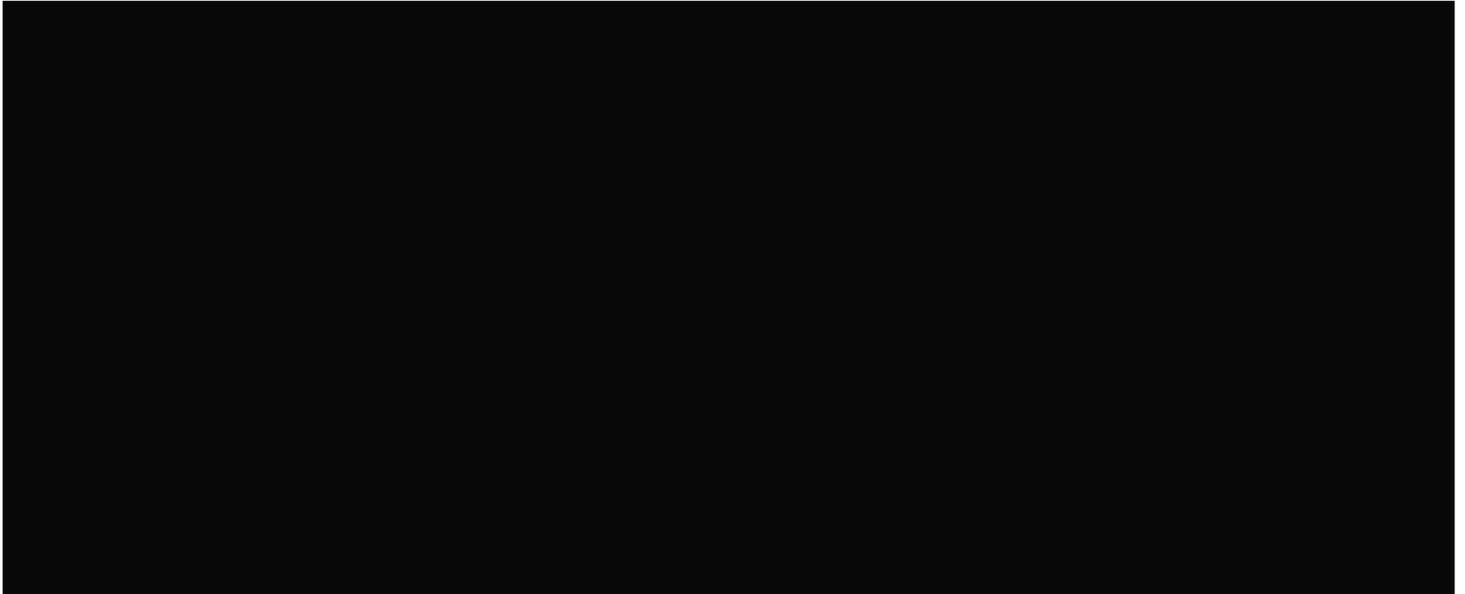
HiPro 1 Deleted Files and Folders – 304 Directories and 59,387 files containing election data were deleted from the HiPro scanner number 3 (CyFIR evidence number AZAUD-C-096) by an individual using the account hipradmin01. These files were deleted on 3 March 2021 between 03/03/21 12:53:34PM and 03/03/21 01:37:49PM.



*Figure 8-Deleted Election Related Files from HiPro 1*

6.4.2.1.4 Deleted Directories and Files from HiPro 3

HiPro 3 Deleted Files and Folders – 1,016 Directories and 196,463 files containing election data were deleted from the HiPro scanner number 3 (CyFIR evidence number AZAUD-C-099) by an individual using the account hipradmin03. These files were deleted on 3 March 2021 between 03/03/21 01:26:32PM and 03/03/21 01:37:49PM.



*Figure 9-Deleted Election Related Files from HiPro3*

6.4.2.1.5 Deleted Directories and Files from HiPro 4

HiPro 4 Deleted Files and Folders – 981 Directories and 191,295 files containing election data were deleted from the HiPro scanner number 4 (CyFIR evidence number AZAUD-C-098) by and individual using the hiproadmin04 account. These files were deleted on 3 March 2021 between 03/03/21 02:32:47PM and 03/03/21 02:44:32PM.

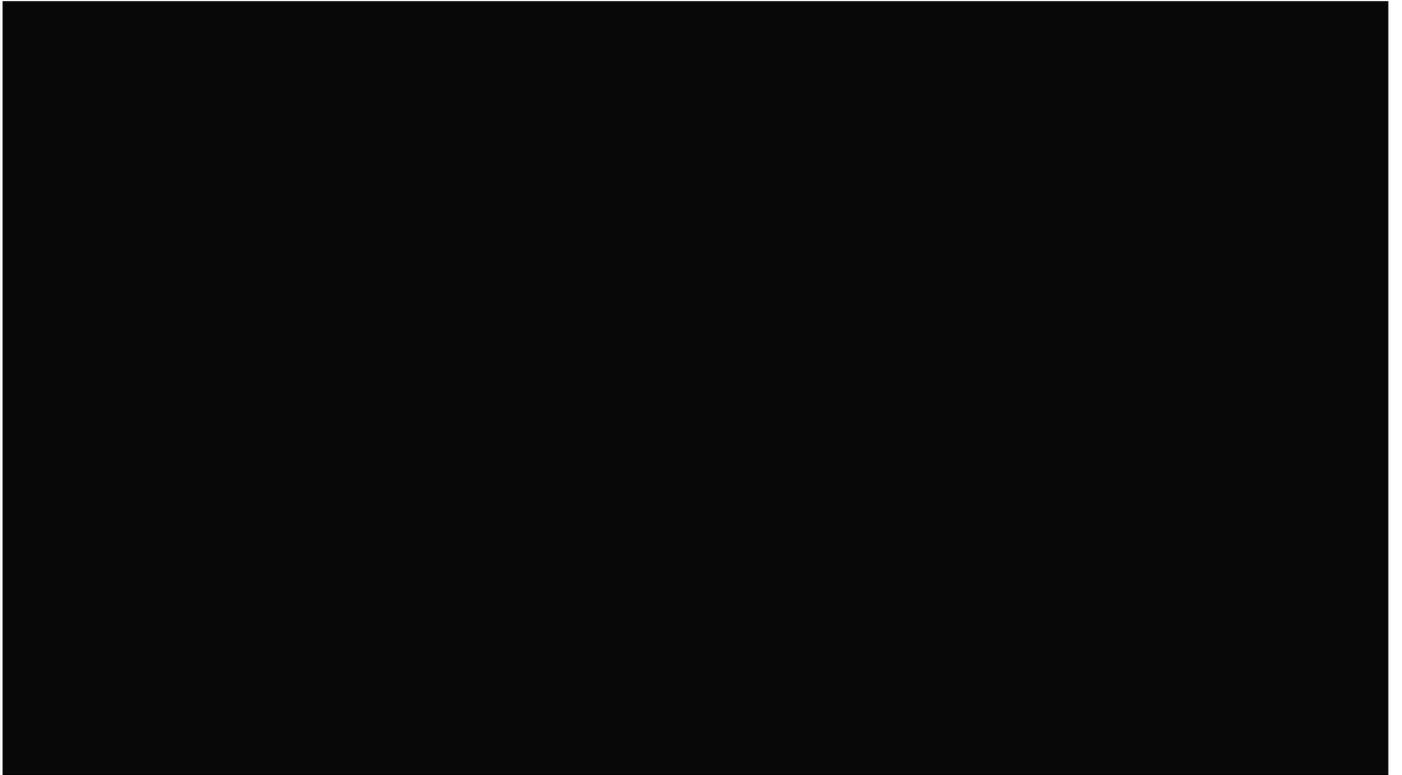


Figure 10-Deleted Election Related Files on HiPro4

### 6.4.3 CORRUPT BALLOT IMAGES

**Likelihood:** High      **Impact:** High

The audit has discovered 263,139 ballot images on the election system that are corrupt and unreadable TIFF format images. It is unclear what events could have resulted in this number of images being corrupted. The corruption of the ballot images in the election system only occurs for ballots that were scanned on or after November 1, 2020. No corruption of ballot images occurred in the 1,347,240 ballots processed on the same nine high-speed scanners prior to November 1, 2020. The image corruption is incongruous with the performance of those same nine high-speed scanner systems during the entire election prior to November 1, 2020. For each of the eight high-speed scanners used for ballots scanned starting on November 1, approximately half of the TIFF images are corrupted. The corruption prevents the audit team from confirming the efficacy of the vote totals and the correlation to the paper ballots stored in the various batches.

TIFF image batches were corrupted in some way and not entirely readable for the purposes of the audit. This means that it was impossible to confirm that the electronically recorded votes corresponded to the corrupted TIFF ballot images. In this scenario it is possible that manipulation of the electronic vote totals occurred in the instances where the TIFF images are corrupted. These corrupt TIFF images are not in the folder structure where finally adjudicated ballots are held. Instead, the corrupted adjudicated ballots for “Early Vote Spare 2” are located amongst what appear to be test batch ballot images.

NOTE: Because these images are critical, a new copy of these images was requested from Maricopa County, but a response was not given.



*Figure 11 - Early Vote Spare 2 Misallocated and Corrupted Ballots.*



*Figure 12 - HiPro 1 Early Vote Spare 2 Showing 97,098 Ballot Tiff Images, Showing the High Volume on these Devices.*



Figure 13 - Example folder showing corrupt TIFF images. The corrupt images either will not display a pre-view at all, or the ballot will be partially blacked out.

In addition, the very same nine (9) high speed tabulators processed more than 1.3 million votes from October 20, 2020, to October 31, 2020 without corrupting any TIFF ballot images. It is anomalous that these high-speed scanners had no errors for the eleven-day period prior to November 1, 2020, but had issues starting on November 1.

NOTE: The top level of the EMS folder structure containing all of the scanner’s zip files with the unadjudicated ballots (except the aforementioned missing ballots) are present. The corrupted ballots by file name do appear in these zip files, but none of the ballots in this folder structure are adjudicated.

#### 6.4.3.1 DATA FILES UTILIZED

File Name	MD5 Hash
AZAud-E-089-1 _EMS PRIMARY\AZAud-E-089-1 _EMS PRIMARY	95a6f531c4969dda8f5703858e33d414

#### 6.4.3.2 REPRODUCTION STEPS

In order to locate and find the corrupt ballots, the Unix “find” command can be employed in conjunction with the “file,” “grep,” and “wc” (word count) command to determine if the ballot image is indeed a valid TIFF image format file.

For example, here is the command line:



#### 6.4.3.3 RECOMMENDATION

Legislation should be considered that will make ballot images an artifact from an election that is publicly published for increased transparency and accountability in the election process.

## 6.5 Medium Finding

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### 6.5.1 MISSING BALLOT IMAGES

**Likelihood:** Medium      **Impact:** High

The total number of ballot images that exist within the body of computer forensics material provided for the audit is substantially less than the official vote totals and the total number of paper ballots audited. 21,273 ballot images are entirely missing from the forensics images of the election equipment. This means that there are electronic votes recorded, but no actual ballot images that correspond to the votes. This makes it impossible to fully validate the results or confirm that the Election Management System (EMS) was not tampered with.

The results from the high-speed scanners from 11/1 to 11/13 are not found in the folder named, "20201103 General ballots and election files and adjudicated tabulators." We find the bulk of them in "20201103 General\Results" folder. The first 15-20 (depending on the specific high-speed scanner) of these batches do not have ballot images. The total number of missing ballot images is 21,273.



*Figure 14 - The tabulator results are found in two different folders, "20201103 General Ballots and election files and adjudicated tabulators" and "20201103 General."*



Figure 15 - The tabulator folder that should have images within it does not have any images.  
In total 21,273 images were missing.

#### 6.5.1.1 DATA FILES UTILIZED

File Name	MD5 Hash
AZAud-E-089-1 _EMS PRIMARY\AZAud-E-089-1 _EMS PRIMARY	95a6f531c4969dda8f5703858e33d414

#### 6.5.1.2 REPRODUCTION STEPS

In order to find the number of ballot images, first it is necessary to query the EMS database for the election project name Project 20201103 General and select the vote total for the entire election using the following MS SQL command. This query is executed using the Microsoft SQL Server Management Studio v17.1 that was found to be installed on the EMS.

Windows Domain and Logon: [REDACTED]

Database Name: [REDACTED]

[REDACTED]

[REDACTED]

In order to count the total number of ballot images, the Unix “find” command can be employed in conjunction with the “grep” and the “wc” (word count) command to determine if the ballot image is indeed a valid TIFF image format file.

For example, here is the command line:



**Add these totals together and this is the total number of TIFF images on the EMS for the election.**

Then take the total number of ballots from the EMS from and subtract the total from the above commands.

### 6.5.1.3 RECOMMENDATION

Legislation should be considered that will make ballot images an artifact from an election that is publicly published for increased transparency and accountability in the election process.

### 6.5.2 FAILURE TO FOLLOW BASIC CYBER SECURITY PRACTICES

**Likelihood:** Medium **Impact:** High

The Department of Homeland Security’s Cybersecurity & Infrastructure Security Agency (CISA) has published a series of cybersecurity best practices and guidelines. In addition to general guidelines, CISA has also published specific best practices for securing election systems that is available for all counties to access at no cost. In the most recent version of the document CISA broke this guidance into specific categories for ease of utilization. As part of these findings, this report will address the following CISA recommendations and address the lack of Maricopa County compliance with the recommendations; Software and Patch Management, Log Management, Credential Management, and Establish a Baseline for Host and Network Activity.

#### 6.5.2.1 INSTANCES

6.5.2.1.1 Software and Patch Management
---

CISA outlines the necessity for software and patch management within election systems. Specifically, CISA states “Failure to deploy patches in a timely manner can make an organization a target of opportunity, even for less sophisticated actors, increasing the risk of compromise.” It is clear that there was no established program to patch the operating system or even update the antivirus definitions. Neither the operating system nor the antivirus had been patched or updated since August 2019 (the date of the installation of the Democracy Suite). The county released a statement that they were prohibited from updating the operating system, that had they done so it would have invalidated the certification issued by the Voter Assistance Commission (VAC) for the Dominion software. This statement is contradicted by the County’s own actions following the installation of the Dominion software. Contrary to the claims that updating items on the election systems would invalidate the certification of the election system by the EAC, forensic analysis revealed that after the installation of the Dominion software in August 2019, 4 EXE packages were created, 45 EXE packages were updated and/or modified, 377 Dynamic Link Libraries (DLL) were created, and 1053 Dynamic Link Libraries were modified on the EMS server. If updating the operating system with patches and updating the antivirus definition file would have invalidated the voting certification, then the county had already invalidated the certification prior to the general election of 2020. Neither security audit contracted by Maricopa County noted these findings in their report.

6.5.2.1.2 Log Management

The Cybersecurity and Infrastructure Agency (CISA) recommends that organizations should set up centralized log management systems that 1) forward logs from local hosts to a centralized log management server, correlate logs from both network and host security devices, and review both centralized and local log management policies to maximize efficiency and retain historical data. Analysis of the systems revealed that none of these recommendations were being followed on the Maricopa County election systems. In fact, in a later paragraph this report details how the windows security logs for the EMS server were in fact intentionally deleted such that the logs no longer covered the time period for the 2020 General Election. Neither security audit contracted by Maricopa County noted this finding in their report.

6.5.2.1.3 Credential Management

The Cybersecurity and Infrastructure Agency (CISA) states that Managing passwords and using strong passwords are important steps in preventing unauthorized access to databases, applications, and other election infrastructure assets. CISA further recommends that usernames be assigned to a specific person, not be shared and be changed every 90 days. CISA actually recommends that multifactor authentication be enabled for election systems. Key to the username and password concept is to be able to uniquely identify a user, assure authorized access by a given users, and to be able to hold that individual accountable for the actions performed by that assigned account. In the case of the Maricopa County election systems, none of these guidelines were followed. Neither security audit contracted by Maricopa County noted this finding in their report.

*Maricopa County Failed to Ensure Unique Username Allocation to Individuals*

Generic username accounts were created as part of the Dominion Software installation on 8/06/2019. These accounts were not assigned to a specific individual but appear to have been shared accounts based on function, not individual accountability. Neither security audit contracted by Maricopa County noted this finding in their report.

*Maricopa County Failed to Create Unique Passwords for Each Account*

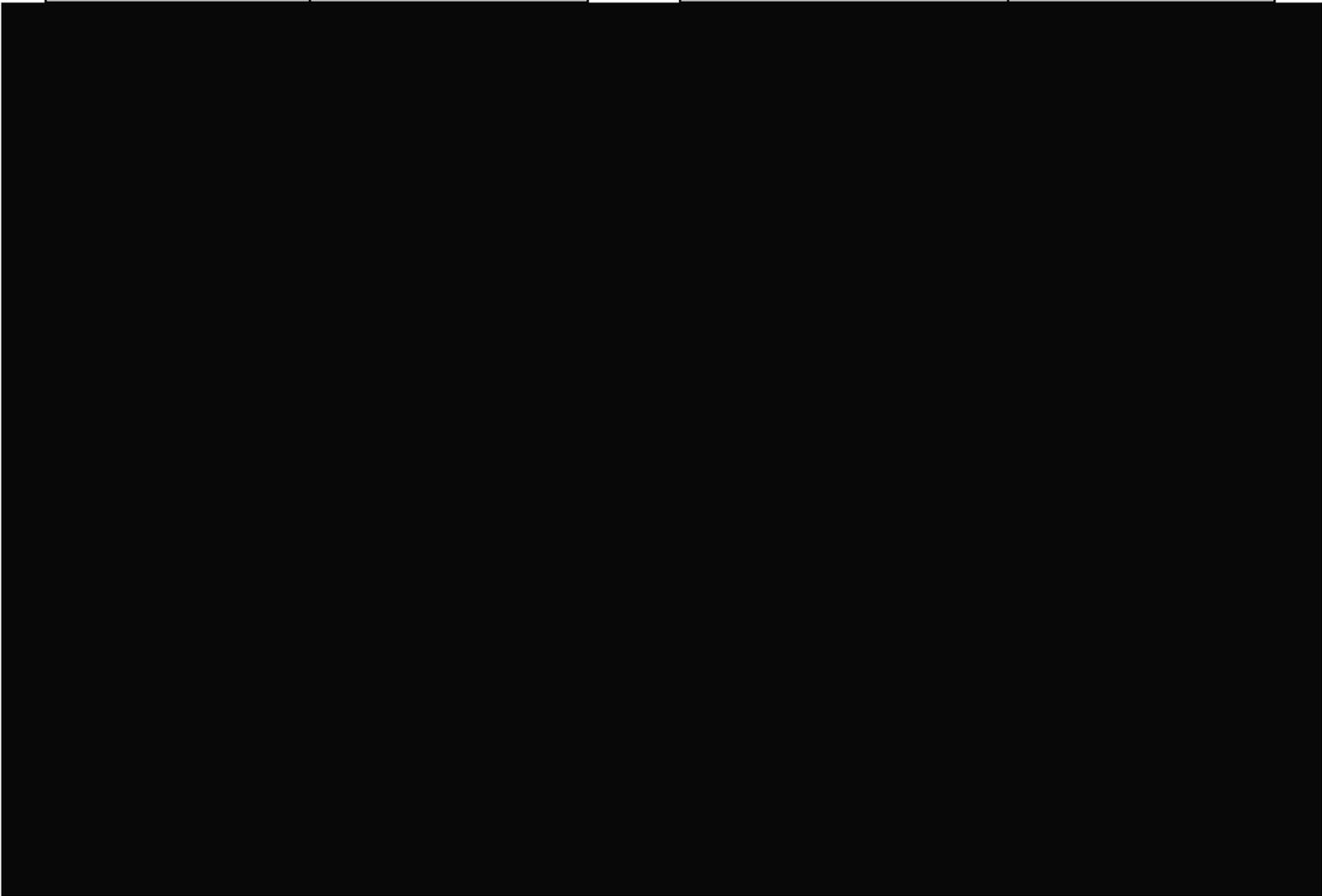
Unique passwords were not created for each account. Just to be clear, the same password was used for all the accounts (if there was in fact a password for the account). This action violates every principle of password management guideline as published in every cyber security framework that currently exists. Below are the list of accounts and the corresponding password. Note the last 4 characters of the password has been masked for security reasons, but all 4 of those characters are the same for all accounts. Furthermore, these passwords had not been changed since the Dominion software suite had been installed (presumably by Dominion employees) in August of 2019. The recommendation from CISA and most cybersecurity frameworks recommend that passwords, especially for administrative accounts, should be changed every 90 days. Neither security audit contracted by Maricopa County noted this finding in their report.

Account Name	Password	Account Name	Password
--------------	----------	--------------	----------



Account Name	Password
--------------	----------

Account Name	Password
--------------	----------



Note: These passwords were subsequently used in conjunction with accessing virtual machines that were created from copies of the forensic images and were proven to be legitimate passwords. Neither security audit contracted by Maricopa County noted this finding in their report.

6.5.2.1.4 Lack of Baseline for Host and Network Activity

The analysis of the computing systems that comprised the Maricopa County voting system (to the extent produced) did not find any whitelisting, monitoring, baselining, or network programs that could have been used to establish a baseline for host and network activity. CISA recommends that counties leverage software and monitoring functions to establish and enforce a software and a network baseline of approved programs, communications protocols, and communications devices for voting systems. This baseline should be monitored and integrated into an alerting and response capability to ensure that no unauthorized programs are executed on the endpoints in the network and there are no unauthorized devices communicating on the network. Neither security audit contracted by Maricopa County noted this discrepancy or finding in their report.

6.5.3 SUBPOENAED EQUIPMENT NOT YET PROVIDED

**Likelihood:** Medium **Impact:** High

SLI Compliance report page 11 states that the Maricopa County produced 6 EMS computers. Further analysis indicated that there were 4 EMS workstations and 2 EMS servers. Maricopa County only produced 1 EMS server and 4 EMS workstations despite the Arizona Senate subpoena requesting ALL EMS servers and systems utilized in the 2020 General Election. This has impacted the ability to complete the audit of the digital network and devices. For example, if malware was resident on the missing EMS or that machine was utilized in any manner to manipulate the results of the election; this would not be able to be determined from our analysis.

6.5.3.1 INSTANCES

6.5.3.1.1 Network Related Data

The Arizona Senate Subpoena to the Maricopa County Board of Supervisors included the production of network routers, router configuration files and managed switches used in the 2020 General Election. In subsequent conversations with county officials and county attorneys between 4/22/21 and 4/30/21 these officials agreed to provide virtual access to the systems and to provide archived Splunk data beginning 60 days prior to the election and ending 90 days following the election. Maricopa County refused to provide any data citing that the production of the router data would compromise ongoing law enforcement operations and the personally identifying information (PII) of Maricopa County residents. Maricopa County and the Arizona State Senate recently settled their dispute regarding outstanding subpoena items, so this portion of the audit is not yet complete.

6.5.3.1.2 Poll Worker Laptops

Despite the presence of at least one poll worker laptop at each voting center, the auditors did not receive laptops or forensic copies of their hard drives. It is unknown, due to the lack of this production, whether there was unauthorized access, malware present or internet access to these systems.

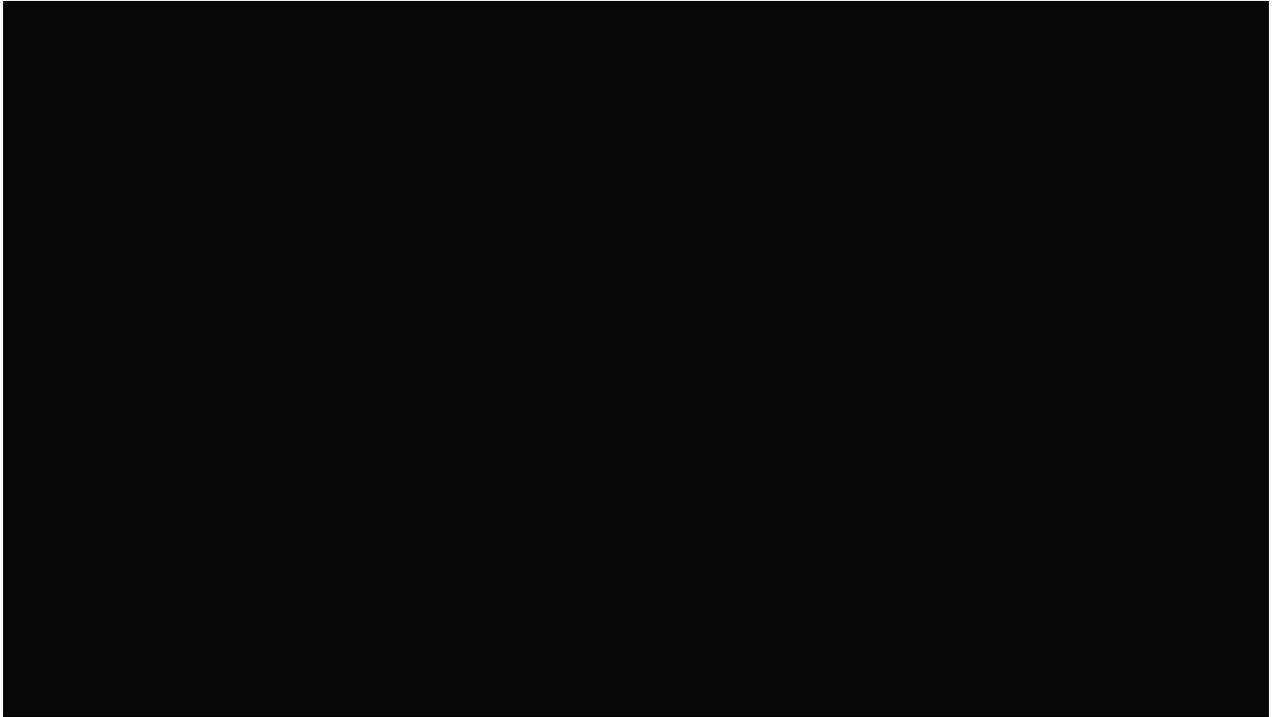
#### 6.5.3.1.3 ImageCast Precinct (ICP) Administrator Credentials and Hardware Tokens

Maricopa County utilized the Dominion ImageCast Precinct 2 (ICP2) tabulator during the General 2020 election. These tabulators are normally configured with cellular wireless connections, Wi-Fi access and multiple wired LAN connections. The ICP2 actually requires two forms of authentication to configure, check and/or access the device, a numerical password and an iButton token. Maricopa County produced iButton credentials for Poll Workers to open and close polls on the ICP2's but did not produce any credentials to access the higher level administrative or configuration settings for the tabulators. This prevented the verification of the ICP2 settings to include the cellular wireless settings, the local area network settings, the wide area network settings and access to the administrative configuration reporting functions. During the course of the examination, we were able to recover the higher-level admin's numerical password from the EMS SQL Database. We also attempted to create administrative level iButton credentials utilizing the EMS system forensic images mounted in a Virtual Machine (VM) environment. The VM of the EMS system was fully functional and was used to produce poll worker iButton credentials, however, the EMS did not have the ability to create the administrative ICP2 credential.

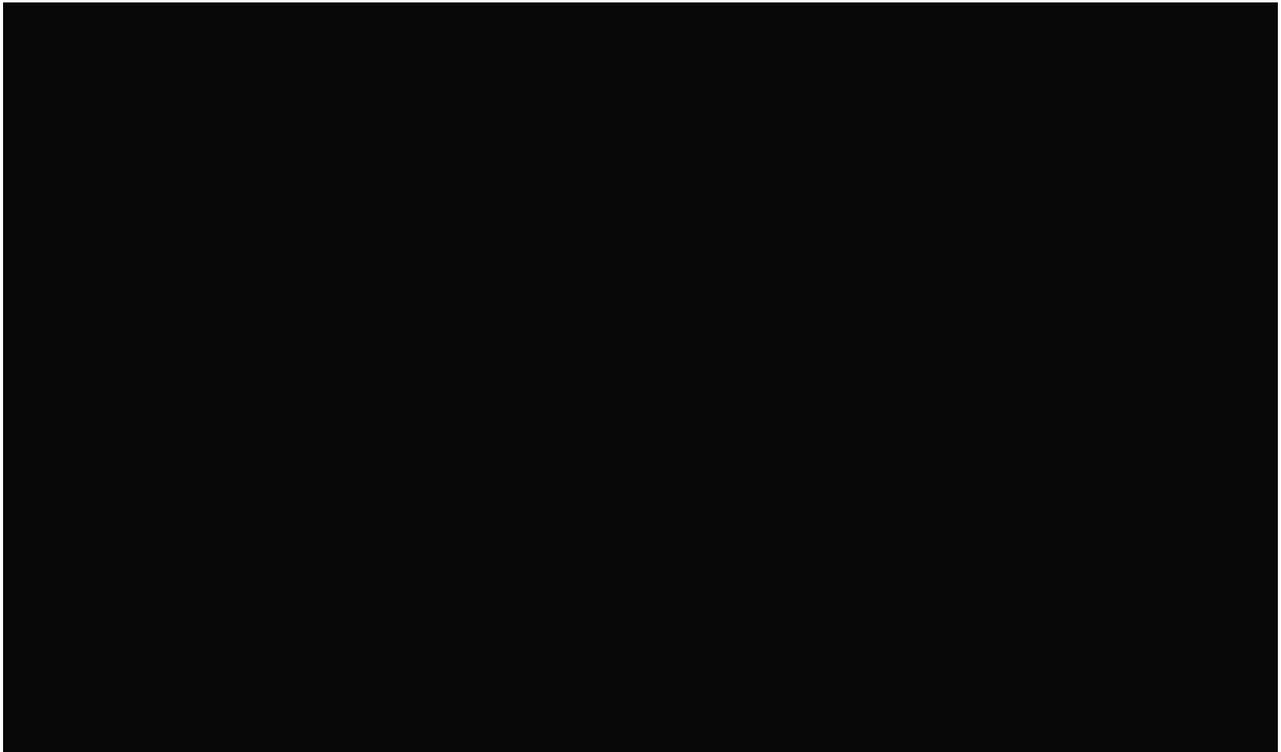
The EMS, as produced to the auditors, only had the Poll Worker role programmed into EMS. The Poll Worker role did not have the necessary privileges and functionality to create an administrative iButton credential. In their response to the Arizona Senate request for the administrative ICP2 iButton credentials, the Maricopa County officials indicated that they did not possess these credentials and only the contracted Dominion employees have access to these credentials. Dominion has refused to comply with the production request. Given the inability to create administrative tokens with the EMS and the statement by Maricopa County concerning the ownership of the administrative iButtons, Maricopa County is unable to validate tabulator configurations and independently validate the voting system prior to an election. Additionally, since Maricopa County does not control the administrative iButtons, Maricopa County is apparently unable to independently configure, validate the voting systems prior to an election, or satisfactorily freeze the configuration of the systems for the required time periods during an election. If only the vendor controls the administrative iButtons, Maricopa County has no way of checking the configuration of the tabulators.

#### 6.5.3.1.4 IPX and Other Devices

Based on the videos of the Maricopa County Tabulation and Election Center (MCTEC) there are a significant quantity of systems that were used in the voting process for the 2020 General Election that were not produced, including the items pictures below.



*Figure 16-Video Taken on 8 November 2020 of Maricopa County ICX Systems*



*Figure 17-Video Capture Taken from Maricopa County Live Stream*

6.5.3.1.5 Other Devices Connected to the Election Network

Examination of the network configurations for the produced systems determined that the programmed gateway for all the systems was [REDACTED]. This normally refers to the network router used to route network traffic external to the [REDACTED]. This device could also have been a managed switch. In either case, the device was not produced. The DNS cache has an entry for [REDACTED] with an IP address of [REDACTED], indicating that this system had been communicated with the EMS server and was probably used for printing. Given the naming convention of the device, [REDACTED], MCTEC is the acronym for the Maricopa County Tabulation and Election Center. This device has not been produced by Maricopa County. Therefore, there are additional network components that the county has not acknowledged and that are in tension with the public statements made by the county that the election system did not have any routers and was completely isolated from the internet.

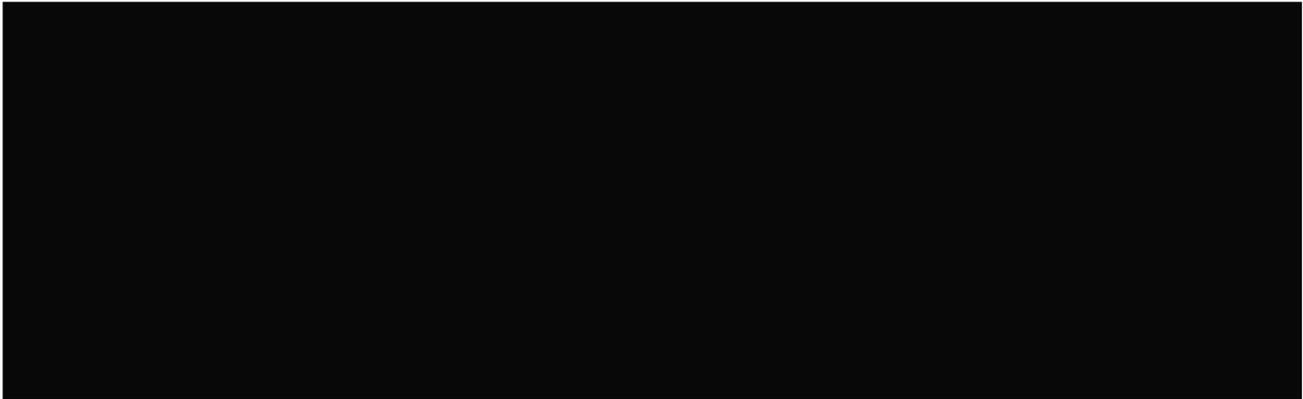


Figure 18-DNS Update Table Recovered from the Maricopa County EMS.

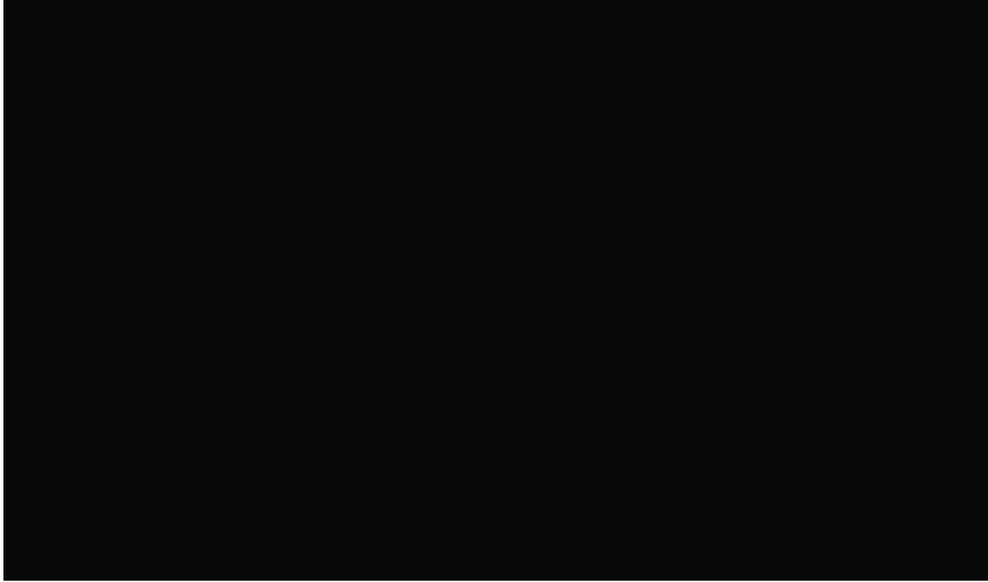


Figure 19-Default Gateway Settings

#### 6.5.4 ANONYMOUS LOGINS

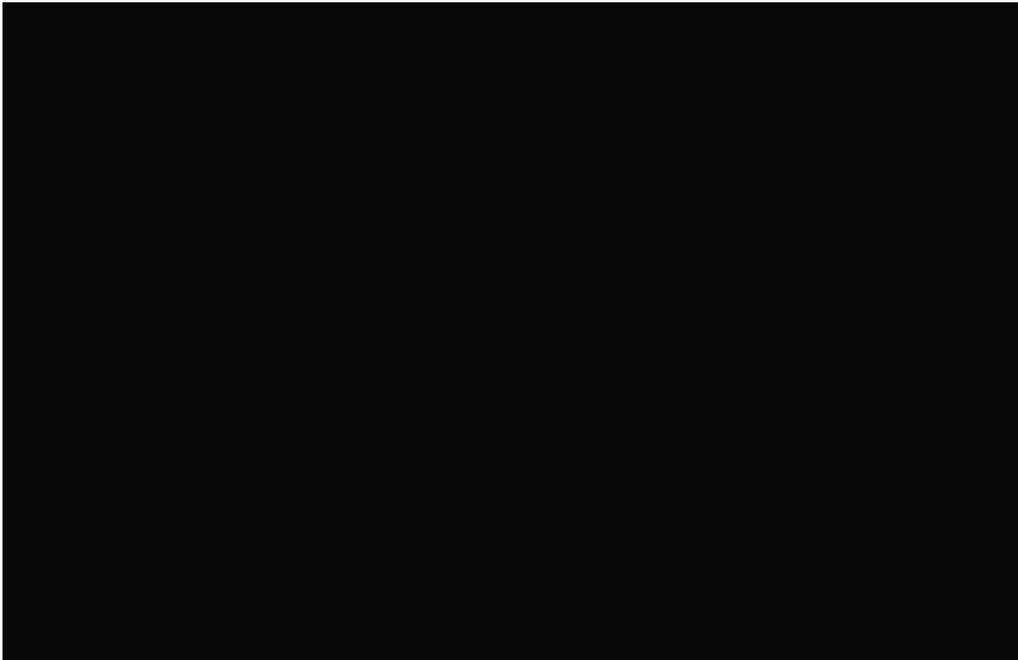
**Likelihood:** Medium    **Impact:** Medium

There are common functions in Microsoft Windows that will record an anonymous login activity into the windows security logs. These logins, however, exhibit known recording sequences within the logs that allow analysts to determine the origination of the requesting function and determine the legitimacy of the logged action. An example of this behavior is the windows response to a request to access a Windows Server Message Block (SMB) share, also known as a network drive. When a user requests a connection to network drive, that initial connection request is logged as an anonymous user. The log entry also records the requestor's host name and the requestor's IP address. That anonymous request is then immediately followed up with another logged entry that authenticates the user's actual username and password in order to grant access. Below is a screen shot of this normal windows activity. Notice that the workstation name, source network IP and source port fields of this log entry contains valid data. This log entry is immediately (within one second) followed by the successful authentication of the username that is authenticating to the network drive for access permissions. That subsequent user authentication is also logged.



*Figure 20-Normal Anonymous Request to SMB Share*

While the Windows security logs from the Maricopa County EMS server only are present from 2/5/21 to 4/12/21, there are a significant number of atypical remote, anonymous logins contained in the Windows security logs. Below is an example of the atypical anonymous logons. Note that this is a remote login (login [REDACTED]). Note that the Workstation Name, Source Network Address and Source Port log elements are not populated, and that root/system level access is granted. It is normal for logins from the local system (login type [REDACTED]) to not populate these data fields, but the fact that it is a network remote login (login type 3), and the fields are not populated is irregular and indicates that this is not a typical anonymous login. A search of the event logs from other Windows 2012 R2 servers did not reveal a single logon type [REDACTED] anonymous log entry that did not record these log data elements.



*Figure 21-Atypical Remote Anonymous Access to EMS Server*

Without access to the network data, it is impossible to determine the origin of these successful atypical remote anonymous logons. The fact that there effectively was no user account and password controls resulting in shared user accounts and passwords, coupled with the lack of network data, makes it impossible to determine if these accesses were legitimate or unauthorized without the network data. This portion of the audit is therefore not yet complete.

#### 6.5.5 DUAL BOOT SYSTEM DISCOVERED

**Likelihood:** Medium    **Impact:** Medium

Analysis of the system labeled Adjudication 2 (CyFIR evidence designation AZAud-E-087) revealed that this system contained two bootable hard drives. These two hard drives were subsequently labeled One of the AZAud-E-087-1 and AZAud-E-087-2. Neither security audit contracted by the Maricopa County noted this finding in their report.

##### 7.5.5.1 ANALYSIS OF AZAUD-E-087-1 DETERMINED THE FOLLOWING:

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Configured to communicate with an SMTP server address of [REDACTED] in the Dominion Voting Systems NLog.config file. Note: the nslog.config files on this system also contained clear text passwords, one of which was the password for the emsdbadmin account.

##### 7.5.5.2 ANALYSIS OF AZAUD-E-087-2 DETERMINED THE FOLLOWING:

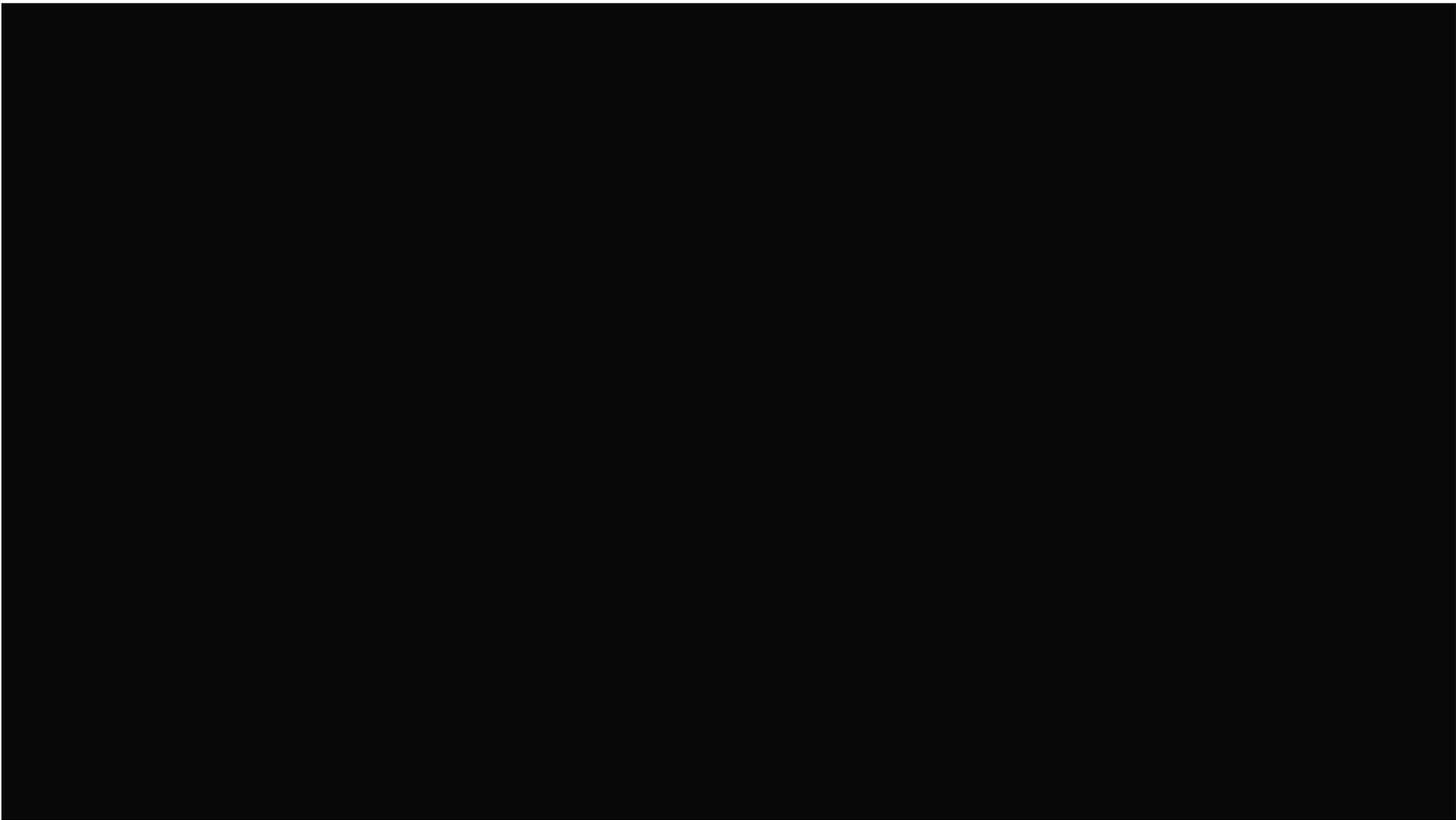
[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

The discovery of a system with a dual boot configuration is a significant finding. First, it demonstrates a failure in the hardware configuration management of the Maricopa County election systems. Second, two bootable hard drives within the same system, under certain circumstances would create a situation where one operating system could act as a “jump box” where one system could access the internet and the other system would be restricted to an isolated network. This is commonly called a dual homed access and could have provided an access route into the voting system network. Without the router data, historical Splunk data and NetFlow data, we cannot complete the full analysis of the impact of this dual boot computer. Neither of the two audits performed by Maricopa County detected or reported this additional, bootable hard drive on the Adjudication 2 system.



6.5.6 EMS OPERATING SYSTEM LOGS NOT PRESERVED

**Likelihood:** Low      **Impact:** High

The Windows event logs that were present on the EMS Server that was produced by Maricopa County contain Windows security event logs (██████████). This file records the Windows operating security events for the EMS server including all user accesses, whether those accesses are from the local system itself or from accessing the system remotely. This log file was restricted by a policy set by Maricopa County to a file size of 20,480KB (20MB). The logging activity was set to automatically overwrite the existing log entries if the security file exceeded this size. The overwrite action would write a new log entry and delete the oldest entry in the log file. In the case of the security.evtx file on the EMS server, the earliest retained log entry was dated 2/5/2021 10:37:49 AM (the last day of the Pro V & V audit) and the latest entry was dated 4/12/2021 4:53:16 PM. The logs were not preserved and did not cover the dates for the general election (3 November 2020). An examination of the EMS and other systems involved in the 2020 General Election did not discover any enabled external log aggregation functionality nor were historical logs beyond those that were contained on the operating systems provided to the digital examination team. The security access logs were not preserved and were overwritten.

The screenshot shows a configuration window for 'Policy Settings EMS Security.evtx'. It includes a checked checkbox for 'Enable logging'. Below it is a text box for 'Maximum log size ( KB )' with the value '20480'. Underneath is a section titled 'When maximum event log size is reached:' with three radio button options: 'Overwrite events as needed (oldest events first)' (which is selected), 'Archive the log when full, do not overwrite events', and 'Do not overwrite events ( Clear logs manually )'.

Figure 22-Policy Settings EMS Security.evtx

#### 6.5.6.1.1 User Log Deletions on 2/11/2021

A user leveraging the emsadmin account remotely logged into the EMS server at 2/11/2021 9:08:27 AM via terminal services and began executing a script at 2/11/2021 9:09:04 AM that checked accounts for blank passwords. The event logs record this connection as originating from a system with the IPV6 address of [REDACTED], which is a local network IPV6 address. Between 2/11/2021 8:09:04 AM and 2/12/2021 7:12:55 AM this user ran this check 462 times. Each time the check was performed a new line was added to the security log, which had the effect of deleting the oldest entry in the log file due to the previously mentioned log size limitation setting. 462 older log entries were deleted via this method.

#### 6.5.6.1.2 User Log Deletions on 3/03/2021

A user utilizing the emsadmin account remotely logged into the EMS server at 3/3/2021 11:12:31 AM and began executing a script at 3/3/2021 11:13:44 AM that checked accounts for blank passwords. The event logs record this connection as originating from a system with the IPV6 address of [REDACTED], which is a valid IPV6 local network address. Between 3/3/2021 11:12:31 AM and 3/5/2021 7:58:04 AM this user ran the script 37,686 times. Each time the check was performed a new line was added to the security log, which had the additional effect of deleting the oldest entry in the log file due to the previously mentioned log size limitation setting. 37,468 older log entries were deleted via this method.

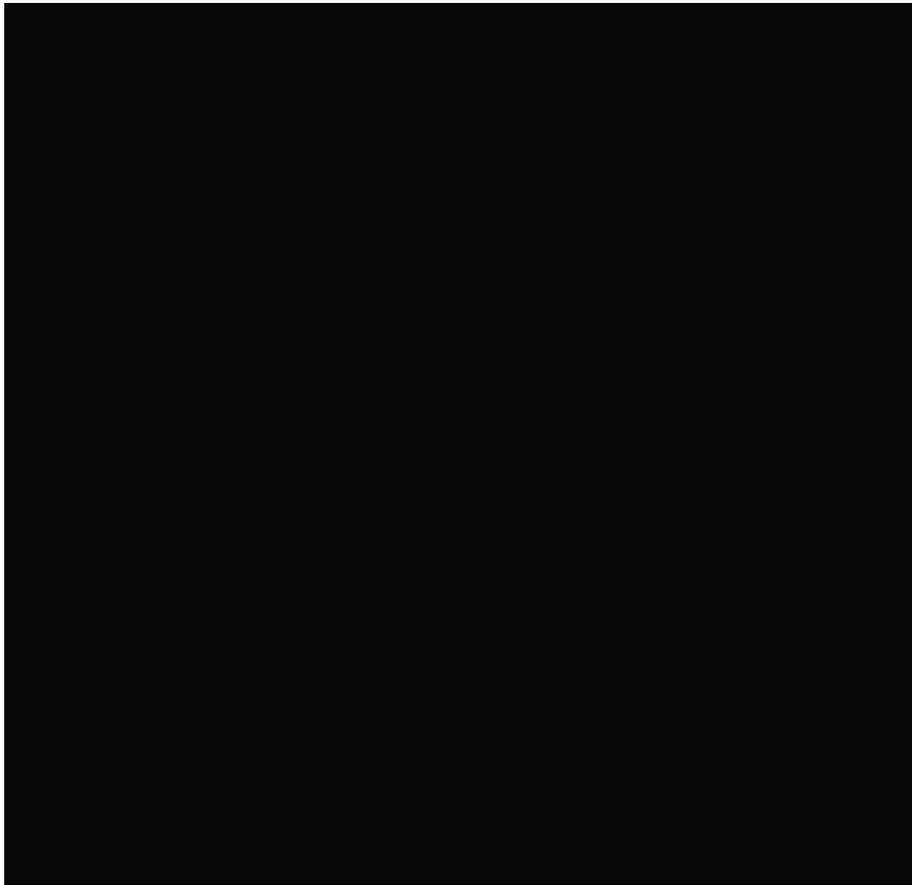
This was 14 days after the Arizona State Senate described the risk of evidentiary loss due to continued use of election equipment, and 6 days after Judge Thomason ruled that the subpoena needed to be complied with.



*Figure 23-3 Identified but Unnamed Individuals at the keyboard at 3/3/2021 at 11:06AM*

6.5.6.1.3	User Log Deletions on 4/12/2021
-----------	---------------------------------

A user utilizing the emsadmin account began executing a script at 4/12/2021 1:39:38 PM to check accounts for blank passwords. Between 4/12/2021 12:39:38 PM and 4/12/2021 12:45:13 PM this user ran this check 330 times. Each time the check was performed a new line was added to the security log, which had the additional effect of deleting the oldest entry in the log file due to the afore mentioned log size limitation setting. 330 older log entries were deleted via this method.



*Figure 24- County Employee at the EMS Keyboard on 4/12/2021 at 12:39PM  
the time of the last blank password check was run.*

### 7.5.5 INTERNET CONNECTIONS

**Likelihood:** Medium    **Impact:** Medium

The Maricopa County Board of Supervisors has repeatedly stated that the network connecting the election /voting systems is an isolated network that has no ability to connect to the internet. An in-depth analysis of both the allocated and unallocated space of the EMS, EMS workstations, Adjudication Workstations and other elements of the election system has definitively proven that this is not the case. There were hundreds of connections to public internet sites recovered from the unallocated areas of the hard drives. For the purpose of this report, only internet connection artifacts that contained valid dates after the installation of the Dominion Software suite on 8/6/2019 were included in this report. Additionally, for the purposes of this report only sites that have been visited multiple times were reported to avoid false reporting of default internet histories. Given that the Dominion Software suite was installed on 8/6/2019, no internet history URL visit dates should exist after that date.

The county did not provide a network diagram, a function diagram or any other documentation to determine if in fact a given system was supposed to be connected to the internet. Public statements by the county made clear that no election related system was connected to the internet. For the purposes of the internet examination, auditors used this statement as the starting point to prove or disprove that there was internet connectivity accessible to the systems provided by the county as a result of the subpoena. In the course of the examination definitive evidence was recovered that the EMS, EMS Client 1, EMS Client 3, EMS Client 4, REWEB 1601, and the REGIS 1202 systems had access to the internet after the installation of the Dominion voting software suite was installed on 8/6/2019. Given the nature of unallocated space analysis this is by no means a complete recovery of all internet history, but is definitive for the recovered internet artifacts on the dates and times indicated.

#### 6.5.6.2 INTERNET CONNECTIONS TO THE EMS

The EMS Server had 3 connections on 2/2/2021 to the URL [REDACTED]

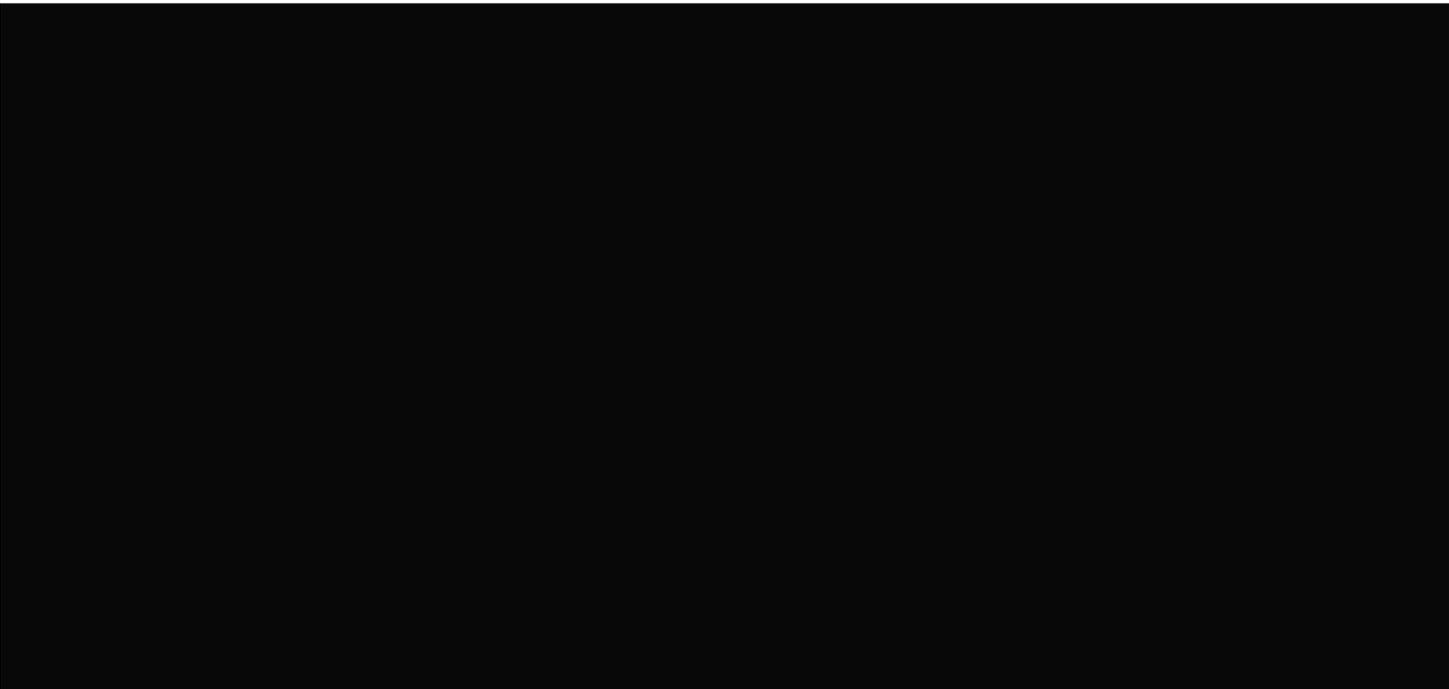
[REDACTED]

#### 6.5.6.3 INTERNET CONNECTIONS TO THE EMS CLIENT 1

The EMS Client 1 had 9 Connections to the internet between 2/7/2020 and 2/22/2021, specifically to the go.microsoft.com and www.bing.com URL's.

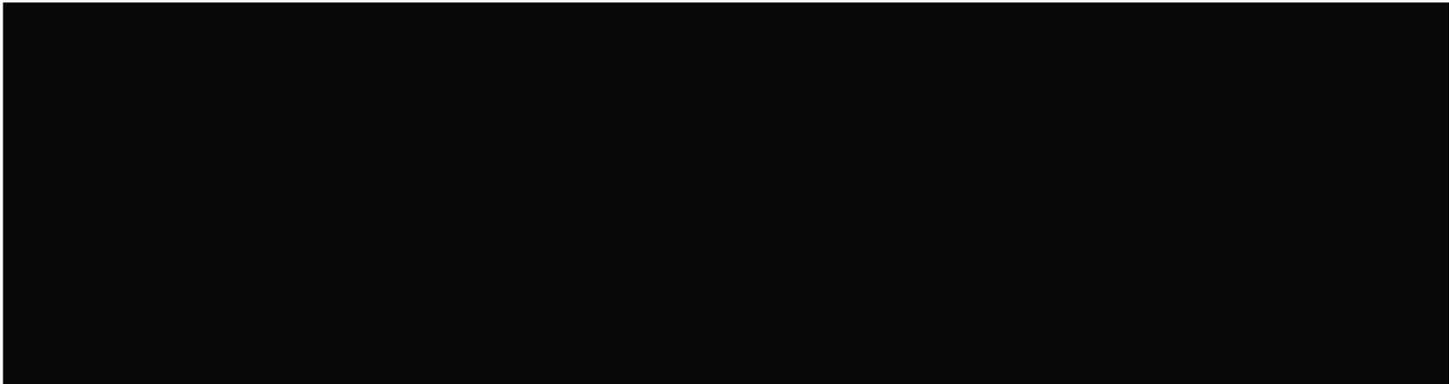
[REDACTED]

In addition to the HTTP(S) connections, there were 51 records recovered that contained 143 connections to an internal device that was not produced by Maricopa County with an IP address of [REDACTED].



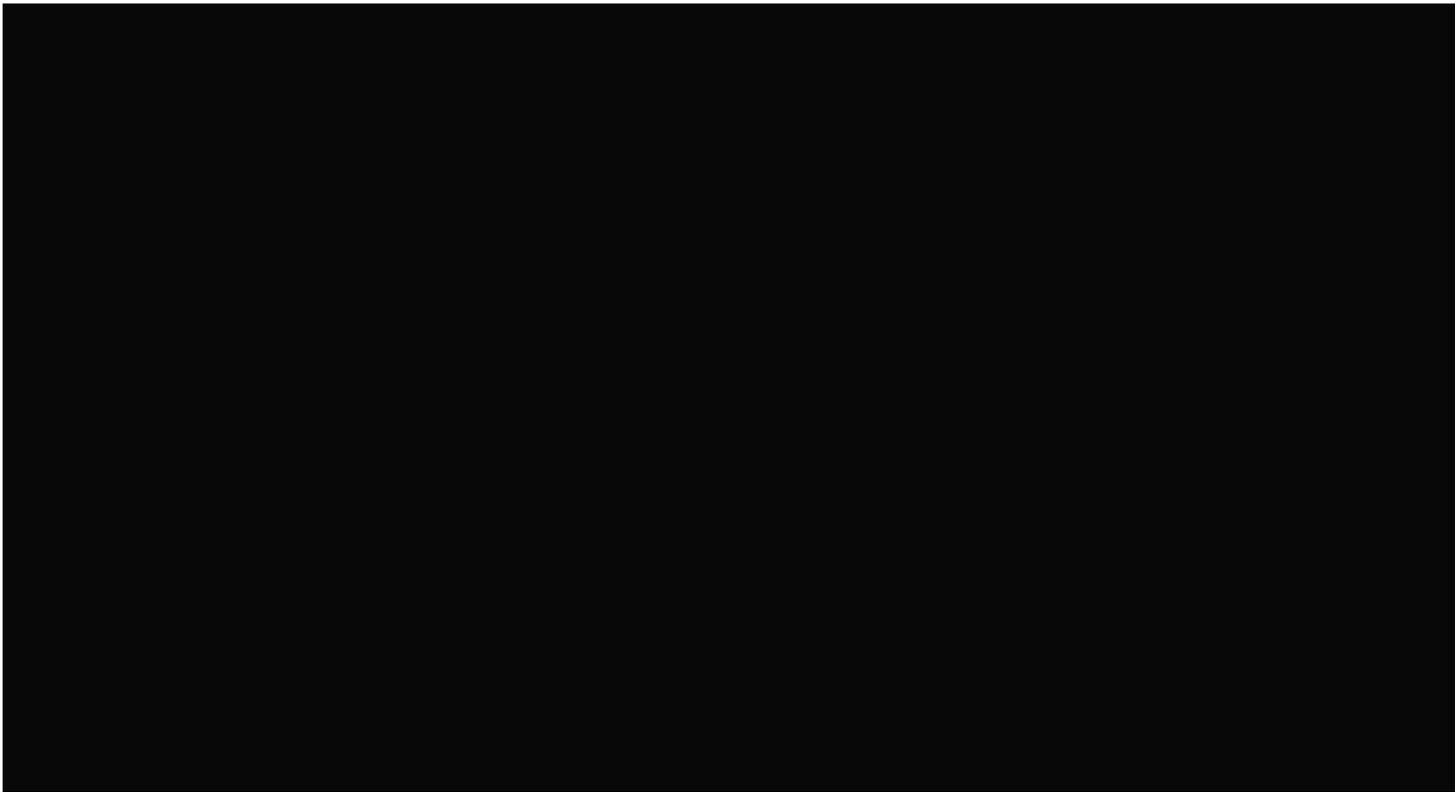
#### 6.5.6.4 INTERNET CONNECTIONS TO THE EMS CLIENT 3

The EMS Client 3 had 6 Connections to the internet to the go.microsoft.com URL.



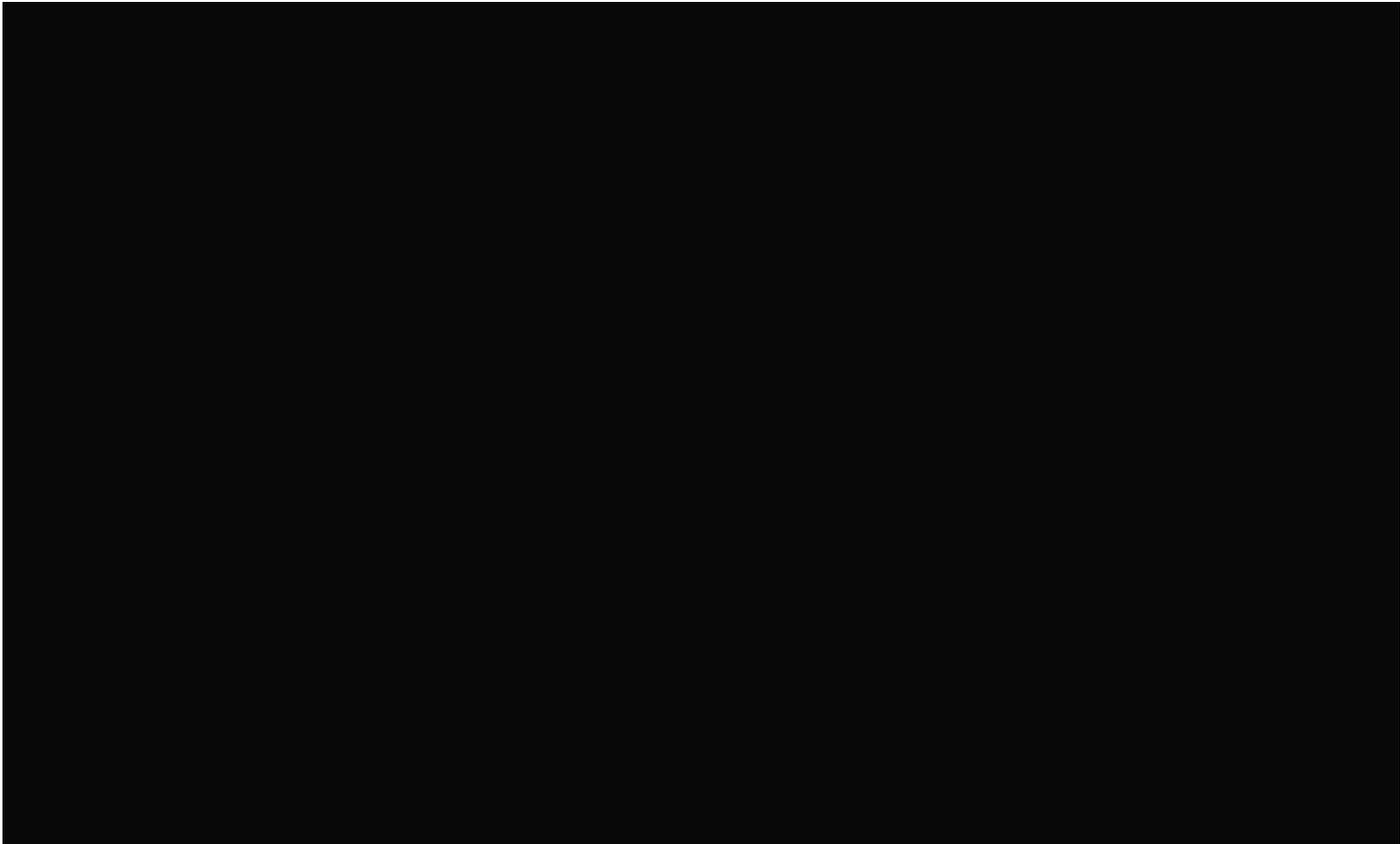
#### 6.5.6.5 INTERNET CONNECTIONS TO THE REWEB 1601 SYSTEM

The county provided what was represented as a “forensic image” of the system with the hostname [REDACTED]. This in fact was not an actual forensic image, but rather a copy of the hard drive on a 4TB external drive. It is unknown what actions were taken by the County to ensure that the drive was wiped prior to the system copy. A carve for internet history artifacts recovered 890 internet records, each with multiple visit iterations for public URL connections including foxnews.com, maricopa.gov, Microsoft.com, msn.com and adnxs.com.



#### 6.5.6.6 INTERNET CONNECTIONS TO THE REGIS 1202 SYSTEM

The county provided what was represented as a “forensic image” of the system with the hostname REGIS 1202. This in fact was not an actual forensic image, but rather a copy of the hard drive on a 4TB external drive. It is unknown what actions were taken by the County to ensure that the drive was wiped prior to the system copy. A carve for internet history artifacts recovered 205 internet records, each with multiple visit iterations for public URL connections including maricopa.gov, Microsoft.com, and logons to the localhost.



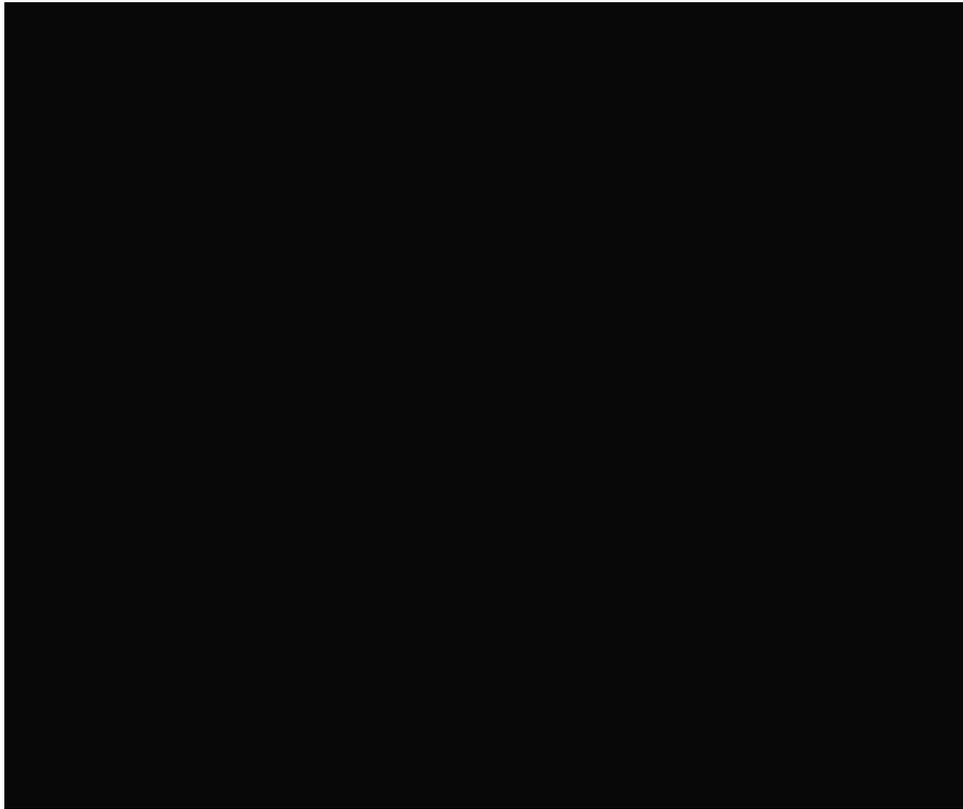
## 7.6 Low Findings

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### 7.6.1 ELECTION DATA FOUND FROM OTHER STATES

**Likelihood:** Low      **Impact:** Medium

The Maricopa County Adjudication 2 system had two bootable hard drives. The drive identified as [REDACTED] contains a directory [REDACTED]. Inside of that directory are subdirectories that appear to contain data from other jurisdictions and what appears to be demonstration data. Specifically, these directories are named [REDACTED]. One can reasonably assume that WA is an abbreviation for Washington and SC is an abbreviation for South Carolina. There is no known need for this external data to be located on a Maricopa County adjudication system. Neither of the two audits performed by Maricopa County reported this finding.

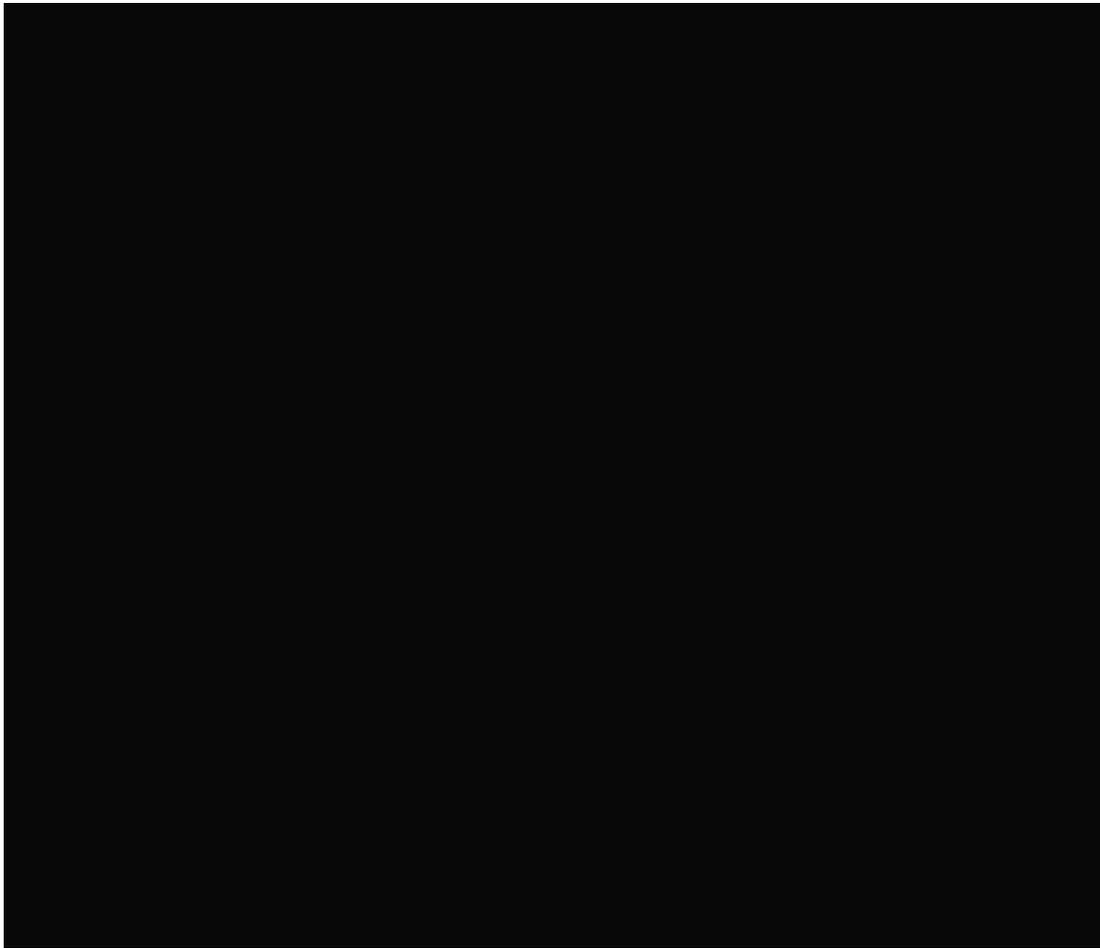




*Figure 26-General with Variable SP Directory*



*Figure 27-SC Cert Cookie General Directory Structure*



*Figure 29-Special Election with Fusion Directory*



*Figure 28 - WA Cert General 2018 vA Directory*

## 7 ABOUT CYBER NINJAS

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Cyber Ninjas is an application security consulting company specializing in ethical hacking, training, and security program development. Our staff represents over 10 years of experience in a variety of areas including application support, development, product management, and application security. This experience across all areas of the software development life cycle gives us a unique perspective on how to build security into your existing processes. With everything we do, our goal is to build the knowledge within your organization. We strongly believe that "Security comes with knowledge," and that it is our job as Cyber Ninjas to train and teach through every engagement to build up capabilities within your organization.

**From:** Wendy Rogers <wendyjrogers@gmail.com>  
**Sent:** Tuesday, September 14, 2021 1:07 PM EDT  
**Subject:** Fwd: //Action Item//Election Integrity Caucus  
**Attachment(s):** "Election Integrity Caucus Statement.docx - Google Docs.pdf"

**CAUTION:** External email.

State legislators:

Ensuring you received this.

Wendy Rogers, Lt Col USAF (ret)  
Senator LD6 Flagstaff Arizona

[Gab](#)  
[Facebook](#)  
[Twitter](#)  
[Telegram](#)  
[GETTR](#)

----- Forwarded message -----

From: **Wendy Rogers** <wendyjrogers@gmail.com>  
Date: Mon, Sep 13, 2021 at 10:03 PM  
Subject: //Action Item//Election Integrity Caucus  
To:

Dear fellow state legislators,

When the Arizona Audit report comes out any day now, we must be ready to respond immediately.

Attached is the letter I intend to sign. **Please message me back only if you, as an elected official, would like to sign the letter below.** We need to have this WITH STATE LEGISLATORS' SIGNATURES at-the-ready once the Arizona report is made public. We must command the narrative before the Left does. **Simply tell me if you are a YES.**

We have put a lot of thought and effort into crafting this letter into just how it is. Attorney Christina Bobb of OAN assisted us in this effort.

Please do not message me back if you are a NO or if you are undecided. We can discuss this on the call tomorrow, but the letter goes out as is. Thank you.

In service,  
Wendy

Wendy Rogers, Lt Col USAF (ret)  
Senator LD6 Flagstaff  
[Gab.com/WendyRogersAZ](#)  
[Facebook.com/WendyRogersAZ](#)  
[Twitter.com/WendyRogersAZ](#)

**ZOOM CALL**  
**Tuesday 14 Sep 21 at 7:30pm EDT**  
**AZ State Rep Mark Finchem leading the call**

Join Zoom Meeting

<https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MWlvMWlqdz09>

Meeting ID: 872 8867 1016

Passcode: 511178

-----  
One tap mobile

+13017158592,,87288671016#,,,,\*511178# US (Washington DC)

+13126266799,,87288671016#,,,,\*511178# US (Chicago)

Dial by your location

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

+1 646 558 8656 US (New York)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 720 707 2699 US (Denver)

<https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MWlvMWlqdz09>

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To the citizens of the United States of America,

We the undersigned state legislators of the United States are vested with the plenary power by our US Constitution (Article 2 Section 1 Clause 2) to oversee the election of the president of the United States.

It has come to our attention from an audit of 2.1 million ballots in Arizona complemented by an in-depth canvass of votes in Arizona, as well as through multiple different data reviews of voting by independent experts; that our representative republic suffered a corrupted 2020 election.

In addition to Arizona, sworn affidavits have accumulated from our own states detailing rampant corruption and mismanagement in the election process. Multiple audits either underway or about to start, canvasses underway or about to start, and lawsuits challenging the validity of several counties in our states, have already shown fraud and inaccuracies.

We have come to the conclusion that all 50 states need to be forensically audited. Voter rolls should be scrubbed with a canvass of the voters to ensure future integrity of our elections.

If results from these measures prove an inaccurate election was held, as has been shown in Arizona, and is being shown in many other states; then it is clear that certification of our electors was improperly rendered in January 2021 of the November 2020 United States presidential election.

We call on each state to decertify its electors where it has been shown the elections were certified prematurely and inaccurately.

Once it is shown that either Joe Biden would receive fewer than 270 tallied electoral votes, or Donald Trump would receive more than 270 electoral votes, then we call for the US House of Representatives to convene and vote per the US Constitution by means of one vote per state to decide the rightful winner of the election in accordance with the constitutional process of choosing electors.

This is our historic obligation to restore the election integrity of the vote as the bedrock of our democratic republic.

If we do not have accurate and fair elections, we do not have a country.

Signed,

Senator Wendy Rogers, Arizona

**From:** Ryan Mckeller <RyanMckeller1990@live.com>

**Sent:** Friday, August 13, 2021 3:27 PM EDT

**To:** Klippert, Rep. Brad <Brad.Klippert@leg.wa.gov>; Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; jim <jamesakagi@yahoo.com>; Walsh, Rep. Jim <Jim.Walsh@leg.wa.gov>

**Subject:** Fwd: Audit update: We Must Decertify! ☐

**CAUTION:** External email.

Get [Outlook for iOS](#)

**From:** Lt. Col. Wendy Rogers <wendy1@wendyrogers.org>

**Sent:** Friday, August 13, 2021 12:01 PM

**To:** Ryan Mckeller

**Subject:** Audit update: We Must Decertify! ☐

Hi Ryan,

Maricopa is under investigation.

Over 115,000 patriots have crashed my website to sign my petition to decertify the 2020 Arizona election. I am shooting for a minimum of 1 million signatures because I want to show that we have the people with us when I go on my TV interviews.

The Audit is not yet complete. There will be more to come.

As you may have heard, I'm Arizona State Senator Wendy Rogers. I am an Arizona State Senator, fighting for election integrity in Arizona and standing strong amid the storm! [Please help me continue to fight for America's Audit!](#)

**The Attorney General of Arizona has launched an investigation into Maricopa County amid its supervisors' refusal to heed a valid subpoena!**

*On Friday, Attorney General Mark Brnovich opened an investigation into Maricopa County's failure to comply with valid and enforceable legislative subpoenas as requested by Arizona State Senator Sonny Borrelli.*

*Attorney General Brnovich sent notice to Maricopa County with a request for a written response from the Maricopa County Board of Supervisors by 5:00 p.m. on Friday, August 20, 2021.*

Those hiding the fraud of 2020 will be held to account.

That's why I'm calling for Arizona to decertify the election. This charade has gone on long enough.

The good news? Patriots from around the country are with us- and the movement to audit the 2020 election is growing!

Last week, so many patriots signed my petition that my website crashed.

*The petition to decertify the Arizona election started by State Sen. Wendy Rogers (R-AZ) has reached over 100,000 signatures, as the movement to secure election integrity within the state continues to gather momentum. Roger's website had been driven offline by high traffic demand for the petition on last week, but has since been restored.*

*"We have 107,918 signatures now," Rogers posted to Twitter on Monday. "Over 10% there. I want to have 1 million signatures to show support for decertification. Please share this and also send to everyone you know."*

But here's the key thing: the results from the audit in Arizona are emboldening state legislatures all over to do the same! I am working with other states - we just need ONE STATE to decertify and it will start a domino effect.

I have been calling to #AuditAll50States because they can't stop ALL of us.

### **The latest? Georgia has begun an audit and serious scrutiny of Fulton County's blatant fraud.**

*According to Georgia state law, if a voter "cast more than the permitted number of votes" on a ballot, it is considered "spoiled," and the vote "shall not be reinstated."*

*Each ballot also has a disclaimer that reads, "If you make a mistake or change your mind or change your mind on a selection do not attempt to mark through the selection or attempt to erase. Write 'Spoiled' across the ballot and across the return envelope" and request a new ballot.*

*But thousands of such votes, called overvotes, originally rejected by vote-counting machines, were later altered by election workers and recounted in Fulton, County, Georgia, reports Just The News.*

*Because of widespread absentee voting, adjudication played a much larger role in 2020 than in past elections. For example, over 5,000 of the 148,000 absentee ballots cast in Fulton County required adjudication, according to logs acquired by Just The News.*

That's not all. Wisconsin, Pennsylvania, and Nevada are also making moves to audit their 2020 elections, in part.

**It's happening.**

---

**We have lighted a fire that is spreading across the country. States that saw a great deal of suspicious activity in the 2020 election are finally getting answers, just as Arizona did.**

But there's so much more to do. The lying globalists, communists, and fraudsters stole this election and we are fighting back. [Will you help me persevere to get to the truth about this election?](#)

We can get the truth out of Maricopa. We can get the truth out of Fulton County. We can get the truth out of Milwaukee, we can get the truth out of Philadelphia.

But only if we keep going!

The Left is fighting the Audit because they are afraid of what it exposes. [Help us finish this process!](#)

We are cleaning our elections up. It's not always pretty, but it's effective! [Join our fight and help us stop the fraud!](#)

Thank you so much.

America First,

---

Wendy Rogers, Lt Col USAF (ret)  
Arizona State Senator  
Arizona's 6th Legislative District

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PAID FOR BY WENDY ROGERS FOR AZ SENATE

Wendy Rogers is a retired member of the Air Force. Use of military rank, job titles, and photographs in uniform does not imply endorsement by the Department of the Air Force or the Department of Defense.

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**Our mailing address is:**

Wendy Rogers for AZ Senate  
2700 S Woodlands Village Blvd Ste 300-242  
Flagstaff, AZ 86001-7128

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Want to change how you receive these emails?  
You can [update your preferences](#) or [unsubscribe from this list](#).

**CAUTION:** This email originated from outside of the Legislature. Do not click links or open attachments unless you recognize the sender and know the content is safe.

**From:** Wendy Rogers <wendyjrogers@gmail.com>  
**Sent:** Saturday, August 28, 2021 8:41 AM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** Fwd: Election Integrity Caucus  
**Attachment(s):** "Skagit County NCOA Discrepancies.docx"

**CAUTION:** External email.

FYI

Wendy Rogers, Lt Col USAF (ret)  
Senator LD6 Flagstaff  
[Gab.com/WendyRogersAZ](http://Gab.com/WendyRogersAZ)  
[Facebook.com/WendyRogersAZ](https://Facebook.com/WendyRogersAZ)  
[Twitter.com/WendyRogersAZ](https://Twitter.com/WendyRogersAZ)

Begin forwarded message:

**From:** bill allan <bill@contractwithwa.com>  
**Date:** August 28, 2021 at 8:15:05 AM EDT  
**To:** Wendy Rogers <wendyjrogers@gmail.com>  
**Subject:** Election Integrity Caucus

I was the one at the CS in SD that offered up the URL's. Our team is conducting a Public Hearing in Bow WA. This is a 3hr public hearing and will be LiveStreaming. It begins at 4pm Sunday 29th. We are setting up today and once I have a LiveStreaming link I will forward it on to you. Attached is just one County in WA and the data our team has compiled. There is a group that we work with compiling this same data across 30 states and we need your help connecting us to Legislators. See attached Doc. We have this deeper details in excel spreadsheet but cannot share as it contains names and must be encrypted when sharing.

**CAUTION:** This email originated from outside of the Legislature. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Sent from my iPhone

# Skagit County

*The following information is based on a National Change of Address (NCOA) Update which compares mailing addresses with USPS delivery data. This NCOA data defines and reports on*

- residents and businesses who file a Change of Address (COA) with the USPS that also includes their new addresses both domestic and foreign,*
- questionable, bad and non-existing addresses,*
- vacant addresses,*
- addresses where the residents/voters are not listed as registered at within the USPS data*
- and many other potential issues.*

*Please note that while much of this information is correct some will not be so each potential discrepancy must be investigated and verified through research and in person canvassing.*

**820 Voters, who voted on 11/03/2020, and who are listed as moved on or before Sept 1<sup>st</sup>, 2020 or earlier. This data goes back to 01/01/2017.**

**Voters who move in 2017: 63**

**Voters who move in 2018: 101**

**Voters who move in 2019: 122**

**Voters who move in 2020 on or before Sept 2020: 534**

**Total Voters who moved on or before Sept 2020 then voted from their previous address: 820**

*Please note that the USPS will only forward mail to a new COA address for a maximum of 1 year.*

*Also please note that all Temporary Change of Addresses (COA) filed, with the USPS, have been scrubbed from this data. This data only includes information on voters who filed a Permanent COA and the data only goes back for 4 years or Jan 1st, 2017 (Tab VotersMvdBefore11-3-2020).*

**107 Voters, who voted on 11/03/2020, are listed at addresses that was verified in the NCOA database but the voter listed at the address no longer resides there (Tab ReturnCode23).**

**231 Voters, who voted on 11/03/2020, and whose mailing addresses are listed as foreign addresses that are not U.S. Military or Diplomatic Post Offices. Also 10 of these voters, in foreign nations, have only listed the nation as their addresses. These voter's mailing addresses have no towns, cities, streets addresses, or mailboxes listed (Tab ForeignMailAddress).**

**25 Voters, who voted on 11/03/2020, listed at addresses that were found in the National Database but there were multiple occurrences of the address because of a missing address element.**

**For example, the delivery address was entered as 113 Maple St. but the actual addresses within the designated zip codes are 113 N Maple St. or 113 S Maple St (Tab ReturnCode22).**

## Skagit County

18 Voters, who voted on 11/03/2020, whose residential addresses are listed at Commercial Mail Receiving Agency (CMRA) such as FedEx and UPS operations that provide mailbox addresses (Tab CMRA).

12 Voters, who voted on 11/03/2020, whose residential address is General Delivery. (Tab GeneralDelivery).

*Skagit County is the only county in Washington State that has voter's residences listed as PCNTs as listed in the following information.*

14 Voters, who voted on 11/03/2020, listed at Address 0 ANACORTES PCNT ANACORTES, WA 98221

10 Voters, who voted on 11/03/2020, listed at Address 0 LA CONNER PCNT LA CONNER, WA 98257

8 Voters, who voted on 11/03/2020, listed at Address 0 MOUNT VERNON PCNT MOUNT VERNON, WA 98273

7 Voters, who voted on 11/03/2020, listed at Address 0 BURLINGTON PCNT BURLINGTON, WA 98233

4 Voters, who voted on 11/03/2020, listed at 0 SEDRO-WOOLLEY PCNT SEDRO-WOOLLEY, WA 98284

2 Voters, who voted on 11/03/2020, listed at Address 0 MARBLEMOUNT PCNT MARBLEMOUNT, WA 98267

1 Voter, who voted on 11/03/2020, listed at 0 CONCRETE PCNT CONCRETE, WA 98237

1 Voter, who voted on 11/03/2020, listed at 0 LYMAN PCNT LYMAN, WA 98263

**From:** Debbie Gwynn <debbie@chaseforva.com>  
**Sent:** Saturday, October 02, 2021 1:55 PM EDT  
**To:** amanda chase <amanda@chaseforva.com>  
**CC:** Debbie Gwynn <debbie@chaseforva.com>  
**Subject:** Fwd: Information Sharing from Last Update Call  
**Attachment(s):** "Cyber Ninjas Presentation 1.key","Cyber Ninjas Presentation 2 2.key","Cyber Ninjas Report, Vol. III.pdf","Cyber Ninjas Presentation 1.pptx"

CAUTION: External email.

Hello Everyone,

Following is the information we told you we would share on our last call.

This is the letter that has been drafted to be sent out by the NEIC. It does have similarities to the letter that Wendy Rogers had circulated, along with edits that were recommendations from caucus members. Please feel free to review and provide feedback on whether you can agree to sign off on the letter. We'd like for everyone to have a say so, and be in agreement on this before it goes out.

## Election Integrity Caucus

Chair: Senator Amanda Chase

Debbie Gwynn, Executive Assistant

[debbie@chaseforva.com](mailto:debbie@chaseforva.com)

804 393 2715

September 30, 2021

To the citizens of the United States of America,

We the undersigned state legislators of the United States are vested with the plenary power by our US Constitution (Article 2 Section 1 Clause 2) to oversee the election of the president of the United States.

“Each State shall appoint, in such Manner as the Legislature thereof may direct, a Number of Electors, equal to the whole Number of Senators and Representatives to which the State may be entitled in the Congress: but no Senator or Representative, or Person holding an Office of Trust or Profit under the United States, shall be appointed an Elector.”

It has come to our attention from an independently administered forensic election audit of 2.1 million ballots in Maricopa County, Arizona that the results of the 2020 election in Arizona should not have been certified due to a number of questionable and unexplainable actions taken by the Maricopa County Board of Supervisors to include:

obstruction of an audit sanctioned by the Arizona Senate, deletion of data immediately prior to the audit, corrupted images and refusal to turn over subpoenaed routers and tokens.

In addition, an in-depth canvass of votes in Arizona, as well as through multiple different data reviews of voting by independent experts conclude that there is enough reasonable maladministration to call into question the results of the Arizona 2020 election results and subsequently its electors.

It is clear that certification of Arizona electors were improperly rendered in January 2021 of the November 2020 United States presidential election and we call for a complete nullification of Arizona's electors.

Arizona is not the only state that has experienced an unusually high number of irregularities. Sworn affidavits have accumulated from many states detailing rampant corruption and mismanagement in the election process. Multiple audits are either underway or about to start, canvasses underway or about to start, and lawsuits challenging the validity of several counties in our states, have already shown maladministration and significant inaccuracies.

We have come to the conclusion that all 50 states need to be forensically audited as similar patterns are being discovered across the country. We must restore voter confidence in our election system that was compromised when guardrails were taken off of our election systems in the name of "covid related safety precautions". These safeguards must be restored. Voter rolls should be scrubbed with a canvass of the voters to ensure future integrity of our elections.

We cannot continue as if nothing happened. It is incumbent upon each state to ensure every legal vote is counted so that voters can trust that those elected were truly elected by the people. We must restore voter confidence as election integrity is the foundation of our republic and the peaceful transfer of power.

We the undersigned are legislators committed to seeking full forensic audits in our respective states, introducing risk limiting legislation to ensure fair and transparent elections, and working closely with organizations within our respective states to restore election integrity.

Signed,

Senator Amanda Chase, Virginia

~~~~~  
The first set of attachments is the Cyber Ninjas Presentation, volumes 1, 2, & 3.

**CAUTION:** This email originated from outside of the Legislature. Do not click links or open attachments unless you recognize the sender and know the content is safe.

~~~~~  
Here is the Executive Summary provided to us by Sonny Borrelli:

~~~~~  
Here are the recommendations provided by the Cyber Ninja's for submission of new legislation you may want to consider submitting in your next session.

## 3 RECOMMENDATIONS

The following sections outline the key recommendations that were determined over the course of this audit.

### 3.1 Result Reconciliation

Legislation should be considered that does not allow an election to be certified until the Official Canvas and the Final Voted File is fully reconciled. Furthermore, full records for every ballot sent, ballot received, ballot rejected, and ballot voided should have to be fully reconciled within a defined period after the election.

### 3.2 Voter Registration

Legislation should be considered that requires voter rolls to be entered in an individual's full legal name and adds accountability for Counties that enter rolls in any other format.

### 3.3 Voter Rolls

Legislation should be considered that links voter roll registration to changes in driver's licenses or other state identification, as well as requiring the current voter rolls be validated against the United States Postal Service (USPS) National Change of Address (NCOA) at a predefined period prior to every election. Any voter roll software should validate that there is only one entry in the state database per identification number, such as a driver's license number.

Laws already exist for interstate reporting of changes in residence, addresses, and driver's licenses. Tying voter roll registration to these forms of identification would greatly increase the likelihood that voter registration details would be kept up to date. Individuals are more likely to remember their license needs to be updated immediately than voter registration, and since most states now offer the ability to register to vote when getting a license, license updates could also update voter rolls.

It is recommended that the voter rolls be validated against the NCOA both 90 days or more prior to the election, in addition to a week before mail-in ballots are sent out. This check would not be utilized to purge the rolls, but to validate that a mail-in ballot should be sent prior to that ballot going out. The legislature may also want to consider whether a change of address should suspend Permanent Early Voting List (PEVL) enrollment.

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In addition, legislation should be considered to require the voter rolls to periodically be compared against ERIC, the Social Security's Master Death List, or other commercially available tools that give access to this information. Failure to do this at least once a year should result in penalties for a county.

### 3.4 Election Software

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. Specifically, it is recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years. Part of this testing should be explicitly testing an programming interface access to validate that no external party has the capability to manipulate the voter rolls.

Furthermore, it should be required that whoever builds the software be required to rotate vendors doing the OWASP ASVS Level 3 assessment a minimum of once every four years, with a rotation of no less than three vendors before returning back to a vendor utilized in the past.

The vendor who performs this work must be willing to attest that their assessment fully covered the ASVS Level 3 requirements that there are no critical or high vulnerabilities detected, and that there is a remediation plan for any moderate risk vulnerabilities.

### 3.5 Voting Machines

Legislation should be considered that would prohibit connecting tabulators, or the Election Management System Servers or similar equipment from being connected to the internet or any other mechanism that could allow remote access to these systems.

Furthermore, County employees should have access to all administrative functions of all election equipment and have sufficient access to independently validate any configuration items on the device without requiring the involvement of any 3<sup>rd</sup> party vendor.

In addition, electronic voting machines must always have a paper backup of all ballots which can be used to confirm that votes were cast as intended; and these machines must be regularly maintained according to the vendors recommended maintenance schedule.

Legislation should be considered that would require that paper stocks utilized on election day conform to manufacturer recommendations to ensure that the paper that has been tested in the device is what is actually utilized to cast votes.

Legislation should be considered that requires following all CISA Guidelines for Election Systems and Equipment, the documentation of any variations among these guidelines, and the signing off on a risk memo by the appropriate party for any derivations from those guidelines.

Legislation should be considered which requires the assignment of individual usernames and passwords for all election related equipment and matters.

### 3.6 Election Audits

Legislation should be considered that creates an election audit department in charge of regularly conducting audits on a rotating basis across all counties in Arizona after elections. This department should validate that the County follows all processes and procedures outlined in the Elections Procedure Manual (EPM), and have the ability to penalize the County for repetitive EPM failures, or other failures that make auditing more difficult.

Legislation should be considered that requires batches of ballots to be clearly labeled, separated from each other in a manner where they cannot easily mix together, and easily connected to the batches run through the tabulation equipment for easy auditing of the system.

Legislation should be considered to penalize purposely inhibiting a legislative investigation, or an officially sanctioned audit of an election.

### 3.7 Ballots

Legislation should be considered that will make ballot images and the Cast Vote Record artifacts from an election that is published within a few days of the results being certified for increased transparency and accountability in the election process.

Legislation should further be considered that would require all ballots to be cast on paper by hand utilizing paper with security features such as watermarks or similar technology; with a detailed accounting of what paper(s) and the quantities utilized for any given election cycle.

Mail-in voting should incorporate an objective standard of verification for early voter identification, similar to the ID requirements required for in person voting.

Please let us know if you have any questions.

*Amanda Chase*

Virginia State Senator Amanda Chase/804-370-8727

District 11, Chesterfield/Amelia/Colonial Heights

Debbie Gwynn, Exec. Assistant

804-393-2715

# Unable to Process

Maricopa County:

# Forensic Election Audit



# Introduction





# Introduction – MC Forensic Audit



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# Introduction – MC Forensic Audit

## Overview



- 2.1M ballots processed by hand
- Over 1,500 people involved
- Over 100,000 hours of time contributed

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## Introduction – MC Forensic Audit



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## Introduction – MC Forensic Audit

### Security



- The perimeter was secured at the coliseum
- COVID checks & access validation
- Ballots & election equipment were secure in corrals
- 24/7 video surveillance & law enforcement guard

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# Introduction – MC Forensic Audit



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## Introduction – MC Forensic Audit

### Tallying



- All counters were Maricopa residents who voted in the last election.
- Each person was run through a standard background check.
- All three counters counted “blind” without any talking.
- Roughly every ~50 ballots tallies were compared and needed to agree or be redone.

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# Introduction – MC Forensic Audit



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## Introduction – MC Forensic Audit

### Paper Examination (PE)



- High quality DSLR images captured of the front and back of all ballots
- Microscope images captured of key ballot locations
- Over 140TB of data storage for PE alone

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# Status





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## Status – MC Forensic Audit

### Current Status

- Complete
  - Hand-counting of all federal races
  - Image and microscope capture of all ballots
  - Review & Comparison of Official Results
  - Analysis of the Voter Rolls
- Expected Soon
  - Review of Splunk Logs and Routers via Settlement Agreement terms.
  - Completion of Paper Analysis

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## Status – MC Forensic Audit

### Current Status

- No Longer In Scope
  - Canvasses to confirm voter rolls
    - Removed from scope of work.
  - Review of tabulator configuration to check internet configuration.
    - Hardware tokens never provided by the County.
  - Review of Voter Roll System
    - Systems accessing rolls never provided by the County.
- Review of ICX Devices
  - Systems never provided by the County.
- Review of provisional ballots
  - Provisional Ballots Never Provided by County.
- Review of undeliverable ballots
  - Undeliverable ballots never provided by county.

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# Ballots & Tallying





### Ballots & Tallying - Background

- Ballots that are damaged or can't be processed by a tabulator are duplicated.
- Damaged Sent to Duplicates (DSD) are the originals, DUPs the Duplicate.
- There should be one DSD per DUP.
- There should be a unique serial number to match up a DSD to its DUP.
- Duplicate ballots should be stored separately from original ballots.



# Ballots & Tallying – MC Forensic Audit

## Findings

- Duplicate ballots comingled with original ballots
- Duplicated ballots with incorrect & missing serial numbers
- Duplicates that reuse serial numbers
- More duplicates than original ballots

| DESCRIPTION                                                                 | TYPE   | ESR#         | Count                          |
|-----------------------------------------------------------------------------|--------|--------------|--------------------------------|
| Duplicate Ballot Serials                                                    | Ballot | Presidential | 26,965                         |
| Original Damaged Ballots SD 8                                               | DSD    | DUP294104    | 4                              |
| Maricopa County Forensic Audit - Original Large Print Sent to Duplication 2 | DSD    | DUP294104    | 4                              |
| Maricopa County Forensic Audit - Duplicate Ballots Counted                  | DSD    | DUP294104    | 4                              |
| Original Damaged Ballots SD 8                                               | DSD    | DUP171329    | 5                              |
| Maricopa County Reported                                                    | DSD    | DUP171329    | 5                              |
| DUPBOARD3HAND0217                                                           | 99     | Biden        | 27,869<br>Board 4 Hand Dup 216 |
| DUPBOARD3HAND0217                                                           | 144    | 99           | Biden<br>Board 1 Hand Dup 217  |
| DUPBOARD3HAND0218                                                           | 492    | 0            | Biden<br>Board 1 Hand Dup 218  |

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2592 more DUPS than DSDs



# Ballots & Tallying – MC Forensic Audit

## Findings

- Duplicate ballots comingled with original ballots
- Duplicated ballots with incorrect & missing serial numbers
- Duplicates that reuse serial numbers
- More duplicates than original ballots
  - Extra DUPS favor Trump & Jorgenson
  - Extra DUPS favor McSally

| Description | Damaged Sent to Duplication (DSD) | Duplicate Ballots (DUP) | Expected % To Candidate | % Difference To Candidate |
|-------------|-----------------------------------|-------------------------|-------------------------|---------------------------|
| Trump       | 995,404                           | 996,896                 | 48%                     | 58%                       |
| Biden       | 1,040,873                         | 1,041,733               | 50%                     | 33%                       |
| Jorgenson   | 31,501                            | 31,580                  | 2%                      | 3%                        |

| Description | Damaged Sent to Duplication (DSD) | Duplicate Ballots (DUP) | Expected % To Candidate | % Difference To Candidate |
|-------------|-----------------------------------|-------------------------|-------------------------|---------------------------|
| McSally     | 983,662                           | 985,100                 | 47%                     | 55%                       |
| Kelly       | 1,064,336                         | 1,065,266               | 51%                     | 36%                       |

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## Ballots & Tallying – MC Forensic Audit

### Tally Results – (Based on OSD)

|                                  | McSally | Kelly     | Write In / Over / Under | Total      |
|----------------------------------|---------|-----------|-------------------------|------------|
| Maricopa County Forensic Audit   | 983,662 | 1,064,336 | 40,398                  | 2,088,396* |
| Official Maricopa County Canvass | 984,203 | 1,064,396 | 40,964                  | 2,089,563  |
| DELTA                            | (541)   | (60)      | (566)                   | (1,167)    |

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## Ballots & Tallying – MC Forensic Audit

### Tally Results – (Based on DSD)

|                                  | Trump   | Biden     | Jorgenson | Write In / Over / Under | Total     |
|----------------------------------|---------|-----------|-----------|-------------------------|-----------|
| Maricopa County Forensic Audit   | 995,404 | 1,040,873 | 31,501    | 20,791                  | 2,088,569 |
| Official Maricopa County Canvass | 995,665 | 1,040,774 | 31,705    | 21,419                  | 2,089,563 |
| DELTA                            | (261)   | 99        | (204)     | (628)                   | (994)     |

\* Slight difference in Presidential & Senate ballot totals are due to small differences in hand counts across 2.1M ballots

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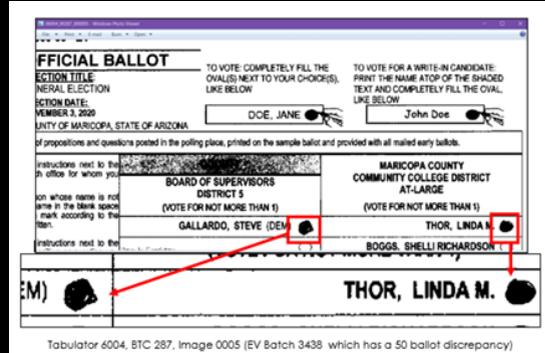
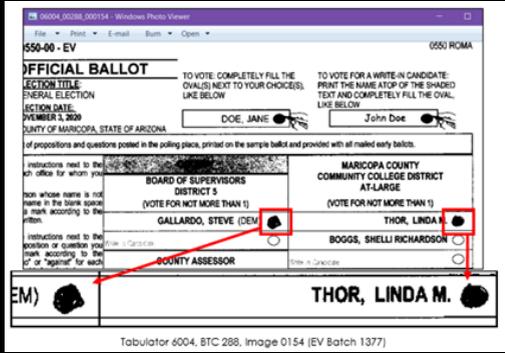


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# Ballots & Tallying – MC Forensic Audit

## Findings

- At least a batch of 50 ballots was run through the tabulators twice.



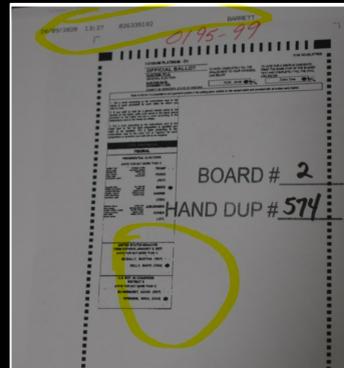
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2592 more DUPES than DSDs



## Findings

- Several UOCAVA ballots have been double-counted



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2592 more DUPS than DSDs

# Official Results





## Official Results - Background

- Official Canvass – Tallies of the ballots cast
  - Per candidate, per precinct, provisional, etc.
- VM55 Final Voted File – A list of all the people who cast a ballot in the election
  - Indicates method of voting and other details
- VM34 Full Voter File – A list of all people eligible to vote
  - Released on a monthly basis



## Definitions

- EV32 Early Voting Sents – A list of all the ballots mailed out
  - Includes the date mailed, the address mailed to, the ballot type, etc.
- EV33 Early Voting Returns – A list of all the ballots received for Early Voting
  - Includes the date returned and the method (Mail-in or in Person)



## Election System Balance

- If the following situation happened
  - 10 people mailed in a ballot
  - 10 people voted early in person
  - 10 people voted on election day in person
- You would expect
  - The Official Canvas has a total of 30 votes across all the candidates / precincts etc.
  - The VM55 should show a list of 30 people:
    - 10 people who voted via mail-in
    - 10 via Early Voting in Person
    - 10 via Election Day in person
  - EV32 Sents would show 10 ballots mailed
  - EV33 Returns would show 10 mail-in ballots received, and 10 mail-in ballots for EV In Person

None of these system balance.

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## Official Results – MC Forensic Audit

### Findings

- Official Canvass has 3,432 more ballots cast than the list of people who show as having cast a vote (VM55)
- 9,041 mail-in voters show returning more ballots (EV33) than they were sent (EV32).
- 277 Precincts show in the Official Canvass as having more ballots cast than people who showed up to vote (VM55) for a total of 1,551 excess votes.
- There are 2,472 ballots shown in EV33 that don't have corresponding entries in the VM55, and only 2,042 ballots show as rejected in the Official Canvas for a discrepancy of 430.
- 397 mail-in ballots show as received (EV33) that never show as sent (EV32).
- 255,326 Early Votes show in the VM55 that do not have a corresponding EV33 entry.

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2592 more DUPS than DSDs

# Voters Who Moved





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# Moving- MC Forensic Audit

## Moving - Background

- Individuals who voted were compared against a commercial database called Melissa to see who moved before the October 5<sup>th</sup> cutoff.

### Melissa Personator

- Checks addresses associated with a user
- Shows prior and current addresses
- Tracks moves and move dates
- Tracks date-of-birth and death dates

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## Moving – MC Forensic Audit

### Findings

- 23,344 voters voted via mail-in ballot even though they show in Melissa as having moved, and no one with the same last name shows as living at the address.
- 2,382 voters voted in-person even though they show in Melissa as having moved out of Maricopa County.
- 2,081 voters moved out-of-state during the 29 days before the election and were given a full ballot instead of a presidential-only ballot.

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2592 more DUPS than DSDs

# Voter Rolls





## Voter Rolls - Background

- Registration dates do not generally change unless to correct a mistake.

Thank you for your questions.

**Are there any circumstances in which someone's registration date can change?**

Generally, a voter's date of registration does not change outside of correcting a mistake. The date of registration is the date where the voter first registered to vote in in the county, while any updates to a voter's registration is tracked separately.

The only time a voter may have two dates of registration is if their registration has previously been cancelled and the voter registers again. The original record could be cancelled for a variety of reasons, including death of the voter, voter request, or the voter has moved outside Maricopa County. Only the latest voter registration record is considered valid and a voter cannot use their cancelled record.

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## Voter Rolls - Background

- AFFSEQ is a unique number found in the voter roll system that is associated with a single transaction to a single user.
  - That change transaction has an image to go along with it to reference the document that authorized the change.
  - AFFSEQ's should be unique and only happen once and definitely shouldn't be shared by users.
- A.R.S. 16-152 requires that complete names be used.

On Aug 30, 2021, at 11:52 AM, voterinfo - RISCX <voterinfo@risc.maricopa.gov> wrote:

Good morning [REDACTED]. The AFFSEQs refers to Affidavit sequence. Each transaction by a voter will result in an affidavit. The affidavit could be a modification to your registration such as address change, party change or an updated signature as an example. An affidavit identifier is also applied to the affidavit envelope, or a provisional ballot used during an election. These identifiers are unique to each transition and never repeated.



## Ballots & Tallying – MC Forensic Audit

### Findings

- Potentially as many as 5,047 individuals who voted in more than one county for up to 5,295 votes.
- 393 voters with incomplete names voted in the election.
- 198 individuals registered after the October 15<sup>th</sup> cutoff and voted in the election.
- 2,861 voters have shared an AFFSEQ number with another voter at some point.
- 282 potentially deceased voters voted in the election.
- 186 people potentially have duplicate voter IDs that both voted.

| Description                   | Number of voters |
|-------------------------------|------------------|
| Last name only                | 15               |
| Last name is an initial only  | 9                |
| No last name                  | 45               |
| First name is an initial only | 324              |
| Total                         | 393              |

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2592 more DUPS than DSDs

# Unable to Process

9/24/2021

# Maricopa County Forensic Election Audit

## Volume III: Result Details

**Work Performed For:**

Arizona State Senate  
1700 W Washington St  
Phoenix, AZ 85007



# 1 CONTACT DETAILS

| Name       | Title                | Phone        | E-mail                                                             |
|------------|----------------------|--------------|--------------------------------------------------------------------|
| Doug Logan | Principal Consultant | 941-364-6527 | <a href="mailto:dlogan@CyberNinjas.com">dlogan@CyberNinjas.com</a> |

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### 3 DOCUMENT OVERVIEW

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The audit was designed to be a comprehensive review of the results from the Maricopa County 2020 General Election to confirm the effectiveness of existing legislation in governing elections, and to provide additional insights on possible areas of information-based legislative reform that could ensure an even greater level of integrity and accuracy in how elections are conducted.

This audit is the most comprehensive election audit that has been conducted. It involved reviewing everything from the voter history for the election, to retallying all 2.1 million ballots by hand, to performing forensic photography and review of the ballot paper, to conducting cyber forensic imaging and analysis of the provided voting equipment. This extensive process involved over 1,500 people who contributed a total of over 100,000 hours of time over the course of more than five months from when setup began, to when this report is completed.

This volume of the report serves to outline details of the results from the audit; including all the data and evidence to support the conclusions of this report.

### 4 TALLY RESULTS

---

The audit included a full hand-recount of all 2.1 million ballots from the 2020 General Election. During this process all original ballots were counted, as well as those ballots returned from duplication. Ballots that were duplicated included various categories of ballots that were not able to be run through the voting machines, such as damaged ballots or Uniformed and Overseas Citizens Absentee Voting Act (UOCAVA) ballots. The tallies from the original ballots sent to duplication, and the ballots received back from duplication were kept separate so that a comparison could occur. As can be found in audit finding, “More Duplicates Than Originals,” there were more duplicates than there were originals. For this reason, we utilized the counts of the originals for all official tallies.

This is the most important finding in the audit because the paper ballots are the best evidence of voter intent, and there is no reliable evidence that the paper ballots were altered to any material degree.

#### 4.1 Presidential Race

---

The chart below summarizes the results of the hand-recount of the Presidential Race of the Maricopa County Forensic Audit. These tallies are based on the tallies from all original ballots and does not include the ballots duplicated from the originals.

|                                  | <b>Trump</b> | <b>Biden</b> | <b>Jorgenson</b> | <b>Write In / Over / Under</b> | <b>Total</b> |
|----------------------------------|--------------|--------------|------------------|--------------------------------|--------------|
| Maricopa County Forensic Audit   | 995,404      | 1,040,873    | 31,501           | 20,791                         | 2,088,569    |
| Official Maricopa County Canvass | 995,665      | 1,040,774    | 31,705           | 21,419                         | 2,089,563    |
| DELTA                            | (261)        | 99           | (204)            | (628)                          | (994)        |

### 4.3 Senate Race

The chart below summarizes the results of the hand-recount of the Senate Race of the Maricopa County Forensic Audit. These tallies are based on the tallies from all original ballots and does not include the ballots duplicated from the originals.

NOTE: Vote totals for the presidential and senatorial elections mismatch slightly primarily due to small differences in hand counts among the 2.1M million ballots.

|                                  | McSally | Kelly     | Write In / Over / Under | Total     |
|----------------------------------|---------|-----------|-------------------------|-----------|
| Maricopa County Forensic Audit   | 983,662 | 1,064,336 | 40,398                  | 2,088,396 |
| Official Maricopa County Canvass | 984,203 | 1,064,396 | 40,964                  | 2,089,563 |
| DELTA                            | (541)   | (60)      | (566)                   | (1,167)   |

## 5 VOTER HISTORY, BALLOT, AND CERTIFIED RESULTS FINDINGS

The following section outlines all findings related to voting history, ballots and the certified results. This section covers everything that directly impacts the counting and accounting of results.

### 5.1 Ballot Scoring Methodology

Ballot related findings are scored based on the total number of potential ballots impacted by the finding. Based on the range by which this falls within a Severity is assigned, as can be seen in the chart to the right. In these circumstances a severity will still be assigned to the finding based on the potential impact the finding may have had on the election.

| Ballots Impacted | Severity |
|------------------|----------|
| 10,000+          | Critical |
| 5,000 – 9,999    | High     |
| 1,500 – 4,999    | Medium   |
| Less than 1,500  | Low      |

## 5.2 Finding Summary Table

| #      | Finding Name                                                      | Phase             | Ballots Impacted | Severity      |
|--------|-------------------------------------------------------------------|-------------------|------------------|---------------|
| 5.3.1  | Mail-in Ballots Voted from Prior Address                          | Voter History     | 23,344           | Critical      |
| 5.4.1  | More Ballots Returned by Voter Than Received                      | Voter History     | 9,041            | High          |
| 5.4.2  | Voters That Potentially Voted in Multiple Counties                | Certified Results | 5,295            | High          |
| 5.5.1  | Official Results Does Not Match Who Voted                         | Certified Results | 3,432            | Medium        |
| 5.5.2  | More Duplicates Than Original Ballots                             | Ballot            | 2,592            | Medium        |
| 5.5.3  | In-Person Voters Who Had Moved out of Maricopa County             | Certified Results | 2,382            | Medium        |
| 5.5.4  | Voters Moved Out-of-State During 29-Day Period Preceding Election | Voter History     | 2,081            | Medium        |
| 5.5.5  | Votes Counted in Excess of Voters Who Voted                       | Certified results | 1,551            | Medium        |
| 5.6.1  | Voters Not Part of the Official Precinct Register                 | Voter History     | 618              | Low           |
| 5.6.2  | Duplicated Ballots Incorrect & Missing Serial Numbers             | Certified Results | 500              | Low           |
| 5.6.3  | Ballots Returned Not in the Final Voted File                      | Ballot            | 430              | Low           |
| 5.6.4  | Mail-in Ballot Received Without Record of Being Sent              | Certified Results | 397              | Low           |
| 5.6.5  | Voters With Incomplete Names                                      | Voter History     | 393              | Low           |
| 5.6.6  | Deceased Voters                                                   | Voter History     | 282              | Low           |
| 5.6.7  | Audit UOCAVA Count Does Not Match the EAC Count                   | Ballots           | 226              | Low           |
| 5.6.8  | Late Registered Voters with Counted Votes                         | Voter History     | 198              | Low           |
| 5.6.9  | Date of Registration Changes to Earlier Date                      | Voter History     | 194              | Low           |
| 5.6.10 | Duplicate Voter IDs                                               | Voter History     | 186              | Low           |
| 5.6.11 | Multiple Voters Linked by AFFSEQ                                  | Voter History     | 101              | Low           |
| 5.6.12 | Double Scanned & Counted ballots                                  | Ballot            | 50               | Low           |
| 5.6.13 | UOCAVA Electronic Ballots Double Counted                          | Ballot            | 6                | Low           |
| 5.6.14 | Duplicate Ballots Reuse Serial Numbers                            | Ballot            | 6                | Low           |
| 5.7.1  | Audit Interference                                                | Ballot            | N/A              | Informational |
| 5.7.2  | Batch Discrepancies                                               | Ballot            | N/A              | Informational |
| 5.7.3  | Commingled Damaged and Original Ballots                           | Ballot            | N/A              | Informational |
| 5.7.4  | Early Votes Not Accounted for in EV33                             | Certified Results | N/A              | Informational |
| 5.7.5  | High Bleed-Through Rates on Ballots                               | Ballot            | N/A              | Informational |
| 5.7.6  | Improper Paper Utilized                                           | Ballot            | N/A              | Informational |
| 5.7.7  | Inaccurate Identification of UOCAVA Ballots                       | Ballot            | N/A              | Informational |
| 5.7.8  | Missing Subpoena Items                                            | Ballot            | N/A              | Informational |
| 5.7.9  | No Record of Voters in Commercial Database                        | Voter History     | N/A              | Informational |
| 5.7.10 | Out of Calibration Ballot Printers                                | Ballot            | N/A              | Informational |
| 5.7.11 | Real-Time Provisional Ballots                                     | Voter History     | N/A              | Informational |
| 5.7.12 | Voter Registration System Audit Access                            | Voter History     | N/A              | Informational |
| 5.7.13 | Questionable Ballots                                              | Ballot            | N/A              | Informational |

## 5.3 Critical Findings

### 5.3.1 MAIL-IN BALLOTS VOTED FROM PRIOR ADDRESS

**Ballots Impacted** 23,344

Mail-in ballots were cast under voter registration IDs for people that may not have received their ballots by mail because they had moved, and no one with the same last name remained at the address. Through extensive data analysis we have discovered approximately 23,344 votes that may have met this condition. If a registered voter does not have a secondary mailing address listed with the county and no longer lives at the address listed on their voter registration, they should not receive their mail-in ballot by automatic postal forwarding. In certain circumstances, however, it may be possible for them to receive a ballot, for example, if they know the present occupant, or if the ballot is improperly forwarded.

If ballots are being sent by forwardable mail, this would violate the Arizona Elections Procedures Manual, which requires, "A ballot-by-mail must be mailed to voters by first-class, non-forwardable mail." EPM p. 56. Therefore, this is a potentially criminal act. See ARS 16-452(C) (any person who violates a rule set forth in the EPM "is guilty of a class 2 misdemeanor.").

Ensuring that ballots are sent by non-forwardable mail serves an important purpose. When non-forwardable mail is returned undelivered, the County Recorder is required to initiate a process that places a voter on inactive status - meaning they will no longer automatically receive an early ballot - and may eventually remove them from the rolls entirely. ARS 16-165(A)(7), 544(E).<sup>1</sup>

The Final Voted File, or VM55, was cross-checked against a commercially available data source provided by Melissa<sup>2</sup> called Personator. Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service's National Change of Address (NCOA) service, and the Social Security Administration's Master Death List.

Addresses were not included in the results if there was a valid secondary mailing address as part of the voting record. Only moves prior to October 5, 2020, are included in the move numbers.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to gain access to the mail-in ballot.

| Party                 | %     |
|-----------------------|-------|
| Democrat Party        | 39.5% |
| Republican Party      | 33.0% |
| Prefer Not to Declare | 26.5% |
| Libertarian Party     | 1.0%  |

NOTE: While high quality commercial database sources were utilized to assemble these findings, some error is expected within these results. To further validate these findings, it is recommended that canvassing be conducted.

<sup>1</sup> With the passage of SB 1485, going forward, voters may be removed from the rolls if they have not voted for a prolonged period of time.

<sup>2</sup> <https://www.melissa.com>

NOTE: A full list of the Voter IDs affected can be found in esB1-B3 There are potential ways that a voter could receive their ballot which in some cases would not violate the law. Additional investigation by the Attorney General is recommended for any conclusive determination.

| Description                                                                                           | Ballots |
|-------------------------------------------------------------------------------------------------------|---------|
| Mail-in votes from voters who moved within Maricopa County prior to the registration deadline         | 15,035  |
| Mail-in votes from voters who moved out of Arizona prior to registration deadline                     | 6,591   |
| Mail-in votes from voters who moved within Arizona but out of Maricopa prior to registration deadline | 1,718   |

NOTE: Please see Appendixes B1, B2 and B3 for the details for this finding.

### 5.3.1.1 REFERENCES

- [A.R.S. § 16-101 – Qualifications of registrant](#)<sup>3</sup>
- [State of Arizona – 2019 Elections Procedures Manual](#)<sup>4</sup>
- [A.R.S. § 16-165 – Causes for Cancellation](#)<sup>5</sup>
- [A.R.S § 16-452 – Rules](#)<sup>6</sup>
- [A.R.S § 16-544 – Permanent early voting list](#)<sup>7</sup>

### 5.3.1.2 DATA FILES UTILIZED

| File Name                                     | MD5 Hash                         |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |

### 5.3.1.3 RECOMMENDATION

Legislation should be considered that links voter roll registration to changes in driver’s licenses or other state identification, as well as requiring the current voter rolls be validated against the United States Postal Service (USPS) National Change of Address (NCOA) at a predefined period prior to every election.

Laws already exist for interstate reporting of changes in residence, addresses, and driver’s licenses. Tying voter roll registration to these forms of identification would greatly increase the likelihood that voter registration details would be kept up to date. Individuals are more likely to remember their license needs to be updated immediately than voter registration, and since all states now offer the ability to register to vote when getting a license, license updates could also update voter rolls.

<sup>3</sup> <https://www.azleg.gov/ars/16/00101.htm>

<sup>4</sup> [https://azsos.gov/sites/default/files/2019 ELECTIONS PROCEDURES MANUAL APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>5</sup> <https://www.azleg.gov/ars/16/00165.htm>

<sup>6</sup> <https://www.azleg.gov/ars/16/00452.htm>

<sup>7</sup> <https://www.azleg.gov/ars/16/00544.htm>

It is recommended that the voter rolls be validated against the NCOA both 90 days or more prior to the election, in addition to a week before mail-in ballots are sent out. This check would be utilized to determine if a mail-in ballot would be sent to the address since ballots are not allowed to be forwarded. The legislature may want to consider whether a change of address should suspend Permanent Early Voting List (PEVL) enrollment.

The Senate should consider referring this matter to the Attorney General’s Office for a criminal investigation as to whether the requirements of ARS 16-452(C) have been violated.

## 5.4 High

|                                                    |                               |
|----------------------------------------------------|-------------------------------|
| 5.4.1 MORE BALLOTS RETURNED BY VOTER THAN RECEIVED | <b>Ballots Impacted</b> 9,041 |
|----------------------------------------------------|-------------------------------|

9,041 more ballots show as returned in the EV33 Early Voting Returns File for a single individual who voted by mail than show as sent to that individual within the EV32 Early Voting Sent File. In most of these instances an individual was sent one ballot but had two ballots received on different dates.

Further investigation would be needed to determine the cause, but this could be explained in any of the possible ways:

- More than one ballot could have been sent out, but an entry was missed within the EV32 file.
- The same ballot could have been processed more than once on different days, resulting in two EV33s for one ballot.
- Checking into Early Vote in person may not have recognized that a mail-in ballot was already received and both the Early Vote In-Person and the mail-in may have generated an EV33.
- A counterfeit ballot was sent via mail and both the legitimate ballot sent and the counterfeit ballot generated EV33 entries.

NOTE: We’ve been informed shortly before the release of this report that some of the discrepancies outlined could be due to the protected voter list. This has not been able to be validated at this time, but we thought it was important to disclose this information for accuracy.

NOTE: An EV33 indicates that a ballot is received and does not necessarily mean the ballot was counted. It is assumed that only the first ballot received and validated is counted.

| Ballots Sent to Voter | Ballots Received for Voter | Quantity of Voters |
|-----------------------|----------------------------|--------------------|
| 1                     | 2                          | 8,875              |
| 1                     | 3                          | 163                |
| 1                     | 4                          | 3                  |

NOTE: Please see Appendix C1 for details on the voters who had more ballots received than sent.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another party that was somehow able to cast a vote.

| Party                 | %     |
|-----------------------|-------|
| Democrat Party        | 34.4% |
| Republican Party      | 30.4% |
| Prefer Not to Declare | 30.1% |
| Independent           | 3.7%  |
| Libertarian Party     | 1.3%  |

#### 5.4.1.1 REFERENCES

- [A.R.S. § 16-246 – Early Balloting<sup>8</sup>](#)
- [A.R.S. § 16-542 – Request for ballot<sup>9</sup>](#)
- [A.R.S. § 16-544 – Permanent early voting list<sup>10</sup>](#)
- [A.R.S. § 16-558.01 – Mailing of Ballots<sup>11</sup>](#)

#### 5.4.1.2 DATA FILES UTILIZED

| File Name                                     | MD5 Hash                         |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |
| EV33-1377-10-09-2020_101111.txt               | f1daa7089f7300237f6b4ff779661cf9 |
| EV33-1377-10-12-2020_113210.txt               | 72e4e6c102e3539b4dd15b4454357b69 |
| EV33-1377-10-13-2020_111553.txt               | 9b14841281c031533322b50aabb86a24 |
| EV33-1377-10-14-2020_112757.txt               | 1b7537d7d9b927dbf4e462ed5ee8f97c |
| EV33-1377-10-15-2020_121331.txt               | dec7d08dde4970c26e32b8c844f4a9ab |
| EV33-1377-10-16-2020_113522.txt               | f0a632c3fd9b5f177d48504dc119be31 |
| EV33-1377-10-19-2020_111708.txt               | db80b692a9188add0844a8974e227287 |
| EV33-1377-10-20-2020_112351.txt               | 57d1795db8be71d516e29350e347fb3a |
| EV33-1377-10-21-2020_111843.txt               | 56c3b5a11651c68735164c578eade4e1 |
| EV33-1377-10-22-2020_111714.txt               | 03551f170bf758efc90c013d0fe2e467 |
| EV33-1377-10-23-2020_112614.txt               | dbfdd369ac148723540c83f614cca454 |
| EV33-1377-10-26-2020_111318.txt               | 0b68adff779f59c70a530000bf989aca |
| EV33-1377-10-27-2020_111413.txt               | a6fc7377bf6c6fe6653f539c5970a6f7 |
| EV33-1377-10-28-2020_111331.txt               | 43758b9290f90d0305d5ed84aa10becb |
| EV33-1377-10-29-2020_111300.txt               | 410b30b06f2ca73022f27173fe114038 |
| EV33-1377-10-30-2020_111804.txt               | 5cb44e5ea214f40227e04345d4355ff7 |
| EV33-1377-11-02-2020_111214.txt               | 5d15bb8686a022f53400550cfe010a07 |

<sup>8</sup> <https://www.azleg.gov/ars/16/00246.htm>

<sup>9</sup> <https://www.azleg.gov/ars/16/00542.htm>

<sup>10</sup> <https://www.azleg.gov/ars/16/00544.htm>

<sup>11</sup> <https://www.azleg.gov/ars/16/00558-01.htm>

| File Name                                                     | MD5 Hash                         |
|---------------------------------------------------------------|----------------------------------|
| EV32-1377-09-18-2020_075112.txt                               | ab22e9ba4ad54af1b7a47f8381d506c7 |
| EV32-1377-09-30-2020_111728.txt                               | 2e4df9ccf2e5e64fd7e164628ff7667a |
| EV32-1377-10-01-2020_113125.txt                               | 92538fe838c7c872957d155a98290874 |
| EV32-1377-10-02-2020_125658.txt                               | be7d44838daa2aa758a0adb1dfe88acd |
| EV32-1377-10-05-2020_112338.txt                               | 31a356a1a1826639759fc66afb812498 |
| EV32-1377-10-06-2020_114600.txt                               | cb70c4468ebd51142003e46e3e1257c4 |
| EV32-1377-10-07-2020_111951.txt                               | 185d423606927ba15f827e19329c02aa |
| EV32-1377-10-08-2020_111639.txt                               | 4f82598b6fab071300e92b8f56407451 |
| EV32-1377-10-09-2020_112718.txt                               | bdf22cce7eca5eeb0b52dbb9f87a54b6 |
| EV32-1377-10-12-2020_113153.txt                               | 67a7ab52ab0850127528b18667eaf5c6 |
| EV32-1377-10-13-2020_111535.txt                               | 81af1c0b010368d0e11cc68e8a21f2e6 |
| EV32-1377-10-14-2020_112738.txt                               | e88cce6a8a27b5bf755765f516710c48 |
| EV32-1377-10-15-2020_121305.txt                               | 2f12b801d981afc0e4e114bdfbf4241c |
| EV32-1377-10-16-2020_113410.txt                               | 46a251f88fdd1d2e2352ac1dc61fffa9 |
| Maricopa_EV32-1377-10-19-2020_111633-2020-10-20T14 53 30Z.txt | 9cd6e80c07e1f33129cf98302930abb6 |
| Maricopa_EV32-1377-10-20-2020_112309-2020-10-21T15 13 12Z.txt | e3cc25b520b5710090f4dfff2d7fce7f |
| Maricopa_EV32-1377-10-21-2020_111759-2020-10-22T15 08 54Z.txt | e786fec02788d0b7c4392ca5b1cd284e |
| Maricopa_EV32-1377-10-22-2020_111639-2020-10-23T15 03 40Z.txt | 86ea315f6bce7c0c902027b5373f6e2c |
| Maricopa_EV32-1377-10-23-2020_112532-2020-10-26T15 00 59Z.txt | ca42553da16ea38cf2b72f29b81a990f |

#### 5.4.1.3 RECOMMENDATION

It is recommended that the Attorney General inquire of Maricopa County as to the reason for this discrepancy, and if a sufficient explanation is not received an investigation be opened to investigate this further.

**Ballots Impacted** 5,295

#### 5.4.2 VOTERS THAT POTENTIALLY VOTED IN MULTIPLE COUNTIES

Comparing the Maricopa County VM55 Final Voted File to the equivalent files of the other fourteen Arizona counties resulted in 5,047 voters with the same first, middle, last name and birth year, representing 10,342 votes among all the counties. While it is possible for multiple individuals to share all these details, it is not common although the incidence here (roughly one-third of one percent) may be the rate of commonalities in identifying information between legitimate, separate individual voters especially with common last names. This list should be fully reviewed.

NOTE: The Ballot Impacted was calculated by the total number of votes (10,342) and subtracting the number of maximum number of potential unique people (5,047). This yielded 5,295.

NOTE: Please see Appendix D1 for details on the potential voters who cast a vote in more than one location.

### 5.4.2.1 REFERENCES

- [State of Arizona – 2019 Elections Procedures Manual](#)<sup>12</sup>
- [A.R.S. § 16-120 – Eligibility to vote](#)<sup>13</sup>

### 5.4.2.2 DATA FILES UTILIZED

| File Name                                                                                 | MD5 Hash                         |
|-------------------------------------------------------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ                                             | 43070bc7afdf40a37cd45092e9733654 |
| Apache County - 01_02_2021 Party CD-2021-02-09T00 22 11Z.csv                              | be4c0af2563848085d58ba6b35a486d9 |
| Cochise County Voter File 01022021.csv                                                    | 6839d6c54e5da7b5440018b23c239a80 |
| Coconino County - 11-3-20 General Voter List with Voting History.csv                      | aa92299b3af0188e0d477d30929ff2e8 |
| Gila County - votinghistoryexport_637454437931504987.csv                                  | ea8475adc98ba6d488c1cf772333c750 |
| Graham County - votinghistoryexport022021.csv                                             | a967c66261fc118b12a7673cfc140293 |
| Greenlee Party Report Active voters with voting history 1-6-2021-2021-01-06T17 47 47Z.csv | 9f911e1249c0c6303d393e88f435057c |
| La Paz County - votinghistoryexport11032020-2020-12-09T19 37 25Z.csv                      | a94f953df2f4843ee1a753f2102ef589 |
| Mojave County - Party File 1-2-2021.csv                                                   | 427dfa3347df1c9a373d1c60250d71d3 |
| Navajo County - Parties List January 21-2021-02-10T22 08 47Z.csv                          | 1aea8fc97eaad284ba27de8689774315 |
| Pima County - ActiveVoters20210105112009.csv                                              | 93bbfb0586d83cc714b8d02b2ad8d8e3 |
| Pinal County - Active Voter List 01052021.csv                                             | 44d10afdac81cf1dea2bd5faffda50dc |
| Santa Cruz County - 1ST QTR ACTIVE VOTER LIST REPORT 01202021.csv                         | 73e8599aab7c084c94605621f0c148e2 |
| YavapaiCounty - 11-10-2020 votinghistory-Yavapai.csv                                      | 2e68ec2f922a0eda6999f3fc5b1c0638 |
| Yuma County - Voting History Export_Include ALL Registered Voters.csv                     | d87c732fc069e85db4a92974bd7c689b |

### 5.4.2.3 RECOMMENDATION

Legislation should be considered which requires a more clear schedule for cleaning up and maintaining voter rolls, including specific requirements for a county based on its size and growth.

## 5.5 Medium Findings

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<sup>12</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>13</sup> <https://www.azleg.gov/ars/16/00120.htm>

5.5.1 OFFICIAL RESULTS DO NOT MATCH WHO VOTED

**Ballots Impacted** 3,432

The official result totals do not match the equivalent totals from the Final Voted File (VM55). These discrepancies are significant with a total ballot delta of 11,592 between the official canvass and the VM55 file when considering both the counted and uncounted ballots.

**Official Results verses Final Voted File (VM55) – Counted Ballots**

| Description       | Type          | Official Results | Final Voted (VM55) | Delta |
|-------------------|---------------|------------------|--------------------|-------|
| Early Vote        | Mail In (R)   | N/A              | 1,702,981          |       |
|                   | In Person (B) | N/A              | 209,112            |       |
|                   | Total         | 1,915,487        | 1,912,093          | 3,394 |
| Election Day Vote | Regular       | 167,878          | N/A                |       |
|                   | Provisional   | 6,198            | N/A                |       |
|                   | Total         | 174,076          | (P) 174,038        | 38    |
| Total Counted:    |               | 2,089,563        | 2,086,131          | 3,432 |

NOTE: Please see Appendix E1 for a full break-down by precinct of the differences between the Official Results and the Final Voted File (VM55).

5.5.1.1 DATA FILES UTILIZED

| File Name                                                                   | MD5 Hash                         |
|-----------------------------------------------------------------------------|----------------------------------|
| <u>11-03-2020-1 Final Official Summary Report NOV2020.pdf</u> <sup>14</sup> | 321a78c74d4f442da0659014b29cb091 |
| Maricopa County-VM55 Final Voted Nov2020 PBRQ                               | 43070bc7afdf40a37cd45092e9733654 |

5.5.1.2 RECOMMENDATION

Legislation should be considered that would require the Official Canvass to fully reconcile with the Final Voted File. The number of individuals who showed up to vote should always match the number of votes cast.

<sup>14</sup> <https://recorder.maricopa.gov/electionarchives/2020/11-03-2020-1%20Final%20Official%20Summary%20Report%20NOV2020.pdf>

5.5.2 MORE DUPLICATES THAN ORIGINAL BALLOTS

Maricopa County reported “In this election, Maricopa County had 27,869 duplicate ballots pertaining to the Presidential Electors.”<sup>15</sup> The audit team counted 29,557 duplicate ballots. However, only 26,965 original ballots were sent to duplication.

| Description                                                           | Ballots Count |
|-----------------------------------------------------------------------|---------------|
| Maricopa County Forensic Audit - Original Ballots Sent to Duplication | 26,965        |
| Maricopa County Forensic Audit – Duplicate Ballots Counted            | 29,557        |
| Maricopa County – Reported Duplicate Ballots                          | 27,869        |

A comparison of the total number of original ballots sent to duplication vs the total number of duplicate ballots shows that Maricopa County counted 2,592 more duplicate ballots than original ballots sent to duplication. The audit team attempted to resolve the discrepancies, but those efforts were impeded by the County’s failure to properly identify duplicate ballot batches and failure to assign unique serial numbers to each damaged ballot sent to duplication and then match that number to the duplicate ballot printed to replace it.

The County reported 1688 fewer ballots sent to duplication than identified by the audit team. The County provided 904 fewer original ballots than they reportedly duplicated.

These extra duplicates favored Republican candidates over Democrat candidates, and even favored the Libertarian candidate at a higher rate than the overall vote distribution.

| Description | Damaged Sent to Duplication (DSD) | Duplicate Ballots (DUP) | Expected % To Candidate | % Difference To Candidate |
|-------------|-----------------------------------|-------------------------|-------------------------|---------------------------|
| Trump       | 995,404                           | 996,896                 | 48%                     | 58%                       |
| Biden       | 1,040,873                         | 1,041,733               | 50%                     | 33%                       |
| Jorgenson   | 31,501                            | 31,580                  | 2%                      | 3%                        |

| Description | Damaged Sent to Duplication (DSD) | Duplicate Ballots (DUP) | Expected % To Candidate | % Difference To Candidate |
|-------------|-----------------------------------|-------------------------|-------------------------|---------------------------|
| McSally     | 983,662                           | 985,100                 | 47%                     | 55%                       |
| Kelly       | 1,064,336                         | 1,065,266               | 51%                     | 36%                       |

NOTE: Please see Appendixes F1 and F2 for the details of this finding.

<sup>15</sup> <https://ecf.azd.uscourts.gov>

### 5.5.2.1 REFERENCES

- Maricopa Clerk of Court Duplicate Ballots<sup>16</sup>
- State of Arizona – 2019 Elections Procedures Manual<sup>17</sup>
- A.R.S. § 16-621 – Proceedings at the counting center<sup>18</sup>

### 5.5.2.2 RECOMMENDATION

Legislation should be considered that requires regular audits of elections within a year of the election. Among the mandatory items required to perform in the audit should be a review of the duplicate ballot process.

### 5.5.3 IN-PERSON VOTERS WHO HAD MOVED OUT OF MARICOPA COUNTY Ballots Impacted 2,382

The VM55 Final Voted File, was cross-checked against a commercially available data source provided by Melissa called Personator and 2,382 ballots were cast voter IDs for individuals that moved outside of Maricopa County prior to 10/5/2020. Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service’s National Change of Address (NCOA) service, and the Social Security Administration’s Master Death List. Only moves prior to October 5, 2020, are included in the move numbers.

NOTE: While high quality commercial database sources were utilized to assemble these findings, a small percentage of error is expected within these results. To further validate these findings, it is recommended that canvassing be conducted.

| Description                                                                                             | Ballots |
|---------------------------------------------------------------------------------------------------------|---------|
| In-Person votes from voters who moved out of Arizona prior to registration deadline                     | 1,528   |
| In-Person votes from voters who moved within Arizona but out of Maricopa prior to registration deadline | 854     |

NOTE: Please see Appendixes G1 and G2 for additional details on the individuals that show as moved.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another party that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Republican Party      | 43.37% |
| Democrat Party        | 25.06% |
| Prefer Not to Declare | 26.87% |
| Independent           | 3.27%  |
| Libertarian Party     | 1.18%  |
| Green Party           | 0.25%  |

<sup>16</sup> <https://www.clerkofcourt.maricopa.gov/home/showpublisheddocument/1902/637425888214000000>

<sup>17</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>18</sup> <https://www.azleg.gov/ars/16/00621.htm>

### 5.5.3.1 REFERENCES

- Maricopa County – 11-03-2020 - General Election Canvass Summary<sup>19</sup>

### 5.5.3.2 DATA FILES UTILIZED

| File Name                                     | MD5 Hash                         |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |

### 5.5.3.3 RECOMMENDATION

Legislation should be considered that links voter roll registration to changes in driver’s licenses or other state identification, as well as requiring the current voter rolls be validated against the United States Postal Service (USPS) National Change of Address (NCOA) at a predefined period prior to every election.

Laws already exist for interstate reporting of changes in residence, addresses, and driver’s licenses. Tying voter roll registration to these forms of identification would greatly increase the likelihood that voter registration details would be kept up to date. Individuals are more likely to remember their license needs to be updated immediately than voter registration, and since most states now offer the ability to register to vote when getting a license, license updates could also update voter rolls.

It is recommended that the voter rolls be validated against the NCOA both 90 days or more prior to the election, in addition to a week before mail-in ballots are sent out. This check would be utilized to determine if a mail-in ballot would be sent to the address since ballots are not allowed to be forwarded. The legislature may want to consider whether a change of address should suspend Permanent Early Voting List (PEVL) enrollment.

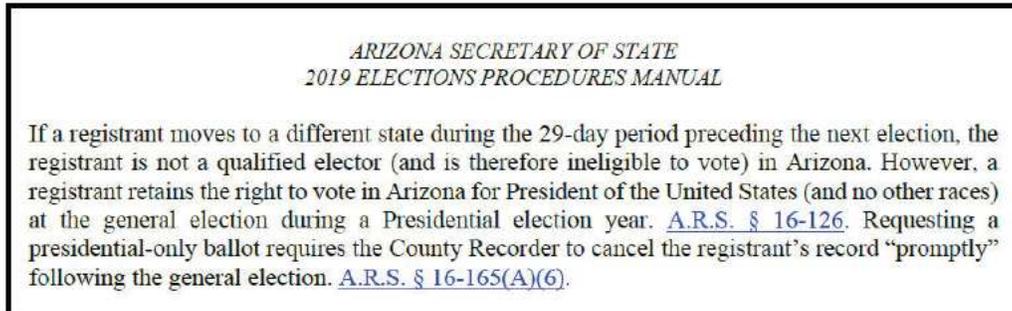
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<sup>19</sup> <https://recorder.maricopa.gov/electionarchives/2020/11-03-2020-1%20Final%20Official%20Summary%20Report%20NOV2020.pdf>

#### 5.5.4 VOTERS MOVED OUT-OF-STATE DURING 29-DAY PERIOD PRECEDING ELECTION

Ballots  
Impacted 2,081

Arizona law and the 2019 Election Procedures Manual address the specific voting eligibility of a person who moves out of Arizona during the 29-day period before the election. A person that moved out of Arizona between 10/5/2020 and 11/03/2020, was no longer legally considered a “resident,” however was eligible by law to vote a presidential-only ballot. See the image below taken from the 2019 Elections Procedure Manual (pg. 30).



The 2019 Elections Procedure Manual states “A registrant is a “resident” if they have physical presence in the county along with an intent to remain. A registrant may be temporarily absent from the jurisdiction without losing their residency status, as long as they have an intent to return. A.R.S. § 16-103.” (pg. 12)

The Final Voted File, or VM55, was cross-checked against a commercially available data source provided by Melissa<sup>20</sup> called Personator. Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service’s National Change of Address (NCOA) service, and the Social Security Administration’s Master Death List.

The cross-check resulted in 2,081 instances of a voter that moved out of the state of Arizona during the 29-day period before the election who cast a ballot in the 2020 general election. It cannot be determined whether these voters undervoters all the races on their ballots other than the presidential race, thereby creating a *de facto* Presidential-Only ballot.

The ballot definitions on the Dominion EMS do not include a “Presidential-Only” ballot. The Dominion voting machines would not be able to read a ballot for which a ballot definition does not exist. Additionally, in examining the EV33 sent ballot files for ballot codes, the ballot images, and the cast vote record, no presidential-only ballots as specified by A.R.S. § 16-126 and the 2019 Election Procedures Manual were found to be cast in this election.

<sup>20</sup> <https://www.melissa.com>

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Republican Party      | 41.28% |
| Democrat Party        | 31.57% |
| Prefer Not to Declare | 21.96% |
| Independent           | 4.32%  |
| Libertarian Party     | 0.82%  |
| Green Party           | 0.05%  |

NOTE: Please see Appendix H1 for details on the voters who moved out-of-state during the 29-day period preceding the election.

#### 5.5.4.1 REFERENCES

- [Arizona State - 2019 Elections Procedure Manual](#)<sup>21</sup>
- [A.R.S. § 16-126 – Authority to vote in a presidential election after moving from state](#)<sup>22</sup>
- [A.R.S. § 16-103 – Qualified person temporarily absent from the state](#)<sup>23</sup>

#### 5.5.4.2 DATA FILES UTILIZED

| File Name                                     | MD5 Hash                         |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |

#### 5.5.4.3 RECOMMENDATION

Legislation should be considered that links voter roll registration to changes in driver’s licenses or other state identification, as well as requiring the current voter rolls be validated against the United States Postal Service (USPS) National Change of Address (NCOA) at a predefined period prior to every election.

Laws already exist for interstate reporting of changes in residence, addresses, and driver’s licenses. Tying voter roll registration to these forms of identification would greatly increase the likelihood that voter registration details would be kept up to date. Individuals are more likely to remember their license needs to be updated immediately than voter registration, and since most states now offer the ability to register to vote when getting a license, license updates could also update voter rolls.

It is recommended that the voter rolls be validated against the NCOA both 90 days or more prior to the election, in addition to a week before mail-in ballots are sent out. This check would be utilized to determine if a mail-in ballot would be sent to the address since ballots are not allowed to be forwarded. The legislature may want to consider whether a change of address should suspend Permanent Early Voting List (PEVL) enrollment.

<sup>21</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>22</sup> <https://www.azleg.gov/ars/16/00126.htm>

<sup>23</sup> <https://www.azleg.gov/ars/16/00103.htm>

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### 5.5.5 VOTES COUNTED IN EXCESS OF VOTERS WHO VOTED

**Ballots  
Impacted** 1551

The number of votes cast in an election should not exceed the number of voters who participate in the election. An analysis of the Maricopa County Official Canvass and the VM55 Final Voted file from November 2020 show that multiple precincts counted votes in excess of the number of voters who participated in the 2020 General Election.

Reconciliation of the voters who participated to ballots cast is first required at a every vote center for election day voting. The County Audit Board is required to reconcile the voters who participated with the ballots cast for each precinct prior to certifying the Official Canvass. The expected delta should be more voters who voted than votes cast because some ballots were undervoted or overvoted. There were 277 precincts with a voter deficit, 65 precincts with an equal number of voters who voted, and cards cast. There were 401 precincts with the expected surplus.

NOTE: We've been informed shortly before the release of this report that some of the discrepancies outlined could be due to the protected voter list. This has not been able to be validated at this time, but we thought it was important to disclose this information for accuracy.

NOTE: The following chart illustrates the percentage of voters by registered party that are given within the precincts that the Ballot Impacted number represents. Understanding why there is more votes than voters in this precinct would be required before any determination could be made as to whether the precinct breakouts would influence how this finding impacted the votes.

| Party                 | %      |
|-----------------------|--------|
| Republican Party      | 42.25% |
| Democrat Party        | 30.02% |
| Prefer Not to Declare | 22.34% |
| Independent           | 4.41%  |
| Libertarian Party     | 0.90%  |
| Green Party           | 0.0%   |

From the Arizona Election Procedure Manual, the Audit Board has several responsibilities:

- “1. Receives the Official Ballot Reports for each voting location and any supplemental information from the election boards that could explain any discrepancies.*
- 2. Receives the signature rosters, poll lists (or scanned copies), or reports from e-pollbooks that show voter check-ins and signatures...”*
- “9. Identifies discrepancies in the reports following final tabulation of duplicated ballots and provisional ballots.*
- 10. Resolves problems that appear to be of major significance in the presence of political party observers; and*
- 11. Resolves and documents all discrepancies. The functions of the Audit Board must be completed prior to the acceptance of the canvassing.”*

Note that the Audit Board must consider discrepancies after the final tabulation which would include discrepancies in the number of votes counted vs. the number of voters who participated in the election. This would include mail ballots, duplicated ballots and provisional ballots for voters in every precinct. Maricopa County failed to resolve these discrepancies prior to acceptance of the canvass.

NOTE: Please see Appendix I1 for the full list broken out by precinct.

#### 5.5.5.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>24</sup>

#### 5.5.5.2 DATA FILES UTILIZED

| File Name                                                       | MD5 Hash                         |
|-----------------------------------------------------------------|----------------------------------|
| 11-03-2020-2b Final SOV and Official Canvass Report NOV2020.csv | e907163ef4b0d99e116c24fcb98a6969 |
| Maricopa County-VM55 Final Voted Nov2020 PBRQ                   | 43070bc7afdf40a37cd45092e9733654 |

<sup>24</sup> [https://azsos.gov/sites/default/files/2019 ELECTIONS PROCEDURES MANUAL APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

### 6.5.5.3 RECOMMENDATION

Maricopa County Election Officials and Audit Board should examine all records and resolve all discrepancies prior to certification of election results. Each legal voter should be permitted to vote one and only one time.

## 5.6 Low Findings

### 5.6.1 VOTERS NOT PART OF THE OFFICIAL PRECINCT REGISTER

**Ballots Impacted** 618

The list of individuals who are eligible and able to vote in an election, also known as the official precinct register, is established 10 days prior to the election. This means that for the 2020 General Election this was established on October 22<sup>nd</sup>. At that point in time everyone who was officially on the voter rolls for the election should have been on the rolls. It should not require an earlier or a later voter roll file to find a complete list of everyone who was eligible and actually voted in the election. However, a review of the VM55 Final Voted File for the 2020 General Election shows voter IDs that do not show on either the October 2, 2020 voter rolls or on the November 7, 2020 voter rolls. To match up all the voter IDs that show on the VM55 Final Voted File for the 2020 General Election it requires that you look back to the April 9, 2017, voter rolls to find all the IDs: in addition to also requiring the December 4, 2020, rolls. In total it takes 12 different months VM34 Monthly Voter Roll files to find and match-up all voters in the 2020 General Election. This can be seen in the diagram below.

| <u>VM34 File Date</u> | <u># Of Matched Voters</u> |
|-----------------------|----------------------------|
| 12/4/2020             | 605                        |
| 11/7/2020             | 2,089,465                  |
| 9/5/2020              | 1                          |
| 8/8/2020              | 1                          |
| 7/3/2020              | 1                          |
| 6/6/2020              | 1                          |
| 12/6/2019             | 2                          |
| 10/5/2019             | 3                          |
| 4/5/2019              | 1                          |
| 2/2/2019              | 1                          |
| 5/6/2017              | 1                          |
| 4/9/2017              | 1                          |

NOTE: It is expected that the official precinct registration might be missing a few people who hadn't provided proof of citizenship prior, and has until 7pm on election day to provide this information; or those who qualify for UOCAVA who are allowed to register to vote up until 7pm on election day. However, in both cases you would expect these individuals to be in the November 7<sup>th</sup> rolls, which occurs after the election.

NOTE: Please see Appendix A for a copy of the VM55 Final Voted File joined to the appropriate rows of data from all of the above VM34s. This file is utilized as the basis for every finding that requires both VM55 and VM34 data.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Republican Party      | 37.06% |
| Democrat Party        | 34.79% |
| Prefer Not to Declare | 26.54% |
| Libertarian Party     | 1.13%  |
| Independent           | 0.49%  |

### 5.6.1.1 REFERENCES

- A.R.S. § 16-168 - Precinct registers<sup>25</sup>

### 5.6.1.2 DATA FILES UTILIZED

| File Name                                           | MD5 Hash                         |
|-----------------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ       | 43070bc7afdf40a37cd45092e9733654 |
| Maricopa County-VM34 Voter Registration Oct 2, 2020 | 99a4440ae9bab7f0de96d7656b4e739d |
| Maricopa County-VM34 Voter Registration Nov 7, 2020 | d7bfc018296832836d2bd8de440cba53 |
| Maricopa County-VM34 Voter Registration Dec 4, 2020 | 255f69007b253c7f2737b050c439f269 |

### 5.6.1.3 RECOMMENDATION

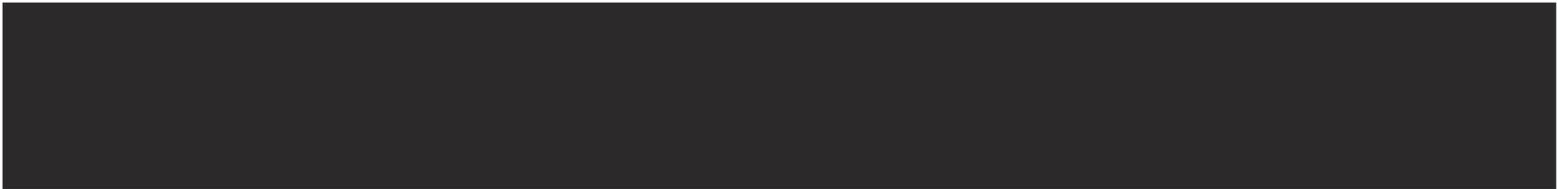
Legislation should be considered that will require that the precinct registers be complete and comprehensive of every individual who could legally vote for the election.

<sup>25</sup> <https://www.azleg.gov/ars/16/00168.htm>

5.6.2 DUPLICATED BALLOTS INCORRECT & MISSING SERIAL NUMBERS

Damaged Ballots sent to duplication must have a serial number that can be matched to the duplicate (replacement ballot). Many damaged ballots sent to duplication do not have a serial number, and multiple duplicated ballots have incorrect serial numbers that do not match the original ballots. The County must “record an identical serial number on both the original and duplicate ballot (including spoiled duplicates) – this ties the ballots together and creates a paper trail as required by statute, A.R.S. § 16-621(A)”

In addition, there are hundreds of damaged ballots with unreadable serial numbers like these examples below:

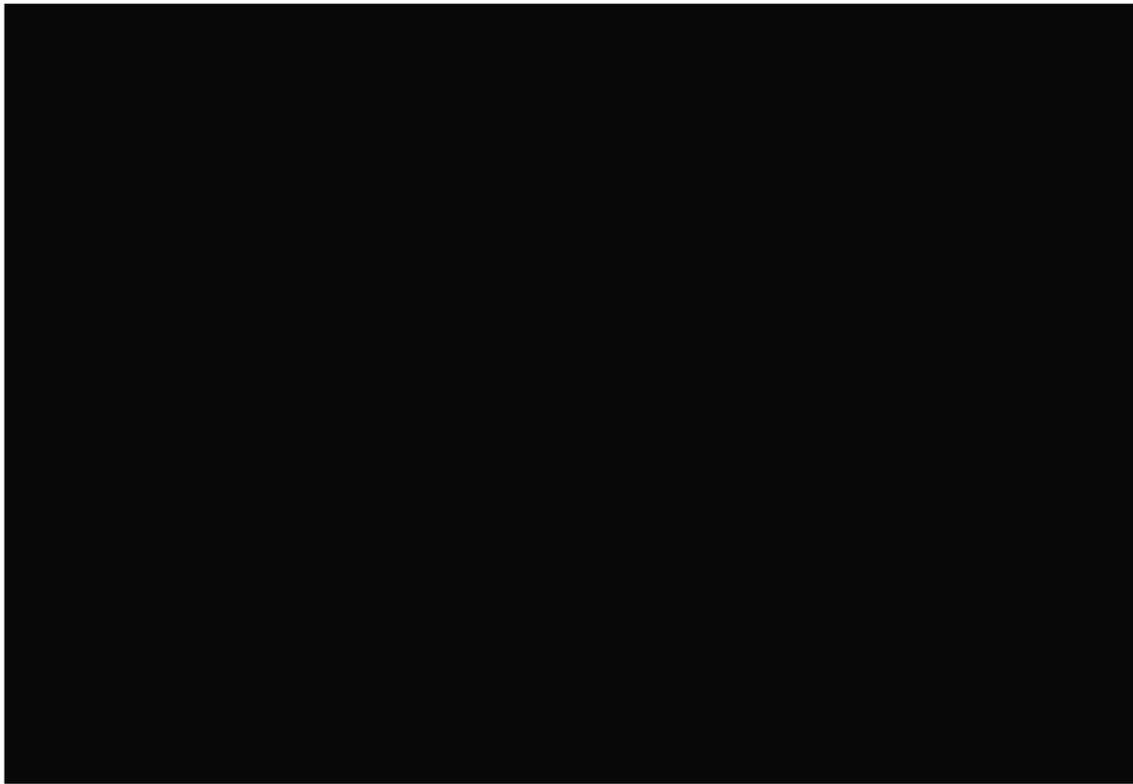


Of those original ballots that had a readable serial number, several of them had incorrect serial numbers. In some cases, as shown in the example below, the audit team was able to identify the original ballot and the duplicate ballot based on a series of precinct, ballot type and presidential selection. The five ballots in the table below had incorrect serial numbers on the duplicate ballot.

| Duplicate Ballot Serial Number | Precinct | Ballot Type | Presidential Selection | Original Damaged Ballot Serial Number |
|--------------------------------|----------|-------------|------------------------|---------------------------------------|
| DUPBOARD3HAND0214              | 643      | 0           | Biden                  | Board 1 Hand Dup 214                  |
| DUPBOARD3HAND0215              | 239      | 99          | Trump                  | Board 1 Hand Dup 215                  |
| DUPBOARD3HAND0216              | 391      | 99          | Biden                  | Board 1 Hand Dup 216                  |
| DUPBOARD3HAND0217              | 144      | 99          | Biden                  | Board 1 Hand Dup 217                  |
| DUPBOARD3HAND0218              | 492      | 0           | Biden                  | Board 1 Hand Dup 218                  |



*Segment Trailer Sheet showing precinct and ballot type*



*UOCAVA Ballot Image showing precinct, ballot type*

#### 5.6.2.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>26</sup>
- A.R.S. § 16-621 – Proceedings at the counting center<sup>27</sup>

#### 5.6.2.2 RECOMMENDATION

Legislation should be considered that requires regular audits of the duplicate ballot process.

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<sup>26</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>27</sup> <https://www.azleg.gov/ars/16/00621.htm>

5.6.3 BALLOTS RETURNED NOT IN THE FINAL VOTED FILE

Ballots show as returned in the EV33 Early Voting Returns File but there is no matching record in the VM55 Final Voted File. All entries in the EV33 file show with a ballot status of “Returned” and the only other status of “Voided Early Ballot” is not used anytime in the 2020 General Election.

The most likely explanation is that these ballots represent rejected ballots. However, the number of ballots in question, 2,472, does not match the 2,976 ballots that were rejected (2,042) or late (934). It is expected there should be a full accounting of all ballots received and voted that can be matched up to individual voter participation.

NOTE: Please see Appendix K1 for a list of all the EV33 entries that cannot be found in the VM55 file.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Republican Party      | 33.25% |
| Democrat Party        | 32.12% |
| Prefer Not to Declare | 29.41% |
| Independent           | 3.84%  |
| Libertarian Party     | 1.05%  |
| Green Party           | 0.25%  |
| Independent           | 0.08%  |

5.6.3.1 REFERENCES

- A.R.S. 16-542 – Request for ballot<sup>28</sup>
- A.R.S. 16-246 – Early Balloting<sup>29</sup>

<sup>28</sup> <https://www.azleg.gov/ars/16/00542.htm>

<sup>29</sup> <https://www.azleg.gov/ars/16/00246.htm>

### 5.6.3.2 DATA FILES UTILIZED

| File Name                                     | MD5 Hash                         |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |
| EV33-1377-10-09-2020_101111.txt               | f1daa7089f7300237f6b4ff779661cf9 |
| EV33-1377-10-12-2020_113210.txt               | 72e4e6c102e3539b4dd15b4454357b69 |
| EV33-1377-10-13-2020_111553.txt               | 9b14841281c031533322b50aabb86a24 |
| EV33-1377-10-14-2020_112757.txt               | 1b7537d7d9b927dbf4e462ed5ee8f97c |
| EV33-1377-10-15-2020_121331.txt               | dec7d08dde4970c26e32b8c844f4a9ab |
| EV33-1377-10-16-2020_113522.txt               | f0a632c3fd9b5f177d48504dc119be31 |
| EV33-1377-10-19-2020_111708.txt               | db80b692a9188add0844a8974e227287 |
| EV33-1377-10-20-2020_112351.txt               | 57d1795db8be71d516e29350e347fb3a |
| EV33-1377-10-21-2020_111843.txt               | 56c3b5a11651c68735164c578eade4e1 |
| EV33-1377-10-22-2020_111714.txt               | 03551f170bf758efc90c013d0fe2e467 |
| EV33-1377-10-23-2020_112614.txt               | dbfdd369ac148723540c83f614cca454 |
| EV33-1377-10-26-2020_111318.txt               | 0b68adff779f59c70a530000bf989aca |
| EV33-1377-10-27-2020_111413.txt               | a6fc7377bf6c6fe6653f539c5970a6f7 |
| EV33-1377-10-28-2020_111331.txt               | 43758b9290f90d0305d5ed84aa10becb |
| EV33-1377-10-29-2020_111300.txt               | 410b30b06f2ca73022f27173fe114038 |
| EV33-1377-10-30-2020_111804.txt               | 5cb44e5ea214f40227e04345d4355ff7 |
| EV33-1377-11-02-2020_111214.txt               | 5d15bb8686a022f53400550cfe010a07 |

### 5.6.3.3 RECOMMENDATION

Legislation should be considered that requires that the various election related systems to properly integrate in order to give accurate and consistent counts between the mail-in ballots cast, mail-in ballots received, mail-in ballots accepted, mail-in ballots rejected, and be able to reconcile these details with who voted in the final voted file.

5.6.4 MAIL-IN BALLOT RECEIVED WITHOUT RECORD OF BEING SENT **Ballots Impacted** 397

Ballots show as returned in the EV33 Early Voting Returns File for a voter who voted by mail but there is no matching record in the EV32 Early Voting Sent File showing that a ballot was ever sent. This most likely means that there was a clerical error in the EV32 Early Voting Sent Files and ballots that were sent out legitimately were not recorded.

NOTE: At an earlier hearing it was stated that there were 74,243 entries in EV33 Early Voting Returns Files without a corresponding entry in the EV32 Early Voting Sent Files. This was brought up in the context of justification for performing canvassing to further validate the reasoning for this discrepancy. While this discrepancy is accurate, it was unintentionally misleading. All but 397 of those entries were Early Voting in-person votes which also generate an EV33 entry in addition to mail-in ballots.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Democrat Party        | 33.25% |
| Republican Party      | 31.49% |
| Prefer Not to Declare | 29.72% |
| Independent           | 3.53%  |
| Libertarian Party     | 2.02%  |
| Green Party           | 0.08%  |

NOTE: Please see Appendix L1 for a complete list of the voters who had a ballot received, but there is no record of a ballot being sent.

#### 5.6.4.1 REFERENCES

- [A.R.S. 16-542 – Request for ballot](#)<sup>30</sup>
- [A.R.S. 16-246 – Early Balloting](#)<sup>31</sup>

#### 5.6.4.2 DATA FILES UTILIZED

| File Name                                     | MD5 Hash                         |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |
| EV33-1377-10-09-2020_101111.txt               | f1daa7089f7300237f6b4ff779661cf9 |
| EV33-1377-10-12-2020_113210.txt               | 72e4e6c102e3539b4dd15b4454357b69 |
| EV33-1377-10-13-2020_111553.txt               | 9b14841281c031533322b50aabb86a24 |
| EV33-1377-10-14-2020_112757.txt               | 1b7537d7d9b927dbf4e462ed5ee8f97c |
| EV33-1377-10-15-2020_121331.txt               | dec7d08dde4970c26e32b8c844f4a9ab |
| EV33-1377-10-16-2020_113522.txt               | f0a632c3fd9b5f177d48504dc119be31 |
| EV33-1377-10-19-2020_111708.txt               | db80b692a9188add0844a8974e227287 |
| EV33-1377-10-20-2020_112351.txt               | 57d1795db8be71d516e29350e347fb3a |
| EV33-1377-10-21-2020_111843.txt               | 56c3b5a11651c68735164c578eade4e1 |
| EV33-1377-10-22-2020_111714.txt               | 03551f170bf758efc90c013d0fe2e467 |
| EV33-1377-10-23-2020_112614.txt               | dbfdd369ac148723540c83f614cca454 |
| EV33-1377-10-26-2020_111318.txt               | 0b68adff779f59c70a530000bf989aca |
| EV33-1377-10-27-2020_111413.txt               | a6fc7377bf6c6fe6653f539c5970a6f7 |
| EV33-1377-10-28-2020_111331.txt               | 43758b9290f90d0305d5ed84aa10becb |
| EV33-1377-10-29-2020_111300.txt               | 410b30b06f2ca73022f27173fe114038 |
| EV33-1377-10-30-2020_111804.txt               | 5cb44e5ea214f40227e04345d4355ff7 |
| EV33-1377-11-02-2020_111214.txt               | 5d15bb8686a022f53400550cfe010a07 |
| EV32-1377-09-18-2020_075112.txt               | ab22e9ba4ad54af1b7a47f8381d506c7 |
| EV32-1377-09-30-2020_111728.txt               | 2e4df9ccf2e5e64fd7e164628ff7667a |

<sup>30</sup> <https://www.azleg.gov/ars/16/00168.htm>

<sup>31</sup> <https://www.azleg.gov/ars/16/00246.htm>

| File Name                                                     | MD5 Hash                         |
|---------------------------------------------------------------|----------------------------------|
| EV32-1377-10-01-2020_113125.txt                               | 92538fe838c7c872957d155a98290874 |
| EV32-1377-10-02-2020_125658.txt                               | be7d44838daa2aa758a0adb1dfe88acd |
| EV32-1377-10-05-2020_112338.txt                               | 31a356a1a1826639759fc66afb812498 |
| EV32-1377-10-06-2020_114600.txt                               | cb70c4468ebd51142003e46e3e1257c4 |
| EV32-1377-10-07-2020_111951.txt                               | 185d423606927ba15f827e19329c02aa |
| EV32-1377-10-08-2020_111639.txt                               | 4f82598b6fab071300e92b8f56407451 |
| EV32-1377-10-09-2020_112718.txt                               | bdf22cce7eca5eeb0b52dbb9f87a54b6 |
| EV32-1377-10-12-2020_113153.txt                               | 67a7ab52ab0850127528b18667eaf5c6 |
| EV32-1377-10-13-2020_111535.txt                               | 81af1c0b010368d0e11cc68e8a21f2e6 |
| EV32-1377-10-14-2020_112738.txt                               | e88cce6a8a27b5bf755765f516710c48 |
| EV32-1377-10-15-2020_121305.txt                               | 2f12b801d981afc0e4e114bdfbf4241c |
| EV32-1377-10-16-2020_113410.txt                               | 46a251f88fdd1d2e2352ac1dc61fffa9 |
| Maricopa_EV32-1377-10-19-2020_111633-2020-10-20T14 53 30Z.txt | 9cd6e80c07e1f33129cf98302930abb6 |
| Maricopa_EV32-1377-10-20-2020_112309-2020-10-21T15 13 12Z.txt | e3cc25b520b5710090f4dfff2d7fce7f |
| Maricopa_EV32-1377-10-21-2020_111759-2020-10-22T15 08 54Z.txt | e786fec02788d0b7c4392ca5b1cd284e |
| Maricopa_EV32-1377-10-22-2020_111639-2020-10-23T15 03 40Z.txt | 86ea315f6bce7c0c902027b5373f6e2c |
| Maricopa_EV32-1377-10-23-2020_112532-2020-10-26T15 00 59Z.txt | ca42553da16ea38cf2b72f29b81a990f |

#### 5.6.4.3 RECOMMENDATION

It is recommended that the Attorney General inquire of Maricopa County as to the reason for this discrepancy, and if a sufficient explanation is not received an investigation be opened to investigate this further.

**Ballots  
Impacted 393**

#### 5.6.5 VOTERS WITH INCOMPLETE NAMES

A.R.S. 16-152 requires that the form used for the registration of electors shall contain the registrant's given name, middle name, if any, and surname.

The 11/07/2020 VM34 contains 720 voters with incomplete names. 393 of these voters voted in the 2020 General Election.

Examples of incomplete names include:

- Voters with only a last name
- Voters with only an initial for their last name
- Voters with an initial for their first name and last name
- Voters with no last name
- Voters with only an initial for their first name

NOTE: It is possible to have a legal name that is just an initial, or to not have a surname. However, this is extremely rare, and the list should be reviewed to determine its accuracy.

| Description                   | Number of voters |
|-------------------------------|------------------|
| Last name only                | 15               |
| Last name is an initial only  | 9                |
| No last name                  | 45               |
| First name is an initial only | 324              |
| <b>Total</b>                  | <b>393</b>       |

The 2019 Elections Procedure Manual addresses failure to provide name. “If the State Form, Federal Form, FPCA, or FWAB does not contain the registrant’s name, residence address or location, DOB, or signature (or assisting person’s signature), but the County Recorder has the address, telephone number, or email address to contact the registrant to request the incomplete information, the registrant should be entered into the voter registration database in a “suspense” status until the incomplete information or a new voter registration form is received. A.R.S. § 16-134(B); A.R.S. § 16-121.01(A).” (pgs. 18-19)

If the registrant does not provide the missing, incomplete, or illegible information by 7:00 p.m. on the date of the next regular general election, the registration form is invalid and the registrant’s status may be changed from “suspense” to “not registered,” with the reason code “pending expired” (or functional equivalent). The registrant would need to submit a new voter registration application to be eligible to vote in future elections. (pg. 19)

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Democrat Party        | 34.35% |
| Republican Party      | 32.57% |
| Prefer Not to Declare | 24.43% |
| Independent           | 6.87%  |
| Libertarian Party     | 1.27%  |
| Green Party           | .51%   |

NOTE: Please see Appendixes M1 and M2 for a list of voters with incomplete names who voted, and a list of all incomplete names on the November 7, 2020 voter rolls.

### 5.6.5.1 REFERENCES

- [A.R.S. 16-152 – Registration Form](#)<sup>32</sup>
- [State of Arizona - 2019 Elections Procedure Manual](#)<sup>33</sup>

### 5.6.5.2 DATA FILES UTILIZED

| <u>File Name</u>                              | <u>MD5 Hash</u>                  |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |

### 5.6.5.3 RECOMMENDATION

Legislation should be considered that requires the voter registration entries be a direct match with any acceptable form of government identification, and always checked against that identification to validate compliance. If existing laws are sufficient that this should be occurring, additional legislation should be considered to increase the likelihood of compliance such as penalties.

5.6.6 DECEASED VOTERS **Ballots Impacted** 282

The Final Voted File, or VM55, was cross-checked against a commercially available data source provided by Melissa<sup>34</sup> called Personator, and it was found that 282 individuals who were flagged as deceased prior to October 5, 2020, voted in the election.

Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service’s National Change of Address (NCOA) service, and the Social Security Administration’s Master Death List.

NOTE: It is recommended that the Attorney General further investigate this finding to confirm the validity of this finding, and if applicable, determine who cast the vote on behalf of the deceased individual.

<sup>32</sup> <https://www.azleg.gov/ars/16/00152.htm>

<sup>33</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>34</sup> <https://www.melissa.com>

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Republican Party      | 49.65% |
| Democrat Party        | 30.14% |
| Prefer Not to Declare | 12.77% |
| Independent           | 7.09%  |
| Libertarian Party     | 0.35%  |

NOTE: Please see Appendix N1 for a complete list of individuals who show as being dead in Melissa.

5.6.6.1 DATA FILES UTILIZED

| File Name                                     | MD5 Hash                         |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |

5.6.6.2 RECOMMENDATION

Legislation should be considered to require the voter rolls to periodically be compared against the Social Security’s Master Death List, or other commercially available tools that gives access to this information. A minimum frequency on to conduct this should specifically be required.

5.6.7 AUDIT UOCAVA COUNT DOES NOT MATCH THE EAC COUNT

**Ballots Impacted** 226

The Uniformed and Overseas Citizens Absentee Voting Act (UOCAVA) requires all counties in the United States to report data related to the ability of civilian, military, and overseas citizens to register to vote and successfully cast a ballot. Analysis of the data submitted by Maricopa to the US Election Commission shows discrepancies in the number of ballots reported by the County to the EAC and the number of ballots observed during the audit. The audit team found 226 more electronically submitted UOCAVA ballots than the County reported to the EAC. Any UOCAVA ballots returned by mail were not identified as UOCAVA. Therefore, the audit team used the County mail numbers reported to the EAC. A Public Records Request for UOCAVA data was submitted to the Arizona Secretary of State but as of this date, no records have been provided in response to that request.

**Election Administration Voting Survey 2020 vs Audit Counts**

| UOCAVA Type    | EAVS 2020 | Audit Count | Discrepancy |
|----------------|-----------|-------------|-------------|
| Electronically | 8,988     | 9,214       | -226        |
| Mail           | 1,420     | Comingled   | Unknown     |
| Total          | 10,408    | -           | -           |

While many people believe that UOCAVA is a law that primarily enables active-duty military men and women to vote, it is used more often by non-military voters. See below table of the total number of Civilian vs Military voters who were UOCAVA eligible in Maricopa County based on the November 07, 2020, VM34 Monthly Voter Rolls.

| Military Returned Ballots | Military % of UOCAVA | Civilian Ballots Returned | Civilian % of UOCAVA |
|---------------------------|----------------------|---------------------------|----------------------|
| 4,359                     | 35%                  | 7,934                     | 65%                  |

The law allows military voters who are out of their home county to vote electronically. However, non-military voters (civilians) who are not out of the country are not eligible to vote electronically. According to Maricopa County’s UOCAVA Map website, more than 140 civilians – who were not UOCAVA eligible due to being in the United States--were permitted to vote via UOCAVA in the 2020 General Election.

The Uniformed and Overseas Citizens Absentee Voting Act defines eligibility as:

- A member of a uniformed service on active duty who, by reason of such active duty, is absent from the place of residence where the member is otherwise qualified to vote;
- A member of the merchant marines who, by reason of service in the merchant marine, is absent from the place of residence where the member is otherwise qualified to vote; or
- A spouse or dependent of a member referred to above who, by reason of the active duty or service of the member, is absent from the place of residence where the spouse or dependent is otherwise qualified to vote.
- An absent uniformed services voter who, by reason of active duty or service is absent from the United States on the date of the election involved;
- A person who resides outside the United States and is qualified to vote in the last place in which the person was domiciled before leaving the United States; or
- A person who resides outside the United States and (but for such residence) would be qualified to vote in the last place in which the person was domiciled before leaving the United States

Maricopa County shows that there are 12,293 eligible UOCAVA voters based on the November 7, 2020, VM34 Monthly Voter Rolls. Of these UOCAVA ballots transmitted, 85% or 10,408 were reported as returned. Historically, approximately 68% of UOCAVA voters return their ballot.

#### 5.6.7.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>35</sup>
- Maricopa County UOCAVA Map Website<sup>36</sup>
- US Election Commission 2020 Survey Results<sup>37</sup>
- US Election Commission 2016 Survey Results<sup>38</sup>

<sup>35</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>36</sup> <https://recorder.maricopa.gov/uocavamap/>

<sup>37</sup> <https://www.eac.gov/research-and-data/studies-and-reports>

<sup>38</sup> [https://www.eac.gov/sites/default/files/eac\\_assets/1/6/2016\\_EAVS\\_Comprehensive\\_Report.pdf](https://www.eac.gov/sites/default/files/eac_assets/1/6/2016_EAVS_Comprehensive_Report.pdf)

### 5.6.7.2 DATA FILES UTILIZED

| <u>File Name</u>                                    | <u>MD5 Hash</u>                  |
|-----------------------------------------------------|----------------------------------|
| 11-03-2020-0 Canvass COMPLETE NOV2020               | ce62cc061b6bb56b4fd40aa4866adb16 |
| Maricopa County-VM34 Voter Registration Nov 7, 2020 | d7bfc018296832836d2bd8de440cba53 |

### 5.6.7.3 RECOMMENDATION

Legislators should consider auditing the UOCAVA voting system to determine whether any changes are required to ensure the integrity of the vote.

### 5.6.8 LATE REGISTERED VOTERS WITH COUNTED VOTES Ballots Impacted 198

Individuals who registered to vote after the October 15<sup>th</sup> deadline were allowed to cast a vote and these votes were counted. The Final Voted File, or the VM55, is the official record of who cast a vote for a given election. This file does not contain the Date of Registration for individuals who voted in the election, but it does include each person's Voter ID which can be cross referenced against the Full Voter File, or VM34, to get the registration date value.

It would be expected that either the October or the November VM34 file would contain all of the registered voters that voted in on the November 2020 General Election, but this was not the case. It took 12 different VM34 files ranging from April 9, 2017, to December 4<sup>th</sup>, 2020, to find all of the Voter IDs found in the Final Voted VM55 File for the 2020 General Election.

When utilizing multiple Full Voter Files that span multiple years it can get complicated to determine which data for a given Voter ID should be utilized when that Voter ID is found in more than one file. For the purpose of our analysis for this and other findings we assumed that the November 7, 2020, VM34 file would be the most accurate since it was right after the election, and the only VM34 officially provided by Maricopa County as part of a subpoena.

As a result, we loaded the data from VM34 files for every month from January 2017 through December 2020 into a database. First, we loaded the December 4, 2020, VM34 file. We then subsequently loaded the VM34 files from the oldest to the newest, with each subsequent VM34 file replacing the stored data for any Voter ID that had existed in a prior load and finishing with the November 7, 2020, file. This ensured that we always had the most current data for a given Voter ID, and the latest data from the last time a given Voter ID showed up in a VM34 file would always be utilized.

This composite VM34 file was then matched up with the VM55 file to provide additional details for all voters within the Final Voted VM55 file.

In all, it required data from the following VM34 files to match all the data:

| <u>VM34 File Date</u> | <u># Of Matched Voters</u> |
|-----------------------|----------------------------|
| 12/4/2020             | 605                        |
| 11/7/2020             | 2,089,465                  |
| 9/5/2020              | 1                          |
| 8/8/2020              | 1                          |
| 7/3/2020              | 1                          |
| 6/6/2020              | 1                          |
| 12/6/2019             | 2                          |
| 10/5/2019             | 3                          |
| 4/5/2019              | 1                          |
| 2/2/2019              | 1                          |
| 5/6/2017              | 1                          |
| 4/9/2017              | 1                          |

When building this file in this manner there were 198 voters registered after October 15<sup>th</sup> who voted in the election and had their vote counted, according to the Final Voted File.

NOTE: Individuals who register according to the Uniformed and Overseas Citizens Absentee Voting Act (UOCAVA) were not included in this list as the rules for UOCAVA allow registration up to 7:00pm on election day.

NOTE: Publicly, we had stated that there were 3,981 individuals who had registered after October 15<sup>th</sup> and voted. This was based on a wrong assumption by one of our data analysts who concluded that the only way the Official Canvass could match the Final Voted VM55 file was if those voters flagged as "Q," or uncounted provisional ballots, were in fact counted in the Official Canvass. While the discrepancy between the Official Canvass and the VM55 numbers are very similar to that number, assumptions should not have been made as to the reasoning for that.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| <b>Party</b>          | <b>%</b> |
|-----------------------|----------|
| Republican Party      | 33.84%   |
| Democrat Party        | 31.82%   |
| Prefer Not to Declare | 33.33%   |
| Independent           | 0.51%    |
| Libertarian Party     | 0.51%    |

NOTE: Please see Appendix A for the complete VM55 Final Voted File with all of the various VM34 files.

NOTE: Please see Appendix O1 for a list of the late registered voters who voted.

### 5.6.8.1 REFERENCES

- [A.R.S. § 16-152 – Registration Form](#)<sup>39</sup>
- [A.R.S. § 16-120 – Eligibility to vote](#)<sup>40</sup>
- [A.R.S. § 16-101 – Qualifications of registrant](#)<sup>41</sup>

### 5.6.8.2 DATA FILES UTILIZED

| File Name                                           | MD5 Hash                         |
|-----------------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ       | 43070bc7afdf40a37cd45092e9733654 |
| Maricopa County-VM34 Voter Registration Oct 2, 2020 | 99a4440ae9bab7f0de96d7656b4e739d |
| Maricopa County-VM34 Voter Registration Nov 7, 2020 | d7bfc018296832836d2bd8de440cba53 |
| Maricopa County-VM34 Voter Registration Dec 4, 2020 | 255f69007b253c7f2737b050c439f269 |

### 5.6.8.3 RECOMMENDATION

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. This would prevent the entry of invalid data. Specifically, its recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years.

### 5.6.9 DATE OF REGISTRATION CHANGES TO EARLIER DATE

**Ballots  
Impacted** 193

Dates of Registration in the Full Voter File, also known as a VM34, are periodically changing, including changing to earlier dates. Dates of Registration are significant because they can determine if someone is eligible to vote in an election, or if they're not eligible. Based on communications with the Maricopa County Recorder's Office, Dates of Registration should never change except for fixing the occasional mistake.

A review of the November 7, 2020, VM34 file and subsequent VM34 files for the remainder of 2020 and into 2021 show 891 dates of registration changes that would have made someone eligible to vote in the November 2020 General Election when their date of registration shown on the November 7<sup>th</sup> file would have prohibited it. Out of these 890 dates of registration, 193 had their votes counted in the 2020 General Election despite still having an ineligible date of registration on the November 7<sup>th</sup> VM34.

<sup>39</sup> <https://www.azleg.gov/ars/16/00152.htm>

<sup>40</sup> <https://www.azleg.gov/ars/16/00120.htm>

<sup>41</sup> <https://www.azleg.gov/ars/16/00101.htm>

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Prefer Not to Declare | 34.20% |
| Republican Party      | 33.16% |
| Democrat Party        | 31.61% |
| Independent           | 0.52%  |
| Libertarian Party     | 0.52%  |

NOTE: Please see Appendix P1 for more details on the voters whose registration dates were changed to an earlier date.

----- Forwarded Message -----  
From: voterinfo - RISCX <voterinfo@risc.maricopa.gov>  
To: [REDACTED]  
Sent: Friday, September 3, 2021, 04:51:57 PM MST  
Subject: RE: Customer Website Comments - Voter Information

Hello [REDACTED]

Thank you for your questions.

**Are there any circumstances in which someone's registration date can change?**

Generally, a voter's date of registration does not change outside of correcting a mistake. The date of registration is the date where the voter first registered to vote in in the county, while any updates to a voter's registration is tracked separately.

The only time a voter may have two dates of registration is if their registration has previously been cancelled and the voter registers again. The original record could be cancelled for a variety of reasons, including death of the voter, voter request, or the voter has moved outside Maricopa County. Only the latest voter registration record is considered valid and a voter cannot use their cancelled record.

**Does it always reflect the original registration in Maricopa County or can someone transfer a registration from another county?**

The date of registration will always reflect the original date of registration in the county where the voter lives. Voter rolls are maintained at the county level, so counties only keep records of the voters in their jurisdiction. For example, Maricopa County can process and access records for our 2.6 million voters, but we do not keep records of Pima County voters.

If a voter moves to another county or state, that voter will have to reregister in their new location. We cannot transfer a voter registration between counties or states.

### 5.6.9.1 REFERENCES

- [A.R.S. § 16-152 – Registration Form](#)<sup>42</sup>
- [A.R.S. § 16-120 – Eligibility to vote](#)<sup>43</sup>
- [A.R.S. § 16-101 – Qualifications of registrant](#)<sup>44</sup>

### 5.6.9.2 DATA FILES UTILIZED

| File Name                                           | MD5 Hash                         |
|-----------------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ       | 43070bc7afdf40a37cd45092e9733654 |
| Maricopa County-VM34 Voter Registration Oct 2, 2020 | 99a4440ae9bab7f0de96d7656b4e739d |
| Maricopa County-VM34 Voter Registration Nov 7, 2020 | d7bfc018296832836d2bd8de440cba53 |
| Maricopa County-VM34 Voter Registration Dec 4, 2020 | 255f69007b253c7f2737b050c439f269 |

### 5.6.9.3 RECOMMENDATION

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. Specifically, its recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years.

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<sup>42</sup> <https://www.azleg.gov/ars/16/00152.htm>

<sup>43</sup> <https://www.azleg.gov/ars/16/00120.htm>

<sup>44</sup> <https://www.azleg.gov/ars/16/00101.htm>

5.6.10 DUPLICATE VOTER IDS

Individuals were found within the voter rolls that had the same first name, last name, shared an address at one point in the past, and their birth years were within 10 years; suggesting they're the same person, but multiple Voter IDs. In all 186 cases both VoterIDs voted in the 2020 General Election.

NOTE: All Voter ID's associated with this finding can be found in Appendix Q1. This finding is not any clear indication of wrongdoing, and if wrongdoing occurred it may or may not have been the result of the individual whose Voter ID is listed in this report. It is recommended that the Attorney General follow-up further and determine if any additional action is needed.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Democrat Party        | 46.15% |
| Republican Party      | 30.77% |
| Prefer Not to Declare | 15.93% |
| Independent           | 5.49%  |
| Libertarian Party     | 1.65%  |

5.6.10.1 DATA FILES UTILIZED

| File Name                                           | MD5 Hash                         |
|-----------------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ       | 43070bc7afdf40a37cd45092e9733654 |
| Maricopa County-VM34 Voter Registration Nov 7, 2020 | d7bfc018296832836d2bd8de440cba53 |

5.6.10.2 RECOMMENDATION

Legislation should be considered that requires the periodic review of the voter rolls for duplicate entries by the same name and year of birth. Legislation should also be considered that would require voter registration to validate that no other registered voter on the rolls registered with the same valid identification. This would prevent both accidental and purposeful multiple registrations.

### 5.6.11 MULTIPLE VOTERS VINKED BY AFFSEQ

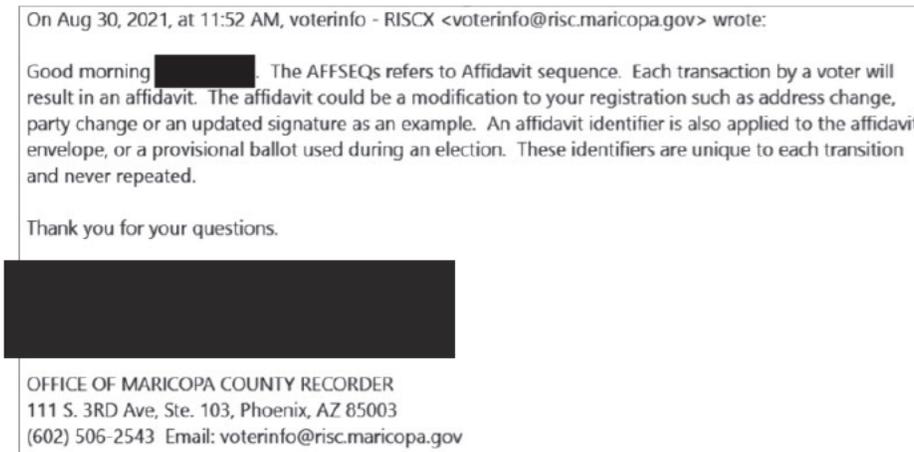
Each voter registration form has a unique, preprinted number on it much like a serial number on paper currency. This number is called an affidavit sequence number or AFFSEQ. It is preprinted, usually in the upper right-hand corner of every registration document. Each unique AFFSEQ number represents the specific registration document it is preprinted on.

Below is an example of an actual AFFSEQ number preprinted on a voter registration document. This specific AFFSEQ number [REDACTED] should only ever be associated with the voter and voter ID that filled out and signed this registration form this number was printed on.



The County uses AFFSEQ numbers and their corresponding registration documents to record any changes or updates to an individual voter's registration record. Every time a voter fills out a registration document, whether it be to register for the first time or to update their registration information with an address change, party change or signature update, the AFFSEQ number preprinted on their form is recorded in their voter record along with the date the form was signed by the registrant. A digital image of each registration document is created. The image is titled with the AFFSEQ number of the document it represents. The AFFSEQ identifier number is unique to each transaction, unique to the voter, and should never be repeated. As with paper currency, if more than one bill is found with the same serial number, then the bills are examined to determine which bill is the original and which is the duplicate.

Comparing the VM55 Final Voted file to the Maricopa County monthly VM34 files across time, between January 6, 2018-June 6, 2021, resulted in 5,711 instances where an affidavit sequence number was shared by multiple voters. It was confirmed with the County that AFFSEQ numbers are unique to the voter and should never be repeated.



Of the 5,711 instances of AFFSEQ numbers shared by multiple 2020 General Election voters, at least one vote was cast.

- In 101 of these instances, BOTH voter IDs linked by AFFSEQ voted in 2020 General Election.

160,223 AFFSEQ images were provided which is an extremely small percentage of the total AFFSEQ images that are recorded over time.

Upon examining hundreds of these AFFSEQ registration document images of voters sharing the same AFFSEQ number, it was found that:

- The same person is being assigned more than one voter ID number.
- Voter identities and their voter ID are being associated with other individuals with different names, addresses, identifying information and even of the opposite gender

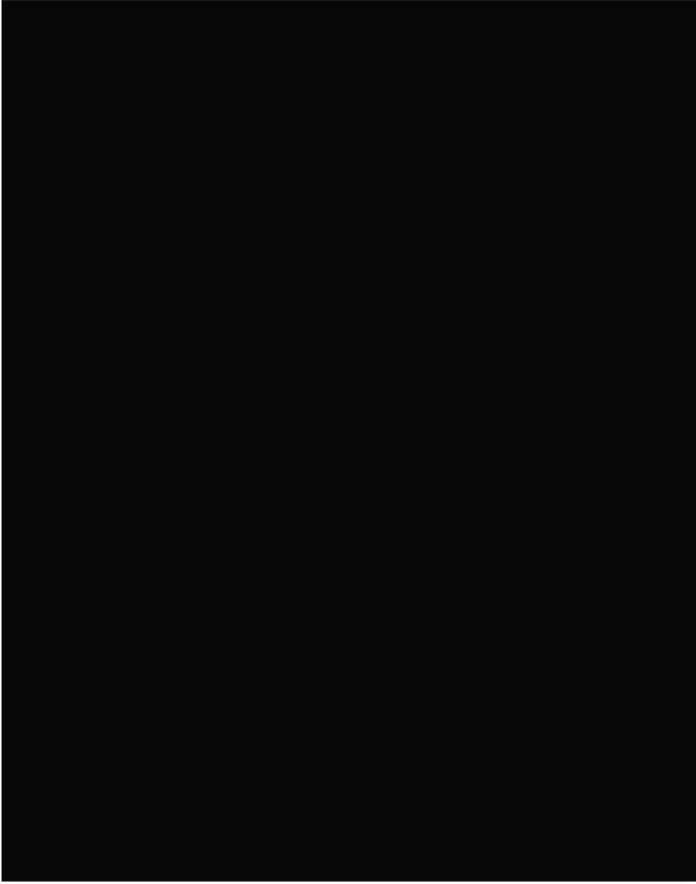
The registration document images of all shared AFFSEQ numbers need to be examined to determine which associated voter is correctly associated with the document.

Three samples of the types of issues we found in the 5,711 instances are documented below.

**Same Person with Two Different Voter ID's Linked by AFFSEQ-Both Voter IDs Voted in GE2020:**

In this sample instance, the same person, with her name misspelled in the voter registration database, shares an AFFSEQ with herself and also has two voter IDs. In the images below you can that the same person filled out two registration forms 10 days apart, she was given a unique voter ID in each instance even though both forms were filled out with the same name, address, birth date and phone number. A vote was cast by mail-in ballot for both voter IDs.

| VOTER ID   | Name | Address | DOB Year | Date of Registration | VM 34 File Name | Initial AFFSEQ | Initial Change Effective Date | Linked AFFSEQ | VM55 BALTYPE |
|------------|------|---------|----------|----------------------|-----------------|----------------|-------------------------------|---------------|--------------|
| [REDACTED] |      |         |          |                      |                 |                |                               |               |              |



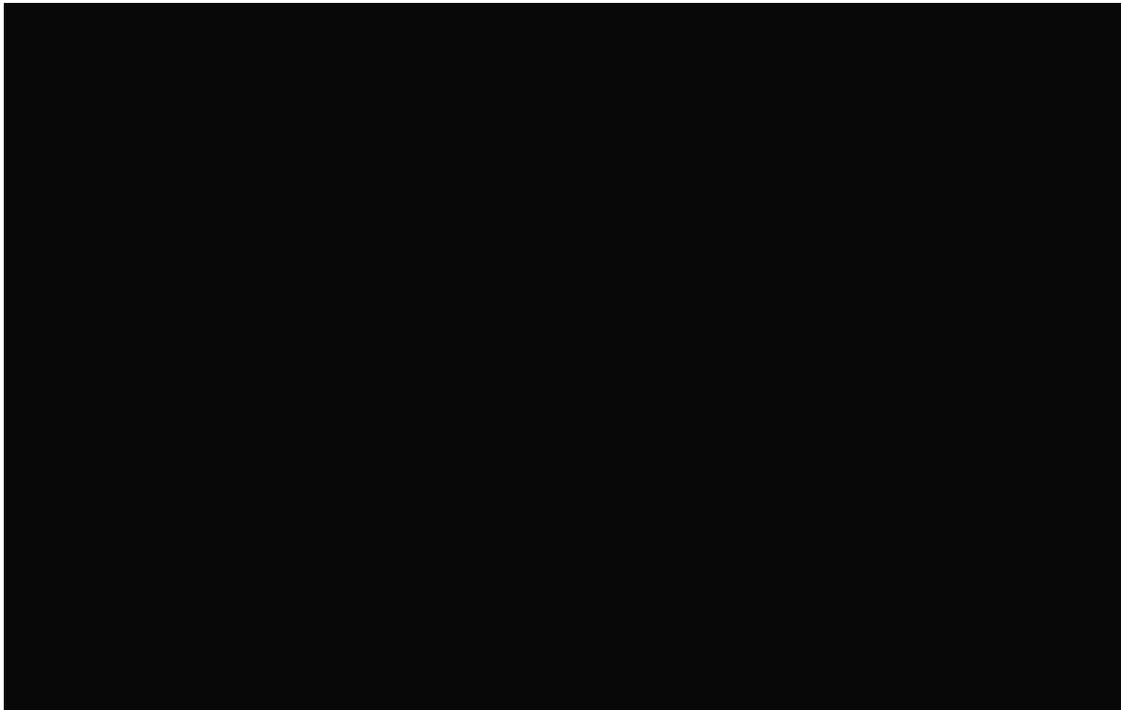
**Same Person with the Secondary Voter ID Given a Different Name and Address-Both Voter IDs Voted GE2020:**

The first image below shows the voter information for two voters that share the same AFFSEQ number, [REDACTED]. County records show that in the 1/6/2018 VM34 file that [REDACTED] shared the same AFFSEQ number with [REDACTED]. These two voters have different names, addresses, and birth years.

In the registration image below, you can see that J Lancaster filled out a registration form on 4/10/2018. The preprinted AFFSEQ number on the form was [REDACTED]. [REDACTED] lists his birthyear as 1978 on this form. It is listed as 1975 in his voter record. He included his driver's license number as identifying information. On this form in the lower right-hand corner, a county employee wrote the voter ID number [REDACTED], identifying the connection with that voter ID. In row 1 of the voter record below, you see that voter ID number [REDACTED] belongs to [REDACTED], not [REDACTED]. The County employee identified that J Lancaster was connected with [REDACTED] in some way. The date the County employee stamped this form is April 23, 2018. Both voter IDs were used to vote in the 2020 General Election.

In row 2 you can see that J Lancaster has a voter ID number of [REDACTED]. [REDACTED] address in the VM34 record is in Phoenix. This corresponds with his voter registration form below.

| VOTER ID   | Name       | Address    | Birth Year | Date of Registration | VM34 File Date | Initial AFFSEQ | Initial Change Effective Date | Linked AFFSEQ | VM55 BALTYPE |
|------------|------------|------------|------------|----------------------|----------------|----------------|-------------------------------|---------------|--------------|
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED]           | [REDACTED]     | [REDACTED]     | [REDACTED]                    | [REDACTED]    | [REDACTED]   |
| [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED]           | [REDACTED]     | [REDACTED]     | [REDACTED]                    | [REDACTED]    | [REDACTED]   |



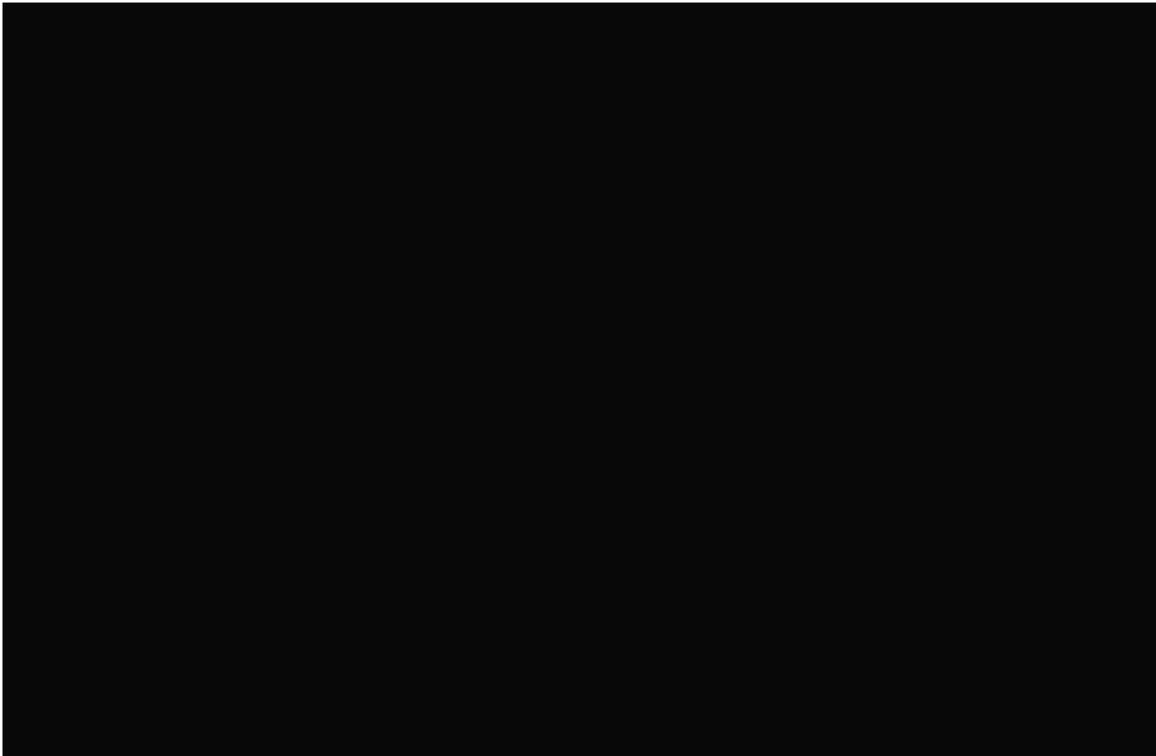
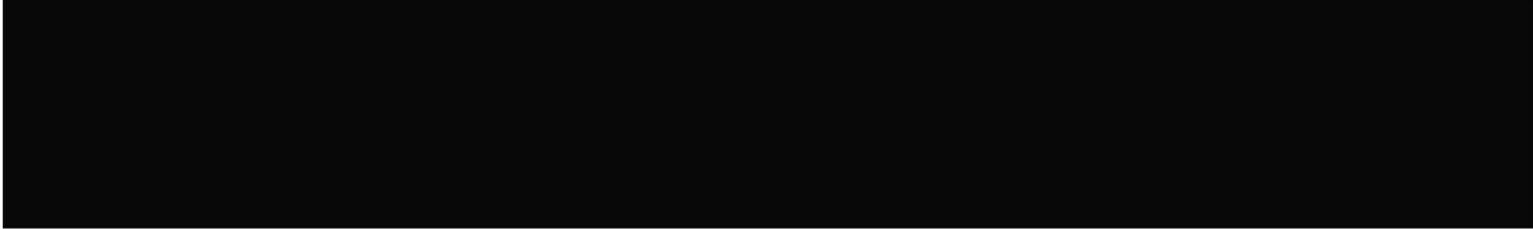
**Male Voter Filled Out Registration Form but a Female is Recorded as Associated with His Registration Form, Both Are Linked by AFFSEQ-Both Voter IDs Voted GE2020:**

Just as no two voters should share an AFFSEQ number, no two voters should share a voter ID number. The County confirmed that voter IDs are generated automatically and that they are never reused. It was found that not only are two voters sharing an AFFSEQ number, but they are also sharing a voter ID number.

██████████ registered to vote on 9/25/2018. The AFFSEQ on his registration form is ██████████. He was given voter ID number of ██████████. In row 1 below you can see that his voter ID number is now associated with ██████████, a female, at a different address in Phoenix. This unknown person who is using ██████████ original voter ID voted in the 2020 General Election using a mail in ballot. ██████████ voted in person on election day.

██████████ filled out a registration form again on ██████████. He was given voter ID number ██████████. ██████████ voted in 2020 General Election in person at the polls. We do not have an image of this voter registration as it was not in the limited AFFSEQ images supplied to us by the County.

| VOTER ID | Name | Address | Birth Year | Date of Registration | VM34 File Date | Initial AFFSEQ | Initial Change Effective Date | Linked AFFSEQ | VM55 BALTYPE |
|----------|------|---------|------------|----------------------|----------------|----------------|-------------------------------|---------------|--------------|
|----------|------|---------|------------|----------------------|----------------|----------------|-------------------------------|---------------|--------------|



NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %   |
|-----------------------|-----|
| Democrat Party        | 42% |
| Republican Party      | 33% |
| Prefer Not to Declare | 22% |
| Independent           | 2%  |
| Libertarian Party     | 1%  |

NOTE: Please see Appendix R1 for a complete list of users who have shared an AFFSEQ.

### 5.6.11.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>45</sup>

### 5.6.11.2 DATA FILES UTILIZED

| File Name                                     | MD5 Hash                         |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |
| VM34_20170107_113131.txt                      | fb675c6b6ad9757759a1e686ce87a17f |
| VM34_20170204_104417.txt                      | 02a1003bf8ddc1a0cc547032c73505db |
| VM34_20170305_102136.txt                      | 708ea30d01595f1552892a13e1c11eeb |
| VM34_20170409_044850.txt                      | 9b25f73a824589bd70e20fe02cb1f703 |
| VM34_20170506_094005.txt                      | d8bbaaccaffba5321ac4b22d7aaebf5e |
| VM34_20170604_014543.txt                      | ecb6f6760b313b135c6a9ba7e4d6369a |
| VM34_20170708_091800.txt                      | 76c897e712aba76072dff3fb68e8d29c |
| VM34_20170805_111659.txt                      | ad9f1e228123d67c9774d5c4de3a4442 |
| VM34_20170903_031323.txt                      | 05cfd1aa1f82392f99c65e394d526470 |
| VM34_20171008_021223.txt                      | 6e199b2b3fc9a98c78d4c3ee76727720 |
| VM34_20171103_103144.txt                      | c7890363fbaf1de622af2f589d0a48d4 |
| VM34_20171203_070930.txt                      | b796c93976f7d89cd53d09a26406fcf  |
| VM34_20180106_024335.txt                      | 74823063c6c04beb0ae2ba94789992b8 |
| VM34_20180203_063848.txt                      | 6b55c00202aa4edb39bb47bac27e7545 |
| VM34_20180302_095453.txt                      | 8c6e9e7edaaff58b2b4635c3ad56369c |
| VM34_20180406_081509.txt                      | fc3f8d71d9cdfebc10aeaf7fb5c4290b |
| VM34_20180504_093125.txt                      | fa683fa02fd0d9bfcbc52a106af6873e |
| VM34_20180602_102915.txt                      | c99fd11d76648af61948842161d1d197 |
| VM34_20180707_024237.txt                      | b6141774c149ea2f7695e230d5f78eb9 |
| VM34_20180803_115351.txt                      | 351a3107ef1a7e5a907c1137393216ee |
| VM34_20180907_091404.txt                      | 62e7d11db59dbb5be078b7a3374125be |
| VM34_20181005_112120.txt                      | 1b07988566c762821d625a0477269d3c |
| VM34_20181102_105026.txt                      | cb73855d70509a13a52beedde18666a3 |
| VM34_20181209_032523.txt                      | 9838a26c37f016d0e87adb43a9501707 |
| VM34_20190106_084008.txt                      | 6f4be0c41404d12bb0f6ff69d8f27a28 |
| VM34_20190202_063949.txt                      | cc8a7b9b1cf66a9b8fce0905df71af74 |
| VM34_20190302_090830.txt                      | 15ec5c127b37ec91c1c14708e7a9421d |
| VM34_20190405_074946.txt                      | fb6ecbf069154cbb8149d4af8348c6c4 |
| VM34_20190503_080954.txt                      | b130edae7a4ae04afcf8e459c085fc2d |
| VM34_20190608_035533.txt                      | 301287923fc8327b259c286712f0b38c |
| VM34_20190705_102047.txt                      | b89551ec6616a148a0a6eb0d9a9eb9a4 |
| VM34_20190802_093213.txt                      | b2517193b03f9820c3588789890cd505 |
| VM34_20190906_115511.txt                      | 7fe4f70c92e995a87cd67c69feac348a |
| VM34_20191005_075436.txt                      | 30cd819a5b53759ebd9b35fcf4f2f515 |

<sup>45</sup> [https://azsos.gov/sites/default/files/2019 ELECTIONS PROCEDURES MANUAL APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

| File Name                   | MD5 Hash                         |
|-----------------------------|----------------------------------|
| VM34_20191206_062132.txt    | 4d7d56540c50bcb9efd53882f65dafa9 |
| VM34ALL_20201107_003451.txt | d7bfc018296832836d2bd8de440cba53 |
| VM34_20200103_062658.txt    | ea5eb36acb1f3a20204fc860578755bc |
| VM34_20200208_124009.txt    | cb840187d01b8d26f4a192a29de0729a |
| VM34_20200306_114048.txt    | 92b41e30958182e994ff86b5600c9002 |
| VM34_20200403_113114.txt    | 5460b45b91f6709ee118e2385020b102 |
| VM34_20200502_014453.txt    | c44bf7968e9bf4fde446f5c43da584ef |
| VM34_20200606_001100.txt    | 1d8b12eea610b5b55f07d9fad1d8af80 |
| VM34_20200703_213734.txt    | 47afb6e874c859a08c4105f912981330 |
| VM34_20200808_004341.txt    | 8cb279714659f945f154129ea757f677 |
| VM34_20200905_001156.txt    | 11ec4b2896389484429edbabb5a717bd |
| VM34_20201002_235246.txt    | 99a4440ae9bab7f0de96d7656b4e739d |
| VM34_20201204_214820.txt    | 255f69007b253c7f2737b050c439f269 |
| VM34_20210101_194641.txt    | 55e2e5308c1c818ab64e58b2952d63cc |
| VM34_20210205_184914.txt    | 3c1a1c1a8400464de6a4730d4e50f6c3 |
| VM34_20210305_191848.txt    | af6f78181173c9e7cad7e5f17029dd20 |
| VM34_20210402_214448.txt    | 2fa8f197af888c6e0604ac9ca849aa1b |
| VM34_20210507_194658.txt    | 3a7e950b1d9e0d657a4a45e0b22506a5 |
| VM34_20210604_190336.txt    | 30f1fe36c5ad4eac2a7ca5508663b9bf |

### 5.6.11.3 RECOMMENDATION

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. Specifically, it is recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years.

5.6.12 DOUBLE SCANNED & COUNTED BALLOTS

While examining batch discrepancies between the hand count and the Maricopa County Cast Vote Record (CVR) totals, we discovered that the county double counted ballots. We continue to review the Dominion images to identify the total number of double counted ballots. EVC4/10-26 thru 10-28/3385 which has a 50-ballot discrepancy is presented as an example below. The image shows one of 50 ballots that were tabulated twice giving each associated voter – two votes.



tabulator 6004, BIC 288, image 0154 [EV Batch 13/7]

5.6.12.1 DATA FILES UTILIZED

| File Name                                              | MD5 Hash                         |
|--------------------------------------------------------|----------------------------------|
| Maricopa County Transfer Manifests                     | N/A                              |
| Maricopa County Daily Ballot Summary                   | N/A                              |
| Maricopa County 2020 General Election Cast Vote Record | c31a2f34714b7582cb17e907be3152e0 |

### 5.6.12.2 RECOMMENDATION

Maricopa County officials should audit the tabulation process daily to ensure no batches are scanned and tabulated multiple times.

5.6.13 UOCAVA ELECTRONIC BALLOTS DOUBLE COUNTED **Ballots Impacted** 6

During our hand count, we identified multiple UOCAVA ballots that had been printed and duplicated more than once (e.g., Double Votes). Below is one example of one double printed UOCAVA ballot that was assigned two different serial numbers and submitted for duplication. This would result in two votes being counted for this one voter.



### 5.6.13.1 REFERENCES

- EAC - 2018 UOCAVA Data Set<sup>46</sup>

### 5.6.13.2 RECOMMENDATION

Legislation should be considered which would require that systems utilized for UOCAVA would keep track of and help prevent the double-printing of ballots.

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<sup>46</sup> <https://www.eac.gov/research-and-data/datasets-codebooks-and-surveys>

5.6.14 DUPLICATE BALLOTS REUSE SERIAL NUMBERS

Duplicate Ballots were found reusing serial numbers. Without unique serial numbers its near impossible to match an original ballot (DSD) with its duplicated ballot (DUP).

Below is an example of a serial number used multiple times:

| BOX ID                                     | TYPE | SERIAL NO. |
|--------------------------------------------|------|------------|
| EVH1/11-11/DUP 175044                      | DUP  | DUP294104  |
| Original Damaged Ballots SD 8              | DSD  | DUP294104  |
| Original Large Print Sent to Duplication 2 | DSD  | DUP294104  |
| DSD RANDOM SAMPLE REVIEW 2                 | DSD  | DUP171329  |
| EVH1/11-07/DUP9582                         | DUP  | DUP171329  |
| Original Damaged Ballots SD 8              | DSD  | DUP171329  |

5.6.14.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>47</sup>
- A.R.S. § 16-621 – Proceedings at the counting center<sup>48</sup>

5.6.14.2 RECOMMENDATION

Legislation should be considered that would explicitly require each damaged ballot to have a unique serial number in order to match it up with its original.

<sup>47</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>48</sup> <https://www.azleg.gov/ars/16/00621.htm>

## 5.7 Informational Findings

### 5.7.1 AUDIT INTERFERENCE

Ballots Impacted N/A

Runbeck Election Services is a privately owned company that provided election services including the printing of all mail ballots for Maricopa County in the 2020 General Election. Prior to the start of the audit, members of the audit team conducted research into the paper, ink, toner and format of the official ballots. As part of that research, the audit team contacted Runbeck CEO, to ask several general questions about the ballots used in the 2020 General Election. Initially, the CEO agreed to a call but then asked for the questions in writing. As requested, the audit team sent Mr. Ellington 5 general questions via email. Mr. Ellington responded to that email and said that Maricopa County instructed him that vendors, even private companies, should not speak with auditors. Maricopa County refused to provide the information about the ballot paper and ballot printing and then interfered with the auditor's communication with Runbeck, a private company that does business with hundreds of other jurisdictions and entities.

#### 5.7.1.1 RECOMMENDATION

Legislators should consider legislation that would prohibit interference with legislative investigations under a criminal penalty.

### 5.7.2 BATCH DISCREPANCIES

Ballots Impacted N/A

A comparison of our hand count totals to the CVR totals has revealed numerous discrepancies. We are in the process of comparing the Dominion images of ballots to determine the cause of the discrepancy. Below are two examples of discrepancies.

|   |                   |                                          |
|---|-------------------|------------------------------------------|
| 7 | EVC1/10-31/6841 ✓ | 6841, 6835, 6553, 6875, 6966, 6717, 6807 |
|---|-------------------|------------------------------------------|

Above: Maricopa County Ballot Transfer Manifest showing EV batches in the box.

| Operator: <i>FORNARA</i> MARICOPA COUNTY ELECTIONS DEPARTMENT <i>10/31</i> |             |            |                |                  |          |
|----------------------------------------------------------------------------|-------------|------------|----------------|------------------|----------|
| Starting #: <i>6375</i>                                                    |             | Page 1 of  |                |                  |          |
| GENERAL ELECTION<br>NOVEMBER 3, 2020                                       | EV BATCH #  | EV COUNT   | BTC<br>BATCH # | TOTAL<br>BALLOTS | TO DUPE  |
| <i>1371 Hand Count</i>                                                     | <i>6207</i> | <i>199</i> | <i>33</i>      | <i>199</i>       |          |
| <i>Count</i>                                                               | <i>6891</i> | <i>198</i> | <i>34</i>      | <i>198</i>       |          |
|                                                                            | <i>6835</i> | <i>199</i> | <i>35</i>      | <i>199</i>       |          |
|                                                                            | <i>6841</i> | <i>200</i> | <i>36</i>      | <i>200</i>       |          |
|                                                                            | <i>6553</i> | <i>199</i> | <i>37</i>      | <i>199</i>       |          |
|                                                                            | <i>6875</i> | <i>200</i> | <i>38</i>      | <i>200</i>       |          |
|                                                                            | <i>6966</i> | <i>200</i> | <i>39</i>      | <i>199</i>       |          |
| <i>Accidentally split batch</i>                                            | <i>6717</i> | <i>199</i> | <i>40</i>      | <i>95</i>        | <i>1</i> |
|                                                                            | <i>6717</i> | <i>199</i> | <i>41</i>      | <i>104</i>       |          |
|                                                                            | <i>6807</i> | <i>200</i> | <i>42</i>      | <i>200</i>       |          |
|                                                                            | <i>6811</i> | <i>198</i> | <i>43</i>      | <i>198</i>       |          |
|                                                                            | <i>6998</i> | <i>200</i> | <i>44</i>      | <i>200</i>       |          |
|                                                                            | <i>6791</i> | <i>199</i> | <i>45</i>      | <i>199</i>       |          |

Above: Maricopa County Daily Ballot Summary for 10-31-2020 Tabulator C1. Note that BTC Batch 40 has 95 ballots and BTC Batch 41 has 104 ballots which combine to make up EV Batch 6717 which should have 199 total ballots.

| tabulatorbatch d | tabulator d | batch d | f e | ba ots |
|------------------|-------------|---------|-----|--------|
| 06001_00033      | 06001       | 00033   | 566 | 199    |
| 06001_00034      | 06001       | 00034   | 577 | 199    |
| 06001_00035      | 06001       | 00035   | 595 | 198    |
| 06001_00036      | 06001       | 00036   | 608 | 200    |
| 06001_00037      | 06001       | 00037   | 789 | 200    |
| 06001_00038      | 06001       | 00038   | 791 | 191    |
| 06001_00039      | 06001       | 00039   | 795 | 200    |
| 06001_00040      | 06001       | 00040   | 801 | 200    |
| 06001_00041      | 06001       | 00041   | 782 | 199    |
| 06001_00042      | 06001       | 00042   | 786 | 199    |
| 06001_00043      | 06001       | 00043   | 792 | 199    |
| 06001_00044      | 06001       | 00044   | 796 | 199    |

The CVR summary, pictured above, shows that BTC Batch 40 had 200 ballots tabulated and BTC Batch 41 had 199 ballots tabulated. These numbers do not match the Blue Sheet totals. Pallet 7 Box EVC1/10-31/6841 has only 1396 ballots but the CVR shows 1500 ballots. This results in a discrepancy of -104 ballots.

#### 5.7.2.1 DATA FILES UTILIZED

| File Name                                              | MD5 Hash                         |
|--------------------------------------------------------|----------------------------------|
| Maricopa County Transfer Manifests                     | N/A                              |
| Maricopa County Daily Ballot Summary                   | N/A                              |
| Maricopa County 2020 General Election Cast Vote Record | c31a2f34714b7582cb17e907be3152e0 |

#### 5.7.2.2 RECOMMENDATION

Maricopa County officials conduct daily audits and quality control measure to reduce errors.

### 5.7.3 COMMINGLED DAMAGED AND ORIGINAL BALLOTS

The 2019 Election Procedure Manual requires that all original damaged ballots sent to duplication be placed in an envelope or container labeled “Ballots that have been duplicated.” The County delivered boxes of ballots that were commingled and incorrectly identified. Batches identified on the manifest as original ballots were, in fact, machine duplicated ballots. The auditors could not rely on the County’s description of ballot boxes or batches identified on the manifest. Hours of careful examination were required to unravel the inaccurate documents provided to ensure that votes were not counted twice.

As an example, in Box EVH1/11-07/MC17349, the manifest shows that there are 14 batches of original ballots. When the auditors opened the boxes to count the ballots, they observed 7 batches of original ballots, 8 batches of duplicate ballots and one batch missing from the manifest. Batches of duplicate ballots in boxes of original undamaged ballots is a difficult issue to unravel. During the hand count, we also identified several instances of damaged ballots in boxes with original ballots. We are unable to determine if the damaged ballots had been duplicated and tabulated as duplicates. The Election Procedures Manual makes it clear that damaged ballots sent to duplication must be separated and the County did not consistently adhere to this rule.

The Arizona Secretary of State claims that duplicate ballots and the original damaged ballots sent to duplication are to be segregated. In case No. CV2020-015285, Roopali Desai represented Arizona Secretary of State Katie Hobbs and said:

*THE COURT: And those are segregated? I'm -- those-- they don't get put in the pile where we're not going to be able to find them anymore, right? We know where those are?*

*MS. DESAI: Duplicated ballots are -- those are --the original as well as the duplicated ballots are, by statute, segregated and preserved.*

#### 5.7.3.1 REFERENCES

- [Arizona Supreme Court Case – CV2020-015285](#)<sup>49</sup>
- [State of Arizona – 2019 Elections Procedures Manual](#)<sup>50</sup>

#### 5.7.3.2 RECOMMENDATION

All duplicated ballots should be separated and properly identified as duplicates. All original damaged ballots sent to duplication should be separated and properly identified in compliance with the EPM.

<sup>49</sup> [https://www.supremecourt.gov/DocketPDF/20/20-809/163521/20201211121632424\\_12-11-20%20Appendix%20Ward%20v%20Jackson.pdf](https://www.supremecourt.gov/DocketPDF/20/20-809/163521/20201211121632424_12-11-20%20Appendix%20Ward%20v%20Jackson.pdf)

<sup>50</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

## 5.7.4 EARLY VOTES NOT ACCOUNTED FOR IN EV33

Ballots Impacted N/A

The EV33 Early Voting Return Files do not contain entries for 255,326 Early Voters which are recorded in the VM55 Final Voted File. Individuals that vote as part of Early Voting, either by mail or in person, should have an EV33 entry related to their casting of a vote containing details as to when and how that vote was cast. Without an EV33 these details are unavailable, and it could make some types of audits impossible.

| Ballot Type                | Number of Voters |
|----------------------------|------------------|
| B – Early Vote - In-Person | 38,817           |
| R – Early Vote - Mail-In   | 187,823          |

NOTE: Please see Appendix S1 for a complete list of the entries from the VM55 file without EV33s.

### 5.7.4.1 REFERENCES

- [A.R.S. § 16-558.01 – Mailing of Ballots](#)<sup>51</sup>
- [A.R.S. § 16-246 – Early Balloting](#)<sup>52</sup>
- [A.R.S. § 16-542 – Request for ballot](#)<sup>53</sup>

### 5.7.4.2 DATA FILES UTILIZED

| File Name                       | MD5 Hash                         |
|---------------------------------|----------------------------------|
| EV33-1377-10-09-2020_101111.txt | f1daa7089f7300237f6b4ff779661cf9 |
| EV33-1377-10-12-2020_113210.txt | 72e4e6c102e3539b4dd15b4454357b69 |
| EV33-1377-10-13-2020_111553.txt | 9b14841281c031533322b50aabb86a24 |
| EV33-1377-10-14-2020_112757.txt | 1b7537d7d9b927dbf4e462ed5ee8f97c |
| EV33-1377-10-15-2020_121331.txt | dec7d08dde4970c26e32b8c844f4a9ab |
| EV33-1377-10-16-2020_113522.txt | f0a632c3fd9b5f177d48504dc119be31 |
| EV33-1377-10-19-2020_111708.txt | db80b692a9188add0844a8974e227287 |
| EV33-1377-10-20-2020_112351.txt | 57d1795db8be71d516e29350e347fb3a |
| EV33-1377-10-21-2020_111843.txt | 56c3b5a11651c68735164c578eade4e1 |
| EV33-1377-10-22-2020_111714.txt | 03551f170bf758efc90c013d0fe2e467 |
| EV33-1377-10-23-2020_112614.txt | dbfdd369ac148723540c83f614cca454 |
| EV33-1377-10-26-2020_111318.txt | 0b68adff779f59c70a530000bf989aca |
| EV33-1377-10-27-2020_111413.txt | a6fc7377bf6c6fe6653f539c5970a6f7 |
| EV33-1377-10-28-2020_111331.txt | 43758b9290f90d0305d5ed84aa10becb |
| EV33-1377-10-29-2020_111300.txt | 410b30b06f2ca73022f27173fe114038 |
| EV33-1377-10-30-2020_111804.txt | 5cb44e5ea214f40227e04345d4355ff7 |
| EV33-1377-11-02-2020_111214.txt | 5d15bb8686a022f53400550cfe010a07 |

<sup>51</sup> <https://www.azleg.gov/ars/16/00558-01.htm>

<sup>52</sup> <https://www.azleg.gov/ars/16/00246.htm>

<sup>53</sup> <https://www.azleg.gov/ars/16/00542.htm>

### 5.7.4.3 RECOMMENDATION

Legislation should be considered that requires that the various election related systems to properly integrate to give accurate and consistent counts between the mail-in ballots cast, mail-in ballots received, mail-in ballots accepted, mail-in ballots rejected, and be able to reconcile these details with who voted in the final voted file.

### 5.7.5 HIGH BLEED-THROUGH RATES ON BALLOTS

**Ballots Impacted** N/A

A large number of the ballots from in-person voting, primarily on Election Day (ED), experienced bleed-through where the marks from one-side of the ballot were clearly visible on the other side of the ballot. This does not happen when the manufacturer recommended paper is utilized under normal circumstances.

The biggest concern with bleed through is if it occurs in a place that might somehow impact the reading of the ballot on the other side of the paper. Ballots are generally designed to minimize this potential by offsetting the races on each side of the paper so that if bleed-through does happen it is a safe distance away from the ballot ovals on the other side of the paper. Maricopa County Ballots were designed in this manner.

The effect of this offsetting can be hampered, however, if the ballot printer is not in calibration (Please see Section 5.7.10, "Out of Calibration Ballot Printers"). When this occurs the miscalibration causes the front of the ballot to not align where it was intended to on the back of the ballot. If this miscalibration is off enough it could allow the bleed-through to fill out a ballot oval on the other side of the paper and cast a vote, cause an overvote, or simply confuse the tabulator enough to send the ballot to adjudication. Out of the several thousand ballot images that were manually reviewed we could not find any images where bleed-through was close enough to a ballot oval to cause mistabulation, nor did we see any immediate correlation with adjudication. The Dominion tabulators appeared to focus on the actual oval and no bleed-through example was found where a ballot printer was so miscalibrated it actually filled a portion of the oval.

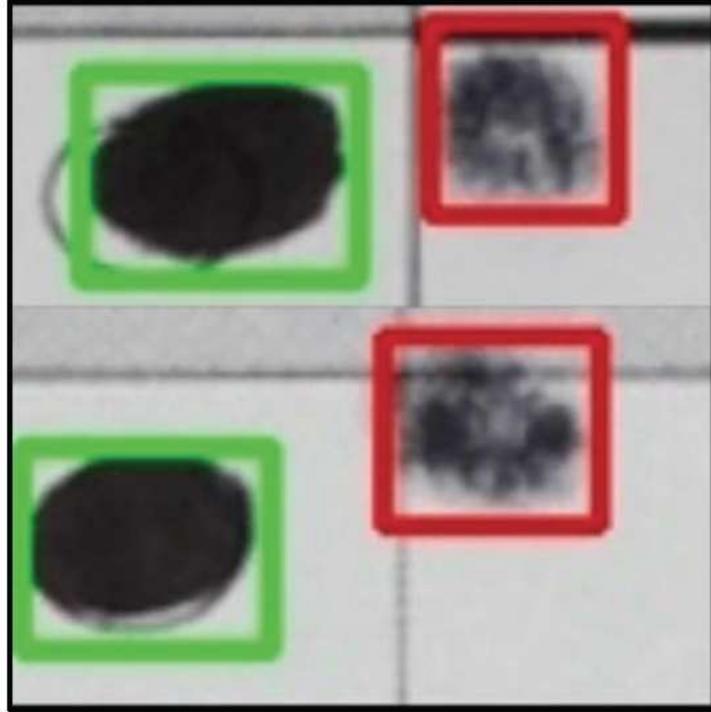


Figure 1 - Green is around the actual vote. The red boxes show the bleed through from the other side.

#### 5.7.5.1 REFERENCES

- Dominion Printing & Finishing Specifications<sup>54</sup>

#### 5.7.5.2 RECOMMENDATION

Legislation should be considered that would require that the election equipment be properly maintained, including, but not limited to ensuring that ballot printers are in the proper calibration.

#### 6.7.5.3 INSTANCES

Kinematic Artifact processing is currently evaluating the ballot images to do a full analysis of bleed-through. A full report documenting all of the bleed-through is expected in the coming weeks. At this time, this particular issue appears to be systemic to any non-Runbeck printed ballots.

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<sup>54</sup> <https://www.sos.state.co.us/pubs/elections/VotingSystems/DVS-DemocracySuite511/documentation/SD-IC-PrintingSpecification-5-11-CO.pdf>

### 5.7.6 IMPROPER PAPER UTILIZED

A large number of the ballots from in-person voting, utilized paper that is not recommended by the manufacturer of the tabulators for use in the systems. This can result in higher jam rates, more bleed through, and could theoretically impact the readability of the ballots by the scanners, but this last case is extremely unlikely. At this time 10 different papers have been found. Several of these paper stocks include paper with the weight from 20lb to 30lbs; when the generally accepted best practice for voting is to utilize ballot stock of 80lbs or higher. Since this type of paper is generally not tested within the equipment, nor part of the Logic and Accuracy testing, the effects of utilizing it is unclear.

The large number of papers utilized during this election and the lack of official reporting about what paper stocks were utilized made it difficult to identify any potential counterfeit ballots. Standardization on these details would more greatly facilitate future audits.

#### 5.7.6.1 REFERENCES

- Dominion Printing & Finishing Specifications<sup>55</sup>

#### 5.7.6.2 RECOMMENDATION

Legislation should be considered that would require that paper stocks utilized on election day should conform to manufacturer recommendations to ensure that the paper that has been tested in the device is what is actually utilized to cast votes. Legislation should also be considered that mandates the standardization of paper utilized for the election including requiring that the ballot stock amounts utilized be fully accounted for and tracked.

#### 5.7.6.3 INSTANCES

Kinematic Artifact processing is currently evaluating the ballot images to do a full analysis of types of paper utilized. A full report documenting all of the papers utilized is expected in the coming weeks.

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<sup>55</sup> <https://www.sos.state.co.us/pubs/elections/VotingSystems/DVS-DemocracySuite511/documentation/SD-IC-PrintingSpecification-5-11-CO.pdf>

5.7.7 INACCURATE IDENTIFICATION OF UOCAVA BALLOTS

Maricopa County identified only one box on the manifest as having UOCAVA Original Ballots sent to duplication. The audit team examined all other boxes of ballots and identified 6 other boxes that were inaccurately labeled. All UOCAVA ballots identified by the County were 8 1/2" X 11" copies of electronically submitted voted ballots. UOCAVA ballots were found in boxed labeled Braille Ballots and boxes labeled the generic Original Ballots/Damaged/Sent to Duplication. This inaccurate labeling of UOCAVA boxes gave the impression that there were far fewer UOCAVA ballots than were actually counted.

**Ballot Custody Transfer Manifest**  
 Arizona Senate Fifty-Fifth Arizona Legislature / First Regular Session Subpoena Duces Tecum  
 Karen Fann, President of the Arizona Senate / Warren Petersen, Chairman of Senate Judiciary Committee

Transfer Date: 3/3/2021  
 Total Boxes: [REDACTED]  
 Observed by: [REDACTED]

| Pallet # | Box # (Ballot Type, Machine, Date, First Batch) | Batches                                                    |
|----------|-------------------------------------------------|------------------------------------------------------------|
| 41       | [REDACTED]                                      | ✓ 1 Original Ballots/Damaged/Sent to Duplication           |
| 41       | [REDACTED]                                      | ✓ 2 Original Ballots/Damaged/Sent to Duplication           |
| 41       | [REDACTED]                                      | ✓ 3 Original Ballots/Damaged/Sent to Duplication           |
| 41       | [REDACTED]                                      | ✓ 4 Original Ballots/Damaged/Sent to Duplication           |
| 41       | [REDACTED]                                      | ✓ 5 Original Ballots/Damaged/Sent to Duplication           |
| 41       | [REDACTED]                                      | ✓ 6 Original Ballots/Damaged/Sent to Duplication           |
| 41       | [REDACTED]                                      | ✓ 7 Original Ballots/Damaged/Sent to Duplication           |
| 41       | [REDACTED]                                      | ✓ 8 Original Ballots/Damaged/Sent to Duplication           |
| 41       | [REDACTED]                                      | ✓ 9 Original Ballots/Damaged/Sent to Duplication           |
| 41       | [REDACTED]                                      | ✓ 10 Original Ballots/Damaged/Sent to Duplication          |
| 41       | [REDACTED]                                      | ✓ 11 Original Ballots/Damaged/Sent to Duplication          |
| 41       | [REDACTED]                                      | ✓ 12 Original Ballots/Damaged/Sent to Duplication          |
| 41       | [REDACTED]                                      | ✓ 13 Original Ballots/Damaged/Sent to Duplication          |
| 41       | [REDACTED]                                      | ✓ 14 Original Ballots/Damaged/Sent to Duplication          |
| 41       | [REDACTED]                                      | ✓ 15 Original Ballots/Damaged/Sent to Duplication          |
| 41       | [REDACTED]                                      | ✓ 16 Original Ballots/Damaged/Sent to Duplication          |
| 41       | [REDACTED]                                      | ✓ 1 Braille Original to Duplication                        |
| 41       | [REDACTED]                                      | ✓ 2 Braille Original to Duplication                        |
| 41       | [REDACTED]                                      | ✓ 3 Braille Original to Duplication                        |
| 41       | [REDACTED]                                      | ✓ 1 Large Print Original to Duplication                    |
| 41       | [REDACTED]                                      | ✓ 2 Large Print Original to Duplication                    |
| 41       | [REDACTED]                                      | ✓ 3 Large Print Original to Duplication                    |
| 41       | [REDACTED]                                      | ✓ 1 Election Day Damaged Original to Duplication           |
| 41       | [REDACTED]                                      | ✓ 1 Provisional Damaged Original to Duplication            |
| 41       | [REDACTED]                                      | ✓ 1 UOCAVA Original to Duplication                         |
| 41       | [REDACTED]                                      | ✓ Data Cards - ICP2s - Election Day/USB Drives for Results |
| 41       | [REDACTED]                                      | ✓ 1 Upload                                                 |
| 41       | [REDACTED]                                      | ✓ 2 Totals Tapes - ICP2s - Election Day                    |
| 41       | [REDACTED]                                      | ✓ 3 Totals Tapes - ICP2s - Election Day                    |
| 41       | [REDACTED]                                      | ✓ Original Damaged Ballots for Duplication - Random        |
| 41       | [REDACTED]                                      | ✓ 4 Sample Review #1 (Box 1 of 2)                          |
| 41       | [REDACTED]                                      | ✓ Original Damaged Ballots for Duplication - Random        |
| 41       | [REDACTED]                                      | ✓ 5 Sample Review #1 (Box 2 of 2)                          |
| 41       | [REDACTED]                                      | ✓ Original Damaged Ballots for Duplication - Random        |
| 41       | [REDACTED]                                      | ✓ 6 Sample Review #2 (Box 1 of 2)                          |

[REDACTED] ✓ Orig Dam Ballots for Dupl - Rand Samp Rev #2 Box 2 of 2 CN  
 [REDACTED] 4/22/2021 [REDACTED]

5.7.7.1 RECOMMENDATION

Legislation should be considered that requires UOCAVA systems to be designed in a manner to prevent potential multiple copies of UOCAVA ballots from being printed.

### 5.7.8 MISSING SUBPOENA ITEMS

**Ballots Impacted** N/A

The original subpoena dated January 13, 2021, required Maricopa County to provide “Access to all original, paper ballots (including but not limited to early ballots, Election Day Ballots and Provisional Ballots).” The auditors did not receive the following original ballots:

- Rejected Provisional Ballots
- Uncured Mail Ballots
- Ballots returned to the County as undeliverable

Failing to receive these components prevented portions of the audit from being completed, such as validating that the right number of provisional ballots existed, and that ballots returned to the County as undeliverable were properly accounted for and were not reused in some other context. Since these items were not provided, this work was not able to be completed.

### 5.7.9 NO RECORD OF VOTERS IN COMMERCIAL DATABASE

**Ballots Impacted** N/A

All voters within the Final Voted File, or VM55, was cross-checked against a commercially available data source provided by Melissa<sup>56</sup> called Personator and 86,391 individuals were found with no record in the database for either their name, or anyone with the same last name at the address in the VM55 file. It is expected that most if not all of these individuals are in fact real people with a limited public record and commercial presence. It is highly recommended that this list be further validated with canvassing to determine what percentage of these voters represent current and valid voters.

Personator is a best-in-class identity and address validation tool. It confirms that an individual is associated with an address, indicates prior and current addresses, tracks when and where the individual moves, tracks date-of-birth and date-of-death. To accomplish this, it utilized both private and government data sources such as the US Postal Service’s National Change of Address (NCOA) service, and the Social Security Administration’s Master Death List.

NOTE: The following chart illustrates the percentage of voters by registered party that the Ballot Impacted number represents. This should give a rough idea on the impact to the electorate if the votes were cast by the voters and not another individual that was somehow able to cast a vote.

| Party                 | %      |
|-----------------------|--------|
| Democrat Party        | 43.97% |
| Prefer Not to Declare | 29.83% |
| Republican Party      | 22.21% |
| Independent           | 2.55%  |
| Libertarian Party     | 1.3%   |
| Green Party           | 0.12%  |

#### 5.7.9.1 DATA FILES UTILIZED

| File Name                                     | MD5 Hash                         |
|-----------------------------------------------|----------------------------------|
| Maricopa County-VM55 Final Voted Nov2020 PBRQ | 43070bc7afdf40a37cd45092e9733654 |

<sup>56</sup> <https://www.melissa.com>

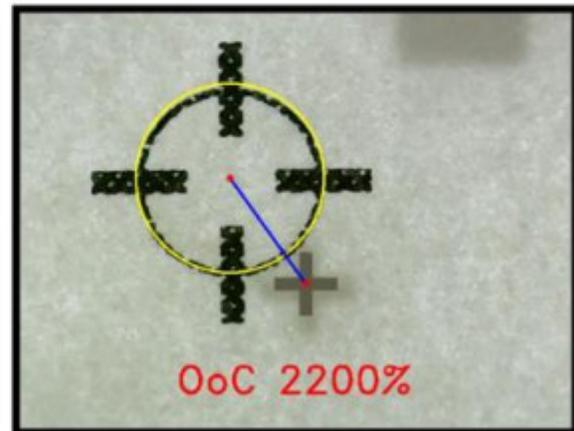
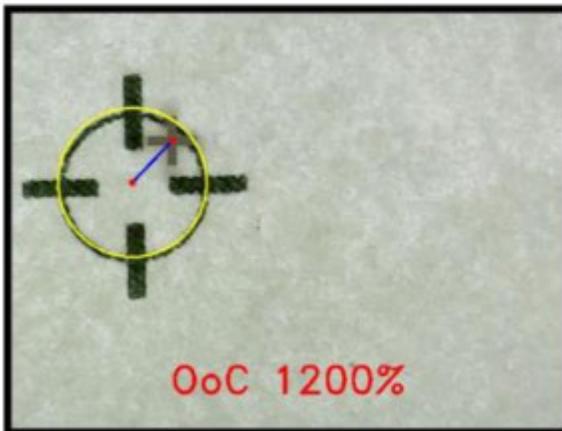
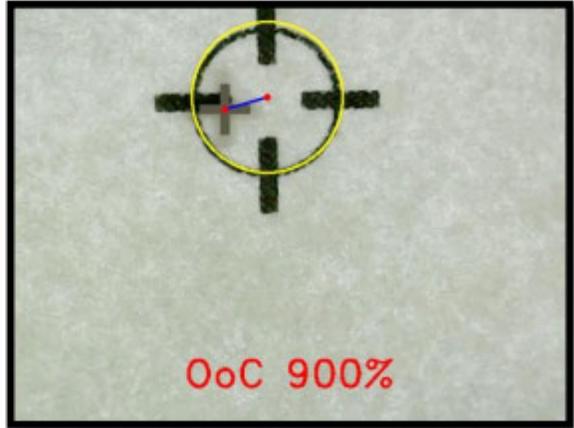
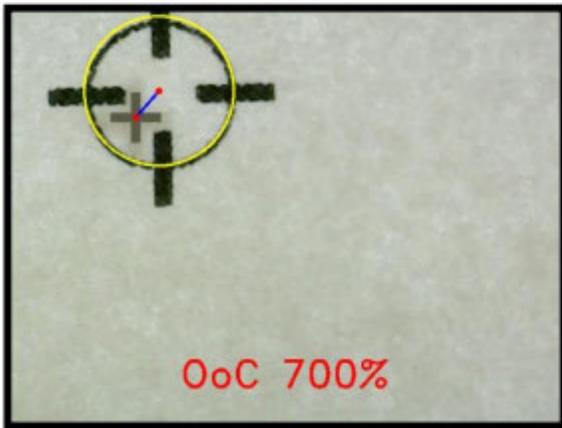
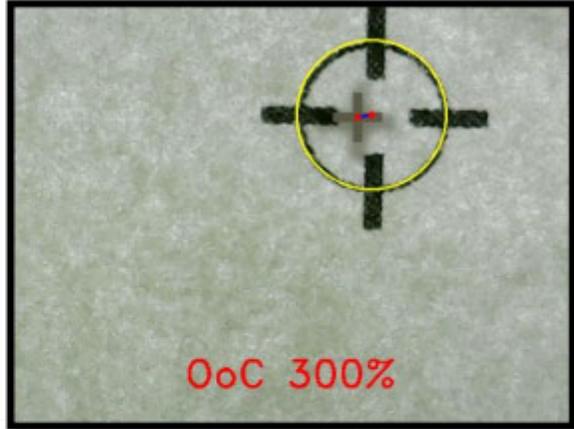
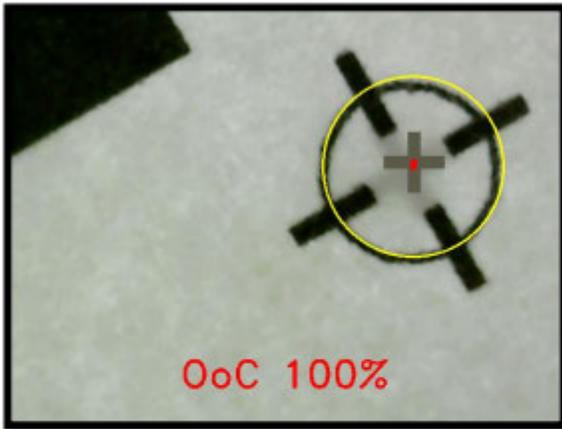
### 5.7.9.2 RECOMMENDATION

Legislation should be considered that requires a periodic review and maintaining of the voter rolls to be sure it represents current Arizona residents.

### 5.7.10 OUT OF CALIBRATION BALLOT PRINTERS

**Ballots  
Impacted** N/A

A large number of ballots appear to have been printed on printers not properly calibrated. This means that the front-page of the ballot is not consistently aligned with the back page of the ballot. The way this alignment presented appeared to be unique for each vote center printer. This is contrary to manufacturer guidelines and recommendations and could theoretically result in inconstant reading of votes across all the different tabulators, although we identified no instances of this issue causing a ballot to be tabulated incorrectly in the several thousand images reviewed.



### 5.7.10.1 REFERENCES

- Dominion Printing & Finishing Specifications<sup>57</sup>

### 5.7.10.2 RECOMMENDATION

Legislation should be considered that would require that the election equipment be properly maintained, including, but not limited to ensuring that ballot printers are properly calibrated.

### 5.7.10.3 INSTANCES

The Kinematic Artifact processing is currently processing ballot images to fully map all printer miscalibrations. A full report is expected in the coming weeks.

### 5.7.11 REAL-TIME PROVISIONAL BALLOTS

**Ballots  
Impacted** N/A

The Arizona Secretary of State Elections Procedures Manual identifies circumstances that require the issuance of a Provisional Ballot. If a voter appears in the e-pollbook or signature roster as having received an early ballot by mail, but the voter wants to vote in person on Election Day, that voter must be issued a Provisional Ballot. However, Maricopa County reported 58,550 voters who had received mail ballots but were issued standard ballots on Election Day. The County identifies these as “real-time Provisional Ballots.” There is no mention of real-time provisional in the AZ Elections Procedures Manual. In fact, the EPM specifically addresses this circumstance and is clear that such voters must be issued a Provisional ballot.

There appears to be no statutory authority for Maricopa County to deviate from the EPM and issue standard ballots to voters who had already received a mail ballot. We identified no instances of these voters casting more than one ballot, however.

This was reported as a note at the bottom of page 12,329 of the November General Election Canvass Final -below:

**Note:** There were 58550 Early Ballot recipients that had not RETURNED their Early Ballot and consequently were issued a standard ballot on Election Day. These were processed as real-time Provisional Ballots.

#### A.R.S. § 16-579(F). Issuing a Provisional Ballot

##### 1. *Circumstances Requiring Issuance of a Provisional Ballot:*

###### **Voter Received an Early Ballot**

*A voter must be allowed to vote a provisional ballot if the voter appears on the signature roster or e-pollbook as having received an early ballot-by-mail, but either:*

*(1) affirms that they have not voted and will not vote the ballot-by-mail; or*

*(2) surrenders the ballot-by-mail to the inspector on Election Day. A.R.S. § 16-579(B)*

*Voters who appear at a voting location with a ballot-by-mail that has not been voted, along with the affidavit envelope, may use a privacy booth at the voting location to mark the ballot-by-mail. In this circumstance, the voter*

<sup>57</sup> <https://www.sos.state.co.us/pubs/elections/VotingSystems/DVS-DemocracySuite511/documentation/SD-IC-PrintingSpecification-5-11-CO.pdf>

does not sign in and the voter must place the voted ballot-by-mail in its affidavit envelope, sign the affidavit envelope, and place the envelope in the early ballot drop-off container at the voting location.

#### 5.7.11.1 REFERENCES

- State of Arizona – 2019 Elections Procedures Manual<sup>58</sup>
- A.R.S § 16-579 – Procedure for obtaining ballot by elector<sup>59</sup>

#### 5.7.11.2 DATA FILES UTILIZED

| File Name                             | MD5 Hash                         |
|---------------------------------------|----------------------------------|
| 11-03-2020-0 Canvass COMPLETE NOV2020 | ce62cc061b6bb56b4fd40aa4866adb16 |

#### 5.7.11.3 RECOMMENDATION

Maricopa County should explain this deviation from the Elections Procedures Manual.

#### 5.7.12 VOTER REGISTRATION SYSTEM AUDIT ACCESS

Ballots Impacted N/A

One of the most important components of the audit was the analysis of the voter registration system and records of authorized or unauthorized access to that system. Our audit team has been denied the access required to complete this portion of the audit. In the Senate’s subpoena dated January 12, 2021, Maricopa County was ordered to provide the auditors access to, or control of all equipment used in connection with the administration of the 2020 election. In a second subpoena, dated July 26, 2021, the County was ordered to provide all reports, findings and other documents concerning the voter registration breach. The response from the County claims that they are not aware of a breach.

**1. "All reports, findings and other documents concerning any breach of the voter registration server, the Maricopa County Recorder’s Office systems, or any other aspect of the Maricopa County elections systems at any time within six months of the November 3, 2020 general election"**

The Board of Supervisors is not aware of any “breach”, as stated above, occurring during this time period, or any other time period relevant to the November 3, 2020 election. The Board of Supervisors is aware of an incident in November 2020 wherein an individual programmatically accessed the County Recorder’s website and gathered publicly available information for a short period of time. The Recorder’s website is in no way connected to the air-gapped tabulation system in the secure room where ballots are counted. To the extent you are requesting records related to this incident, you recently made a public records request to both the Maricopa County Recorder and the Board of Supervisors requesting similar information. As always, the Board of Supervisors will comply with your public records request promptly consistent with Arizona law. We hereby request that you accept our response to your public records request in lieu of production pursuant to this subpoena.

Claiming that this breach was nothing more than unauthorized access to public data has not been supported with evidence. According to a news article published December 4<sup>th</sup>, 2020, Maricopa County confirmed voter data had been stolen and that a federal investigation was under way. CISA considers voter registration systems to be critical infrastructure and thus requires states and counties to implement the highest levels of security. The only way to ensure that there is one vote for every legally registered voter is careful control of the voter registration database.

<sup>58</sup> [https://azsos.gov/sites/default/files/2019\\_ELECTIONS\\_PROCEDURES\\_MANUAL\\_APPROVED.pdf](https://azsos.gov/sites/default/files/2019_ELECTIONS_PROCEDURES_MANUAL_APPROVED.pdf)

<sup>59</sup> <https://www.azleg.gov/ars/16/00579.htm>

### 5.7.12.1 REFERENCES

- [Maricopa County Letter to Arizona Senate](#)<sup>60</sup>
- [Cybersecurity and Infrastructure Agency \(CISA\)](#)<sup>61</sup>

### 5.7.12.2 RECOMMENDATION

Legislation should be considered that would require applications developed and utilized for voter rolls or voting to be developed to rigorous standards that ensure the confidentiality and integrity of the systems. Specifically, its recommended that the Open Web Application Security Project (OWASP) Application Security Verification Standard (ASVS) Level 3 be applied to all applications associated with voter rolls or voting and that it be required that this be fully validated no less than once every two years.

**Ballots  
Impacted**

N/A

### 5.7.13 QUESTIONABLE BALLOTS

Analysis of the paper ballots has discovered ballots which exhibit characteristics that are anomalous and do not match known legitimate ballots. This includes color ballots that are missing Machine Identification Codes (MIC), as well as ballots that are demonstrating consistent printing irregularities that suggest they were not printed with the standard ballot PDF generated from the Dominion Election Management System (EMS). These irregularities may have logical explanations, but these explanations are not immediately evident.

NOTE: The questionable ballots have been reviewed to determine if they favor one presidential candidate over another presidential candidate. No discernable pattern could be determined. This highly suggests that these are not counterfeit but do require some sort of explanation.

### 5.7.13.1 REFERENCES

- [Maricopa County Election Facts and Myths](#)<sup>62</sup>
- [Runbeck Printing Website](#)<sup>63</sup>
- [HP PageWide WebPress T HD Specification](#)<sup>64</sup>

### 5.7.13.2 RECOMMENDATION

Legislators should consider passing laws standardizing the papers and printing process utilized for printing ballots and requiring documentation to be kept of all papers utilized. This will facilitate determining if a ballot is in fact genuine and remove any areas for confusion.

<sup>60</sup> <https://www.maricopa.gov/DocumentCenter/View/70435/Final-Signed-Letter-to-Senators>

<sup>61</sup> <https://www.cisa.gov/election-security>

<sup>62</sup> <https://recorder.maricopa.gov/justthefacts/>

<sup>63</sup> <https://runbeck.net/election-solutions/election-printing-mailing/>

<sup>64</sup> <https://www.hp.com/us-en/commercial-industrial-printing/pagewide/t250-hd-web-presses.html>

## 6 VOTING MACHINE FINDINGS

The following section outlines all findings related to the voting machines including the analysis and discoveries during the Voting Machine phases of the work.

### 6.1 Voting Machine Scoring

Cyber Ninjas utilizes a risk ranking system based on the guidelines outlined by NIST publication 800-30, "Guide for Conducting Risk Assessments – Information Security." A severity is assigned to a finding based on a combination of the likelihood the finding could impact the election, or the ability to audit the election and the impact it could have on the election results.

| Likelihood | Impact |        |        |          |
|------------|--------|--------|--------|----------|
|            | Low    | Medium | High   | Critical |
| Critical   | Medium | High   | High   | Critical |
| High       | Medium | Medium | High   | High     |
| Medium     | Low    | Medium | Medium | High     |
| Low        | Low    | Low    | Medium | Medium   |

Table 1: Election Risk Matrix.

Both the likelihood and the impact of the finding are rated independently on a scale from "Low" to "Critical." These ratings are then combined utilizing the risk matrix represented in Table 1 to determine the associated severity for the issue.

### 6.2 Digital Analysis Summary

Because the Maricopa County Board of Supervisors and the Arizona State Senate have recently settled their dispute concerning outstanding subpoena items, this portion of the audit is not yet complete. Analysis of those items that were produced, however, clearly demonstrated that the Maricopa County voting systems did not follow CISA or industry standard cyber security best practices.

First Maricopa County personnel did not control the administrative iButton credentials necessary to configure, validate and certify the ICP2 tabulators. Second, Maricopa County did not properly assign and manage the user names and passwords necessary to restrict access the voting systems. The user accounts were not attributable to an individual, rather they were shared throughout the staff. Furthermore, the same password was utilized by multiple accounts and was never changed since the installation of the Dominion software. That same password was used by both administrative and user accounts. If a user had access to user level account, that user had all the knowledge necessary to perform administrative functions with elevated access. Third, the windows security and activity logs were not preserved for the required 22 months following the election, thus significantly hampering the analysis of authorized activity. It did appear that the Dominion software specific logs were preserved, but those logs do did not provide the same level of detail or data that the Windows operating system logs did for security events, remote login events or other user activity. Fourth, there was a clear lapse in the hardware configuration monitoring and baseline in the Maricopa County voting systems as evidenced by the presence of an unauthorized second bootable hard drive in the Adjudication 2 workstation.

### 6.3 Summary Table

| #     | Finding Name                               | Likelihood | Impact | Severity |
|-------|--------------------------------------------|------------|--------|----------|
| 6.4.1 | Election Management System Database Purged | High       | High   | High     |
| 6.4.2 | Election Files Deleted                     | High       | High   | High     |
| 6.4.3 | Corrupt Ballot Images                      | High       | High   | High     |

|       |                                                  |        |        |        |
|-------|--------------------------------------------------|--------|--------|--------|
| 6.5.1 | Missing Ballot Images                            | Medium | High   | Medium |
| 6.5.2 | Failure to Follow Basic Cyber Security Practices | Medium | High   | Medium |
| 6.5.3 | Subpoenaed Equipment Not Provided                | Medium | High   | Medium |
| 6.5.4 | Anonymous Logins                                 | Medium | Medium | Medium |
| 6.5.5 | Dual Boot System Discovered                      | Medium | Medium | Medium |
| 6.5.6 | EMS Operating System Logs Not Preserved          | Low    | High   | Medium |
| 0     | Election Data Found from Other States            | Low    | Medium | Low    |

## 6.4 High Findings

6.4.1 ELECTION MANAGEMENT SYSTEM DATABASE PURGED **Likelihood:** High **Impact:** High

The Election Management System (EMS) database which holds all details associated with the 2020 General Election was purged and all the election results were cleared by a Results Tally and Reporting Admin on February 2 at 5:14 pm; the evening before the Pro V & V audit was scheduled to officially start. This means that these results were not available for Pro V & V or SLI to perform any type of audit, nor were they available for Cyber Ninjas to review. The next day Pro V & V then proceeded to add new tabulators for their audit, and they imported results into these tabulators further clearing remnants of the database. It is worth noting that the Dominion software fully supports creating a full copy of an existing election project; and if a cleared database was required for Pro V & V to perform their audit, they could have first duplicated the existing Election Project. Neither of the “auditors” retained by Maricopa County identified this finding in their reports.

NOTE: While the log file clearly indicates that the results and images were also purged as part of the process, the majority of the images did appear to be reloaded back to the system at some point. There were images missing and a number of corrupt images as can be seen in the other findings.

NOTE: On August 26<sup>th</sup> the Maricopa County Board of Supervisors was requested to explain the reasoning for this activity but has chosen not to respond.



Figure 2 - UserLog shows that RTRAdmin Successfully Purged the 20201103 Election Database and Files.

| Tabulator Nu... | Name              | Location | Type            | Counting Group | Log File                            | Closed                              | Images Loaded                       | Load |
|-----------------|-------------------|----------|-----------------|----------------|-------------------------------------|-------------------------------------|-------------------------------------|------|
| 157189          | Audit 7           | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 3002            | HiPro 2 Early ... | MCTEC    | Imagecast Ce... | EARLY VOTE     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 1    |
| 157192          | Audit 10          | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157191          | Audit 9           | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157193          | Audit 11          | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157185          | Audit 3           | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157186          | Audit 4           | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157195          | Audit 13          | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 6004            | Canon 4 Early...  | MCTEC    | Imagecast Ce... | EARLY VOTE     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 1    |
| 157190          | Audit 8           | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157184          | Audit 2           | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157187          | Audit 5           | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157188          | Audit 6           | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157194          | Audit 12          | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 157183          | Audit 1           | Maricopa | ICE/ICP 2       | EARLY VOTE     | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1    |
| 3001            | HiPro 1 Early ... | MCTEC    | Imagecast Ce... | EARLY VOTE     | <input type="checkbox"/>            | <input type="checkbox"/>            | <input type="checkbox"/>            | 3    |

Figure 3 - Tabulator List is full of "audit" tabulators which are the only ones with results.

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### Election Summary Report General Election Maricopa County November 3, 2020

| Elector Group | Counting Group | Ballots | Voters | Registered Voters | Turnout |
|---------------|----------------|---------|--------|-------------------|---------|
| Total         | EARLY VOTE     | 8,164   | 8,164  | 2,595,272         | 0.31%   |
|               | ELECTION DAY   | 0       | 0      |                   | 0.00%   |
|               | PROVISIONAL    | 0       | 0      |                   | 0.00%   |
|               | Total          | 8,164   | 8,164  |                   | 0.31%   |

Registered Voters: 8,164 of 2,595,272 (0.31%)  
Ballots Cast: 8,164

Figure 4 - Results for the 2020 General Election only show 8,164 votes from the Pro V & V audit.

#### 6.4.1.1 DATA FILES UTILIZED

| File Name                                             | MD5 Hash                         |
|-------------------------------------------------------|----------------------------------|
| AZAud-E-089-1 _EMS PRIMARY\AZAud-E-089-1 _EMS PRIMARY | 95a6f531c4969dda8f5703858e33d414 |

### 6.4.1.2 RECOMMENDATION

Legislation should be considered that could more greatly facilitate audits to be performed and require the counties to cooperate with the audits when they occur. Specifically, the county should be required to provide all the details needed to have a fully functional Election Management System where results can be reviewed.

### 6.4.2 ELECTION FILES DELETED

**Likelihood:** High      **Impact:** High

According to the Master File Table (MFT) of the drives, a large number of files on the Election Management System (EMS) Server and HiPro Scanner machines were deleted including ballot images, election related databases, result files, and log files. These files would have aided in our review and analysis of the election systems as part of the audit. The deletion of these files significantly slowed down much of the analysis of these machines. Neither of the “auditors” retained by Maricopa County identified this finding in their reports.

6.4.2.1.1 Deletion Activity on the EMS C:\ Drive

The EMS server that was produced contained six hard drives. Two of those hard drives were configured in a mirrored configuration and contained the operating system and install programs. This mirrored drive was assigned the drive letter "C" and was the boot drive for the EMS. Between 10/28/20 08:52:36AM and 11/05/20 05:58:58PM 865 directories and 85,673 election related files (scanned ballots, .dvd files, slog.txt files, etc.) were deleted from the EMS C:\ drive. A full listing is provided in the file named Files and Directories Deleted from the EMS C Drive.txt.



*Figure 5-Example of Election Related File Deletion from EMS C:\ Drive*

6.4.2.1.2 Deletion Activity on the EMS D:\ Drive

The other four (4) hard drives were configured in a 0+1 hardware raid configuration that contained a single 2.1 Terabyte partition. For the purposes of this examination this raid was manually reconstructed and mounted as a single 2.1 TB drive. This mounted image was then imaged using the FTK Imager software package. The resulting forensic image was then utilized for analysis. This drive contained the dominion election data, election definitions, the election databases, the NAS directory and the scanned ballot images. Between 11/01/20 10:37:41AM and 03/16/21 10:17:06AM 9,571 directories and 1,064,746 election related files were deleted from the D drive. These deleted files include scanned ballot images, ICX results, context.spx files, choice.spx files, .dvd files from the tabulators, and other election related files. A full listing of the deletions is provided in the file Files and Directories Deleted from the EMS D Drive.txt.



*Figure 6-Trump Ballot Image Created and Deleted on 1 Nov 2020 from D:\ Drive*



*Figure 7-Deleted Election Results Files on 5 November 2020 from D:\ Drive*

6.4.2.1.3 Deleted Directories and Files from HiPro 1

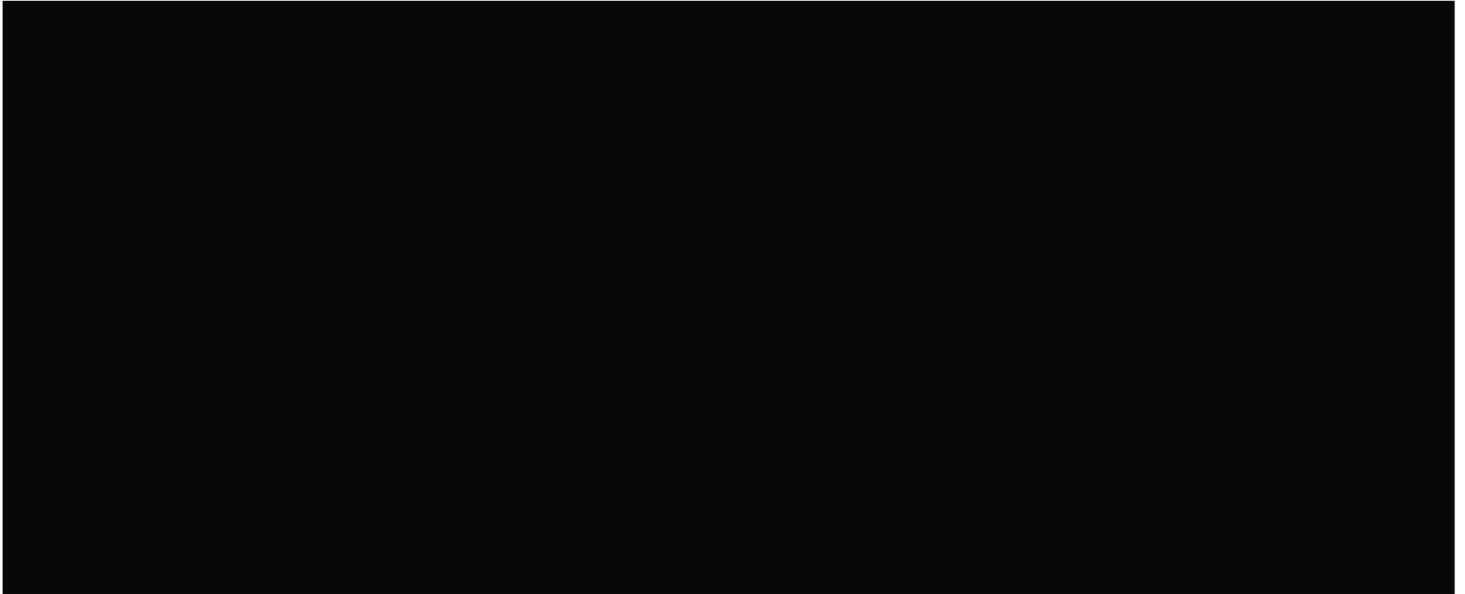
HiPro 1 Deleted Files and Folders – 304 Directories and 59,387 files containing election data were deleted from the HiPro scanner number 3 (CyFIR evidence number AZAUD-C-096) by an individual using the account hipradmin01. These files were deleted on 3 March 2021 between 03/03/21 12:53:34PM and 03/03/21 01:37:49PM.



*Figure 8-Deleted Election Related Files from HiPro 1*

6.4.2.1.4 Deleted Directories and Files from HiPro 3

HiPro 3 Deleted Files and Folders – 1,016 Directories and 196,463 files containing election data were deleted from the HiPro scanner number 3 (CyFIR evidence number AZAUD-C-099) by an individual using the account hipradmin03. These files were deleted on 3 March 2021 between 03/03/21 01:26:32PM and 03/03/21 01:37:49PM.



*Figure 9-Deleted Election Related Files from HiPro3*

6.4.2.1.5 Deleted Directories and Files from HiPro 4

HiPro 4 Deleted Files and Folders – 981 Directories and 191,295 files containing election data were deleted from the HiPro scanner number 4 (CyFIR evidence number AZAUD-C-098) by and individual using the hiproadmin04 account. These files were deleted on 3 March 2021 between 03/03/21 02:32:47PM and 03/03/21 02:44:32PM.

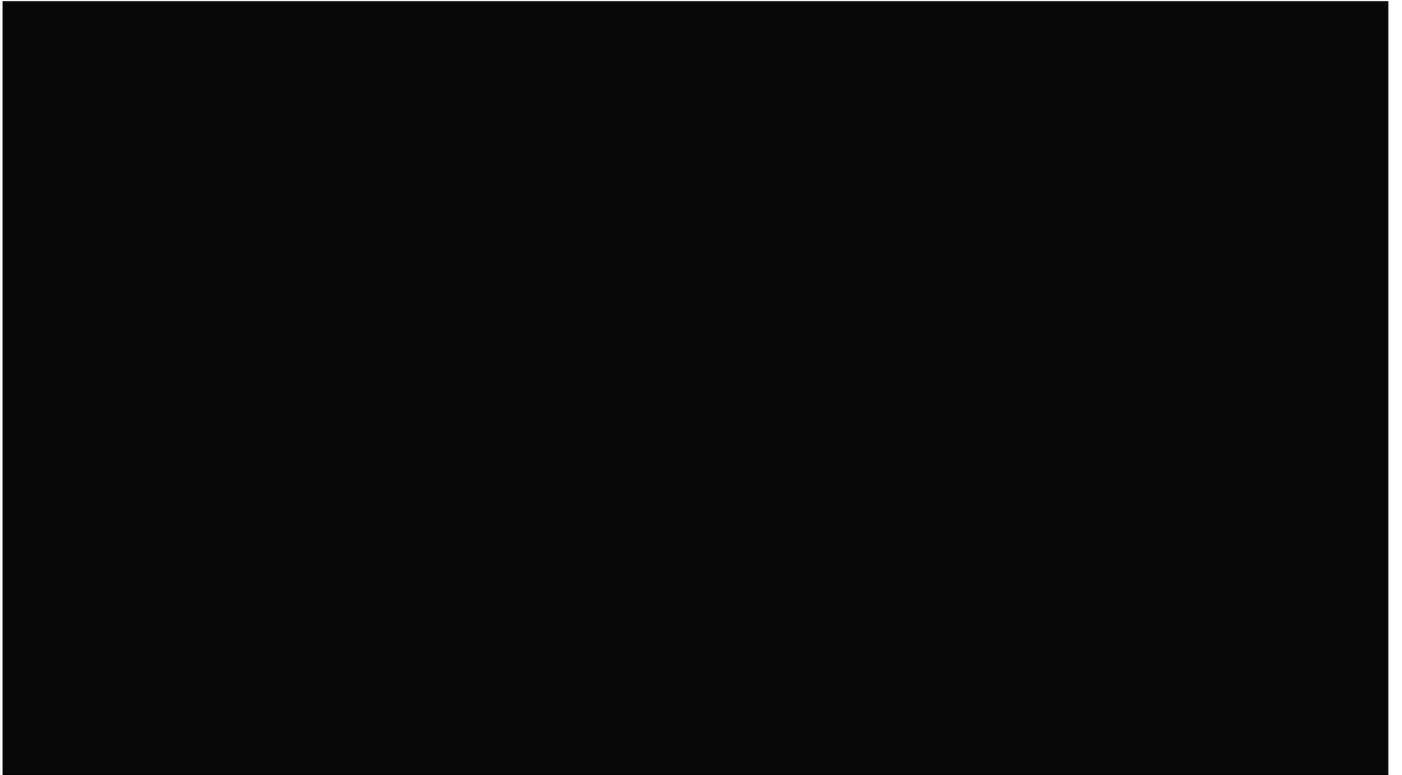


Figure 10-Deleted Election Related Files on HiPro4

### 6.4.3 CORRUPT BALLOT IMAGES

**Likelihood:** High      **Impact:** High

The audit has discovered 263,139 ballot images on the election system that are corrupt and unreadable TIFF format images. It is unclear what events could have resulted in this number of images being corrupted. The corruption of the ballot images in the election system only occurs for ballots that were scanned on or after November 1, 2020. No corruption of ballot images occurred in the 1,347,240 ballots processed on the same nine high-speed scanners prior to November 1, 2020. The image corruption is incongruous with the performance of those same nine high-speed scanner systems during the entire election prior to November 1, 2020. For each of the eight high-speed scanners used for ballots scanned starting on November 1, approximately half of the TIFF images are corrupted. The corruption prevents the audit team from confirming the efficacy of the vote totals and the correlation to the paper ballots stored in the various batches.

TIFF image batches were corrupted in some way and not entirely readable for the purposes of the audit. This means that it was impossible to confirm that the electronically recorded votes corresponded to the corrupted TIFF ballot images. In this scenario it is possible that manipulation of the electronic vote totals occurred in the instances where the TIFF images are corrupted. These corrupt TIFF images are not in the folder structure where finally adjudicated ballots are held. Instead, the corrupted adjudicated ballots for “Early Vote Spare 2” are located amongst what appear to be test batch ballot images.

NOTE: Because these images are critical, a new copy of these images was requested from Maricopa County, but a response was not given.



*Figure 11 - Early Vote Spare 2 Misallocated and Corrupted Ballots.*



*Figure 12 - HiPro 1 Early Vote Spare 2 Showing 97,098 Ballot Tiff Images, Showing the High Volume on these Devices.*



Figure 13 - Example folder showing corrupt TIFF images. The corrupt images either will not display a pre-view at all, or the ballot will be partially blacked out.

In addition, the very same nine (9) high speed tabulators processed more than 1.3 million votes from October 20, 2020, to October 31, 2020 without corrupting any TIFF ballot images. It is anomalous that these high-speed scanners had no errors for the eleven-day period prior to November 1, 2020, but had issues starting on November 1.

NOTE: The top level of the EMS folder structure containing all of the scanner’s zip files with the unadjudicated ballots (except the aforementioned missing ballots) are present. The corrupted ballots by file name do appear in these zip files, but none of the ballots in this folder structure are adjudicated.

#### 6.4.3.1 DATA FILES UTILIZED

| File Name                                             | MD5 Hash                         |
|-------------------------------------------------------|----------------------------------|
| AZAud-E-089-1 _EMS PRIMARY\AZAud-E-089-1 _EMS PRIMARY | 95a6f531c4969dda8f5703858e33d414 |

#### 6.4.3.2 REPRODUCTION STEPS

In order to locate and find the corrupt ballots, the Unix “find” command can be employed in conjunction with the “file,” “grep,” and “wc” (word count) command to determine if the ballot image is indeed a valid TIFF image format file.

For example, here is the command line:



#### 6.4.3.3 RECOMMENDATION

Legislation should be considered that will make ballot images an artifact from an election that is publicly published for increased transparency and accountability in the election process.

## 6.5 Medium Finding

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### 6.5.1 MISSING BALLOT IMAGES

**Likelihood:** Medium      **Impact:** High

The total number of ballot images that exist within the body of computer forensics material provided for the audit is substantially less than the official vote totals and the total number of paper ballots audited. 21,273 ballot images are entirely missing from the forensics images of the election equipment. This means that there are electronic votes recorded, but no actual ballot images that correspond to the votes. This makes it impossible to fully validate the results or confirm that the Election Management System (EMS) was not tampered with.

The results from the high-speed scanners from 11/1 to 11/13 are not found in the folder named, "20201103 General ballots and election files and adjudicated tabulators." We find the bulk of them in "20201103 General\Results" folder. The first 15-20 (depending on the specific high-speed scanner) of these batches do not have ballot images. The total number of missing ballot images is 21,273.



*Figure 14 - The tabulator results are found in two different folders, "20201103 General Ballots and election files and adjudicated tabulators" and "20201103 General."*



Figure 15 - The tabulator folder that should have images within it does not have any images.  
In total 21,273 images were missing.

#### 6.5.1.1 DATA FILES UTILIZED

| File Name                                             | MD5 Hash                         |
|-------------------------------------------------------|----------------------------------|
| AZAud-E-089-1 _EMS PRIMARY\AZAud-E-089-1 _EMS PRIMARY | 95a6f531c4969dda8f5703858e33d414 |

#### 6.5.1.2 REPRODUCTION STEPS

In order to find the number of ballot images, first it is necessary to query the EMS database for the election project name Project 20201103 General and select the vote total for the entire election using the following MS SQL command. This query is executed using the Microsoft SQL Server Management Studio v17.1 that was found to be installed on the EMS.

Windows Domain and Logon: [REDACTED]

Database Name: [REDACTED]

[REDACTED]

[REDACTED]

In order to count the total number of ballot images, the Unix “find” command can be employed in conjunction with the “grep” and the “wc” (word count) command to determine if the ballot image is indeed a valid TIFF image format file.

For example, here is the command line:



**Add these totals together and this is the total number of TIFF images on the EMS for the election.**

Then take the total number of ballots from the EMS from and subtract the total from the above commands.

### 6.5.1.3 RECOMMENDATION

Legislation should be considered that will make ballot images an artifact from an election that is publicly published for increased transparency and accountability in the election process.

### 6.5.2 FAILURE TO FOLLOW BASIC CYBER SECURITY PRACTICES

**Likelihood:** Medium **Impact:** High

The Department of Homeland Security’s Cybersecurity & Infrastructure Security Agency (CISA) has published a series of cybersecurity best practices and guidelines. In addition to general guidelines, CISA has also published specific best practices for securing election systems that is available for all counties to access at no cost. In the most recent version of the document CISA broke this guidance into specific categories for ease of utilization. As part of these findings, this report will address the following CISA recommendations and address the lack of Maricopa County compliance with the recommendations; Software and Patch Management, Log Management, Credential Management, and Establish a Baseline for Host and Network Activity.

#### 6.5.2.1 INSTANCES

|                                         |
|-----------------------------------------|
| 6.5.2.1.1 Software and Patch Management |
|-----------------------------------------|

CISA outlines the necessity for software and patch management within election systems. Specifically, CISA states “Failure to deploy patches in a timely manner can make an organization a target of opportunity, even for less sophisticated actors, increasing the risk of compromise.” It is clear that there was no established program to patch the operating system or even update the antivirus definitions. Neither the operating system nor the antivirus had been patched or updated since August 2019 (the date of the installation of the Democracy Suite). The county released a statement that they were prohibited from updating the operating system, that had they done so it would have invalidated the certification issued by the Voter Assistance Commission (VAC) for the Dominion software. This statement is contradicted by the County’s own actions following the installation of the Dominion software. Contrary to the claims that updating items on the election systems would invalidate the certification of the election system by the EAC, forensic analysis revealed that after the installation of the Dominion software in August 2019, 4 EXE packages were created, 45 EXE packages were updated and/or modified, 377 Dynamic Link Libraries (DLL) were created, and 1053 Dynamic Link Libraries were modified on the EMS server. If updating the operating system with patches and updating the antivirus definition file would have invalidated the voting certification, then the county had already invalidated the certification prior to the general election of 2020. Neither security audit contracted by Maricopa County noted these findings in their report.

6.5.2.1.2 Log Management

The Cybersecurity and Infrastructure Agency (CISA) recommends that organizations should set up centralized log management systems that 1) forward logs from local hosts to a centralized log management server, correlate logs from both network and host security devices, and review both centralized and local log management policies to maximize efficiency and retain historical data. Analysis of the systems revealed that none of these recommendations were being followed on the Maricopa County election systems. In fact, in a later paragraph this report details how the windows security logs for the EMS server were in fact intentionally deleted such that the logs no longer covered the time period for the 2020 General Election. Neither security audit contracted by Maricopa County noted this finding in their report.

6.5.2.1.3 Credential Management

The Cybersecurity and Infrastructure Agency (CISA) states that Managing passwords and using strong passwords are important steps in preventing unauthorized access to databases, applications, and other election infrastructure assets. CISA further recommends that usernames be assigned to a specific person, not be shared and be changed every 90 days. CISA actually recommends that multifactor authentication be enabled for election systems. Key to the username and password concept is to be able to uniquely identify a user, assure authorized access by a given users, and to be able to hold that individual accountable for the actions performed by that assigned account. In the case of the Maricopa County election systems, none of these guidelines were followed. Neither security audit contracted by Maricopa County noted this finding in their report.

*Maricopa County Failed to Ensure Unique Username Allocation to Individuals*

Generic username accounts were created as part of the Dominion Software installation on 8/06/2019. These accounts were not assigned to a specific individual but appear to have been shared accounts based on function, not individual accountability. Neither security audit contracted by Maricopa County noted this finding in their report.

*Maricopa County Failed to Create Unique Passwords for Each Account*

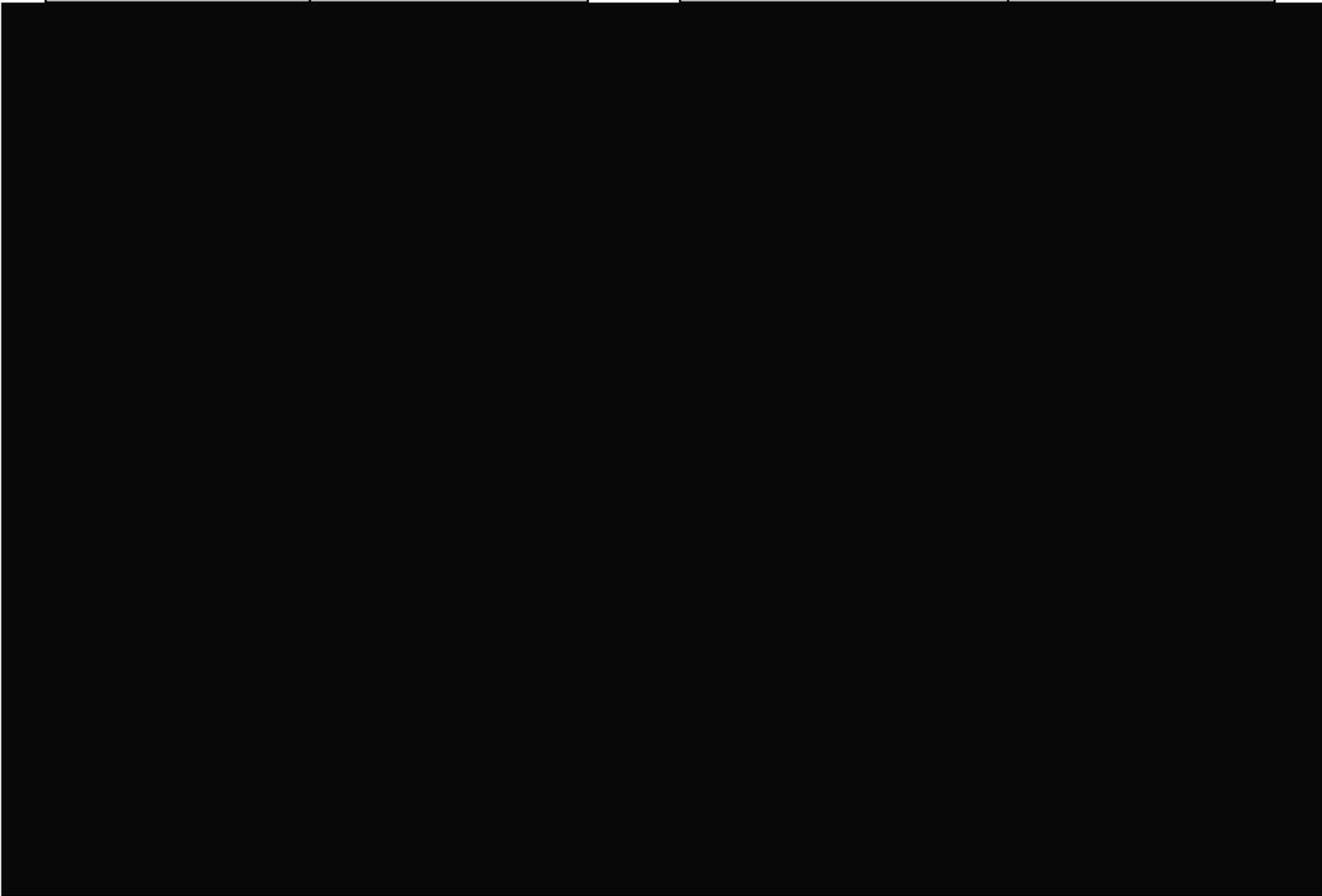
Unique passwords were not created for each account. Just to be clear, the same password was used for all the accounts (if there was in fact a password for the account). This action violates every principle of password management guideline as published in every cyber security framework that currently exists. Below are the list of accounts and the corresponding password. Note the last 4 characters of the password has been masked for security reasons, but all 4 of those characters are the same for all accounts. Furthermore, these passwords had not been changed since the Dominion software suite had been installed (presumably by Dominion employees) in August of 2019. The recommendation from CISA and most cybersecurity frameworks recommend that passwords, especially for administrative accounts, should be changed every 90 days. Neither security audit contracted by Maricopa County noted this finding in their report.

| Account Name | Password | Account Name | Password |
|--------------|----------|--------------|----------|
|--------------|----------|--------------|----------|



| Account Name | Password |
|--------------|----------|
|--------------|----------|

| Account Name | Password |
|--------------|----------|
|--------------|----------|



Note: These passwords were subsequently used in conjunction with accessing virtual machines that were created from copies of the forensic images and were proven to be legitimate passwords. Neither security audit contracted by Maricopa County noted this finding in their report.

6.5.2.1.4 Lack of Baseline for Host and Network Activity

The analysis of the computing systems that comprised the Maricopa County voting system (to the extent produced) did not find any whitelisting, monitoring, baselining, or network programs that could have been used to establish a baseline for host and network activity. CISA recommends that counties leverage software and monitoring functions to establish and enforce a software and a network baseline of approved programs, communications protocols, and communications devices for voting systems. This baseline should be monitored and integrated into an alerting and response capability to ensure that no unauthorized programs are executed on the endpoints in the network and there are no unauthorized devices communicating on the network. Neither security audit contracted by Maricopa County noted this discrepancy or finding in their report.

6.5.3 SUBPOENAED EQUIPMENT NOT YET PROVIDED

**Likelihood:** Medium **Impact:** High

SLI Compliance report page 11 states that the Maricopa County produced 6 EMS computers. Further analysis indicated that there were 4 EMS workstations and 2 EMS servers. Maricopa County only produced 1 EMS server and 4 EMS workstations despite the Arizona Senate subpoena requesting ALL EMS servers and systems utilized in the 2020 General Election. This has impacted the ability to complete the audit of the digital network and devices. For example, if malware was resident on the missing EMS or that machine was utilized in any manner to manipulate the results of the election; this would not be able to be determined from our analysis.

6.5.3.1 INSTANCES

6.5.3.1.1 Network Related Data

The Arizona Senate Subpoena to the Maricopa County Board of Supervisors included the production of network routers, router configuration files and managed switches used in the 2020 General Election. In subsequent conversations with county officials and county attorneys between 4/22/21 and 4/30/21 these officials agreed to provide virtual access to the systems and to provide archived Splunk data beginning 60 days prior to the election and ending 90 days following the election. Maricopa County refused to provide any data citing that the production of the router data would compromise ongoing law enforcement operations and the personally identifying information (PII) of Maricopa County residents. Maricopa County and the Arizona State Senate recently settled their dispute regarding outstanding subpoena items, so this portion of the audit is not yet complete.

6.5.3.1.2 Poll Worker Laptops

Despite the presence of at least one poll worker laptop at each voting center, the auditors did not receive laptops or forensic copies of their hard drives. It is unknown, due to the lack of this production, whether there was unauthorized access, malware present or internet access to these systems.

#### 6.5.3.1.3

#### ImageCast Precinct (ICP) Administrator Credentials and Hardware Tokens

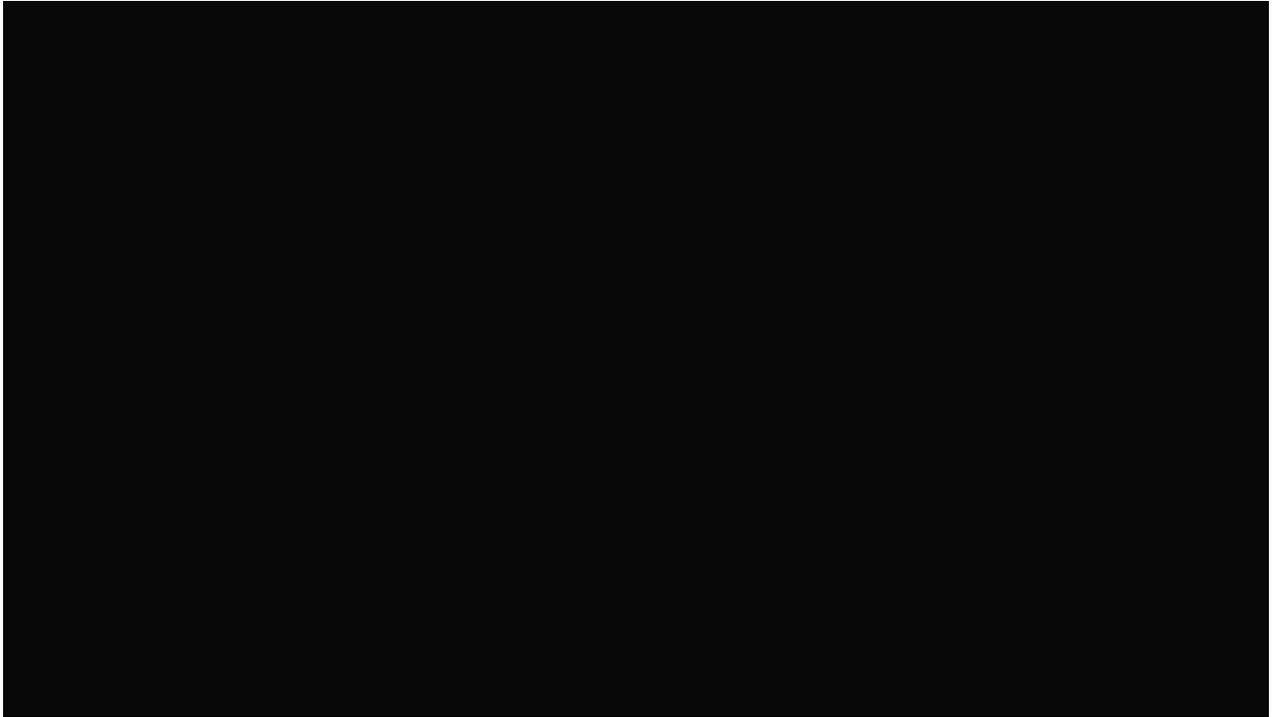
Maricopa County utilized the Dominion ImageCast Precinct 2 (ICP2) tabulator during the General 2020 election. These tabulators are normally configured with cellular wireless connections, Wi-Fi access and multiple wired LAN connections. The ICP2 actually requires two forms of authentication to configure, check and/or access the device, a numerical password and an iButton token. Maricopa County produced iButton credentials for Poll Workers to open and close polls on the ICP2's but did not produce any credentials to access the higher level administrative or configuration settings for the tabulators. This prevented the verification of the ICP2 settings to include the cellular wireless settings, the local area network settings, the wide area network settings and access to the administrative configuration reporting functions. During the course of the examination, we were able to recover the higher-level admin's numerical password from the EMS SQL Database. We also attempted to create administrative level iButton credentials utilizing the EMS system forensic images mounted in a Virtual Machine (VM) environment. The VM of the EMS system was fully functional and was used to produce poll worker iButton credentials, however, the EMS did not have the ability to create the administrative ICP2 credential.

The EMS, as produced to the auditors, only had the Poll Worker role programmed into EMS. The Poll Worker role did not have the necessary privileges and functionality to create an administrative iButton credential. In their response to the Arizona Senate request for the administrative ICP2 iButton credentials, the Maricopa County officials indicated that they did not possess these credentials and only the contracted Dominion employees have access to these credentials. Dominion has refused to comply with the production request. Given the inability to create administrative tokens with the EMS and the statement by Maricopa County concerning the ownership of the administrative iButtons, Maricopa County is unable to validate tabulator configurations and independently validate the voting system prior to an election. Additionally, since Maricopa County does not control the administrative iButtons, Maricopa County is apparently unable to independently configure, validate the voting systems prior to an election, or satisfactorily freeze the configuration of the systems for the required time periods during an election. If only the vendor controls the administrative iButtons, Maricopa County has no way of checking the configuration of the tabulators.

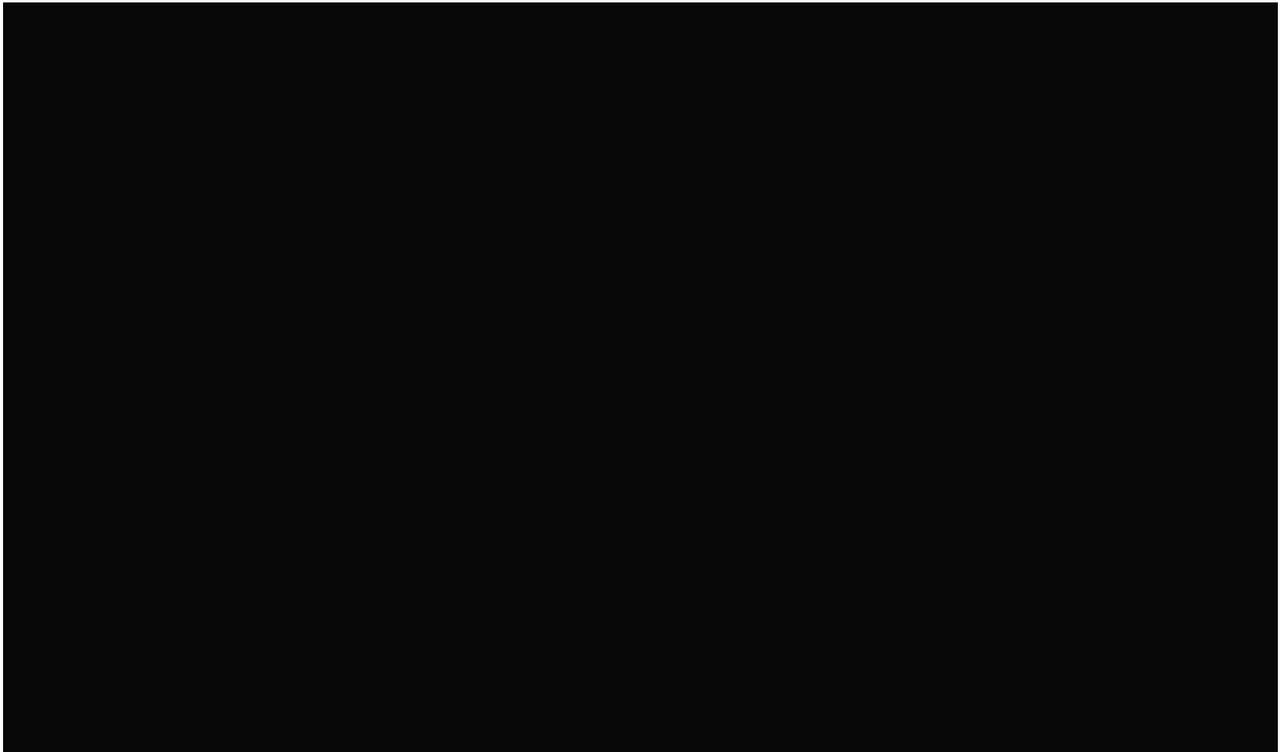
#### 6.5.3.1.4

#### IPX and Other Devices

Based on the videos of the Maricopa County Tabulation and Election Center (MCTEC) there are a significant quantity of systems that were used in the voting process for the 2020 General Election that were not produced, including the items pictures below.



*Figure 16-Video Taken on 8 November 2020 of Maricopa County ICX Systems*



*Figure 17-Video Capture Taken from Maricopa County Live Stream*

6.5.3.1.5 Other Devices Connected to the Election Network

Examination of the network configurations for the produced systems determined that the programmed gateway for all the systems was [REDACTED]. This normally refers to the network router used to route network traffic external to the [REDACTED]. This device could also have been a managed switch. In either case, the device was not produced. The DNS cache has an entry for [REDACTED] with an IP address of [REDACTED], indicating that this system had been communicated with the EMS server and was probably used for printing. Given the naming convention of the device, [REDACTED], MCTEC is the acronym for the Maricopa County Tabulation and Election Center. This device has not been produced by Maricopa County. Therefore, there are additional network components that the county has not acknowledged and that are in tension with the public statements made by the county that the election system did not have any routers and was completely isolated from the internet.



Figure 18-DNS Update Table Recovered from the Maricopa County EMS.

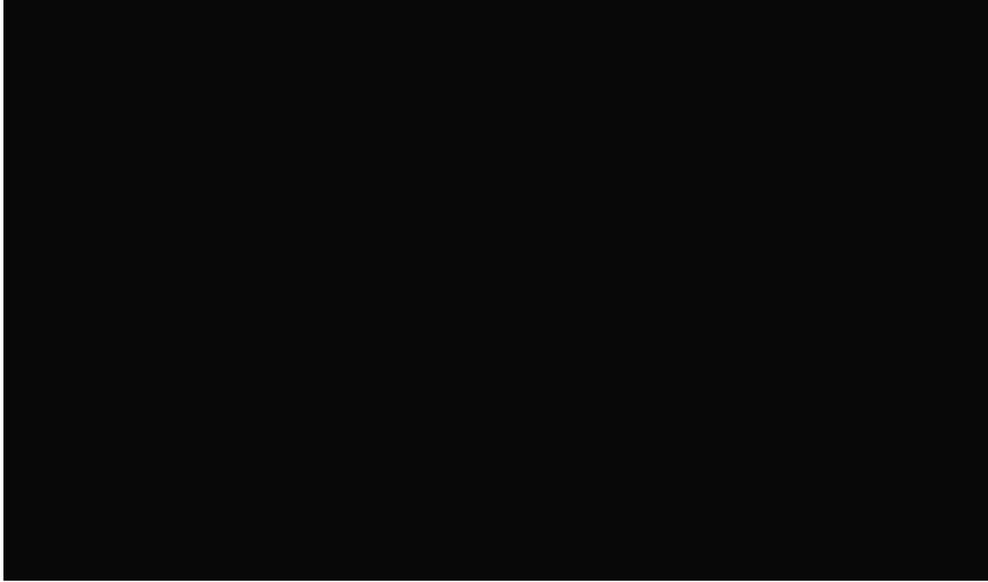


Figure 19-Default Gateway Settings

#### 6.5.4 ANONYMOUS LOGINS

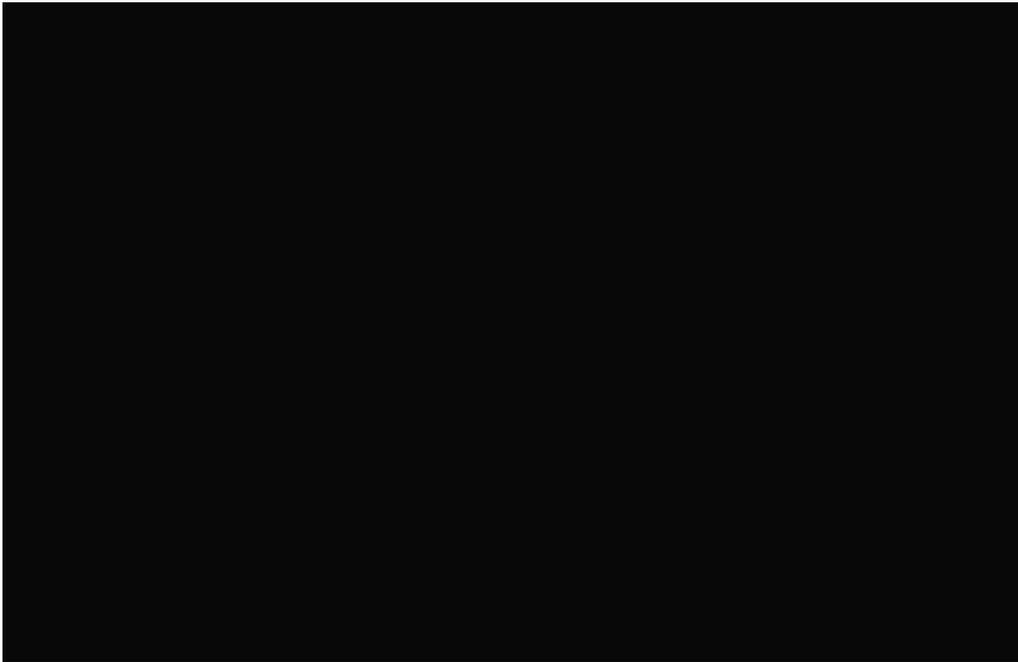
**Likelihood:** Medium    **Impact:** Medium

There are common functions in Microsoft Windows that will record an anonymous login activity into the windows security logs. These logins, however, exhibit known recording sequences within the logs that allow analysts to determine the origination of the requesting function and determine the legitimacy of the logged action. An example of this behavior is the windows response to a request to access a Windows Server Message Block (SMB) share, also known as a network drive. When a user requests a connection to network drive, that initial connection request is logged as an anonymous user. The log entry also records the requestor's host name and the requestor's IP address. That anonymous request is then immediately followed up with another logged entry that authenticates the user's actual username and password in order to grant access. Below is a screen shot of this normal windows activity. Notice that the workstation name, source network IP and source port fields of this log entry contains valid data. This log entry is immediately (within one second) followed by the successful authentication of the username that is authenticating to the network drive for access permissions. That subsequent user authentication is also logged.



*Figure 20-Normal Anonymous Request to SMB Share*

While the Windows security logs from the Maricopa County EMS server only are present from 2/5/21 to 4/12/21, there are a significant number of atypical remote, anonymous logins contained in the Windows security logs. Below is an example of the atypical anonymous logons. Note that this is a remote login (login [REDACTED]). Note that the Workstation Name, Source Network Address and Source Port log elements are not populated, and that root/system level access is granted. It is normal for logins from the local system (login type [REDACTED]) to not populate these data fields, but the fact that it is a network remote login (login type 3), and the fields are not populated is irregular and indicates that this is not a typical anonymous login. A search of the event logs from other Windows 2012 R2 servers did not reveal a single logon type [REDACTED] anonymous log entry that did not record these log data elements.



*Figure 21-Atypical Remote Anonymous Access to EMS Server*

Without access to the network data, it is impossible to determine the origin of these successful atypical remote anonymous logons. The fact that there effectively was no user account and password controls resulting in shared user accounts and passwords, coupled with the lack of network data, makes it impossible to determine if these accesses were legitimate or unauthorized without the network data. This portion of the audit is therefore not yet complete.

#### 6.5.5 DUAL BOOT SYSTEM DISCOVERED

**Likelihood:** Medium    **Impact:** Medium

Analysis of the system labeled Adjudication 2 (CyFIR evidence designation AZAud-E-087) revealed that this system contained two bootable hard drives. These two hard drives were subsequently labeled One of the AZAud-E-087-1 and AZAud-E-087-2. Neither security audit contracted by the Maricopa County noted this finding in their report.

##### 7.5.5.1 ANALYSIS OF AZAUD-E-087-1 DETERMINED THE FOLLOWING:

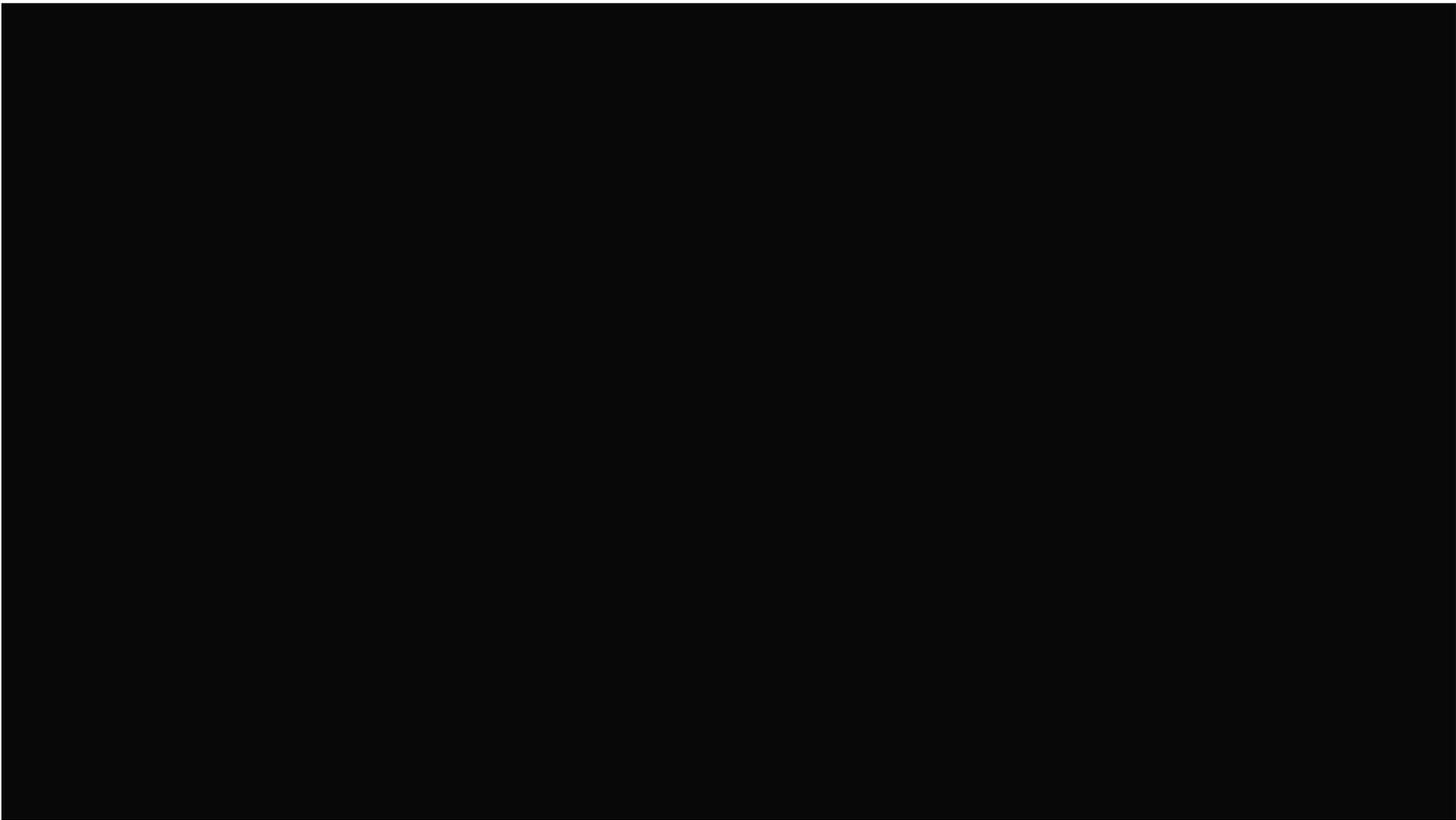
[REDACTED]

Configured to communicate with an SMTP server address of [REDACTED] in the Dominion Voting Systems NLog.config file. Note: the nslog.config files on this system also contained clear text passwords, one of which was the password for the emsdbadmin account.

##### 7.5.5.2 ANALYSIS OF AZAUD-E-087-2 DETERMINED THE FOLLOWING:

[REDACTED]

The discovery of a system with a dual boot configuration is a significant finding. First, it demonstrates a failure in the hardware configuration management of the Maricopa County election systems. Second, two bootable hard drives within the same system, under certain circumstances would create a situation where one operating system could act as a “jump box” where one system could access the internet and the other system would be restricted to an isolated network. This is commonly called a dual homed access and could have provided an access route into the voting system network. Without the router data, historical Splunk data and NetFlow data, we cannot complete the full analysis of the impact of this dual boot computer. Neither of the two audits performed by Maricopa County detected or reported this additional, bootable hard drive on the Adjudication 2 system.



6.5.6 EMS OPERATING SYSTEM LOGS NOT PRESERVED

**Likelihood:** Low      **Impact:** High

The Windows event logs that were present on the EMS Server that was produced by Maricopa County contain Windows security event logs (██████████). This file records the Windows operating security events for the EMS server including all user accesses, whether those accesses are from the local system itself or from accessing the system remotely. This log file was restricted by a policy set by Maricopa County to a file size of 20,480KB (20MB). The logging activity was set to automatically overwrite the existing log entries if the security file exceeded this size. The overwrite action would write a new log entry and delete the oldest entry in the log file. In the case of the security.evtx file on the EMS server, the earliest retained log entry was dated 2/5/2021 10:37:49 AM (the last day of the Pro V & V audit) and the latest entry was dated 4/12/2021 4:53:16 PM. The logs were not preserved and did not cover the dates for the general election (3 November 2020). An examination of the EMS and other systems involved in the 2020 General Election did not discover any enabled external log aggregation functionality nor were historical logs beyond those that were contained on the operating systems provided to the digital examination team. The security access logs were not preserved and were overwritten.

Enable logging  
 Maximum log size ( KB ):   
 When maximum event log size is reached:  
 Overwrite events as needed (oldest events first)  
 Archive the log when full, do not overwrite events  
 Do not overwrite events ( Clear logs manually )

Figure 22-Policy Settings EMS Security.evtx

6.5.6.1.1 User Log Deletions on 2/11/2021

A user leveraging the emsadmin account remotely logged into the EMS server at 2/11/2021 9:08:27 AM via terminal services and began executing a script at 2/11/2021 9:09:04 AM that checked accounts for blank passwords. The event logs record this connection as originating from a system with the IPV6 address of [REDACTED], which is a local network IPV6 address. Between 2/11/2021 8:09:04 AM and 2/12/2021 7:12:55 AM this user ran this check 462 times. Each time the check was performed a new line was added to the security log, which had the effect of deleting the oldest entry in the log file due to the previously mentioned log size limitation setting. 462 older log entries were deleted via this method.

6.5.6.1.2 User Log Deletions on 3/03/2021

A user utilizing the emsadmin account remotely logged into the EMS server at 3/3/2021 11:12:31 AM and began executing a script at 3/3/2021 11:13:44 AM that checked accounts for blank passwords. The event logs record this connection as originating from a system with the IPV6 address of [REDACTED], which is a valid IPV6 local network address. Between 3/3/2021 11:12:31 AM and 3/5/2021 7:58:04 AM this user ran the script 37,686 times. Each time the check was performed a new line was added to the security log, which had the additional effect of deleting the oldest entry in the log file due to the previously mentioned log size limitation setting. 37,468 older log entries were deleted via this method.

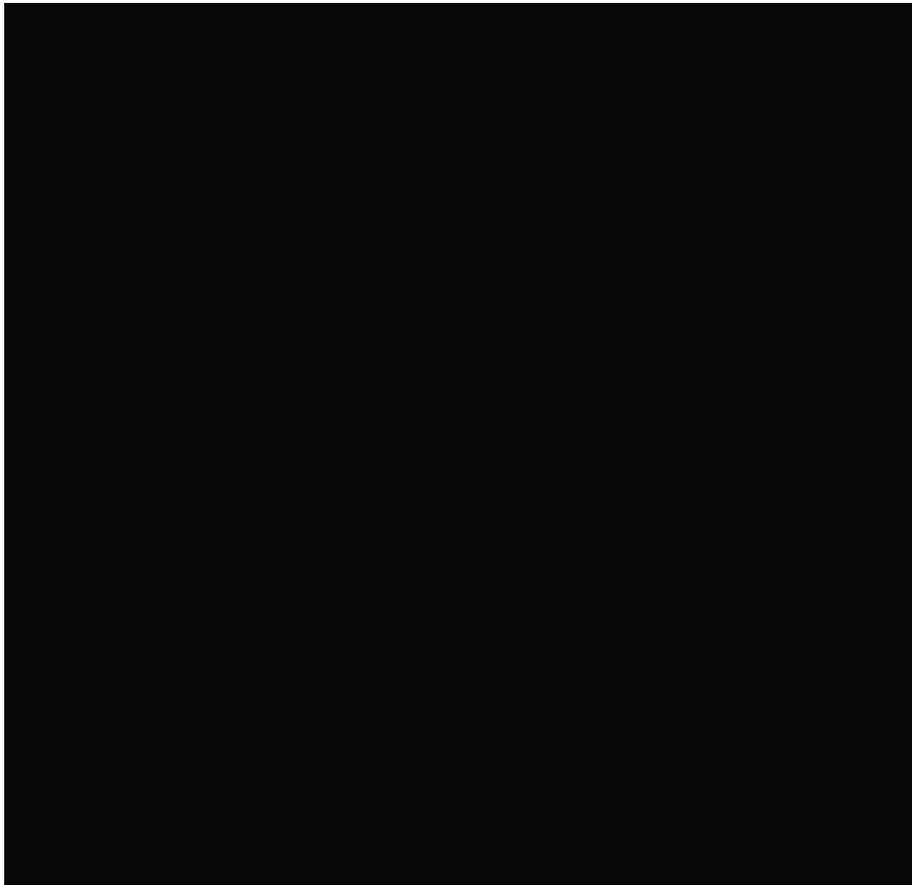
This was 14 days after the Arizona State Senate described the risk of evidentiary loss due to continued use of election equipment, and 6 days after Judge Thomason ruled that the subpoena needed to be complied with.



*Figure 23-3 Identified but Unnamed Individuals at the keyboard at 3/3/2021 at 11:06AM*

6.5.6.1.3 User Log Deletions on 4/12/2021

A user utilizing the emsadmin account began executing a script at 4/12/2021 1:39:38 PM to check accounts for blank passwords. Between 4/12/2021 12:39:38 PM and 4/12/2021 12:45:13 PM this user ran this check 330 times. Each time the check was performed a new line was added to the security log, which had the additional effect of deleting the oldest entry in the log file due to the afore mentioned log size limitation setting. 330 older log entries were deleted via this method.



*Figure 24- County Employee at the EMS Keyboard on 4/12/2021 at 12:39PM  
the time of the last blank password check was run.*

### 7.5.5 INTERNET CONNECTIONS

**Likelihood:** Medium    **Impact:** Medium

The Maricopa County Board of Supervisors has repeatedly stated that the network connecting the election /voting systems is an isolated network that has no ability to connect to the internet. An in-depth analysis of both the allocated and unallocated space of the EMS, EMS workstations, Adjudication Workstations and other elements of the election system has definitively proven that this is not the case. There were hundreds of connections to public internet sites recovered from the unallocated areas of the hard drives. For the purpose of this report, only internet connection artifacts that contained valid dates after the installation of the Dominion Software suite on 8/6/2019 were included in this report. Additionally, for the purposes of this report only sites that have been visited multiple times were reported to avoid false reporting of default internet histories. Given that the Dominion Software suite was installed on 8/6/2019, no internet history URL visit dates should exist after that date.

The county did not provide a network diagram, a function diagram or any other documentation to determine if in fact a given system was supposed to be connected to the internet. Public statements by the county made clear that no election related system was connected to the internet. For the purposes of the internet examination, auditors used this statement as the starting point to prove or disprove that there was internet connectivity accessible to the systems provided by the county as a result of the subpoena. In the course of the examination definitive evidence was recovered that the EMS, EMS Client 1, EMS Client 3, EMS Client 4, REWEB 1601, and the REGIS 1202 systems had access to the internet after the installation of the Dominion voting software suite was installed on 8/6/2019. Given the nature of unallocated space analysis this is by no means a complete recovery of all internet history, but is definitive for the recovered internet artifacts on the dates and times indicated.

#### 6.5.6.2 INTERNET CONNECTIONS TO THE EMS

The EMS Server had 3 connections on 2/2/2021 to the URL [REDACTED]

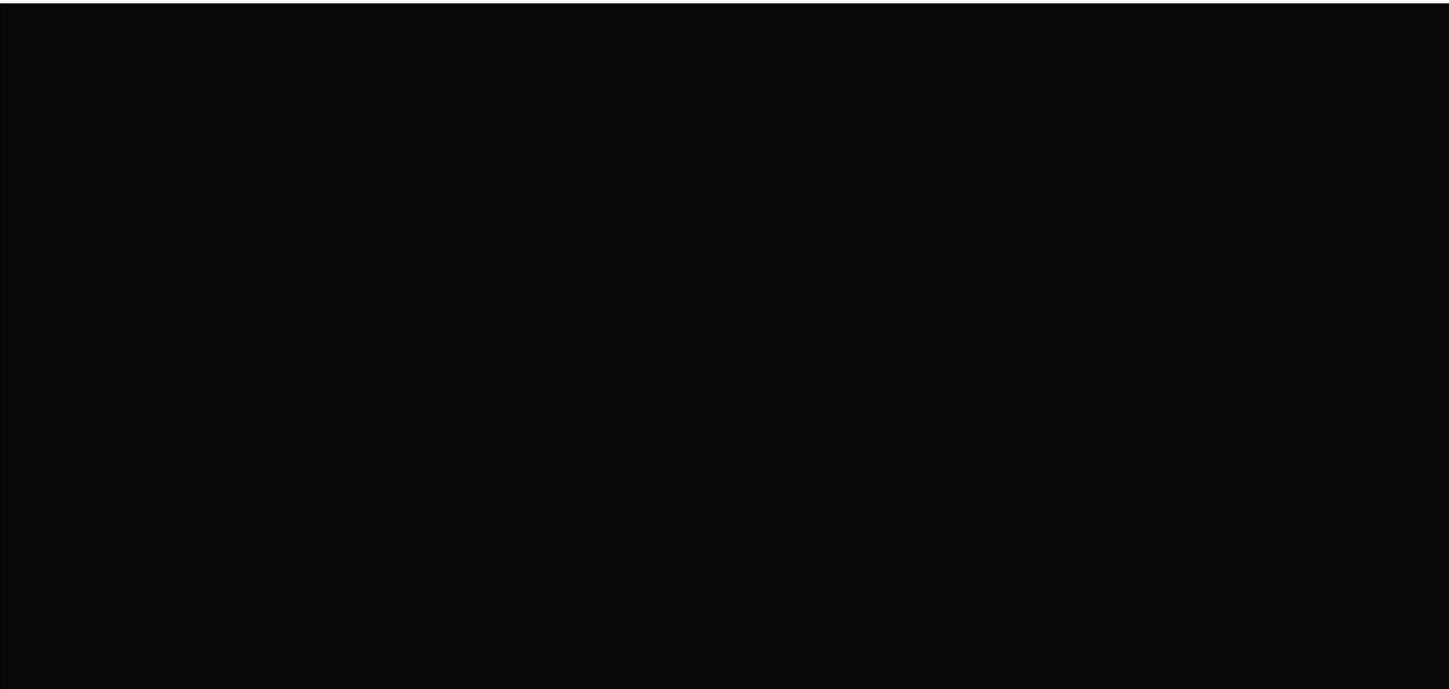
[REDACTED]

#### 6.5.6.3 INTERNET CONNECTIONS TO THE EMS CLIENT 1

The EMS Client 1 had 9 Connections to the internet between 2/7/2020 and 2/22/2021, specifically to the go.microsoft.com and www.bing.com URL's.

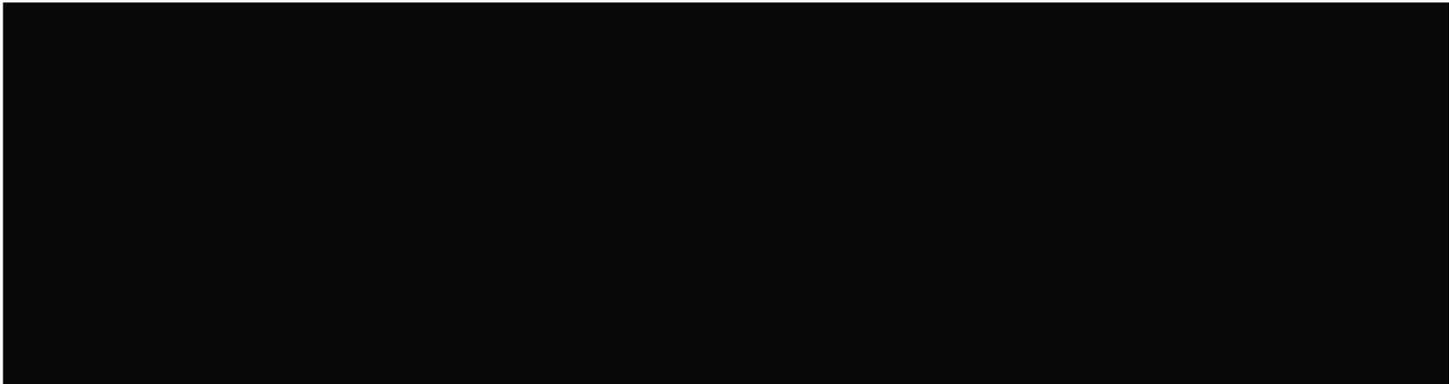
[REDACTED]

In addition to the HTTP(S) connections, there were 51 records recovered that contained 143 connections to an internal device that was not produced by Maricopa County with an IP address of [REDACTED].



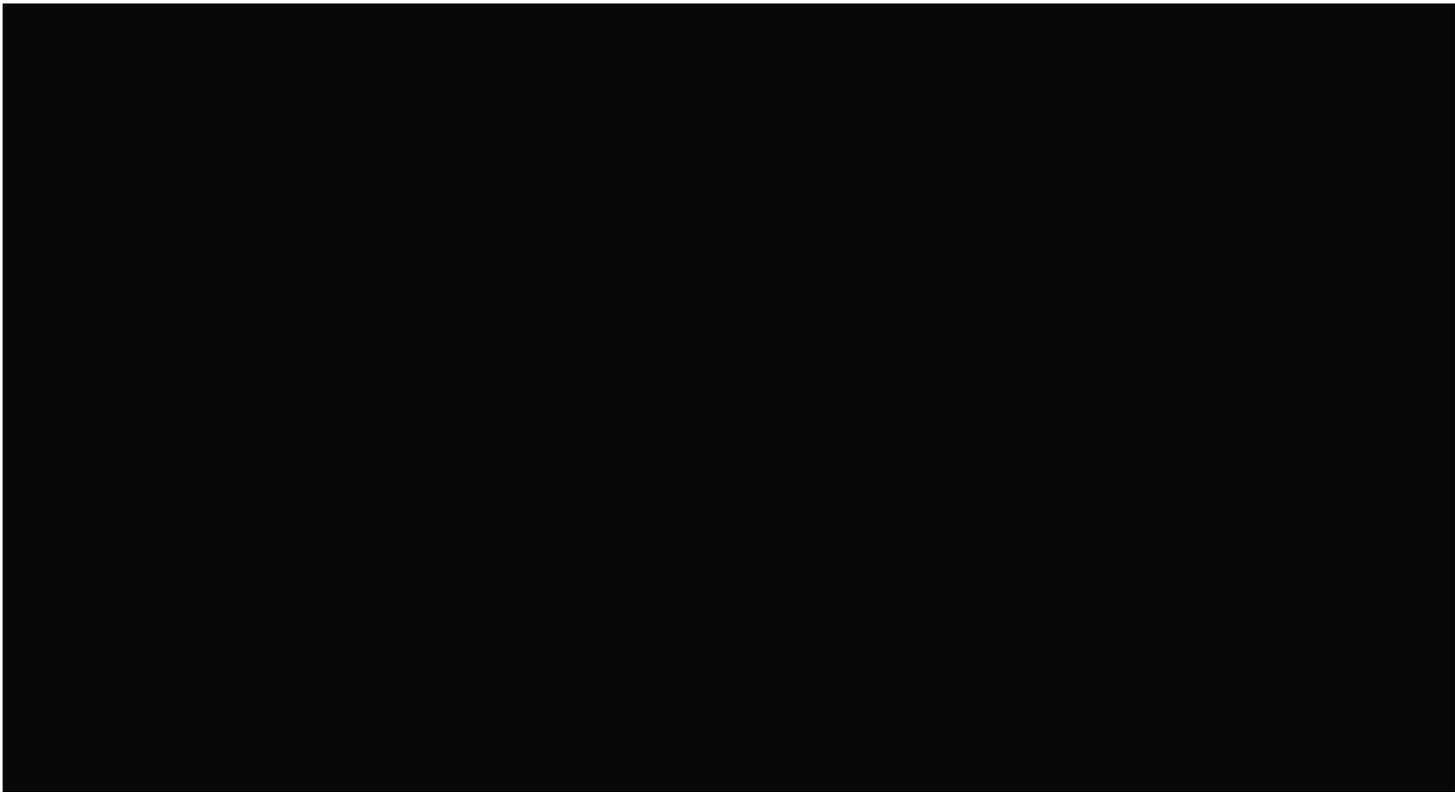
#### 6.5.6.4 INTERNET CONNECTIONS TO THE EMS CLIENT 3

The EMS Client 3 had 6 Connections to the internet to the go.microsoft.com URL.



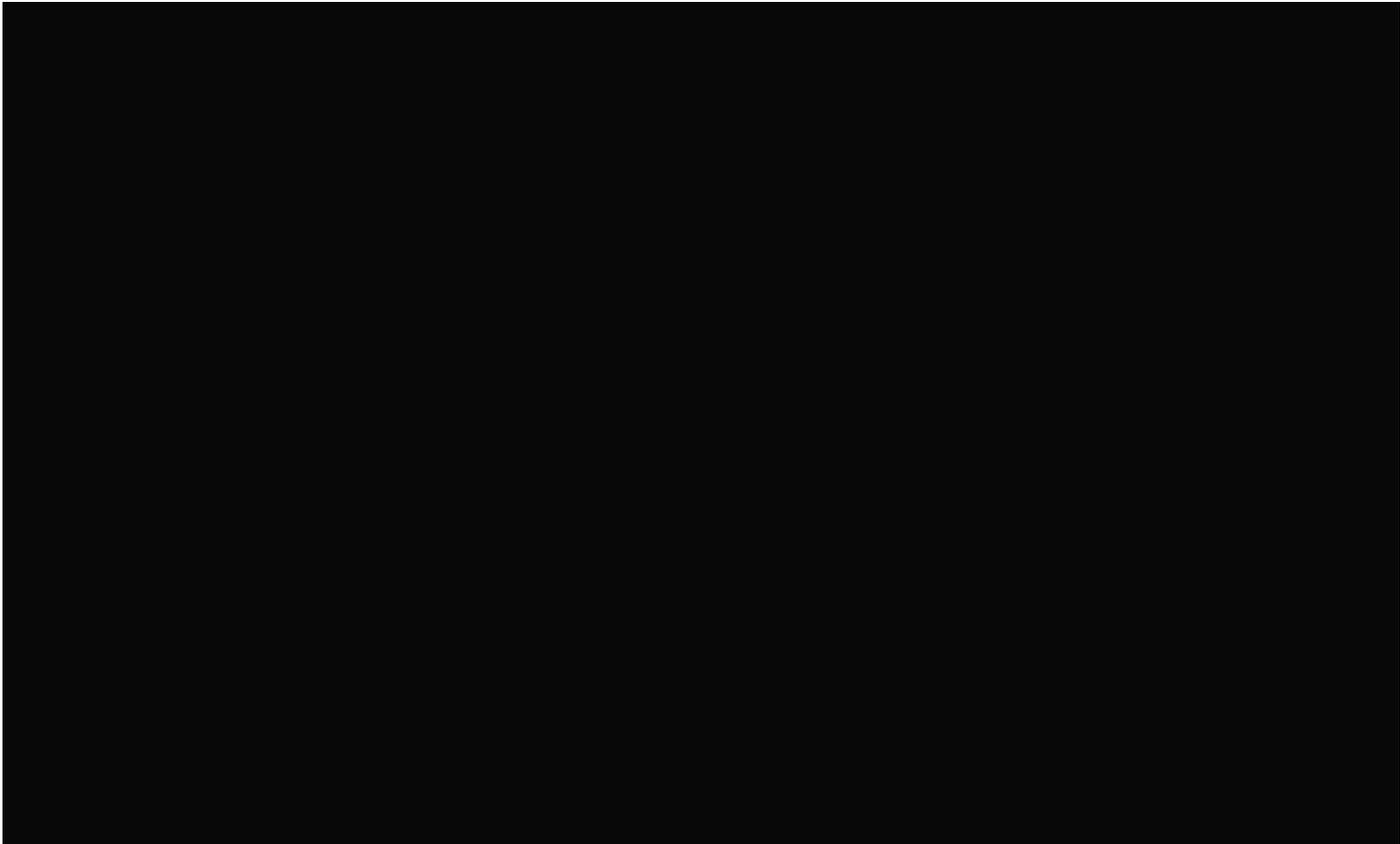
#### 6.5.6.5 INTERNET CONNECTIONS TO THE REWEB 1601 SYSTEM

The county provided what was represented as a “forensic image” of the system with the hostname [REDACTED]. This in fact was not an actual forensic image, but rather a copy of the hard drive on a 4TB external drive. It is unknown what actions were taken by the County to ensure that the drive was wiped prior to the system copy. A carve for internet history artifacts recovered 890 internet records, each with multiple visit iterations for public URL connections including foxnews.com, maricopa.gov, Microsoft.com, msn.com and adnxs.com.



#### 6.5.6.6 INTERNET CONNECTIONS TO THE REGIS 1202 SYSTEM

The county provided what was represented as a “forensic image” of the system with the hostname REGIS 1202. This in fact was not an actual forensic image, but rather a copy of the hard drive on a 4TB external drive. It is unknown what actions were taken by the County to ensure that the drive was wiped prior to the system copy. A carve for internet history artifacts recovered 205 internet records, each with multiple visit iterations for public URL connections including maricopa.gov, Microsoft.com, and logons to the localhost.



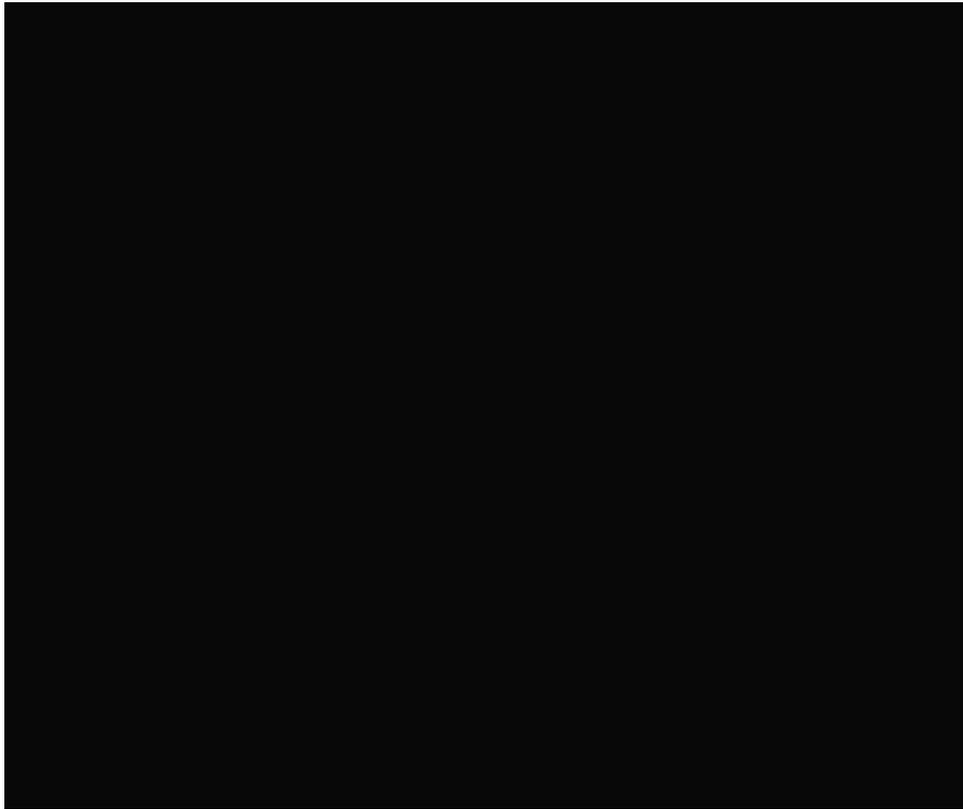
## 7.6 Low Findings

---

### 7.6.1 ELECTION DATA FOUND FROM OTHER STATES

**Likelihood:** Low      **Impact:** Medium

The Maricopa County Adjudication 2 system had two bootable hard drives. The drive identified as [REDACTED] contains a directory [REDACTED]. Inside of that directory are subdirectories that appear to contain data from other jurisdictions and what appears to be demonstration data. Specifically, these directories are named [REDACTED]. One can reasonably assume that WA is an abbreviation for Washington and SC is an abbreviation for South Carolina. There is no known need for this external data to be located on a Maricopa County adjudication system. Neither of the two audits performed by Maricopa County reported this finding.

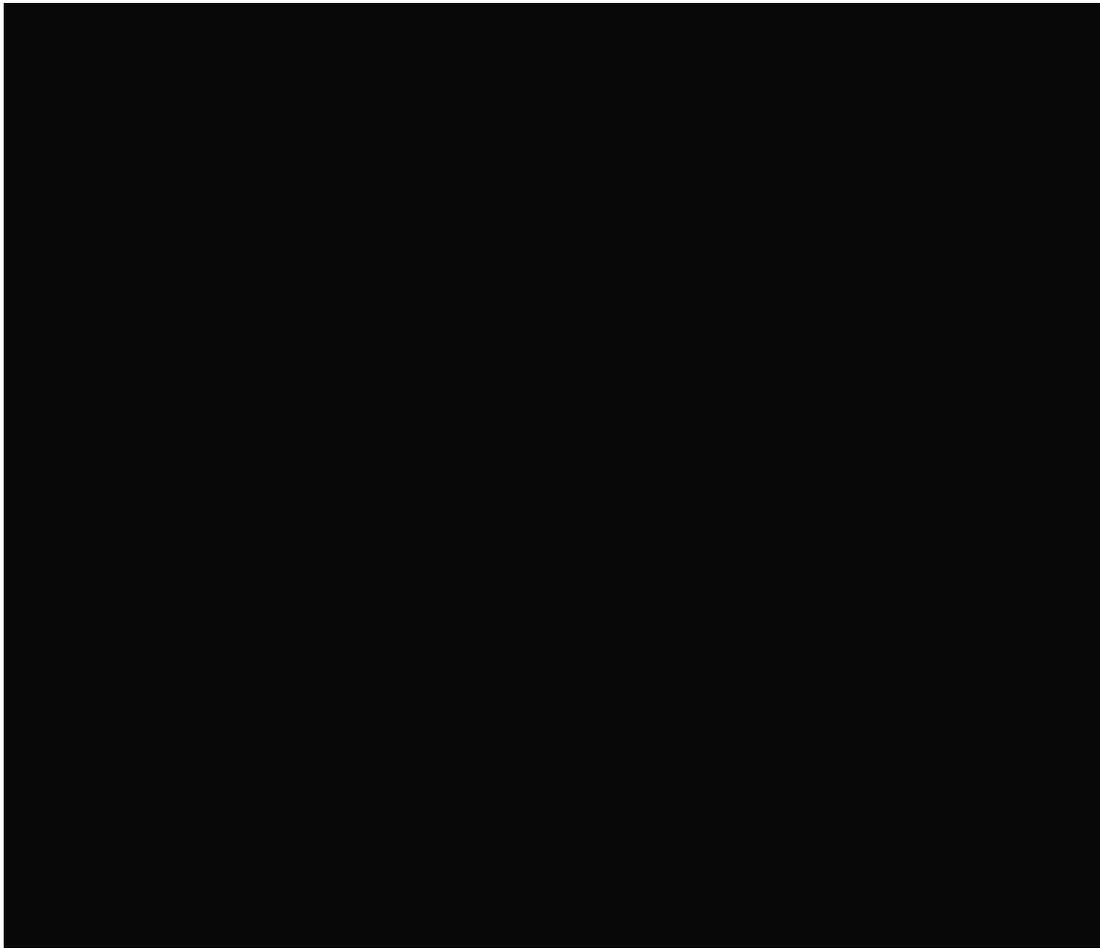




*Figure 26-General with Variable SP Directory*



*Figure 27-SC Cert Cookie General Directory Structure*



*Figure 29-Special Election with Fusion Directory*



*Figure 28 - WA Cert General 2018 vA Directory*

## 7 ABOUT CYBER NINJAS

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Cyber Ninjas is an application security consulting company specializing in ethical hacking, training, and security program development. Our staff represents over 10 years of experience in a variety of areas including application support, development, product management, and application security. This experience across all areas of the software development life cycle gives us a unique perspective on how to build security into your existing processes. With everything we do, our goal is to build the knowledge within your organization. We strongly believe that "Security comes with knowledge," and that it is our job as Cyber Ninjas to train and teach through every engagement to build up capabilities within your organization.

**From:** DOUG COOP <koukakila@gmail.com>

**Sent:** Wednesday, November 24, 2021 9:15 PM EST

**To:** Rep. Vicki Kraft <RepVickiKraft@updates.leg.wa.gov>; Klippert, Rep. Brad <Brad.Klippert@leg.wa.gov>; Rep. Robert Sutherland <RepRobertSutherland@updates.leg.wa.gov>

**Subject:** Fwd: Legislators Sign Audit All 50 States Letter

**CAUTION:** External email.

Glad to see you three on the list for this fight

Sent from my iPhone  
Doug Coop

702-524-2262

Begin forwarded message:

**From:** "Lt. Col. Wendy Rogers" <wendy1@wendyrogers.org>

**Date:** November 24, 2021 at 4:13:50 PM PST

**To:** Doug Coop <Koukakila@gmail.com>

**Subject:** Legislators Sign Audit All 50 States Letter

**Reply-To:** "Lt. Col. Wendy Rogers" <wendy1@wendyrogers.org>

Hi Doug,

39 states. 188 state legislators.

Part of justice for the fraud in the 2020 election, is a demand to audit all 50 states and decertify where appropriate. This is a reasonable request.

**We have made much progress. But as we have found out this year, there was a LOT of fraud- and in many states. We need to make this a TRUE nationwide effort!**

I'm Arizona Senator Wendy Rogers. I am the based Arizona Senator fighting for audits and election integrity nationwide! [Help me make this a true 50 state effort for election integrity!](#)

**Audit. Decertify. Convene Congress to decide the 2020 winner. It's not that hard!**

## **Letter From State Legislators To The American People In Reference To The 2020 Election**

To the citizens of the United States of America,

We the undersigned state legislators of the United States are vested with the plenary power by our US Constitution (Article 2 Section 1 Clause 2) to oversee the election of the president of the United States.

It has come to our attention from an audit of 2.1 million ballots in Arizona complemented by an in-depth canvass of votes in Arizona, as well as through multiple different data reviews of voting by independent experts; that our representative republic suffered a corrupted 2020 election.

In addition to Arizona, sworn affidavits have accumulated from many states detailing rampant corruption and mismanagement in the election process. Fraud and inaccuracies have already been shown through multiple audits and canvasses in multiple states, as well as through lawsuits challenging the validity of election results in several counties in multiple states.

WA-REP-21-1728-B-000336

We have come to the conclusion that all 50 states need to be forensically audited. Voter rolls should be scrubbed with a canvass of the voters to ensure future integrity of our elections.

If results from these measures prove an inaccurate election was held, as has been shown in Arizona, and is being shown in many other states; then it is clear that certification of many electors was improperly rendered in January 2021 of the November 2020 United States presidential election.

We call on each state to decertify its electors where it has been shown the elections were certified prematurely and inaccurately.

If it is shown that either Joe Biden would receive fewer than 270 tallied electoral votes, or Donald Trump would receive more than 270 electoral votes, then we call for the US House of Representatives to convene and vote per the US Constitution by means of one vote per state to decide the rightful winner of the election in accordance with the constitutional process of choosing electors.

This is our historic obligation to restore the election integrity of the vote as the bedrock of our constitutional republic.

If we do not have accurate and fair elections, we do not have a country.

Signed,

1. Senator Wendy Rogers, Arizona
2. Senator Sonny Borrelli, Arizona
3. Senator Kelly Townsend, Arizona
4. Representative Mark Finchem, Arizona
5. Representative Leo Biasiucci, Arizona
6. Representative Joseph Chaplik, Arizona
7. Representative Jacqueline Parker, Arizona
8. Representative Brenda Barton, Arizona
9. Representative Beverly Pingerelli, Arizona
10. Representative Kevin Payne, Arizona
11. Representative John Fillmore, Arizona
12. Representative Jake Hoffman, Arizona
13. Representative Judy Burges, Arizona
14. Representative Kevin McCabe, Alaska
15. Senator Lora Reinbold, Alaska
16. Representative Tommy Hanes, Alabama
17. Senator Alan Clark, Arkansas
18. Senator Trent Garner, Arkansas
19. Senator Gary Stubblefield, Arkansas
20. Senator Dan Sullivan, Arkansas
21. Representative Rick Beck, Arkansas
22. Representative Mary Bently, Arkansas
23. Representative Mark Lowery, Arkansas
24. Representative Clint Penzo, Arkansas
25. Representative Marcus Richmond, Arkansas
26. Representative Brandt Smith, Arkansas
27. Representative Ron Hanks, Colorado
28. Representative Richard Holtorf, Colorado
29. Representative Dave Williams, Colorado
30. Representative Stephanie Luck, Colorado
31. Representative Andres Pico, Colorado
32. Senator Rob Sampson, Connecticut
33. Representative Anthony Sabatini, Florida
34. Representative Timothy Barr, Georgia
35. Representative Charlice Byrd, Georgia
36. Representative Beth Camp, Georgia

37. Representative Sheri Gilligan, Georgia
38. Representative Philip Singleton, Georgia
39. Representative Jim Carlin, Iowa
40. Representative Sandy Salmon, Iowa
41. Representative Vito Barbieri, Idaho
42. Representative Chad Christensen, Idaho
43. Representative Terry Gestrin, Idaho
44. Representative Priscilla Giddings, Idaho
45. Representative Karey Hanks, Idaho
46. Representative Mike Kingsley, Idaho
47. Representative Ron Mendive, Idaho
48. Representative Dorothy Moon, Idaho
49. Representative Ron Nate, Idaho
50. Representative Tammy Nichols, Idaho
51. Representative Doug Okuniewicz, Idaho
52. Representative John Jacob, Indiana
53. Representative Curt Nisly, Indiana
54. Senator Alicia Straub, Kansas
55. Senator Mark Steffen, Kansas
56. Representative Tatum Lee, Kansas
57. Representative Trevor Jacobs, Kansas
58. Representative Randy Garber, Kansas
59. Representative Les Mason, Kansas
60. Representative Rhonda Butler, Louisiana
61. Representative Kathy Edmonston, Louisiana
62. Representative Dodie Horton, Louisiana
63. Representative Phillip Devillier, Louisiana
64. Delegate Dan Cox, Maryland
65. Delegate Mark Fisher, Maryland
66. Delegate Jeff Ghrist, Maryland
67. Representative Abigail Griffin, Maine
68. Representative Heidi Sampson, Maine
69. Representative Peggy Jo Stanley, Maine
70. Representative Steve Carra, Michigan
71. Representative Daire Rendon, Michigan
72. Representative Matt Maddock, Michigan
73. Senator Bruce Anderson, Minnesota
74. Representative Steve Draskowski, Minnesota
75. Representative Glenn Gruenhagen, Minnesota
76. Representative Shane Mekeland, Minnesota
77. Representative Erik Mortensen, Minnesota
78. Representative Jeremy Munson, Minnesota
79. Representative John Poston, Minnesota
80. Representative Mitch Boggs, Missouri
81. Representative Jeff Coleman, Missouri
82. Representative Derek Grier, Missouri
83. Representative Ann Kelley, Missouri
84. Representative Chris Sander, Missouri
85. Representative Cheri Toalson-Reisch, Missouri
86. Senator Michael McLendon, Mississippi
87. Representative Steve Hopkins, Mississippi
88. Representative Brady Williamson, Mississippi
89. Senator Theresa Manzella, Montana
90. Senator Cary Smith, Montana

91. Senator Carl Glimm, Montana
92. Senator Bob Brown, Montana
93. Representative Steve Gunderson, Montana
94. Representative Bob Phalen, Montana
95. Representative Paul Fielder, Montana
96. Representative Ed Hill, Montana
97. Representative Mark Noland, Montana
98. Representative Brad Tshida, Montana
99. Representative Jerry Schillinger, Montana
100. Representative Steven Galloway, Montana
101. Representative Lola Sheldon-Galloway, Montana
102. Senator Ted Alexander, North Carolina
103. Senator Bob Steinburg, North Carolina
104. Representative Jay Adams, North Carolina
105. Representative Mike Clampitt, North Carolina
106. Representative Edward Goodwin, North Carolina
107. Representative Bobby Hanig, North Carolina
108. Representative Kelly Hastings, North Carolina
109. Representative Keith Kidwell, North Carolina
110. Representative Donnie Loftis, North Carolina
111. Representative Jeff McNeely, North Carolina
112. Representative Tim Moffitt, North Carolina
113. Representative Larry Pittman, North Carolina
114. Representative Wayne Sassar, North Carolina
115. Representative Mitchell Setzer, North Carolina
116. Representative Harry Warren, North Carolina
117. Representative Sam Watford, North Carolina
118. Representative Donna McDowell White, North Carolina
119. Senator Oley Larsen, North Dakota
120. Representative Jeff Magram, North Dakota
121. Representative Robert Clements, Nebraska
122. Representative Tim Baxter, New Hampshire
123. Assemblyman Jim Wheeler, Nevada
124. Representative Jennifer Gross, Ohio
125. Senator George Burns, Oklahoma
126. Senator Jake Merrick, Oklahoma
127. Senator Warren Hamilton, Oklahoma
128. Senator Nathan Dahm, Oklahoma
129. Representative Kevin McDugle, Oklahoma
130. Representative Avery Frix, Oklahoma
131. Senator Dennis Linthicum, Oregon
132. Senator Kim Thatcher, Oregon
133. Representative Lily Morgan, Oregon
134. Representative Vikki Breece Iversson, Oregon
135. Senator Doug Mastriano, Pennsylvania
136. Representative Stephanie Borowicz, Pennsylvania
137. Representative Russ Diamond, Pennsylvania
138. Representative David Zimmerman, Pennsylvania
139. Senator Elaine Morgan, Rhode Island
140. Representative Justin Price, Rhode Island
141. Representative Robert Quattrocchi, Rhode Island
142. Senator Tom Corbin, South Carolina
143. Senator Rex Rice, South Carolina
144. Representative Stewart Jones, South Carolina

145. Representative Ryan McCabe, South Carolina
146. Representative RJ May, South Carolina
147. Representative Vic Dabney, South Carolina
148. Representative Bill Chumley, South Carolina
149. Representative Mark Willis, South Carolina
150. Representative Cal Forrest, South Carolina
151. Representative Mike Burns, South Carolina
152. Representative Steven Long, South Carolina
153. Representative Josiah Magnuson, South Carolina
154. Representative Ashley Trantham, South Carolina
155. Representative John McCravy, South Carolina
156. Representative Melissa Oremus, South Carolina
157. Representative Julie Frye-Mueller, South Dakota
158. Representative Taffy Howard, South Dakota
159. Senator Janice Bowling, Tennessee
160. Representative Bruce Griffey, Tennessee
161. Representative Todd Warner, Tennessee
162. Representative Kyle Biederman, Texas
163. Representative Jeff Cason, Texas
164. Representative Bryan Slaton, Texas
165. Representative Tony Tinderholt, Texas
166. Representative Steve Toth, Texas
167. Representative James White, Texas
168. Representative Steve Christiansen, Utah
169. Representative Phillip Lyman, Utah
170. Representative Mike Petersen, Utah
171. Representative Mike Schultz, Utah
172. Representative Rob Sutherland, Washington
173. Representative Brad Klippert, Washington
174. Representative Vicki Kraft, Washington
175. Representative Tim Ramthun, Wisconsin
176. Delegate Guy Ward, West Virginia
177. Delegate Roger Conley, West Virginia
178. Delegate Joe Jeffries, West Virginia
179. Delegate Dean Jeffries, West Virginia
180. Delegate Riley Keaton, West Virginia
181. Delegate Todd Longanacre, West Virginia
182. Delegate Phil Mallow, West Virginia
183. Delegate Pat McGeehan, West Virginia
184. Delegate Tony Paynter, West Virginia
185. Delegate Chris Phillips, West Virginia
186. Senator Bo Biteman, Wyoming
187. Representative Chuck Gray, Wyoming
188. Representative Dan Laursen, Wyoming

Understand: the nearly 200 state legislators who put their names here are patriots who want to see a just outcome after the stolen 2020 election.

We are doing our sworn duty.

But 11 states and the District of Columbia are not yet represented here. For all the recent successes this month in New Jersey and Virginia, NEITHER STATE is represented on this document yet!

**The Dems couldn't steal Virginia, though they tried. They DID steal New Jersey, a state rife with political corruption. Now is the time to fix this- to get these signatures and put the Establishment on notice!**

**Look, I'm going to be brief. We can only go forward to pressure these legislators to join us if they know there is big pressure from the people.**

Elected officials reply to pressure from the people. We need patriots from all 50 states to push for this!

A free America starts with FREE and FAIR elections. We aren't there now but we will be! [Will you help me push to punish the fraud and reform our elections to be fair?](#)

We have much work to do. I can't do it without you though! [Help me push for this!](#)

America First,

---

Wendy Rogers, Lt Col USAF (ret)  
Arizona State Senator  
Arizona's 6th Legislative District

---

P.S. George Soros and the leftwing billionaires are going to target my district again with millions of dollars in attack ads like they did last time. [Will you help me fend off the attacks by contributing before the end of this month?](#)

PAID FOR BY WENDY ROGERS FOR AZ SENATE

Wendy Rogers is a retired member of the Air Force. Use of military rank, job titles, and photographs in uniform does not imply endorsement by the Department of the Air Force or the Department of Defense.

---

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**Our mailing address is:**

Wendy Rogers for AZ Senate  
2700 S Woodlands Village Blvd Ste 300-242  
Flagstaff, AZ 86001-7128

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**From:** Jenny <russco2022@gmail.com>  
**Sent:** Tuesday, October 19, 2021 11:37 AM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** fwd: The RINO's are howling

CAUTION: External email.

[View this email in your browser](#)

Hi Patriot,

Did you get Ron's email from last week?? I'm pitching in to help save America and i hope you do too....

Jenny

---

Dear Patriot,

Since I announced our campaign for US Senate in Colorado last week, the RINOs and their liberal masters in the media have been howling like wolves in sheep's clothing.

These are the same backstabbing turncoats who have been lying to Republicans – and America – trying to destroy President Trump by misreporting the facts and belittling our conservative values.

As my campaign video below shows, I never have and never will let these traitors dismantle our Constitution, so they howl when I insist we MUST have nationwide forensic election audits to guarantee The Big Steal cannot happen again.

Click my logo to see the video:

---

I will not relent. Let me say again: Election Fraud, in 2020 and in previous elections, is THE DEFINING ISSUE of America today.

How this issue resolves is going to determine whether we live in tyrannical, vengeful communism, or as free people with personal liberties, the rule of law, and peace among men.

If the left and their sycophants win, we lose.

This country matters. Help me fight for it.

Please join this fight today, and pitch in, [HERE](#).

When we defeat the corrupt establishment and arrive in the US Senate, we'll give them something to really howl about.

□  
For freedom,

Ron Hanks (R)  
Colorado State Representative  
Republican for US Senate



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**From:** Senator Amanda Chase <campaign+chaseforva.com@ccsend.com>  
**Sent:** Sunday, September 19, 2021 3:05 PM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** IMPORTANT INFORMATION WE NEED TO SHARE WITH YOU!!!

CAUTION: External email.

## IMPORTANT REMINDERS FOR EVERYONE!

### Hello Legislators!

We wanted to give you a couple reminders:

1st and most important:

The **Arizona Audit results** will be handed off to the Arizona Senate on Friday, September 24th at 1:00pm, MST.

If you want to join other legislators there to represent the Election Integrity Caucus, please make arrangements to join us there.

If you choose to go, please rsvp to [Debbie@ChaseforVA.com](mailto:Debbie@ChaseforVA.com) to let us know.

2nd Reminder:

The next national meeting for Situation Updates and Collaboration from active leaders in the election remediation process at state level will take place on Saturday, September 25th at 2:00pm EDT. If you wish to join in on this call, you have to gain special access so let Debbie know and she will assist you in this process. This is the meeting Senator Chase discussed on our last call.

For God and Virginia,

Follow us on  
Twitter

[www.Chase4Senate.com](http://www.Chase4Senate.com)

Authorized and Paid for by Friends of Amanda Chase

Friends of Amanda Chase  
P.O. Box 5811  
Midlothian, VA 23112

[Unsubscribe robert.sutherland@leg.wa.gov](#)

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**From:** Senator Amanda Chase <campaign+chaseforva.com@ccsend.com>  
**Sent:** Monday, September 20, 2021 10:21 AM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** IMPORTANT INFORMATION WE NEED TO SHARE WITH YOU!!!

CAUTION: External email.

## IMPORTANT NOTICE!

**Hello Election Integrity Caucus Members:**

**Writing to let you know that there has been a Zoom Call scheduled for tomorrow (Tuesday), September 21st, at 7:30pm EDT.**

**We hope you can adjust your schedules to attend as we know we are not giving you much notice.**

**The Zoom information follows:**

~~~~~  
Amanda Chase is inviting you to a scheduled Zoom meeting.

Topic: Election Integrity Caucus

Join Zoom Meeting  
<https://us06web.zoom.us/j/4532787539?pwd=U0NSTGIhVDJyUEZKMWVlb3JRN1c5QT09>

Meeting ID: 453 278 7539

Passcode: 956286

One tap mobile  
+13126266799,,4532787539#,,,,\*956286# US (Chicago)  
+16465588656,,4532787539#,,,,\*956286# US (New York)

Dial by your location  
+1 312 626 6799 US (Chicago)  
+1 646 558 8656 US (New York)  
+1 301 715 8592 US (Washington DC)  
+1 346 248 7799 US (Houston)  
+1 720 707 2699 US (Denver)  
+1 253 215 8782 US (Tacoma)

Meeting ID: 453 278 7539  
Passcode: 956286  
Find your local number: <https://us06web.zoom.us/j/4532787539>

For God and Virginia,

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**From:** Joseph Figueroa <joseph.figueroa@hotmail.com>

**Sent:** Friday, September 24, 2021 1:06 AM EDT

**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; team@wendyrogers.org <team@wendyrogers.org>

**CC:** Amber Krabach <amber@ak4wa.org>

**Subject:** introductions

**CAUTION:**External email.

Representative Sutherland,

Thank you for your support of [forensic audits](#) in WA state. I want to introduce you to Senator Wendy Rogers from Arizona who is working to audit all 50 states.

Hoping for a fruitful collaboration,

Joseph Figueroa

Member of the Election Integrity Committee that Amber Krabach (cc) leads

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**From:** Ron Hanks <ronhanksforhd60@gmail.com>

**Sent:** Thursday, August 19, 2021 6:32 PM EDT

**To:** Mark.Alliegro@leg.state.nh.us <Mark.Alliegro@leg.state.nh.us>; Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>; Rep.Ramthun@legis.wisconsin.gov <Rep.Ramthun@legis.wisconsin.gov>; WROGERS@azleg.gov <WROGERS@azleg.gov>; Ron.Hanks.house@state.co.us <Ron.Hanks.house@state.co.us>

**Subject:** Legislator Caucus

**Attachment(s):** "image001.png"

**CAUTION:** External email.

---

Good Afternoon, Mark, Robert, Vicki, Tim, Wendy,

I didn't attend the legislator meeting on the 3<sup>rd</sup> day of the Symposium. I was determined to get a Wrap-Up Briefing from Lindell's team, and I didn't want to leave the floor.

I'm sending this email to ask to be included on the email/zoom roster, in case I dropped off.

It was a pleasure meeting you all. I hope to see you again soon.

Respectfully,



Ron Hanks, Representative  
Colorado House District 60  
Ron.Hanks.House@state.co.us  
Cell: 719 352 5264

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**From:** Debbie Gwynn <debbie@chaseforva.com>  
**Sent:** Thursday, August 12, 2021 12:08 PM EDT  
**To:** Anne\_Copp2010@yahoo.com <Anne\_Copp2010@yahoo.com>; annie@electannieblack.com <annie@electannieblack.com>; bkintner@leg.ne.gov <bkintner@leg.ne.gov>; Klippert, Rep. Brad <Brad.Klippert@leg.wa.gov>; jb@buongiorno2022.com <jb@buongiorno2022.com>; jhill9693@gmail.com <jhill9693@gmail.com>; julie.fryemueller@sdlegislature.gov <julie.fryemueller@sdlegislature.gov>; kevin.jensen@sdlegislature.gov <kevin.jensen@sdlegislature.gov>; markfinchem@me.com <markfinchem@me.com>; paulfielder@blackfoot.net <paulfielder@blackfoot.net>; plyman@le.utah.gov <plyman@le.utah.gov>; rep.ramthun@legis.wisconsin.gov <rep.ramthun@legis.wisconsin.gov>; Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; sonnyborrelli@hotmail.com <sonnyborrelli@hotmail.com>; steven.galloway@mtleg.gov <steven.galloway@mtleg.gov>; theresa.manzella@mtleg.gov <theresa.manzella@mtleg.gov>; tina.mulally@sdlegislature.gov <tina.mulally@sdlegislature.gov>; troyforusa@protonmail.com <troyforusa@protonmail.com>; Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>; wrogers@azleg.gov <wrogers@azleg.gov>  
**CC:** <gratton@chaseforva.com> <gratton@chaseforva.com>; Debbie Gwynn <debbie@chaseforva.com>; Shayne Snively <shayne@chaseforva.com>; amanda chase <amanda@chaseforva.com>  
**Subject:** Meeting at 1:00pm Today

**CAUTION:** External email.

Hello All,

Super excited to reunite with trailblazers Arizona Senator Wendy Rogers, Sonny Borelli and meet Representative Mark Finchem. We've met several times over the past couple of days and have a plan moving forward regarding protecting voter confidence in future elections.

Today we will meet again with other legislators from around the country at 1:00pm to discuss our findings over the past 3 days. This meeting will take place upstairs in the back room where we met yesterday.

Interested legislators and press can join us today in the upstairs press room for a press conference at 3pm.

Best,

Senator Amanda Chase  
District 11 - Virginia  
804-370-8727  
[Amanda@ChaseForVA.com](mailto:Amanda@ChaseForVA.com)

-----  
Debbie Gwynn/Executive Assistant  
804-332-0353 / [debbie@chaseforva.com](mailto:debbie@chaseforva.com)

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**From:** Senator Amanda Chase <campaign+chaseforva.com@ccsend.com>

**Sent:** Tuesday, September 21, 2021 12:01 PM EDT

**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>

**Subject:** Meeting Minutes from 9-14-21 & Legislation Language

CAUTION: External email.

## IMPORTANT INFORMATION!

### Election Integrity Caucus Members:

Representative Larry Kowallis was kind enough to take notes from our last meeting and I wanted to share them with you; many thanks to him for taking the time to put them together and share them!

### NATIONAL ELECTION INTEGRITY CAUCUS

**SEPTEMBER 14, 2021 7:30 PM EST**

**Conducting: Amanda Chase, Virginia State Senator  
22 people were present**

1. It was suggested before the meeting began that we change the meeting application to something other than Zoom for security reasons. This was agreed upon and Amanda will follow through on this.
2. It was decided that these caucus meetings will not be recorded by anyone for security purposes.
3. Mark Finchem reported the following:
  4. How to start to have your state authorize an election forensic audit. He recognized that he had hundreds of constituents calling him with complaints about the election. When this happens on any subject, elected officials need to hold a public hearing so their complaints can be aired. Leadership will often refuse to hold such a meeting. As a legislator, you have the power to hold a meeting to listen to YOUR constituents, you do not need leadership approval because you are not having a select committee investigation. He could not hold his meeting in the capitol so he rented another venue. He then found a team to set up the hearing.
  5. You must detail and frame your objective properly. The objective is not to overturn any election, it is to prove or disprove allegation and questions brought by your constituents. This way if allegations are proved accurate, and there was fraud, you win. If the allegations are proved false, and the election was clean, you win.
  6. The media wants fast results of your investigation, they don't care about the facts or accuracy. We want accuracy and the investigation will be complete when it is accurately finished.
  7. When there is election fraud, the people are the victims. Legislators who address these wrongs become heroes because they listen to their constituents, no matter which way the investigation goes. Of course the media will do their best to paint us as villains.
  8. If you are not the hero type, willing to take the shots, that is ok, just get behind and support those who are willing to take the hits.
  9. Don't be afraid to ask questions of your leadership and to hold hearings.
10. Pima county in Arizona is getting ready to canvas voters. 97.5% of the ballots sent out were returned. 62% is normal. Huge discrepancy.
11. A trick the opposition uses it to place fictitious voters ie those who have moved or died, on the voter roles in strong Republican precincts. The number of ballots returned are then way to high. As voting percentage hits 80%, Republican votes are way high and Democrat returns stay flat and Trump votes went way down. Republicans get all excited because the registered Republican voters has gone way up but it is a mirage.
12. It is the voter registration that is the big problem, not so much the voting machines. Fictitious ballots are being printed and we need to look at the actual ballots.
13. 10. Each state needs to identify the counties that look suspicious and target them. They need to look at other legislators to join the Election Integrity Caucus and put together a package to show them to get them on board.
14. 11. Arizona, with Mark Finchem, chose legislators from varied areas ie rural and urban, senators and representatives, large cities and small towns to be on their hearing panel. You want as wide a representation as you can get. As you begin searching for them, the Dems will be calling them ahead of you to warn them off. Expect it.
15. 12. At the hearings, let the public say what they came to say. DON'T grandstand and make speeches, that is not what these hearings are about. People want to know that you care about them and their concerns. Ask clarifying questions and no more.
16. 13. Limit speakers to 5 minutes. If the panel has questions, extend their time. Let people know you are listening by asking questions and restating what they said to make sure you understand. Some read from prepared documents that were

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- notarized and turned in.
17. 14. Have a video record saved and stored somewhere online for the public to view. This is your advertising. (Rights Broadcasting is a source for this. Contact Mark Finchem)
  18. 15. A Select Committee is called only by the Senate or Reps. If they do call one, make sure to give them a date to meet. If they won't, or drag it out, hold your own and invite them. People need hope, a meeting to be heard gives that to them. Be prepared to hire your own facility, try to get the legislature to pay for it, but be prepared if they don't. If they don't, go on the air and social media to ask for donations. Mark got the \$25,000 he needed in a couple of weeks, you can do it.
  19. **16. Have any legislators proposed a bill to prevent the use of voting machines to count ballots? If so, please contact Amanda Chase. We need to prohibit all machines for the primary tabulation.**
  20. **17. If you have received a letter from Wendy Rogers to add your signature to, please return it to her immediately. She needs 100 signatures. This is for legislators only. If you have not received this letter, please contact her asap so she can send it to her. This is how we support each other.**
  21. **18. If you have an event and wish to have it publicized nationally, call Wendy Rogers, she has the contacts.**
  22. **19. Every other week, there is a call from data scientists at 3 PM (Saturdays). If you wish to be on the list, contact Debbie Gwynn. It lasts 2 hrs, next one on Sept 25th.**
  23. 20. Robert Sutherland, Rep from Washington, met with Arizona to see what they were doing as he looked to build up the Republican Caucus in Washington. He did not ask the party leadership (who are often reluctant in strong Dem states) if he could hold a hearing. He simply announced to them that he was going to hold a public hearing. Next thing you know, they decided to hold an election integrity hearing. He also held his. They quoted a poll that said few Republicans were interested in a public hearing on election integrity. He paid for a poll by Rasmussen and it showed 71% of Republicans were all for the hearings. So don't believe the opposition's polls, order your own. Ask the media and social media, to help find a venue. Sometimes will be FREE.

--  
Larry Kowallis

I also wanted to share something from Representative Mark Alliegro. He provided the language he used for the legislation he submitted on the ballots and says you are welcome to use this same language should you desire:

Debbie, as per the conversation at last night's Zoom meeting, here is the language used in the bill I just submitted to the NH House:

**Notwithstanding any existing statutes, regulations, or practices, all elections in New Hampshire shall be conducted using hand-marked, durable paper ballots, and said ballots shall be hand-counted and tallied without use of computers, scanners, or other electronic devices other than simple adding machines.**

It is expressed in one sentence for a reason, and not that it took a genius to draft, but anyone in the group is welcome to use it in their own state.

Mark

For God and Virginia,

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Authorized and Paid for by Friends of Amanda Chase

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Friends of Amanda Chase  
P.O. Box 5811  
Midlothian, VA 23112

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**From:** Debbie Gwynn <[debbie@chaseforva.com](mailto:debbie@chaseforva.com)>  
**Sent:** Thursday, October 21, 2021 6:14 PM EDT  
**To:** Debbie A Gwynn <[debbie@chaseforva.com](mailto:debbie@chaseforva.com)>  
**Subject:** NEIC Letter

**CAUTION:** External email.

Hello Everyone,

Just sending a friendly reminder to you to please review the NEIC letter so you can determine whether or not you wish to sign on to it before it goes out. I've only heard from 9 of you at this time so if you could get that done I'd appreciate it. I'm incorporating the letter for you one more time so you have it at your finger tips (below). You can either email me back or feel free to text me at 804-393-2715. **THIS IS A NEW PHONE NUMBER!**

Also, just for your convenience, two other reminders: 1) Tatum Lee asked that anyone interested in joining in with her on other teams have her contact info and it is: [TatumForKansas@gmail.com](mailto:TatumForKansas@gmail.com) and number is 405-834-5710. She also posted info on the WallBuilders Conference and those dates are 11/11 through 11/14/21 in Texas. Steve Gunderson identified the NCSL (National Conference for State Legislators) that is taking place 11/3 through 11/5/21. If you would like additional information or would like to gather while there, contact him at [digicus599@gmail.com](mailto:digicus599@gmail.com) or 406-334-4370.

To those of you just being added to this distribution list, but have not yet participated in any of the Zoom Calls on Election Integrity, this is your formal invitation to join in. If you would like to opt out of our distribution, please let me know.

Debbie Gwynn  
Executive Assistant to  
Senator Amanda Chase  
804-393-2715 **NEW NUMBER**

A huge thanks to AZ Senator Wendy Rogers for drafting a letter for legislators to sign in support of decertification of the Arizona electors.

The National Election Integrity Caucus, a growing number of legislators from across the country, support this effort as well as calling for a full forensic audit in all 50 states.

Please see our press statement below.

Election Integrity Caucus Press Release

Chair: Senator Amanda Chase

Debbie Gwynn, Executive Assistant  
[debbie@chaseforva.com](mailto:debbie@chaseforva.com)  
804 393 2715

October 21, 2021

To the citizens of the United States of America,

We the undersigned state legislators of the United States are vested with the plenary power by our US Constitution (Article 2 Section 1 Clause 2) to oversee the election of the president of the United States, hereby declare that substantial evidence has been produced to question each state's November 2020 election results.

"Each State shall appoint, in such manner as the Legislature thereof may direct, a Number of Electors, equal to the whole Number of Senators and Representatives to which the State may be entitled in the Congress: but no Senator or Representative, or Person holding an Office of Trust or Profit under the United States, shall be appointed an Elector."

On completion of an independently-administered forensic election audit of 2.1 million ballots in Maricopa County, Arizona, it was concluded that the results of the 2020 election in Arizona should not have been certified. The evidence produced a number of questionable and unexplainable actions taken by the Maricopa County Board of Supervisors, which pointed directly to mismanagement and malfeasance, to include obstruction of an audit sanctioned by the Arizona Senate, deletion of data immediately prior to the audit, corrupted images, and refusal to turn over subpoenaed routers and tokens. The findings also produced thousands of duplicated voters, deceased voters, etc.

In addition, through an in-depth canvass of votes in Arizona, as well as through multiple different data reviews of voting by independent experts, it was concluded that the election errors are sufficient to justify decertification of that election and makes clear that certification of Arizona electors was improperly rendered in January 2021 of the November 2020 US presidential election, and we call for a complete nullification of Arizona's electors. Arizona is not the only state that has experienced an unusually high number of irregularities. Sworn affidavits have accumulated from many states detailing rampant corruption and mismanagement in the election process.

Multiple audits that are either underway or about to start, canvasses underway or about to start, and lawsuits challenging the validity of several counties in our states, have already shown maladministration and significant inaccuracies. We must restore voter confidence in our election system that was compromised when guardrails were taken off of our election systems in the name of "covid-related safety precautions". These safeguards must be restored. We have come to the conclusion that all 50 states need to be forensically audited as similar patterns are being discovered across the country. Voter rolls should be scrubbed with a canvass of the voters to ensure future integrity of our elections.

We cannot continue as if nothing happened. It is incumbent upon each state to ensure every legal vote is counted so that voters can trust that those elected were truly elected by the people. We must restore voter confidence as election integrity is the foundation of our republic and the peaceful transfer of power.

We the undersigned are legislators committed to seeking full forensic audits in our respective states, introducing legislation that ensures fair and transparent elections, and working closely with organizations within our respective states to restore election integrity. Please have your legislator reach out to my office if they are interested in signing this letter in support of nullification of the AZ electors and/or if they are interested in joining the Election Integrity Caucus to the email provided above.

Signed,

Senator Amanda Chase, Virginia

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**From:** Debbie Gwynn <debbie.gwynn@gmail.com>  
**Sent:** Tuesday, October 12, 2021 5:35 PM EDT  
**Subject:** NEIC Letter

**CAUTION:**External email.

Hi All,

Amanda asked that I resend this letter to all of you in hopes that we can finalize things this evening. We wanted you to have another opportunity to review it prior to signing off on it. For our newcomers, this will be the first time you will have had an opportunity to see it.

If you have a change you'd like to suggest, please mention it on the call tonight.

Thanks much!

Debbie Gwynn  
Executive Assistant to  
Senator Amanda Chase  
804-332-0353

Hello Everyone,

Following is the information we told you we would share on our last call.

This is the letter that has been drafted to be sent out by the NEIC. It does have similarities to the letter that Wendy Rogers had circulated, along with edits that were recommendations from caucus members. Please feel free to review and provide feedback on whether you can agree to sign off on the letter. We'd like for everyone to have a say so, and be in agreement on this before it goes out.

## Election Integrity Caucus

Chair: Senator Amanda Chase

Debbie Gwynn, Executive Assistant

[debbie@chaseforva.com](mailto:debbie@chaseforva.com)

804 393 2715

September 30, 2021

To the citizens of the United States of America,

We the undersigned state legislators of the United States are vested with the plenary power by our US Constitution (Article 2 Section 1 Clause 2) to oversee the election of the president of the United States.

"Each State shall appoint, in such Manner as the Legislature thereof may direct, a Number of Electors, equal to the whole Number of Senators and Representatives to which the State may be entitled in the Congress: but no Senator or Representative, or Person holding an Office of Trust or Profit under the United States,

shall be appointed an Elector.”

It has come to our attention from an independently administered forensic election audit of 2.1 million ballots in Maricopa County, Arizona that the results of the 2020 election in Arizona should not have been certified due to a number of questionable and unexplainable actions taken by the Maricopa County Board of Supervisors to include: obstruction of an audit sanctioned by the Arizona Senate, deletion of data immediately prior to the audit, corrupted images and refusal to turn over subpoenaed routers and tokens.

In addition, an in-depth canvass of votes in Arizona, as well as through multiple different data reviews of voting by independent experts conclude that there is enough reasonable maladministration to call into question the results of the Arizona 2020 election results and subsequently its electors.

It is clear that certification of Arizona electors were improperly rendered in January 2021 of the November 2020 United States presidential election and we call for a complete nullification of Arizona’s electors.

Arizona is not the only state that has experienced an unusually high number of irregularities. Sworn affidavits have accumulated from many states detailing rampant corruption and mismanagement in the election process. Multiple audits are either underway or about to start, canvasses underway or about to start, and lawsuits challenging the validity of several counties in our states, have already shown maladministration and significant inaccuracies.

We have come to the conclusion that all 50 states need to be forensically audited as similar patterns are being discovered across the country. We must restore voter confidence in our election system that was compromised when guardrails were taken off of our election systems in the name of “covid related safety precautions”. These safeguards must be restored. Voter rolls should be scrubbed with a canvass of the voters to ensure future integrity of our elections.

We cannot continue as if nothing happened. It is incumbent upon each state to ensure every legal vote is counted so that voters can trust that those elected were truly elected by the people. We must restore voter confidence as election integrity is the foundation of our republic and the peaceful transfer of power.

We the undersigned are legislators committed to seeking full forensic audits in our respective states, introducing risk limiting legislation to ensure fair and transparent elections, and working closely with organizations within our respective states to restore election integrity.

Signed,

Senator Amanda Chase, Virginia

|

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**From:** Senator Amanda Chase <debbie+chaseforva.com@ccsend.com>  
**Sent:** Sunday, November 28, 2021 6:24 PM EST  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** NEIC Update and Calendar Entry for Tuesday, November 30, 2021

CAUTION: External email.

**YOUR ATTENDANCE IS REQUESTED ON OUR  
NEXT ZOOM CALL ON  
NATIONAL ELECTION INTEGRITY ISSUES**

**Tuesday, November 30, 2021 at 7:30pm EDT**

## **Hello Fellow Legislators!**

Listed below is the information you will need to participate in our next group Zoom call on Tuesday, November 30th at 7:30pm EST.

You are also welcome to send the invite to others as long as they are elected legislators. Please do not sent surrogates UNLESS they are elected officials.

- If you have any topics for discussion please let Debbie know so they can be added to the itinerary

Additionally, Senator Mark Finchem has provided us with copy on his legislation on Ballot Fraud Countermeasures; paper; ink. He has invited us to share it with all of you in case you are interested in using it in your own state. We are unable to copy/paste the file into this app but here is the doc in its entirety:

REFERENCE TITLE: ballot fraud countermeasures; paper; ink  
State of Arizona  
House of Representatives  
Fifty-fifth Legislature  
Second Regular Session  
2022

**H. B. \_\_\_\_\_**

Introduced by \_\_\_\_\_

AN ACT

REPEALING SECTION 16-504, ARIZONA REVISED STATUTES; AMENDING TITLE 16, CHAPTER 4, ARTICLE 6, ARIZONA REVISED STATUTES, BY ADDING A NEW SECTION 16-504; RELATING TO THE CONDUCT OF ELECTIONS.

(TEXT OF BILL BEGINS ON NEXT PAGE)

-i-

Be it enacted by the Legislature of the State of Arizona:

Section 1. Repeal

Section 16-504, Arizona Revised Statutes, is repealed.

Sec. 2. Title 16, chapter 4, article 6, Arizona Revised Statutes, is amended by adding a new section 16-504, to read:

16-504. Antifraud ballot paper; vendor certification; fraud countermeasures; applicability

A. NOTWITHSTANDING ANY OTHER STATUTE, ANY VENDOR THAT PROVIDES FRAUD COUNTERMEASURES THAT ARE CONTAINED IN AND ON THE PAPER USED FOR BALLOTS SHALL BE ISO 27001 CERTIFIED, ISO 17025 CERTIFIED, ISO 45001 CERTIFIED, ISO 14001 CERTIFIED, ISO 14298 CERTIFIED OR ISO 9001:2015 CERTIFIED. BALLOT FRAUD COUNTERMEASURES SHALL INCLUDE THE USE OF ALL OF THE FOLLOWING:

1. UNIQUE, CONTROLLED-SUPPLY WATERMARKED CLEARING BANK SPECIFICATION 1 SECURITY PAPER.

2. SECURE HOLOGRAPHIC FOIL THAT IS A MINIMUM OF TEN SQUARE MILLIMETERS AND A MAXIMUM OF TWENTY SQUARE MILLIMETERS WITH A PROPRIETARY ORIGINAL IMAGE IN VISIBLE AND MULTIPLE-COLOR INVISIBLE ULTRAVIOLET INKS. THE VISIBLE OVERPRINT MUST BE TRANSLUCENT SO THAT THE HOLOGRAM IMAGE STRIKES THROUGH THE PRINTED IMAGE WHEN VIEWED AT DIFFERENT ANGLES

WA-REP-21-1728-B-000361

AND MUST BE CURED IN SUCH A WAY THAT ANY TAMPERING OF THE IMAGE CAUSES VISIBLE DAMAGE TO THE HOLOGRAM. THE HOLOGRAPHIC FOIL DESIGN AND ORIGINATION ARTWORK MUST BE EXCLUSIVELY OWNED AND CONTROLLED BY THE SECURITY PRINTER.

3. BRANDED OVERPRINT OF ANY HOLOGRAM THAT PERSONALIZES THE HOLOGRAM WITH CUSTOMER LOGO.
  4. CUSTOM COMPLEX SECURITY BACKGROUND DESIGNS WITH BANKNOTE-LEVEL SECURITY.
  5. SECURE VARIABLE DIGITAL INFILL.
  6. THERMOCHROMIC, TRI-THERMOCHROMIC, PHOTOCHROMIC OR OPTICALLY VARIABLE INKS.
  7. STEALTH NUMBERING IN ULTRAVIOLET, INFRARED OR TAGGANT INKS.
  8. TWO-COLOR RAINBOW PRINT INVISIBLE ULTRAVIOLET NUMISMATIC DESIGNS WITH FINE LINE SECURITY RELIEF DESIGN THAT FOLLOWS THE PRIMARY IMAGE'S DESIGN EXACTLY AND WITH A MINIMUM LINE WEIGHT OF 0.0424 MILLIMETERS.
  9. UNIQUE FORENSIC FRAUD DETECTION TECHNOLOGY THAT IS BUILT INTO SECURITY INKS.
  10. INVISIBLE ULTRAVIOLET MICROTTEXT WITH AN ULTRAVIOLET IMAGE MINIMUM HEIGHT OF 0.3 MILLIMETERS AND MAXIMUM HEIGHT OF 0.5 MILLIMETERS.
  11. RASTER IMAGING PRINTED ON SEVENTY-FIVE PERCENT OF THE DOCUMENT FACE IN A MINIMUM TWO-COLOR INVISIBLE ULTRAVIOLET INK WITH A MINIMUM LINE WEIGHT OF 0.0242 MILLIMETERS AND A MAXIMUM LINE WEIGHT OF 0.084 MILLIMETERS.
  12. THREE-COLOR INVISIBLE ULTRAVIOLET GUILLOCHE WITH AN ANTI-COPY FEATURE THAT IS A CUSTOM GEOMETRIC DESIGN SPECIFIC TO THE DOCUMENT AND
- 1-

- 1 WITH A HIGH LEVEL OF SECURE FINE LINE DETAIL CONSISTING OF MULTIPLE LINE
  1. 2 WEIGHT WITH A MINIMUM LINE WEIGHT OF 0.242 MILLIMETERS.
  - 3 13. VISIBLE COLORED OVERT INK WITH EMBEDDED COVERT, NEAR INFRARED
  - 4 MACHINE-READABLE TAGGANT THAT IS CAPABLE OF DETECTION THROUGH PROPRIETARY
  - 5 INFRARED WAVELENGTH LIGHT SOURCE EXCITATION AND RELATED INFRARED
  - 6 WAVELENGTH EMISSION CHARACTERISTICS THAT CONFIRM AUTHENTICITY THROUGH A
  - 7 COMPLEX TEMPORAL MEASUREMENT WHEN READ BY A HAND-HELD, RECHARGEABLE
  1. 8 BATTERY OPERATED PROPRIETARY DETECTOR.
  - 9 14. MOLECULAR LEVEL, FORENSIC-COVERT SECURITY FEATURE INCLUDED IN
  - 10 THE INFRARED TAGGED INK PRESCRIBED IN PARAGRAPH 13 OF THIS SUBSECTION.
  - 11 THIS PROPRIETARY MOLECULAR MARKER MUST BE AUTHENTICATED BY LABORATORY
  - 12 ANALYSIS USING GAS CHROMATOGRAPHY MASS SPECTROMETRY AND THE CONCENTRATION
  1. 13 IN THE RELATED INK CANNOT BE MORE THAN ONE PART PER MILLION.
  - 14 15. MICROPRINTING, A SECURITY RELIEF DESIGN TECHNIQUE THAT REQUIRES
  - 15 BANKNOTE GRAPHICS SOFTWARE. THE DESIGN MUST PROTECT INFILL AREAS FROM
  1. 16 FRAUDULENT ALTERATIONS.
  - 17 16. MULTICOLOR INVISIBLE PRIMARY FLUORESCENT ELEMENTS THAT ARE
  - 18 PRINTED IN REGISTER TO CREATE A RAINBOW EFFECT BACKGROUND. THE IMAGE MUST
  - 19 INCORPORATE MULTIPLE SECURITY GRAPHIC TECHNIQUES AND MUST BE GENERATED
  - 20 USING ANTICOUNTERFEIT DESIGN SOFTWARE THAT IS COMMERCIALY AVAILABLE ONLY
  1. 21 FOR APPROVED AND ACCREDITED PRINTERS.
  - 22 17. SERIALIZED BLACK QR CODE IN WHICH THE SAME CODE IS PRINTED ON
  - 23 THE TOP LEFT CORNER AND BOTTOM RIGHT CORNER AND THAT CAN BE READ BY NATIVE
  - 24 QR FUNCTIONS OF IOS AND ANDROID SMARTPHONES THAT REDIRECT THE VOTER TO A
  - 25 WEB-BASED VOTER INFORMATION PAGE AND THAT TRACKS THE VOTER'S BALLOT AS IT
  1. 26 IS PROCESSED.
  - 27 18. PAPER THAT IS EIGHT AND ONE-HALF INCHES WIDE BY TWENTY-TWO
  1. 28 INCHES LONG AND THAT WEIGHS EIGHTY GRAMS PER SQUARE METER.
  - 29 19. A PAPER RECEIPT FOR THE VOTER THAT IS A PERFORATED PORTION OF
  - 30 THE BALLOT, THAT IS SUITABLE FOR THE VOTER TO REMOVE FROM THE BALLOT AFTER
  - 31 COMPLETING THE BALLOT AND THAT CONTAINS THE LOT NUMBER AND SEQUENCE NUMBER
  1. 32 OF THE SHEET OF PAPER ON WHICH THE BALLOT IS PRINTED.
  - 33 B. THE LEGISLATURE SHALL APPROPRIATE SUFFICIENT MONIES TO THE
  - 34 OFFICE OF THE SECRETARY OF STATE TO REIMBURSE COUNTIES FOR THE COST OF THE
  - 35 FRAUD COUNTERMEASURES PRESCRIBED BY THIS SECTION, INCLUDING THE COST OF
  - 36 PAPER.
  - 37 C. PAPER THAT MEETS THE REQUIREMENTS OF SUBSECTION A OF THIS
  - 38 SECTION SHALL BE USED IN ALL ELECTIONS FOR STATE OFFICES AND FEDERAL
  - 39 OFFICES.
  - 40 D. THIS SECTION APPLIES TO THE REGULAR GENERAL ELECTION IN 2022 AND
  1. 41 ALL ELECTIONS HELD IN 2024 AND LATER.
- 2-

## See you on 11/30 at 7:30pm EST

Zoom Mtg - Senator Amanda Chase-  
ELECTION INTEGRITY - LEGISLATORS

Topic: Amanda Chase's Zoom Meeting  
Time: Nov 30, 2021 07:30 PM Eastern Time (US and Canada)

Join Zoom Meeting  
<https://us06web.zoom.us/j/82151425229?pwd=c1ZmbDVDOHJURFEzaGZnMDRqQk9ldz09>

Meeting ID: 821 5142 5229  
Passcode: U5ngj7

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Friends of Amanda Chase  
P.O. Box 5811  
Midlothian, VA 23112

[Unsubscribe robert.sutherland@leg.wa.gov](mailto:robert.sutherland@leg.wa.gov)

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**From:** Senator Amanda Chase <debbie+chaseforva.com@ccsend.com>  
**Sent:** Wednesday, November 24, 2021 4:17 PM EST  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** NEIC Update and Calendar Entry for Tuesday, November 30, 2021

CAUTION: External email.

**YOUR ATTENDANCE IS REQUESTED ON OUR  
NEXT ZOOM CALL ON  
NATIONAL ELECTION INTEGRITY ISSUES**

**Tuesday, November 30, 2021 at 7:30pm EDT**

## **Hello Fellow Legislators!**

Listed below is the information you will need to participate in our next group Zoom call on Tuesday, November 30th at 7:30pm EST.

You are also welcome to send the invite to others as long as they are elected legislators. Please do not sent surrogates UNLESS they are elected officials.

- If you have any topics for discussion please let Debbie know so they can be added to the itinerary

Additionally, Senator Mark Finchem has provided us with copy on his legislation on Ballot Fraud Countermeasures; paper; ink. He has invited us to share it with all of you in case you are interested in using it in your own state. We are unable to copy/paste the file into this app but here is the doc in its entirety:

REFERENCE TITLE: ballot fraud countermeasures; paper; ink  
State of Arizona  
House of Representatives  
Fifty-fifth Legislature  
Second Regular Session  
2022

**H. B. \_\_\_\_\_**

Introduced by \_\_\_\_\_

AN ACT

REPEALING SECTION 16-504, ARIZONA REVISED STATUTES; AMENDING TITLE 16, CHAPTER 4, ARTICLE 6, ARIZONA REVISED STATUTES, BY ADDING A NEW SECTION 16-504; RELATING TO THE CONDUCT OF ELECTIONS.

(TEXT OF BILL BEGINS ON NEXT PAGE)

-i-

Be it enacted by the Legislature of the State of Arizona:

Section 1. Repeal

Section 16-504, Arizona Revised Statutes, is repealed.

Sec. 2. Title 16, chapter 4, article 6, Arizona Revised Statutes, is amended by adding a new section 16-504, to read:

16-504. Antifraud ballot paper; vendor certification; fraud countermeasures; applicability

A. NOTWITHSTANDING ANY OTHER STATUTE, ANY VENDOR THAT PROVIDES FRAUD COUNTERMEASURES THAT ARE CONTAINED IN AND ON THE PAPER USED FOR BALLOTS SHALL BE ISO 27001 CERTIFIED, ISO 17025 CERTIFIED, ISO 45001 CERTIFIED, ISO 14001 CERTIFIED, ISO 14298 CERTIFIED OR ISO 9001:2015 CERTIFIED. BALLOT FRAUD COUNTERMEASURES SHALL INCLUDE THE USE OF ALL OF THE FOLLOWING:

1. UNIQUE, CONTROLLED-SUPPLY WATERMARKED CLEARING BANK SPECIFICATION 1 SECURITY PAPER.

2. SECURE HOLOGRAPHIC FOIL THAT IS A MINIMUM OF TEN SQUARE MILLIMETERS AND A MAXIMUM OF TWENTY SQUARE MILLIMETERS WITH A PROPRIETARY ORIGINAL IMAGE IN VISIBLE AND MULTIPLE-COLOR INVISIBLE ULTRAVIOLET INKS. THE VISIBLE OVERPRINT MUST BE TRANSLUCENT SO THAT THE HOLOGRAM IMAGE STRIKES THROUGH THE PRINTED IMAGE WHEN VIEWED AT DIFFERENT ANGLES

WA-REP-21-1728-B-000364

AND MUST BE CURED IN SUCH A WAY THAT ANY TAMPERING OF THE IMAGE CAUSES VISIBLE DAMAGE TO THE HOLOGRAM. THE HOLOGRAPHIC FOIL DESIGN AND ORIGINATION ARTWORK MUST BE EXCLUSIVELY OWNED AND CONTROLLED BY THE SECURITY PRINTER.

3. BRANDED OVERPRINT OF ANY HOLOGRAM THAT PERSONALIZES THE HOLOGRAM WITH CUSTOMER LOGO.
  4. CUSTOM COMPLEX SECURITY BACKGROUND DESIGNS WITH BANKNOTE-LEVEL SECURITY.
  5. SECURE VARIABLE DIGITAL INFILL.
  6. THERMOCHROMIC, TRI-THERMOCHROMIC, PHOTOCHROMIC OR OPTICALLY VARIABLE INKS.
  7. STEALTH NUMBERING IN ULTRAVIOLET, INFRARED OR TAGGANT INKS.
  8. TWO-COLOR RAINBOW PRINT INVISIBLE ULTRAVIOLET NUMISMATIC DESIGNS WITH FINE LINE SECURITY RELIEF DESIGN THAT FOLLOWS THE PRIMARY IMAGE'S DESIGN EXACTLY AND WITH A MINIMUM LINE WEIGHT OF 0.0424 MILLIMETERS.
  9. UNIQUE FORENSIC FRAUD DETECTION TECHNOLOGY THAT IS BUILT INTO SECURITY INKS.
  10. INVISIBLE ULTRAVIOLET MICROTTEXT WITH AN ULTRAVIOLET IMAGE MINIMUM HEIGHT OF 0.3 MILLIMETERS AND MAXIMUM HEIGHT OF 0.5 MILLIMETERS.
  11. RASTER IMAGING PRINTED ON SEVENTY-FIVE PERCENT OF THE DOCUMENT FACE IN A MINIMUM TWO-COLOR INVISIBLE ULTRAVIOLET INK WITH A MINIMUM LINE WEIGHT OF 0.0242 MILLIMETERS AND A MAXIMUM LINE WEIGHT OF 0.084 MILLIMETERS.
  12. THREE-COLOR INVISIBLE ULTRAVIOLET GUILLOCHE WITH AN ANTI-COPY FEATURE THAT IS A CUSTOM GEOMETRIC DESIGN SPECIFIC TO THE DOCUMENT AND
- 1-

- 1 WITH A HIGH LEVEL OF SECURE FINE LINE DETAIL CONSISTING OF MULTIPLE LINE
  1. 2 WEIGHT WITH A MINIMUM LINE WEIGHT OF 0.242 MILLIMETERS.
  - 3 13. VISIBLE COLORED OVERT INK WITH EMBEDDED COVERT, NEAR INFRARED
  - 4 MACHINE-READABLE TAGGANT THAT IS CAPABLE OF DETECTION THROUGH PROPRIETARY
  - 5 INFRARED WAVELENGTH LIGHT SOURCE EXCITATION AND RELATED INFRARED
  - 6 WAVELENGTH EMISSION CHARACTERISTICS THAT CONFIRM AUTHENTICITY THROUGH A
  - 7 COMPLEX TEMPORAL MEASUREMENT WHEN READ BY A HAND-HELD, RECHARGEABLE
  1. 8 BATTERY OPERATED PROPRIETARY DETECTOR.
  - 9 14. MOLECULAR LEVEL, FORENSIC-COVERT SECURITY FEATURE INCLUDED IN
  - 10 THE INFRARED TAGGED INK PRESCRIBED IN PARAGRAPH 13 OF THIS SUBSECTION.
  - 11 THIS PROPRIETARY MOLECULAR MARKER MUST BE AUTHENTICATED BY LABORATORY
  - 12 ANALYSIS USING GAS CHROMATOGRAPHY MASS SPECTROMETRY AND THE CONCENTRATION
  1. 13 IN THE RELATED INK CANNOT BE MORE THAN ONE PART PER MILLION.
  - 14 15. MICROPRINTING, A SECURITY RELIEF DESIGN TECHNIQUE THAT REQUIRES
  - 15 BANKNOTE GRAPHICS SOFTWARE. THE DESIGN MUST PROTECT INFILL AREAS FROM
  1. 16 FRAUDULENT ALTERATIONS.
  - 17 16. MULTICOLOR INVISIBLE PRIMARY FLUORESCENT ELEMENTS THAT ARE
  - 18 PRINTED IN REGISTER TO CREATE A RAINBOW EFFECT BACKGROUND. THE IMAGE MUST
  - 19 INCORPORATE MULTIPLE SECURITY GRAPHIC TECHNIQUES AND MUST BE GENERATED
  - 20 USING ANTICOUNTERFEIT DESIGN SOFTWARE THAT IS COMMERCIALY AVAILABLE ONLY
  1. 21 FOR APPROVED AND ACCREDITED PRINTERS.
  - 22 17. SERIALIZED BLACK QR CODE IN WHICH THE SAME CODE IS PRINTED ON
  - 23 THE TOP LEFT CORNER AND BOTTOM RIGHT CORNER AND THAT CAN BE READ BY NATIVE
  - 24 QR FUNCTIONS OF IOS AND ANDROID SMARTPHONES THAT REDIRECT THE VOTER TO A
  - 25 WEB-BASED VOTER INFORMATION PAGE AND THAT TRACKS THE VOTER'S BALLOT AS IT
  1. 26 IS PROCESSED.
  - 27 18. PAPER THAT IS EIGHT AND ONE-HALF INCHES WIDE BY TWENTY-TWO
  1. 28 INCHES LONG AND THAT WEIGHS EIGHTY GRAMS PER SQUARE METER.
  - 29 19. A PAPER RECEIPT FOR THE VOTER THAT IS A PERFORATED PORTION OF
  - 30 THE BALLOT, THAT IS SUITABLE FOR THE VOTER TO REMOVE FROM THE BALLOT AFTER
  - 31 COMPLETING THE BALLOT AND THAT CONTAINS THE LOT NUMBER AND SEQUENCE NUMBER
  1. 32 OF THE SHEET OF PAPER ON WHICH THE BALLOT IS PRINTED.
  - 33 B. THE LEGISLATURE SHALL APPROPRIATE SUFFICIENT MONIES TO THE
  - 34 OFFICE OF THE SECRETARY OF STATE TO REIMBURSE COUNTIES FOR THE COST OF THE
  - 35 FRAUD COUNTERMEASURES PRESCRIBED BY THIS SECTION, INCLUDING THE COST OF
  - 36 PAPER.
  - 37 C. PAPER THAT MEETS THE REQUIREMENTS OF SUBSECTION A OF THIS
  - 38 SECTION SHALL BE USED IN ALL ELECTIONS FOR STATE OFFICES AND FEDERAL
  - 39 OFFICES.
  - 40 D. THIS SECTION APPLIES TO THE REGULAR GENERAL ELECTION IN 2022 AND
  1. 41 ALL ELECTIONS HELD IN 2024 AND LATER.
- 2-

## See you on 11/30 at 7:30pm EST

Zoom Mtg - Senator Amanda Chase-  
ELECTION INTEGRITY - LEGISLATORS

Topic: Amanda Chase's Zoom Meeting  
Time: Nov 30, 2021 07:30 PM Eastern Time (US and Canada)

Join Zoom Meeting  
<https://us06web.zoom.us/j/82151425229?pwd=c1ZmbDVDOHJURFEzaGZnMDRqQk9ldz09>

Meeting ID: 821 5142 5229  
Passcode: U5ngj7

For God and Virginia,

Follow us on  
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[www.Chase4Senate.com](http://www.Chase4Senate.com)

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Authorized and Paid for by Friends of Amanda Chase

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Friends of Amanda Chase  
P.O. Box 5811  
Midlothian, VA 23112

[Unsubscribe robert.sutherland@leg.wa.gov](mailto:robert.sutherland@leg.wa.gov)

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**CAUTION:** This email originated from outside of the Legislature. Do not click links or open attachments unless you recognize the sender and know the content is safe.

**From:** Senator Amanda Chase <campaign+chaseforva.com@ccsend.com>

**Sent:** Friday, August 20, 2021 9:45 PM EDT

**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>

**Subject:** Ongoing Election Integrity Efforts

CAUTION: External email.

\*\*\*\*\*REMINDER\*\*\*\*\*

**PLEASE ATTEND OUR ZOOM CALL ON NATIONAL ELECTION INTEGRITY  
AUGUST 24, 2021 at 7:30pm EDT**

**Hello Fellow Legislators!**

We wanted to provide you with the information you will need to participate in our group Zoom call on Tuesday, August 24th at 7:30pm EDT.

**As we agreed, we will have a bi-monthly discussion on Election Integrity and continue to move the effort forward.**

**We won't stop until we have answers!**

**If there are other legislators interested in participating, please reach out to my Executive Assistant at: [Debbie@ChaseForVA.com](mailto:Debbie@ChaseForVA.com).**

~~~~~  
Zoom Mtg - Senator Amanda Chase-  
ELECTION INTEGRITY - LEGISLATORS

<https://us06web.zoom.us/j/4532787539?pwd=U0NSTGIhVDJyUEZKMWVlb3JRN1c5QT09>

Meeting ID: 453 278 7539

Passcode: 956286

~~~~~  
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+1 646 558 8656 US (New York)

+1 301 715 8592 US (Washington DC)

+1 346 248 7799 US (Houston)

+1 720 707 2699 US (Denver)

+1 253 215 8782 US (Tacoma)

Meeting ID: 453 278 7539

Passcode: 956286

Find your local number: <https://us06web.zoom.us/u/kfpmiZlkw>

For God and Virginia,

Follow us on  
Twitter

[www.Chase4Senate.com](http://www.Chase4Senate.com)

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Friends of Amanda Chase  
P.O. Box 5811  
Midlothian, VA 23112

[Unsubscribe robert.sutherland@leg.wa.gov](mailto:robert.sutherland@leg.wa.gov)

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**From:** Senator Amanda Chase <debbie+chaseforva.com@ccsend.com>  
**Sent:** Wednesday, November 17, 2021 4:37 PM EST  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** PRESS RELEASE - Senator Amanda Chase Makes BIG Announcement!

CAUTION: External email.



**FOR IMMEDIATE RELEASE**

November 17, 2021  
Contact: Shayne Snavelly  
804-380-0009

This morning at 7:05am, Senator Amanda Chase made an announcement on the John Reid Morning Show and at 9:05am on the John Fredericks Show that she is officially seeking the Republican nomination for the 7th Congressional District to challenge current Congresswoman Abigail Spanberger.

To listen to today's announcement, please click on the website below.

"We Virginians have suffered from the failed leadership and liberal agenda sweeping our Commonwealth for the last several years and we need to take back the 7th District. We need a proven, experienced leader with a backbone and a demonstrated record we can trust, and who we know will actually do what they say; stand up for the people. We need a representative who will be more than just a placeholder. I will continue to be a strong voice for the people and will continue to push back against the far-left's extreme agenda. As a 2nd term Virginia State Senator I have a proven 7 year conservative voting record you can trust."

"If you believe in our Constitutional Freedoms, our First Amendment Rights, our Second Amendment Rights, if you are supporters for faith & liberty and believe that Virginians deserve to live in a state of prosperity without government controlling their lives, please support me in this congressional race."

"I'm fighting for "We The People." As such, this is a grassroots campaign and my financial backing will come from people just like you, who don't typically give to political campaigns. The lobbyists and political action committees know that I work for you, not them. Will you please give your most generous donation today so that I can be your voice in Congress?"

**For God and Virginia,**

Senator Amanda Chase represents Virginia's 11th Senatorial District, which is made up of Amelia County, Colonial Heights, and parts of Chesterfield County.

Follow us on  
Twitter

<https://AmandaChaseforCongress.com>

Authorized and Paid for Amanda Chase for Congress

Amanda Chase for Congress  
P.O. Box 5811  
Midlothian, VA 23112

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**From:** Harris, Rep. Paul <Paul.Harris@leg.wa.gov>  
**Sent:** Wednesday, September 15, 2021 7:40 PM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; @HRC Members <HRCMEMBERS@leg.wa.gov>; @SRC Leg. Assistants <SRCLEGASSIST@leg.wa.gov>  
**CC:** wendyjrogers@gmail.com <wendyjrogers@gmail.com>  
**Subject:** Re: //Action Item//Election Integrity Caucus

Dear HRC members

I would wait for the results of this audit in Maricopa county and see if it shows a problem in election integrity. I believe we all want a process that has integrity and if there is a problem let us then weigh in.

Thanks

Paul Harris

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**From:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Sent:** Wednesday, September 15, 2021 11:40:35 AM  
**To:** @HRC Members <HRCMEMBERS@leg.wa.gov>; @SRC Leg. Assistants <SRCLEGASSIST@leg.wa.gov>  
**Cc:** wendyjrogers@gmail.com <wendyjrogers@gmail.com>  
**Subject:** FW: //Action Item//Election Integrity Caucus

Fellow Republicans,

While this letter was initially sent out by AZ Senator Wendy Rogers (R) to Legislators across the Country who are members of the national 'Election Integrity Caucus' she has asked that I share it with you as well for your consideration. If election integrity is a concern of your constituents and yourself, let Sen. Rogers know that you would like your signature added to this letter. I would encourage doing so sooner rather than later because the Maricopa county audit results are expected any day now and she intends to send this letter out shortly after that.

Thank you all for your time and attention to this matter,

Sincerely,

**Robert J. Sutherland**

**State Representative**

39th Legislative District

Washington State House of Representatives

405 John L. O'Brien Bldg. | Olympia, WA

O: (360) 786-7967

E: [robert.sutherland@leg.wa.gov](mailto:robert.sutherland@leg.wa.gov)

W: <http://robertsutherland.housepublicans.wa.gov>

House Committee Assignments:

Transportation

Community & Economic Development

College and Workforce Development

---

**From:** Wendy Rogers <wendyjrogers@gmail.com>  
**Sent:** Tuesday, September 14, 2021 10:08 AM  
**Subject:** Fwd: //Action Item//Election Integrity Caucus

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State legislators:

Ensuring you received this.

Wendy Rogers, Lt Col USAF (ret)

Senator LD6 Flagstaff Arizona

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AMERICAN  
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From: **Wendy Rogers** <[wendyrogers@gmail.com](mailto:wendyrogers@gmail.com)>  
Date: Mon, Sep 13, 2021 at 10:03 PM  
Subject: //Action Item//Election Integrity Caucus  
To:

Dear fellow state legislators,

When the Arizona Audit report comes out any day now, we must be ready to respond immediately.

Attached is the letter I intend to sign. **Please message me back only if you, as an elected official, would like to sign the letter below.** We need to have this WITH STATE LEGISLATORS' SIGNATURES at-the-ready once the Arizona report is made public. We must command the narrative before the Left does. **Simply tell me if you are a YES.**

We have put a lot of thought and effort into crafting this letter into just how it is. Attorney Christina Bobb of OAN assisted us in this effort.

Please do not message me back if you are a NO or if you are undecided. We can discuss this on the call tomorrow, but the letter goes out as is. Thank you.

In service,  
Wendy

Wendy Rogers, Lt Col USAF (ret)  
Senator LD6 Flagstaff  
[Gab.com/WendyRogersAZ](https://www.gab.com/WendyRogersAZ)  
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**ZOOM CALL**  
**Tuesday 14 Sep 21 at 7:30pm EDT**  
**AZ State Rep Mark Finchem leading the call**

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Join Zoom Meeting

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Passcode: 511178

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+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 720 707 2699 US (Denver)

<https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MWlvMWlqdz09>



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**From:** Klippert, Rep. Brad <Brad.Klippert@leg.wa.gov>  
**Sent:** Wednesday, September 15, 2021 2:50 PM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** Re: //Action Item//Election Integrity Caucus

Yes, please include my name.

Brad Klippert

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**From:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Sent:** Wednesday, September 15, 2021 11:40:35 AM  
**To:** @HRC Members <HRCMEMBERS@leg.wa.gov>; @SRC Leg. Assistants <SRCLEGASSIST@leg.wa.gov>  
**Cc:** wendyjrogers@gmail.com <wendyjrogers@gmail.com>  
**Subject:** FW: //Action Item//Election Integrity Caucus

Fellow Republicans,

While this letter was initially sent out by AZ Senator Wendy Rogers (R) to Legislators across the Country who are members of the national 'Election Integrity Caucus' she has asked that I share it with you as well for your consideration. If election integrity is a concern of your constituents and yourself, let Sen. Rogers know that you would like your signature added to this letter. I would encourage doing so sooner rather than later because the Maricopa county audit results are expected any day now and she intends to send this letter out shortly after that.

Thank you all for your time and attention to this matter,

Sincerely,

**Robert J. Sutherland**

**State Representative**

39th Legislative District

Washington State House of Representatives

405 John L. O'Brien Bldg. | Olympia, WA

O: (360) 786-7967

E: [robert.sutherland@leg.wa.gov](mailto:robert.sutherland@leg.wa.gov)

W: <http://robertsutherland.houseRepublicans.wa.gov>

House Committee Assignments:

Transportation

Community & Economic Development

College and Workforce Development

---

**From:** Wendy Rogers <wendyjrogers@gmail.com>  
**Sent:** Tuesday, September 14, 2021 10:08 AM  
**Subject:** Fwd: //Action Item//Election Integrity Caucus

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State legislators:

Ensuring you received this.

Wendy Rogers, Lt Col USAF (ret)

Senator LD6 Flagstaff Arizona

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From: **Wendy Rogers** <[wendyjrogers@gmail.com](mailto:wendyjrogers@gmail.com)>

Date: Mon, Sep 13, 2021 at 10:03 PM

Subject: //Action Item//Election Integrity Caucus

To:

Dear fellow state legislators,

When the Arizona Audit report comes out any day now, we must be ready to respond immediately.

Attached is the letter I intend to sign. **Please message me back only if you, as an elected official, would like to sign the letter below.** We need to have this WITH STATE LEGISLATORS' SIGNATURES at-the-ready once the Arizona report is made public. We must command the narrative before the Left does. **Simply tell me if you are a YES.**

We have put a lot of thought and effort into crafting this letter into just how it is. Attorney Christina Bobb of OAN assisted us in this effort.

Please do not message me back if you are a NO or if you are undecided. We can discuss this on the call tomorrow, but the letter goes out as is. Thank you.

In service,  
Wendy

Wendy Rogers, Lt Col USAF (ret)  
Senator LD6 Flagstaff  
[Gab.com/WendyRogersAZ](http://Gab.com/WendyRogersAZ)  
[Facebook.com/WendyRogersAZ](https://Facebook.com/WendyRogersAZ)  
[Twitter.com/WendyRogersAZ](https://Twitter.com/WendyRogersAZ)

**ZOOM CALL**  
**Tuesday 14 Sep 21 at 7:30pm EDT**  
**AZ State Rep Mark Finchem leading the call**

---

Join Zoom Meeting

<https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MwlvMWlqdz09>

Meeting ID: 872 8867 1016  
Passcode: 511178

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+13126266799,,87288671016#,,,,\*511178# US (Chicago)

Dial by your location  
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+1 312 626 6799 US (Chicago)  
+1 646 558 8656 US (New York)  
+1 253 215 8782 US (Tacoma)  
+1 346 248 7799 US (Houston)  
+1 720 707 2699 US (Denver)

<https://us06web.zoom.us/j/87288671016>



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**From:** Kraft, Rep. Vicki <Vicki.Kraft@leg.wa.gov>  
**Sent:** Wednesday, September 15, 2021 4:34 PM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>; @HRC Members <HRCMEMBERS@leg.wa.gov>; @SRC Leg. Assistants <SRCLEGASSIST@leg.wa.gov>  
**CC:** wendyjrogers@gmail.com <wendyjrogers@gmail.com>  
**Subject:** RE: //Action Item//Election Integrity Caucus

Thank you, Robert. Appreciate you sharing this with the HRC.

I've signed on.

Best,  
Vicki



Vicki Kraft  
WA State Representative  
17th Legislative District  
Olympia Office: 360-786-7994  
<http://vickikraft.houseRepublicans.wa.gov/>

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---

**From:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Sent:** Wednesday, September 15, 2021 11:41 AM  
**To:** @HRC Members <HRCMEMBERS@leg.wa.gov>; @SRC Leg. Assistants <SRCLEGASSIST@leg.wa.gov>  
**Cc:** wendyjrogers@gmail.com  
**Subject:** FW: //Action Item//Election Integrity Caucus

Fellow Republicans,

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Sincerely,

**Robert J. Sutherland**  
**State Representative**  
39th Legislative District  
Washington State House of Representatives

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O: (360) 786-7967  
E: [robert.sutherland@leg.wa.gov](mailto:robert.sutherland@leg.wa.gov)  
W: <http://robertsutherland.houseRepublicans.wa.gov>

House Committee Assignments:  
Transportation  
Community & Economic Development  
College and Workforce Development

**Sent:** Tuesday, September 14, 2021 10:08 AM  
**Subject:** Fwd: //Action Item//Election Integrity Caucus

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State legislators:

Ensuring you received this.

Wendy Rogers, Lt Col USAF (ret)  
Senator LD6 Flagstaff Arizona

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From: **Wendy Rogers** <[wendyrogers@gmail.com](mailto:wendyrogers@gmail.com)>  
Date: Mon, Sep 13, 2021 at 10:03 PM  
Subject: //Action Item//Election Integrity Caucus  
To:

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Attached is the letter I intend to sign. **Please message me back only if you, as an elected official, would like to sign the letter below.** We need to have this WITH STATE LEGISLATORS' SIGNATURES at-the-ready once the Arizona report is made public. We must command the narrative before the Left does. **Simply tell me if you are a YES.**

We have put a lot of thought and effort into crafting this letter into just how it is. Attorney Christina Bobb of OAN assisted us in this effort.

Please do not message me back if you are a NO or if you are undecided. We can discuss this on the call tomorrow, but the letter goes out as is. Thank you.

In service,  
Wendy

Wendy Rogers, Lt Col USAF (ret)  
Senator LD6 Flagstaff

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**ZOOM CALL**  
**Tuesday 14 Sep 21 at 7:30pm EDT**  
**AZ State Rep Mark Finchem leading the call**

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Join Zoom Meeting

[https://us06web.zoom.us/j/87288671016?  
pwd=R0t1M3h2bHUrYVZRTDk0MWlvMWlqdz09](https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MWlvMWlqdz09)

Meeting ID: 872 8867 1016  
Passcode: 511178

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One tap mobile  
+13017158592,,87288671016#,,,,\*511178# US (Washington DC)  
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Dial by your location  
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+1 312 626 6799 US (Chicago)  
+1 646 558 8656 US (New York)  
+1 253 215 8782 US (Tacoma)  
+1 346 248 7799 US (Houston)  
+1 720 707 2699 US (Denver)  
[https://us06web.zoom.us/j/87288671016?  
pwd=R0t1M3h2bHUrYVZRTDk0MWlvMWlqdz09](https://us06web.zoom.us/j/87288671016?pwd=R0t1M3h2bHUrYVZRTDk0MWlvMWlqdz09)

**CAUTION:** This email originated from outside of the Legislature. Do not click links or open attachments unless you recognize the sender and know the content is safe.

**From:** State Rep. Ron Hanks <russco2022@gmail.com>  
**Sent:** Wednesday, October 06, 2021 1:53 PM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** Ron's running for US Senate

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FOR IMMEDIATE RELEASE: 6 October, 2021

CONTACT: Ron Hanks, 719-352-5264, [russco2022@gmail.com](mailto:russco2022@gmail.com)

## Colorado State Rep. Ron Hanks Launches Campaign for U.S. Senate

**Penrose, Colorado** – Today, Colorado State Representative Ron Hanks, a Republican serving State House District 60, announced his campaign for U.S. Senate to unseat incumbent Democrat Michael Bennet, who was appointed in 2009.

A conservative stalwart in the Colorado General Assembly, Rep. Hanks is the only Republican legislator running for U.S. Senate and the only candidate with a proven conservative record on the issues.

*“The best way to know what a candidate will do in office is by what they’ve already done. Never trust their words, trust their actions. Candidly, when it comes to defeating Bennet, the field of Republicans running in this race is too weak or inexperienced and some are even hostile to our America First values. Solving the crises exploding throughout America demands a leader who has demonstrated a clear pro-liberty record and the courage to stand in the line of fire of an unhinged leftist media and their masters in the Democrat party,”* commented State Rep. Ron Hanks (R).

*“With Bennet and Biden calling the shots, we’ve seen horrific and self-inflicted disasters hit our country and harm our citizens at home, in Afghanistan and around the world,”* continued Hanks.

*“We cannot fix America – we will not be America – without Election Integrity. We must conduct forensic audits and voter roll canvassing. Nothing else will matter if the will of The People is nullified by fraud. Our number one goal must be to fix proven election fraud in Colorado and America and hold every election criminal accountable,”* concluded Hanks.

View Ron Hanks’ campaign video here: [www.HanksforColorado.com](http://www.HanksforColorado.com)

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**From:** Rep. Ron Hanks - U.S. Senate <russco2022@gmail.com>  
**Sent:** Tuesday, October 12, 2021 10:59 AM EDT  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** The RINO's are howling

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**Dear Patriot,**

Since I announced our campaign for US Senate in Colorado last week, the RINOs and their liberal masters in the media have been howling like wolves in sheep's clothing.

These are the same backstabbing turncoats who have been lying to Republicans – and America – trying to destroy President Trump by misreporting the facts and belittling our conservative values.

As my campaign video below shows, I never have and never will let these traitors dismantle our Constitution, so they howl when I insist we MUST have nationwide forensic election audits to guarantee The Big Steal cannot happen again.

Click my logo to see the video:



I will not relent. Let me say again: Election Fraud, in 2020 and in previous elections, is THE DEFINING ISSUE of America today.

How this issue resolves is going to determine whether we live in tyrannical, vengeful communism, or as free people with personal liberties, the rule of law, and peace among men.

If the left and their sycophants win, we lose.

This country matters. Help me fight for it.

Please join this fight today Patriot, and pitch in, [HERE](#).

When we defeat the corrupt establishment and arrive in the US Senate, we'll give them something to really howl about.

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For freedom,

Ron Hanks (R)  
Colorado State Representative  
Republican for US Senate



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**From:** Mike Chase <amanda+chaseforva.com@ccsend.com>  
**Sent:** Tuesday, November 30, 2021 7:02 PM EST  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** WEDNESDAY IS AMANDA'S BIRTHDAY

CAUTION:External email.

Friend,

This is Mike Chase, Amanda's husband.

First, to those of you who have already supported Amanda in the past, THANK YOU. Thank you for supporting Amanda with both your financial support and encouragement. She is a fighter and works tirelessly for you.

She couldn't do this without you.

This coming Wednesday, December 1 is her birthday and I want her to know you are with her in her race for Congress. In lieu of birthday gifts, I'm asking you to make a donation to her campaign. Of course this will not go to her personally, but it will send her a message that money can't buy...

**WE ARE WITH YOU.**

She sees every notification from every person who donates to her campaign for Congress and knows who to credit for their help. She cannot thank you enough.

Amanda was born to serve. I know her well. We were high school sweethearts and have been married for almost 30 years this July. She knows God has called her for "such a time as this" and is willing, able and has demonstrated that she will fight like a Mama Bear for the Constitutional rights of the people, just like she has over the years for our 4 kids who are now all grown.

**HER VERY FIRST fundraising deadline is Friday, December 31 at midnight, and she will need YOUR help to reach her first critical fundraising deadline.**

Let's make this one of the best birthdays ever by sending Amanda a message that we are with her by giving to her campaign and supporting her in her run for US Congress. She was born to serve.

**Would you give \$52 today on her 52nd birthday?**

Thank you in advance,

**Mike**

Senator Amanda Chase has represented Virginia's 11th Senatorial District, which is made up of Amelia County, Colonial Heights, and parts of Chesterfield County, since 2016. Most of her district is currently in the 7th Congressional District.

Follow us on  
Twitter

**DONATE HERE**

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Authorized and Paid for by Amanda Chase for Congress

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Amanda Chase for Congress  
P.O. Box 5811  
Midlothian, VA 23112

[Unsubscribe robert.sutherland@leg.wa.gov](mailto:robert.sutherland@leg.wa.gov)

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Sent by amanda@chaseforva.com  
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**From:** Rep. Ron Hanks <russco2022@gmail.com>  
**Sent:** Friday, November 19, 2021 12:53 PM EST  
**To:** Sutherland, Rep. Robert <Robert.Sutherland@leg.wa.gov>  
**Subject:** Will you please caucus for me?

CAUTION: External email.

Patriot,

The most important election day for real conservatives is Caucus Day.

That's when you and your Republican neighbors get together to select delegates to our Republican assemblies. Those conservative delegates will vote to decide the Republican nominee for US Senate to take on and defeat Democrat Michael Bennet -- and defeat the soft and inexperienced Republican sell-outs who are trying to trick you.

As the only proven conservative in our race for US Senate, I need your help: Please attend your local Republican precinct caucus in the coming months. It's easy and actually a lot of fun.

But to help organize the groundswell of conservative support from all over Colorado, we must begin organizing today to make sure we turn out as many real conservatives as possible. We can defeat the insider, untested, unproven sell-out Republicans who are running against me. They don't want the people to take back control -- they want the prestige of the position, and an inside-Washington career. Attending the caucus is our chance to stick it to The Swamp.

Patriot, as a personal favor to me and to help save our country, please, will you let me know TODAY if you will attend your caucus and vote for me in March 2022?? And while attending caucus is a big help, becoming a Caucus Captain for the Ron Hanks for US Senate campaign would help seal our victory.

**Please reply to this email and give me a Yes or No**

Or, if you need more info, please let me know.

Thank you for having my back, and may God bless America,

Ron

Colorado State Rep. Ron Hanks (R)  
Help at [www.HanksforColorado.com](http://www.HanksforColorado.com)

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