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# MEMORANDUM

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Date: November 2, 2022

To: The Honorable Chair and Members  
Pima County Board of Supervisors

From: Jan Leisher   
County Administrator

Re: **Certification Status of Voting Machines in Pima County**

Supervisor Scott requested information regarding the certification status of voting machines in Pima County. The attached memorandum from Elections Director Constance Hargrove clarifies the situation, reporting that Pima County's voting machines meet all certification requirements.

JKL/dym

Attachment

c: Carmine DeBonis, Jr., Deputy County Administrator  
Francisco García, MD, MPH, Deputy County Administrator and Chief Medical Officer  
Steve Holmes, Deputy County Administrator  
Constance Hargrove, Director, Elections Department



ELECTIONS DEPARTMENT  
PIMA COUNTY GOVERNMENT  
6550 SOUTH COUNTRY CLUB RD., TUCSON, AZ 85756  
(520) 724-6830 FAX (520) 724-6870

Date: November 2, 2022

TO: Jan Leshner  
County Administrator

FROM: Constance L. Hargrove  
Elections Director

RE: Response to Allegations of Uncertified Voting Machines and Tabulators

The rumor of voting machines and tabulators in Pima County not being certified is not true. The conspiracy is a misunderstanding of the federal lab testing accreditation process. The following information outlines the certification process in Arizona and information about the federal testing labs. I am also attaching a copy of the statement issued by the Elections Assistance Commission in reference to the test lab certification and the original memo from Ms. Leshner on October 7.

**How is voting equipment certified for use in Arizona?**

All equipment used in Arizona must be certified by the US Election Assistance Commission (EAC) and the Secretary of State, based on a recommendation of the Equipment Certification Advisory Committee, to ensure that it meets both federal and state-specific requirements. As part of this process, equipment must also undergo testing by a voting system test laboratory (VSTL) accredited in accordance with the Help America Vote Act. See A.R.S. § 16-442(A)-(B).

All voting systems being used in the 2022 Election in Arizona have met these requirements.

**Are the federal labs that test equipment (VSTLs) properly certified to do so?**

Yes, both VSTLs remain properly accredited. The EAC has confirmed that both VSTLs have undergone regular assessments throughout the time they have been accredited.

Additionally, the Help America Vote Act states that a lab cannot lose its accreditation unless there is a vote by the Commission to revoke it. The Commission has not voted to revoke any VSTL lab's accreditation. See 52 U.S.C. § 20971(c)(2).

Some individuals have noted that the VSTL's certification paperwork contains a date that implies the lab's accreditation expired and, therefore, could not be used to test equipment properly. The EAC has addressed this issue previously saying: Even though the EAC failed to reissue the certificate . . . Pro V&V and SLI Compliance remained in good standing with the requirements of our program and retained their accreditation as stated in the attached document.

Attachments



U.S. ELECTION ASSISTANCE COMMISSION  
633 3rd St. NW, Suite 200  
Washington, DC 20001

The Voting System Test Laboratory (VSTL) accreditation program is an essential component of the EAC's Voting System Testing and Certification Program. The EAC has made National Institute of Standards and Technology's (NIST) National Voluntary Laboratory Accreditation Program (NVLAP) accreditation a requirement as part of its VSTL accreditation program. NVLAP accreditation is **the primary means by which the EAC ensures that each VSTL meets and continues to meet the technical requirements** of the EAC program. It sets the standards for each VSTL's technical, physical and personnel resources, as well as its testing, management, and quality assurance policies and protocols. NVLAP reviews VSTLs one year after their initial accreditation and biennially thereafter.

The EAC takes additional steps to ensure that laboratory policies are in place regarding compliance management and issues like conflict of interest, record maintenance, and financial stability. It also ensures that the VSTL is willing and capable to work with EAC in its Testing and Certification Program. This is performed by regularly working closely with the labs and performing audits biannually and generating certificates. <sup>1</sup>The VSTL accreditation does not get revoked unless the commission votes to revoke accreditation; and by that same token, EAC generated certificates or lack thereof do not determine the validity of a VSTL's accreditation status.

**Due to administrative error** during 2017-2019, the EAC did not issue an updated certificate to Pro V&V causing confusion with some people concerning their good standing status. Even though the EAC failed to reissue the certificate, Pro V&V's audit was completed in 2018 and again in early 2021 as the scheduled audit of Pro V&V in 2020 was postponed due to COVID-19 travel restrictions. Despite the challenges outlined above, throughout this period, Pro V&V and SLI Compliance remained in good standing with the requirements of our program and retained their accreditation. **In addition, the EAC has placed appropriate procedures and qualified staff to oversee this aspect of the program ensuring the continued quality monitoring of the Testing and Certification program is robust and in place.**

The Testing and Certification program has been fully staffed since May 2019, and we are confident that the integrity of the labs and our voting system certification program has remained strong throughout. The lack of generating a new certificate does not indicate that the labs were out of compliance. All certifications during this period remain valid as does the lab accreditation. The quality of our labs' work is closely monitored during certification campaigns. Both Pro V&V and SLI Compliance are NAVLAP accredited laboratories that are assessed against the management and technical requirements published in the International Standard, ISO/IEC 17025:2017.

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<sup>1</sup> Pro V&V was accredited by the EAC on February 24, 2015, and SLI Compliance was accredited by the EAC on February 28, 2007. Federal law provides that EAC accreditation of a voting system test **laboratory cannot be revoked unless the EAC Commissioners vote to revoke the accreditation**: "The accreditation of a laboratory for purposes of this section may not be revoked unless the revocation is approved by a vote of the Commission." 52 U.S. Code § 20971(c)(2). The EAC has never voted to revoke the accreditation of Pro V&V. Pro V&V has undergone continuing accreditation assessments and had new accreditation certificate issued on February 1, 2021.



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# MEMORANDUM

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Date: October 7, 2022

To: The Honorable Chair and Members  
Pima County Board of Supervisors

From: Jan Leshar   
County Administrator

Re: **Board of Supervisors October 4, 2022 Meeting - Agenda Item 16. 2022 Primary Election After Action Report – Additional Information**

During discussion about the 2022 Primary Election After Action Report, questions were raised about the certification of the voting systems. Attached please find a Memorandum from Elections Director Constance Hargrove, which includes a copy of the Secretary of State's Certified Vote Tabulation Equipment list, a list of equipment certified by county, and the equipment list submitted to the Secretary of State by Pima County for the primary and general elections.

The equipment used by Pima County for the primary and general elections was certified for use by the Arizona Secretary of State.

JKL/anc

Attachment

c: Carmine DeBonis, Jr., Deputy County Administrator  
Francisco García, MD, MPH, Deputy County Administrator and Chief Medical Officer  
Steve Holmes, Deputy County Administrator  
Constance Hargrove, Director, Elections



## ELECTIONS DEPARTMENT

PIMA COUNTY GOVERNMENT  
6550 SOUTH COUNTRY CLUB RD., TUCSON, AZ 85756  
(520) 724-6830 FAX (520) 724-6870

Date: October 6, 2022

TO: Jan Leshner  
County Administrator

FROM: Constance Hargrove  
Elections Director

RE: Update October 4 Board of Supervisors Meeting – Voting Equipment Certification

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The Help America Vote Act (HAVA) of 2002 mandated the Election Assistance Commission (EAC) to provide certification, decertification, and recertification of voting systems and the accreditation of voting system testing laboratories<sup>1</sup>. The Commission creates Voluntary Voting System Guidelines (VVSG) to test voting equipment.

In addition, the A.R.S. §16-442(B) requires the certification of all voting equipment according to state and federal law before use in any election for federal, state, or county office. The Secretary of State (SOS) reviews system documentation and/or conducts a demonstration and functionality test.<sup>2</sup> Any upgrades or modifications to an existing voting system require recertification. If the upgrade or modification is de minimis, no recertification is required. Arizona uses voting systems that have been certified by the EAC.

Pima County utilizes two types of voting equipment manufactured by Election Systems and Software (ES&S), the ExpressVote ballot marking device and the DS850 digital scanner. Both systems are certified by the Secretary of State. The County must submit the voting equipment model and firmware type to the SOS before each election.

I am attaching a copy of the Secretary of State's Certified Vote Tabulation Equipment list, a list of equipment certified by county, and the equipment list submitted to the SOS by Pima County for the primary and general elections.

### Attachments

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<sup>1</sup> The U.S. Elections Assistance Commission – Testing and Certification Program

<sup>2</sup> Arizona Secretary of State – Voting Equipment Certification



**Arizona Secretary of State  
 Certified Vote Tabulating Equipment  
 Pursuant to A.R.S. § 16-442**

Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
Diebold	GEMS 1-18-24 Voting System  *See original certification 11/2005	EMP Model D software (4.6.2)	AccuVote-TSX DRE Model D (4.6.4) ExpressPoll 5000 Electronic Poll Book (CardWriter (1.0) component only) Election Media Processor (EMP) Model D software (4.6.2)	N-1-06-22-22-003 N-1-06-22-22-004 N-1-06-22-22-005	6/15/2007
Dominion	EMS 5.5.32.4	EMS-Election Event Designer (5.5.32.4) EMS- Results Tally & Reporting (5.5.32.4) EMS-Audio Studio (5.5.32.4) EMS-Data Center Manager (5.5.32.4) EMS-Application Server (5.5.32.4) EMS-Network Attached Storage (5.5.32.4) EMS-Database Server (5.5.32.4) EMS-Election Data Translator (5.5.32.4) EMS-Adjudication (5.5.32.1) ImageCast Voter Activation (ICVA) (5.5.32.4) ImageCast Central (ICC) (5.5.32.5) ImageCast Precinct2 (ICP2) (5.5.1.8) ImageCast X (ICX) (5.5.13.2)	ICVA Smart Card Reader (ACR39U) ICC Scanner (Canon Dr-G1130) ICC Scanner (InoTec HiPro 821) ICP2 Hardware (PCOS-330A) Ballot Box-Stacking (ICP2) (PCOS-350A) ICX Classic Hardware (Avalue SID-21V-Z37) ICX BMD Printer (HP M402dne) ICX BMD UPS (APC SMT1500C) Accessible Tactile Interface USB (ATI for ICP2 & ICX) (Rev.A)	<u>DVS-DemSuite5.5-B</u>	11/05/2019
ES&S	EVS 6.0.4.0	ElectionWare (5.0.4.0)	ExpressVote hardware version 1.0 (firmware version 1.5.2.0) ExpressVote hardware version 2.1 (firmware version 2.4.5.0) DS200 hardware versions 1.2 & 1.3, (firmware version 2.17.4.0) DS450 hardware version 1.0 (firmware version 3.1.1.0) DS850 hardware version 1.0 (firmware version 3.1.1.0)	<u>ESSEVS6040</u>	11/05/2019

This is a summary of the vote tabulating equipment certified by the Secretary of State since January 1, 2006. Copies of the actual certifications can be obtained by contacting the Secretary of State's office.



**Arizona Secretary of State  
 Certified Vote Tabulating Equipment  
 Pursuant to A.R.S. § 16-442**

Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
ES&S	EVS 6.0.2.1.	ElectionWare (5.0.2.0)	ExpressVote hardware version 1.0 (firmware version 1.5.1.0) ExpressVote hardware version 2.1 (firmware version 2.4.3.0) DS200 hardware versions 1.2 & 1.3, (firmware version 2.17.0.0) DS450 hardware version 1.0 (firmware version 3.1.0.0) DS850 hardware version 1.0 (firmware version 3.1.0.0)	<u>ESSEVS6021</u>	05/01/2019
ES&S	EVS 5.2.2.0	ElectionWare (4.7.1.1) Election Reporting Manager (ERM) (8.12.1.1) Event Log Service (1.5.5.0) Removable Media Service (1.4.5.0) ExpressVote Previewer (1.4.1.2) VAT Previewer (1.8.6.1)	* ExpressVote hardware version 1.0 (firmware version 1.4.1.2) ExpressVote Kiosk hardware version 1.0 DS200 hardware versions 1.2.1, 1.2.3, & 1.3 (firmware version 2.12.2.0) AutoMARK A100 hardware version 1.0 (firmware version 1.8.6.1) AutoMARK A200 hardware version 1.1 (firmware version 1.8.6.1) AutoMARK A300 hardware version 1.3 (firmware version 1.8.6.1) DS850 hardware version 1.0 (firmware version 2.10.2.0) DS450 hardware version 1.0 (firmware version 3.0.0.0) Plastic Ballot Box hardware versions 1.2, 1.3 Metal Ballot Box with/without Diverter hardware versions 1.0, 1.1, 1.2	<u>ESSEVS5220</u>	01/08/2018  * ExpressVote hardware version 1.0 (firmware version 1.4.1.2) is conditionally certified through January 2020.

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**Arizona Secretary of State  
 Certified Vote Tabulating Equipment  
 Pursuant to A.R.S. § 16-442**

Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
ES&S	EVS 5.2.1.0	ElectionWare (4.7.1.0) Election Reporting Manager (ERM) (8.12.1.0) Event Log Service (1.5.5.0) Removable Media Service (1.4.5.0) VAT Previewer (1.8.6.0)	ExpressVote hardware version 1.0 (firmware version 1.4.1.0) ExpressVote Kiosk hardware version 1.0 DS200 hardware versions 1.2.1, 1.2.3, & 1.3 (firmware version 2.12.1.0) AutoMARK A100 hardware version 1.0 (firmware version 1.8.6.0) AutoMARK A200 hardware versions 1.1, 1.3 (firmware version 1.8.6.0) AutoMARK A300 hardware version 1.3 (firmware version 1.8.6.0) DS850 hardware version 1.0 (firmware version 2.10.1.0) Plastic Ballot Box hardware versions 1.2, 1.3 Metal Ballot Box with/without Diverter hardware versions 1.0, 1.1, 1.2	<u>ESSEVS5210</u>	2/18/2016
ES&S	EVS 5.2.0.0	ElectionWare (4.6.0.0) Election Reporting Manager (ERM) (8.11.0.0) Event Log Service (1.5.5.0) Removable Media Service (1.4.5.0) VAT Previewer (1.8.6.0)	ExpressVote hardware version 1.0 (firmware version 1.4.0.0) DS200 hardware versions 1.2.1, 1.2.3, & 1.3 (firmware version 2.12.0.0) AutoMARK A100 hardware version 1.0 (firmware version 1.8.6.0) AutoMARK A200 hardware versions 1.1, 1.3 (firmware version 1.8.6.0) DS850 hardware version 1.0 (firmware version 2.10.0.0) Plastic Ballot Box hardware versions 1.2, 1.3 Metal Ballot Box with/without Diverter hardware versions 1.0, 1.1, 1.2	<u>ESSEVS5200</u>	12/17/2014

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**Arizona Secretary of State  
Certified Vote Tabulating Equipment  
Pursuant to A.R.S. § 16-442**

Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
ES&S	EVS 5.0.0.0 Voting System	ElectionWare (4.1.0.0) Event Log Service (1.5.0.0) Election Reporting Manager (ERM) (8.6.0.0) Removable Media Service (1.4.0.0) VAT Previewer (1.8.1.0)	Paper Ballot (3.1.0.0) DS200 hardware version 1.2 (firmware version 2.7.0.0) DS850 hardware version 1.0 (firmware version 2.4.0.0) AutoMARK A100 hardware version 1.0 (firmware version 1.8.1.0) AutoMARK A200 hardware version 1.1 (firmware version 1.8.1.0) AutoMARK A200 hardware version 1.3 (firmware version 1.8.1.0) AutoMARK A300 hardware version 1.3 (firmware version 1.8.1.0) DS200 Plastic Ballot Box (hardware versions 1.2, 1.3) Metal Ballot Box with Diverter (hardware versions 1.0, 1.1, 1.2) Metal Ballot Box without Diverter (hardware versions 1.0, 1.1, 1.2)	<u>ESSEVS5000</u>	6/17/2013
ES&S	Model 650 with the Unity 3.0.1.1 Voting System  *See original certification June 15, 2007	Unity 3.0.1.1	Model 650 (2.1.0.0)  *Now included as part of the voting system suite previously certified on June 15, 2007	N-2-02-22-22-006 <u>ESSUnity3210</u>	10/19/2011
ES&S	Unity 3.0.1.1 / AutoMark 1.1 Voting System	Audit Manager (7.3.0.0) Election Data Manager (7.4.4.0) ES&S Image Manager (7.4.2.0) Hardware Programming Manager (5.2.4.0) Data Acquisition Manager (6.0.0.0) Election Reporting Manager (7.1.2.1) AutoMARK AIMS (1.2.18)	Model 100 Optical Scan Tabulator (5.2.1.0) AutoMARK Voter Assist Terminal (1.1.2258)	N-2-02-22-22-006 N- 2-02-22-22-007 <u>ESSUnity3210</u>	6/15/2007

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**Arizona Secretary of State  
 Certified Vote Tabulating Equipment  
 Pursuant to A.R.S. § 16-442**

Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
Sequoia	AVC Edge 5.0/WinEDS 3.1.038	WinEDS (3.1.038) SPR Host (1.09)	AVC Edge II (5.0.24) VeriVote Printer (4.3) HAAT Model 50 Card Activator (1.0.79L) Optech Insight (APX K2.10, HPX K1.42) Optech Insight with Modem (APX K2.10, HPX K1.42, CPX K1.14) 400-C/WinETP (3.00P/1.12.4) Memory Pack Reader (MPR) (2.15)	N-1-07-22-22-003	8/1/2006
Sequoia	WinEDS 3.1.074 / AVC Edge 5.0 Voting System	WinEDS (3.1.074) SPR Host (1.0.10)	AVC Edge II (5.0.31) with VeriVote VVPAT (4.3) & Edge Audio Unit (5.0 Rev. C) HAAT Model 50 Card Activator (2.1.18) Optech Insight (APX K2.12, HPX K1.44) Optech Insight with Modem (APX K2.12, HPX K1.44, CPX K1.14) 400-C/WinETP (3.00P/1.14.3) Memory Pack Reader (MPR) (2.15)	N-1-07-22-22-004	6/15/2007
Sequoia	WinEDS 3.1.074 / AVC Edge 5.0 Voting System	WinEDS (3.1.074)	*WinEDS Election Reporting (1.1.7.0) *WinEDS Election Results (1.1.1.0) *EDGE2plus Model 300 DRE (1.2.33)	N-1-07-22-22-004	11/19/2007

\*Additional components of the previously certified voting system

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**Arizona Secretary of State  
 Certified Vote Tabulating Equipment  
 Pursuant to A.R.S. § 16-442**

Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
Unisyn	OpenElect Voting System 2.1	Ballot Layout Manager (2.1) Election Manager (2.1) Tabulator Client (2.1) Tabulator (2.1) Tabulator Reports (2.1) Validator (2.1) Scripter (2.1) Common (2.1) OCS Installer (2.1) Regkey Builder (2.1) OVCS Application (2.1) Unisyn Secure Library (2.1) Logger (2.1) Auditor (2.1)	OVO hardware (version 2.1) OVI-VC (version 2.1) OVCS (version 2.1) OVCSmini (version 2.1) FVT (version 2.1)	UNS10121966-2.1	05/27/2020
Unisyn	OpenElect Voting System 2.0.A	Ballot Layout Manager (2.0.A) Election Manager (2.0.A) Tabulator Client (2.0.A) Tabulator (2.0.A) Tabulator Reports (2.0.A) Validator (2.0.A) Scripter (2.0.A)	OVO hardware revisions A and E (software version 2.0.A) OVI-VC hardware revisions A and B (software version 2.0.A) OVCS hardware revision ImageFORMULA DR-X10C & M160 (software version 1.3) OVCSmini (software version 2.0.A) FVT hardware revision A (software version 2.0.A)	UNS10121966-2.0.A	9/14/2018

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**Arizona Secretary of State  
 Certified Vote Tabulating Equipment  
 Pursuant to A.R.S. § 16-442**

Updated 07/22/2020

Company	Voting System/System Component	Software	Hardware/Firmware	EAC System ID #	Date of Certification
Unisyn	OpenElect 1.3 Voting System	Ballot Layout Manager (1.3) Election Manager (EM) (1.3) Software Server (SS) (1.3) Election Server (ES) (1.3) Tabulator Client (TC) (1.3) Tabulator (Tab) (1.3) Tabulator Reports (TR) (1.3) Scripter (1.3) Validator (1.3)	OVO hardware revisions A and E (software version 1.3) OVI-7 hardware revision F (software version 1.3) OVI-VC hardware revisions A and B (software version 1.3) OVCS hardware revision v. 1.3 (software version 1.3) Ballot Box - Plastic (hardware version 1.1) Ballot Box - Portable (hardware version 1.2) Ballot Box - Plastic (hardware version 1.3)	04211950-1.3	7/2/2015
Unisyn	OpenElect 1.2 Voting System	Ballot Layout Manager (1.2) Election Manager (EM) (1.2) Software Server (SS) (1.2) Election Server (ES) (1.2) Tabulator Client (TC) (1.2) Tabulator (Tab) (1.2) Tabulator Reports (TR) (1.2) Scripter (1.2) Validator (1.2)	OVO hardware revision E (software version 1.2) OVI-7 hardware revision F (software version 1.2) OVI-VC hardware revisions A and B (software version 1.2) Ballot Box - Plastic (hardware version 1.1) Ballot Box - Portable (hardware version 1.2)	UNS10121966-OE-1.2	5/23/2014

This is a summary of the vote tabulating equipment certified by the Secretary of State since January 1, 2006. Copies of the actual certifications can be obtained by contacting the Secretary of State's office.

2022 Election Cycle / Voting Equipment\*

County	System Type	Manufacturer	Maintenance	Model	Firmware Type	Software Type
Apache	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	1.5.2.1	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS450	3.1.1.0	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS850	3.1.1.0	ElectionWare 6.0.4.0
Cochise	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	1.5.2.1	ElectionWare 6.0.4.0
	Digital Scan			DS200	2.17.4.0	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS450	3.1.1.0	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS850	3.1.1.0	ElectionWare 6.0.4.0
Coconino	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	2.4.5.1	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS450	3.1.1.0	ElectionWare 6.0.4.0
Gila	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	1.5.2.0	ElectionWare 5.0.4.0
	Central Count - Digital Scan			DS850	3.1.1.0	ElectionWare 5.0.4.0
Graham	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	1.5.2.1	ElectionWare 5.0.4.0
	Central Count - Digital Scan			DS850	3.1.1.0	ElectionWare 5.0.4.0
Greenlee	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	1.5.2.0	ElectionWare 5.0.4.0
	Digital Scan			DS200	2.17.4.0	ElectionWare 5.0.4.0
	Central Count - Digital Scan			DS450	3.1.1.0	ElectionWare 5.0.4.0
La Paz	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	1.5.2.1	ElectionWare 6.0.4.0
	Digital Scan			DS200	2.17.4.0	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS450	3.1.1.0	ElectionWare 6.0.4.0
Maricopa	Accessible Ballot Marking Device	Dominion	Dominion	ImageCast X (BMD)	5.5.13.2	Democracy Suite 5.5b
	Accessible Ballot Marking Device			ICX ATI Unit (BMD)	181-000036 Rev. A	Democracy Suite 5.5b
	Ballot Marking Device Printer			HP LaserJet Pro M402dne	Unmodified COTS	Democracy Suite 5.5b
	Digital Scan			Imagecast Precinct 2	5.5.18	Democracy Suite 5.5b
	Central Count - Digital Scan			ICC Cannon DR-G1130	Unmodified COTS	Democracy Suite 5.5b
	Central Count - Digital Scan			ICC Interscan HiPro 821	Unmodified COTS	Democracy Suite 5.5b
Mohave	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	2.4.5.1	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS850	3.1.1.0	ElectionWare 6.0.4.0
Navajo	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	2.4.5.1 / 1.5.2.1	ElectionWare 6.0.4.0
	Digital Scan			DS200	2.17.4.0	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS450	3.1.1.0	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS850	3.1.1.0	ElectionWare 6.0.4.0
Pima	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	2.4.5.1	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS850	2.4.0.0	ElectionWare 6.0.4.0
Pinal	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	2.1.10.0	ElectionWare 5.0.4.0
	Central Count - Digital Scan			DS850	1.0.0.0	ElectionWare 5.0.4.0
Santa Cruz	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	1.5.2.1	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS450	3.1.1.0	ElectionWare 6.0.4.0
Yavapai	Accessible Ballot Marking Device	Unisyn	Unisyn	FVT	OpenElect 2.2	OCS OpenElect 2.2
	Central Count - Digital Scan			OVCS	1.55	OCS OpenElect 2.2
Yuma	Accessible Ballot Marking Device	ES&S	ES&S	ExpressVote (BMD)	1.5.2.1	ElectionWare 6.0.4.0
	Digital Scan			DS200	2.17.4.0	ElectionWare 6.0.4.0
	Central Count - Digital Scan			DS450	3.1.1.0	ElectionWare 6.0.4.0

\*This list may be updated prior to the next election.  
Revised August 2022



**ADDITIONAL REPORTING FORMS**

**Equipment, Software, Firmware, and Hash Code Certification Statement**

I, Constance Hargrove certify by affixing my signature to this document that all election equipment and firmware, as well as all election management system software to be used in the General Election to be held on November 8, 2022 IN Pima County has been certified for use by the Arizona Secretary of State and that I have compared the hash code on file with the National Institute of Science and Technology (NIST) or the Arizona Secretary of State's Office to the hash code of the election management system software to be used in this election and certify that the numbers are identical. The following is a list of the equipment, firmware, and election management system software to be used in the aforementioned election:

**VOTING UNITS**

Manufacturer	Model	Firmware Version
<u>Election Systems &amp; Software</u>	<u>ExpressVote</u>	<u>2.4.5.1</u>
<u> </u>	<u> </u>	<u>1.5.2.1</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

**CENTRAL COUNT UNITS**

Manufacturer	Model	Firmware Version
<u>Election Systems &amp; Software</u>	<u>DS850 Version 1.0</u>	<u>2.4.0.0</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

**ELECTION MANAGEMENT SOFTWARE**

Manufacturer	Product Name	Version
<u>Election Systems &amp; Software</u>	<u>Election Systems &amp; Software Voting System</u>	<u>6.0.4.0</u>
<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>

  
\_\_\_\_\_  
Officer in Charge of Elections Signature

09/22/2022  
\_\_\_\_\_  
Date