

**STATE ELECTION COMMISSION
AGENDA
January 16, 2019
10:00 a.m.**

1122 Lady Street, Suite 500
Columbia, South Carolina 29201

THE MEETING OF THE STATE ELECTION COMMISSION IS BEING HELD PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED NOTIFICATIONS HAVE BEEN MADE.

Approval of Minutes: December 19, 2018 (SEC)

New Business:

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

Office of State Auditor – Audit of Agreed-Upon Procedures
Voting System Certification – ES&S Engineering Change Orders – DS850 and DS200
Statements of Economic Interests

Old Business:

Voting System Certification:

- Certification of ES&S ElectionWare Election Management System V.5.0.1.0, DS200 Precinct Scanner V. 2.17.0.0, DS850 Central Tabulator V. 3.1.0.0, DS450 Central Tabulator V. 3.1.0.0 and ExpressVote V. 2.4.0.0
- Certification of Hart InterCivic Verity Voting 2.3

Request for Proposals – Statewide Voting System

Legislative Update

Information Technology Security Update

Legal Update

- Eugene Baten v. Henry McMaster, et al.
- SEC v. James John Todd Kincannon
- Frank Heindel and Phil Leventis v. Marci Andino, SEC

MARCI ANDINO
Executive Director

1122 Lady Street
Suite 500
Columbia, SC 29201

P.O. Box 5987
Columbia, SC 29250

803.734.9060
Fax: 803.734.9366
www.scvotes.org

Next Meeting(s):

Friday, January 25, 2019 at 10 a.m. (SBC)
Wednesday, February 20, 2019 at 10:00 a.m. (SEC)

STATE ELECTION COMMISSION
MEETING MINUTES
January 16, 2019
10:00 a.m.

1122 Lady Street, 5th Floor
Columbia, SC 29201

Present: Mr. John Wells, Chairman; Mr. Clifford J. Edler, Ms. Amanda Loveday, Mr. Scott Moseley

Others Present: Marci Andino, Executive Director; Chris Whitmire, Director of Public Information and Training; Howard Snider, Director of Voter Services; Harrison Brant, General Counsel; Janet Reynolds, Director of Administration and Finance; Daylin Silber, Administrative Coordinator; JoAnne Day, League of Woman Voters

COMMISSIONERS

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AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

Chairman Wells called the meeting to order and asked if all notices of the meeting had been posted as required by the Freedom of Information Act. Ms. Andino advised the notices were posted.

Approval of Minutes

Chairman Wells stated the first item of business was the approval of the minutes for the meeting held on December 19, 2018 (SEC). Mr. Edler moved to approve the minutes. The motion was seconded by Mr. Moseley. The minutes were approved unanimously.

MARCI ANDINO
Executive Director

New Business

The first item of new business was the Audit of Agreed-Upon Procedures. Ms. Andino informed the Commissioners an audit of our agency's procedures is currently being conducted by the Office of State Auditor. She explained that this is a routine, yearly audit of accounts payables, procurement, travel, end of year closing packages and other procedures. She further informed the Commissioners they will receive a copy of the final report.

The next item was the approval of ES&S Engineering Change Orders for DS850 and DS200 scanners. Ms. Andino explained that the Election Assistance Commission deemed these changes to be *de minimus* meaning they do not have a significant impact on the certified voting system in S.C. and do not require further testing. Chairman Wells inquired as to how these scanners are used. Ms. Andino explained that they are used to scan paper ballots. She further explained that any change to the voting system

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generally has to undergo testing and certification, but these changes were so minor that testing is not required. Mr. Edler made a motion to approve the Change Orders, seconded by Mr. Moseley. The vote in favor of the motion was unanimous.

Statements of economic interests was the next item. Ms. Andino reminded the board members that state law requires each of them as members of a state commission to file with the State Ethics Commission a Statement of Economic Interests upon assuming the duties of their positions, and to file updated statements annually by March 30. She reminded the Commissioners that the 2019 updated State of Economic Interests are due no later than March 30, 2019.

Old Business

The first item of old business was voting system certifications. Ms. Andino advised that both the ES&S ElectionWare Election Management System V.5.0.1.0, DS200 Precinct Scanner V. 2.17.0.0, DS850 Central Tabulator V. 3.1.0.0, DS450 Central Tabulator V. 3.1.0.0 and ExpressVote V. 2.4.0.0 and the Hart InterCivic Verity Voting 2.3 have been submitted for state certification. The ES&S system will be tested during an election on February 19. A report with recommendations as to certification will be issued following the elections.

The next item was the RFP. Ms. Andino reminded the Commission that the RFP for the Statewide Voting System Solution was released on December 7, 2018. The RFP is open to any vendor with a system that meets federal certification requirements and has a paper record of each voter's voted ballot. Proposals are due March 4, 2019. Ms. Andino explained that the State Fiscal Accountability Authority will then review the proposals received for responsiveness and forward all responsive proposals to the evaluation committee for consideration.

Legislative update was the next item. Ms. Andino informed the Commissioners that the SEC tracks election related bills at the state and federal level including those related to early voting, voting systems, absentee voting, and election audits. One of the bills being tracked is U. S. House bill HR1 as well as other state legislation that has been introduced.

Information technology security update was the next item. Ms. Andino reported the SEC continues to take all reasonable measures to secure the state's election infrastructure. The SEC continues to participate in weekly scans performed by the Department of Homeland Security which have not discovered any new vulnerabilities. Ms. Andino advised letters have been sent to the counties regarding the Department of Homeland Security's physical security assessment of the counties. The SEC is also working with SLED to deploy sensors for county networks and encouraging all the counties to participate. The SEC has also provided secure email accounts to all counties which can scan emails and any attachments for viruses prior to opening.

The next item under old business was legal updates. Mr. Brant reported that in the case of Eugene Baten v. Henry McMaster, et al., a hearing was held on a co-defendant's motion to dismiss the suit and the parties are waiting for the judge's ruling. In the case of Frank Heindel, et al. v. Marci Andino, et al., he reported that a hearing was held yesterday, January 15, on the SEC's motion to dismiss and that the parties were told to expect a ruling in the next couple of weeks. There were no updates in the case of the SEC v. James John Todd Kincannon.

Mr. Wells reminded the members the next State Election Commission meeting will be February 20, 2019 at 10:00 a.m.

With no further business to be discussed, Mr. Moseley moved to adjourn the meeting. Mr. Edler seconded the motion. The motion passed unanimously, and the meeting adjourned.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Daylin Silber". The signature is written in a cursive, flowing style.

Daylin Silber

**STATE BOARD OF CANVASSERS
AGENDA
January 25, 2019
10:00 am**

1122 Lady Street, Suite 500
Columbia, South Carolina 29201

**THE MEETING OF THE STATE BOARD OF CANVASSERS IS BEING HELD
PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED
NOTIFICATIONS HAVE BEEN MADE.**

New Business:

Certification of the results of the State Senate District 6 Republican Primary held on Tuesday,
January 22, 2019.

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

Items may be added as necessary.

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MEETING MINUTES
January 25, 2019
10:00 a.m.

1122 Lady Street, 5th Floor
Columbia, SC 29201

Present: Mr. John Wells, Chairman; Mr. Clifford J. Edler (via teleconference), Ms. Amanda Loveday, Mr. Scott Moseley (via teleconference)

Others Present: Marci Andino, Executive Director; Daylin Silber, Administrative Coordinator

THE MEETING OF THE STATE BOARD OF CANVASSERS WAS HELD PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED NOTIFICATIONS WERE MADE.

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

Chairman Wells called the meeting of the State Board of Canvassers (SBC) to order. Ms. Andino stated all notices of the meeting had been posted as required by the Freedom of Information Act.

Ms. Andino gave a broad overview of what happens from the time the polls open on election until certification by the state.

Mr. Wells stated that the purpose of the meeting was the certification of the results of the State Senate District 6 Republican Primary held on Tuesday, January 22, 2019.

MARCI ANDINO
Executive Director

Ms. Loveday made a motion to certify the results. It was seconded by Mr. Moseley. The motion was approved unanimously. The results were certified.

There being no further business, Mr. Moseley made a motion to adjourn the meeting. It was seconded by Ms. Loveday. The motion was approved unanimously. The meeting was adjourned.

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Respectfully submitted,



Daylin Silber,
Administrative Coordinator

OATH OF STATE BOARD OF CANVASSERS

We, the State Board of Canvassers, hereby certify the following as the whole number of votes cast in the State Senate District 6 Republican Primary held in Greenville County on January 22, 2019.

Candidate	TOTAL	PERCENT
Amy Ryberg Doyle	2,569	40.35%
Dwight A. Loftis	3,528	55.41%
Jeffrey Stringer	270	4.24%

John Wells, Chairman

Cliff Edler

Amanda Loveday

Scott Moseley

STATE BOARD OF CANVASSERS

Dated this 25th day of January 2019.

STATE ELECTION COMMISSION

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Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Daylin Silber".

Daylin Silber



December 18, 2018

Sent Via Email

Ms. Marci Andino
 Executive Director
 South Carolina State Election Commission
 1122 Lady Street; Suite 500
 Columbia, SC 29201

RE: Notification of Engineering Change Orders (ECOs)

Dear Ms. Andino:

Pursuant to Election Systems & Software, LLC (ES&S) company policy and South Carolina statutes, notice of Engineering Change Orders (ECO) to state certified hardware components are being provided to the South Carolina State Election Commission. All ECOs are reviewed by an Election Assistance Commission (EAC) accredited Voting System Testing Laboratory (VSTL) for conformance to the Voluntary Voting System Guidelines (VVSG) prior to any state being notified of a particular modification.

Recently, ES&S submitted three ECOs to the VSTL for their review. Below is a table displaying the ECO number, description of change, and the VSTL resolution of the ECO. Modifications that are determined to be *De Minimis* are defined by the EAC as a modification that requires no additional testing or certification because the change is minor in nature and has no impact on the systems operation.

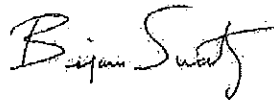
ES&S ECO #	ECO Description of Change	VSTL Resolution
950	<p>DS850 - Added 2nd Screw to Reverse Belt Pulley <u>Summary:</u> ECO 950 added a second screw to the reverse belt pulley for improved attachment to the drive shaft in order to ensure and/or prevent pulley from coming loose during operation.</p> <p>NTS reviewed ECO 950 and determined it to be De Minimis per section 3.4 of the EAC Voting System Testing and Certification Program Manual, Version 2.0.</p>	<p>De Minimis 09/23/2016</p>
983	<p>DS200 Texture Free Area for Security Seals <u>Summary:</u> ECO 983 adds texture free areas across exterior housing seams on the DS200 in order to place security seals on the exterior of the DS200.</p> <p>Pro V&V reviewed ECO 983 and determined the modification will not adversely affect any system functions. No additional testing required.</p>	<p>De Minimis 12/12/18</p>

ES&S ECO #	ECO Description of Change	VSTL Resolution
1005	<p><i>Second Source for Report Printer on DS850</i></p> <p><u>Summary:</u> The certified Okidata B431D and B431DN laser printers used for the dedicated report printer on the DS850 has gone end-of-life. ECO 1005 allows the Okidata B432DN printer to be a second source report printer on the DS850.</p> <p>Pro V&V reviewed ECO 1005 and determined that the replacement printer will not adversely affect any system functions. The replacement printer is similar/equivalent in technical characteristics and will not negatively impact the system. No additional testing is required.</p>	De Minimis 12/12/18

ES&S respectfully requests shortly after receiving this letter, the South Carolina State Election Commission provide written approval of the ECOs presented in this correspondence. Please be advised that certain orders may be suspended until approval of the ECOs being submitted is obtained by ES&S.

If you require additional information, please do not hesitate to contact me at 402-970-1143 or via email at brswartz@essvote.com.

Sincerely,



Benjamin Swartz
Sr. State Certification Manager
Election Systems & Software, LLC

Attachments:

- 20181218_SC ECO Submission.pdf
- ECO950_VSTL Approval.pdf
- ECO983_VSTL Approval.pdf
- ECO1005_VSTL Approval.pdf

**NTS**

WE ENGINEER SUCCESS

HUNTSVILLE OPERATIONS

ENGINEER CHANGE ORDER ANALYSIS FORM		DATE: 9/22/2018
CUSTOMER:	ES & S	
NTS JOB NO:	PR043774	
ECO NO:	ECO 960	
SUBMISSION DATE:	9/22/2016	NOTIFICATION BY: Sue McKay
PRODUCT:	DS850	
HARDWARE REV LEVEL:	1.0	
ECO DESCRIPTION:	Added a second set screw to the reverse belt pulley	
REASON FOR CHANGE:	Improved attachment to drive shaft to prevent pulley from coming loose during operation.	
ENGINEERING ANALYSIS:	De Minimis	
ENGINEERING RECOMMENDATION:		
<p>Affected systems: Federal: EVS 5000, EVS 5010, EVS 5200, EVS 5203, EVS 5210, EVS 5211, Unity 3400, Unity 3410, Unity 3414</p> <p>State: FL EVS 4030 Ver2, FL EVS 4500 Ver4, FL EVS 4520, EVS 5002, EVS 5004, EVS 5100, EVS 5110, EVS 5201, EVS 5202, EVS 5300, EVS 5303, EVS 5310, EVS 5601, EVS 5602, IL EVS 5300, Unity 3301, Unity 3401, Unity 3411</p> <p>NTS reviewed the submitted ECO and supporting materials. The addition of the second set screw does not negatively affect the operation of the DS850. NTS has determined the change to be De Minimis per section 3.4 of the EAC Voting System Testing and Certification Program Manual, Version 2.0.</p>		
ENGINEER:	<i>Charles Montgomery</i> 9-23-16 Charles Montgomery	APPROVER: <i>James Long</i> 9-25-16 James Long
TRANSMITTED:	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	TRANSMITTED TO: Sue McKay
CUSTOMER APPROVAL:	<i>Sue McKay</i>	

PRO V&V



ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

Manufacturer:	Election Systems & Software (ES&S)
System:	DS200, Hardware 1.3.10.0
ECO Number:	983
ECO Description:	Modified DS 200 housing to add texture free areas across exterior housing seams for security seals

Overview:

Texture free areas were added to the DS200 across exterior housing seams for security seals.

Systems Affected:

EVS 5000, EVS 5010, EVS 5200, EVS 5203, EVS 5204, EVS 5210, EVS 5211, EVS 5220, EVS 5230, EVS 5240, EVS 5400, EVS 5410, EVS 6000
Federal: EVS 5000, EVS 5010, EVS 5200, EVS 5203, EVS 5204, EVS 5210, EVS 5211, EVS 5220, EVS 5230, EVS 5240, EVS 5400, EVS 5410, EVS 6000
State: FL EVS 4500 Ver. 4, FL EVS 4520, FL EVS 4530 Ver. 1, EVS 5002, EVS 5003 Rev. 1, EVS 5004, EVS 5100, EVS 5110, EVS 5201, EVS 5202, EVS 5300, EVS 5303, EVS 5310, EVS 5320, EVS 5321, EVS 5330, EVS 5340, EVS 5501, EVS 5502, EVS 5601, EVS 5602, EVS 6010, IL EVS 5300

Supporting Documentation:

ECO-983 Signed.pdf

Engineering Recommendation:

Technical documentation review performed to approve change. Per ES&S, DS 200 housings can be retrofit in the field as required. Pro V&V determined that the modification will not adversely affect any system functions. No form changes should affect part fit. No additional testing required.

Engineering Analysis: De Minimis

Reviewer:

Wendy Owens

Printed Name

Wendy Owens

Signature

12/12/18

Date

Approver:

Michael L. Walker

Printed Name

Michael L. Walker

Signature

12/12/18

Date

Engineering Change Order

ECO# 983	Requested by Kevin Liesner	Date: 7/9/2018
Model DS200	Product Line Engineer Derek Caviness	Rev: A

Description of Change:
 In layman's terms, itemize and describe what the change is. For example, "Add shift beneath the end of the USB mounting bracket."

Reason For Change:
 In layman's terms, itemize and describe the requirement that is not being met. For example, "Shift increases the engagement of the back-up USB stick."

ECO Notes
 Related ECOs, Temporary Deviations, Field Retrofit, etc.

Certification Impact
 Impact on hardware configuration, list of tests performed, recommended federal cert strategy, approach to state cert (N.E.W.S).

1. Add texture free areas across exterior housing seams for security seals.

1. Additional security is becoming a market expectation, beginning with California.

ECO Category: Modify an Existing Part or Assembly

1. Related ECOs: N/A
2. Temporary Deviations (in-process Production): N/A
3. Field Retrofit: Housings can be retrofit in the field as required Yes No List: _____
4. Mod to the Mfg Prep Pkcs or QC Checklist required? Yes No
5. Internal Retrofit (Cert & Training Equipment): HW Engineering to update Cert, QA and Training units

1. Hardware Configuration: 1.3.10.0
2. Internal Testing Performed: Material will be tested for form/function when samples arrive week 2, October 2018. No form changes should affect part fit.
3. Submit to VSTL: Yes No
4. Affected Systems: EVS5000, EV5010, EVS5000, EV5010, EVS5200, 5203, 5204, 5210, 5211, 5220, 5230, 5240, 5400, 5410, 6000
 Federal: EVS 5000, EVS 5010, EVS 5200, EVS 5203, EVS 5204, EVS 5210, EVS 5211, EVS 5220, EVS 5230, EVS 5240, EVS 5400, EVS 5410, EVS 6000
 State: FL EVS 4500-Ver 4, FL EVS 4520, FL EVS 4530 Ver 1, EVS 5002, EVS 5003 Rev 1, EVS 5004, EVS 5100, EVS 5110, EVS 5201, EVS 5202, EVS 5300, EVS 5305, EVS 5310, EVS 5320, EVS 5321, EVS 5330, EVS 5340, EVS 5501, EVS 5502, EVS 5601, EVS 5602, EVS 6010, IL EVS 5500
5. Federal Cert Strategy: Click here to enter text.
6. State Cert Strategy: Click here to enter text.

Test to: <input checked="" type="checkbox"/> 1.0 VVSG Standards	Quality Assurance: <input checked="" type="checkbox"/>
MANUFACTURING: <i>[Signature]</i>	DATE: 10/10/2018

MATERIALS MANAGEMENT: <i>[Signature]</i>	DATE: 10-10-18
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Engineering Change Order

Part Specific Changes:

PLM Documentation & Pivot Production

ES&S Bin Number & Omaha Inventory

Include order qty and re-buy levels for new parts.
Notify order entry as applicable.

REVISED PARTS
Include the part number, title, and brief description of the change. In addition, provide direction on what should be done with existing material, what locations are affected by this change, and what is the new part revision

- 01-098-00041 - ASSY Final DS200 Hardware Revision 1.3; Add texture free areas to the plastic parts (config change FNs 7, 8, 10, 14, 15, and 45); Break-in change as part of production build 1.3.10; Rev goes to P
- 01-097-00272 - ASSY MECH DS200 Display LCD/TS: Add texture free areas (config change FNs 1 & 3), Balance change w/ bottom housing (59-00353), Rev goes to F.
- 01-059-00026 - HSG DS200 LCD BEZEL PC/ABS: Add texture free areas, Balance change w/ bottom housing (59-00353), Rev goes to D.
- 01-059-00028 - CVR DS200 LCD PC/ABS: Add texture free areas, Balance change w/ bottom housing (59-00353), Rev goes to F.
- 01-059-00029 - CVR DS200 FRONT PC/ABS: Add texture free areas, Balance change w/ bottom housing (59-00353), Rev goes to G.
- 01-059-00030 - CVR DS200 SWITCH DOOR PC/ABS: Add texture free areas, Balance change w/ bottom housing (59-00353), Rev goes to C.
- 01-059-00034 - CVR DS200 PEB DOOR PC/ABS: Add texture free areas, Balance change w/ bottom housing (59-00353), Rev goes to D.
- 01-059-00353 - HSG DS200 BOTTOM PC/ABS: Add texture free areas, Use up existing, Rev goes to D.
- 01-059-00524 - CVR DS200 REAR w/BATT Hole EMI Coating PC/ABS: Add texture free areas, Balance change w/ bottom housing (59-00353), Rev goes to B.

OBSOLETE PARTS

Include the part number, title, and disposition.

Click here to enter text.

NEW PARTS

Include the part number, title, who is procuring the part.

Click here to enter text.

67500 - DS200(i) Digital Precinct Scanner Paper Tabulator V1.3	
59-00029 - DS2, Cover, Front (47 in stock)	
59-00030 - DS2, Door, Switch (597 in stock)	
59-00034 - DS2, Door, PEB (693 in stock)	
59-00353-02 - DS2, Base Plastic, 1.3, No Feet (19 in stock)	
59-00524-01 - DS2, Top Rear Housing (0 in stock)	
2316 - DS2, COVER, FRONT, use up stock.	
2244 - DS2, DOOR, SWITCH, use up stock	
2295 - DS2, DOOR, PEB, use up stock	
59-00353-01 - DS2, BASE PLASTIC, 1.3, NO FEET, use up stock	
59-00524 - DS2, TOP REAR HOUSING w/EMI, use up stock	
59-00029 - DS2, Cover, Front, ES&S procures	
59-00030 - DS2, Door, Switch ES&S procures	
59-00034 - DS2, Door, PEB ES&S procures	
59-00353-02 - DS2, Base Plastic, 1.3, No Feet, ES&S procures	
59-00524-01 - DS2, Top Rear Housing, ES&S procures	

Engineering Change Order

<p>DRAWING CORRECTIONS Drawing changes that are not related to any part changes listed above.</p>		<p>Click here to enter text.</p>
<p>Click here to enter text.</p>	<p>Click here to enter text.</p>	<p>Click here to enter text.</p>
<p>QUALITY Vince Wingate <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Ignore</p>	<p>FIELD SERVICES Al Moraczewski <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Ignore</p>	<p>FULFILLMENT Lee McDermott <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Ignore</p>
<p>PRODUCT MANAGEMENT Mike Dvorak <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Ignore</p>	<p>CERTIFICATION Sue McKay <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Ignore</p>	<p>MATERIAL MANAGEMENT Stan Allen <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Ignore</p>
<p>SUSTAINING ENGINEERING Derek Caviness <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Ignore</p>	<p>PRODUCT LINE ENGINEER Derek Caviness <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Ignore</p>	<p>Dir. of Hardware Engineering Kevin Liesner <input checked="" type="checkbox"/> Approve <input type="checkbox"/> Ignore</p>

PRO V&V



ENGINEER CHANGE ORDER (ECO) ANALYSIS FORM

Manufacturer: Election Systems & Software (ES&S)

System: EVS (DS850 Component)

ECO Number: 1005

ECO Description: Replacing End-of-Life (EOL) component

Overview:

The Okidata B431D & B431DN laser printers have gone end of life. ES&S has added an alternate report printer (Okidata B432DN) to replace the end of life models. The replacement model is backward compatible with all listed end of life models.

Systems Affected:

Federal: EVS 5000, EVS 5010, EVS 5200, EVS 5203, EVS 5204, EVS 5210, EVS 5211, EVS 5200, EVS 5210, EVS 5211, EVS 5220, EVS 5230, EVS 5240, EVS 6000, EVS 6020

State: FL EVS 4500 Ver. 4, FL EVS 4520, FL EVS 4530 Ver. 1, EVS 5002, EVS 5004, EVS 5100, EVS 5110, EVS 5201, EVS 5202, EVS 5300, EVS 5303, EVS 5310, EVS 5320, EVS 5321, EVS 5330, EVS 5340, EVS 6010

Supporting Documentation:

ECO-1005.docx

ess181203b_prnt Old UPS with 432 Printer passing.pdf

ess181205Z_prnt DS 850 OLD UPS 432 printer.pdf

Engineering Recommendation:

Technical documentation review performed to approve change. Pro V&V determined that the replacement printer will not adversely affect any system functions. The replacement printer was tested by ES&S and found to be compatible. The replacement printer is similar/equivalent in technical characteristics and will not negatively impact the system. No additional testing required.

Engineering Analysis: De Minimis

Reviewer:

Wendy Owens
Printed Name

Wendy Owens
Signature

12/12/18
Date

Approver:

Michael L. Walker
Printed Name

Michael L. Walker
Signature

12/12/18
Date

Engineering Change Order

ECO# 1005	Requested by Adam Krajicek	Date: 12/7/2018
Model DS850	Product Line Engineer Adam Krajicek	Rev: A

Description of Change:
 In layman's terms, itemize and describe what the change is. For example, "Add shim beneath the end of the USB mounting bracket."

1. Add alternate report printer - OKIDATA B432DN.

Reason For Change:
 In layman's terms, itemize and describe the requirement that is not being met. For example, "Shim increases the engagement of the back-up USB stick."

1. OKI B431D and OKI B431DN has gone end of life.
 ECO Category: EOL Part Replacement

ECO Notes
 Related ECOs, Temporary Deviations, Field Retrofit, etc.

1. Related ECOs: ECO-1004
 2. Temporary Deviations (in-process Production): N/A
 3. Field Retrofit: OKI B432DN is backward compatible with OKI B431D and OKI B431DN
 4. Mod to the Mfg Prep Procs or QC Checklist required? Yes No List:
 5. Internal Retrofit (Cert & Training Equipment): Cert and QA will have updated printers installed.

Certification Impact
 Impact on hardware configuration, list of tests performed, recommended federal cert strategy, approach to state cert (N.E.W.S).

1. Hardware Configuration: 1.0
 2. Internal Testing Performed: Printers have been tested by HW Engineering and confirmed to be compatible with current DS850 FW versions.
 3. Submit to VSTL: Yes No
 4. Affected Systems: Click here to enter text.
 Federal: EVS 5000, EVS 5010, EVS 5200, EVS 5203, EVS 5204, EVS 5210, EVS 5211, EVS 5200, EVS 5210, EVS 5211, EVS 5230, EVS 5230, EVS 5240, EVS 6000, EVS 6020
 State: FL EVS 4500 V4, FL EVS 4520, FL EVS 4530 V1, EVS 5002, EVS 5004, EVS 5100, EVS 5110, EVS 5201, EVS 5202, EVS 5300, EVS 5303, EVS 5310, EVS 5320, EVS 5321, EVS 5330, EVS 5340, EVS 6010.
 Test to: V 1.0 VWSG Standards

MATERIALS MANAGEMENT: -	QUALITY ASSURANCE: -
DATE: -	DATE: -

Engineering Change Order

Part Specific Changes:

PLM Documentation & Pivot Production

ES&S Bin Number & Omaha Inventory

Include order qty and re-buy levels for new parts.
Notify order entry as applicable.

REVISED PARTS

Include the part number, title, and brief description of the change. In addition, provide direction on what should be done with existing material, what locations are affected by this change, and what is the new part revision

Click here to enter text.

Order Entry/Decipherer: Replace printer 6827 - DS850, PRINTER OKIDATA B431DN with 9200 - DS450/DS850 PRINTER, OKI B432DN.

Demo Transfer Request Form: Replace 6827-10 DS850, PRINTER OKI B431D DN Refrb with Okf Report Printer 9200.

OBSOLETE PARTS

Include the part number, title, and disposition

Click here to enter text.

6827 - DS850, PRINTER OKIDATA B431DN, remains supported by ES&S, continue to use as available.

NEW PARTS

Include the part number, title, who is procuring the part.

Click here to enter text.

9200 - DS450/DS850 PRINTER, OKI B432DN, ES&S to procure.

DRAWING CORRECTIONS

Drawing changes that are not related to any part changes listed above.

Click here to enter text.

Click here to enter text.

QUALITY

Bill Keeler

Approve

Ignore

FIELD SERVICES

Al Moraczewski

Approve

Ignore

FULFILLMENT

Lee McDermott

Approve

Ignore

PRODUCT MANAGEMENT

Mike Dvorak

Approve

Ignore

CERTIFICATION

Sue McKay

Approve

Ignore

MATERIAL MANAGEMENT

Stan Allen

Approve

Ignore

SUSTAINING ENGINEERING

Derek Caviness

Approve

Ignore

PRODUCT LINE ENGINEER

Adam Krajicek

Approve

Ignore

Dir. of Hardware Engineering

Kevin Liesner

Approve

Ignore

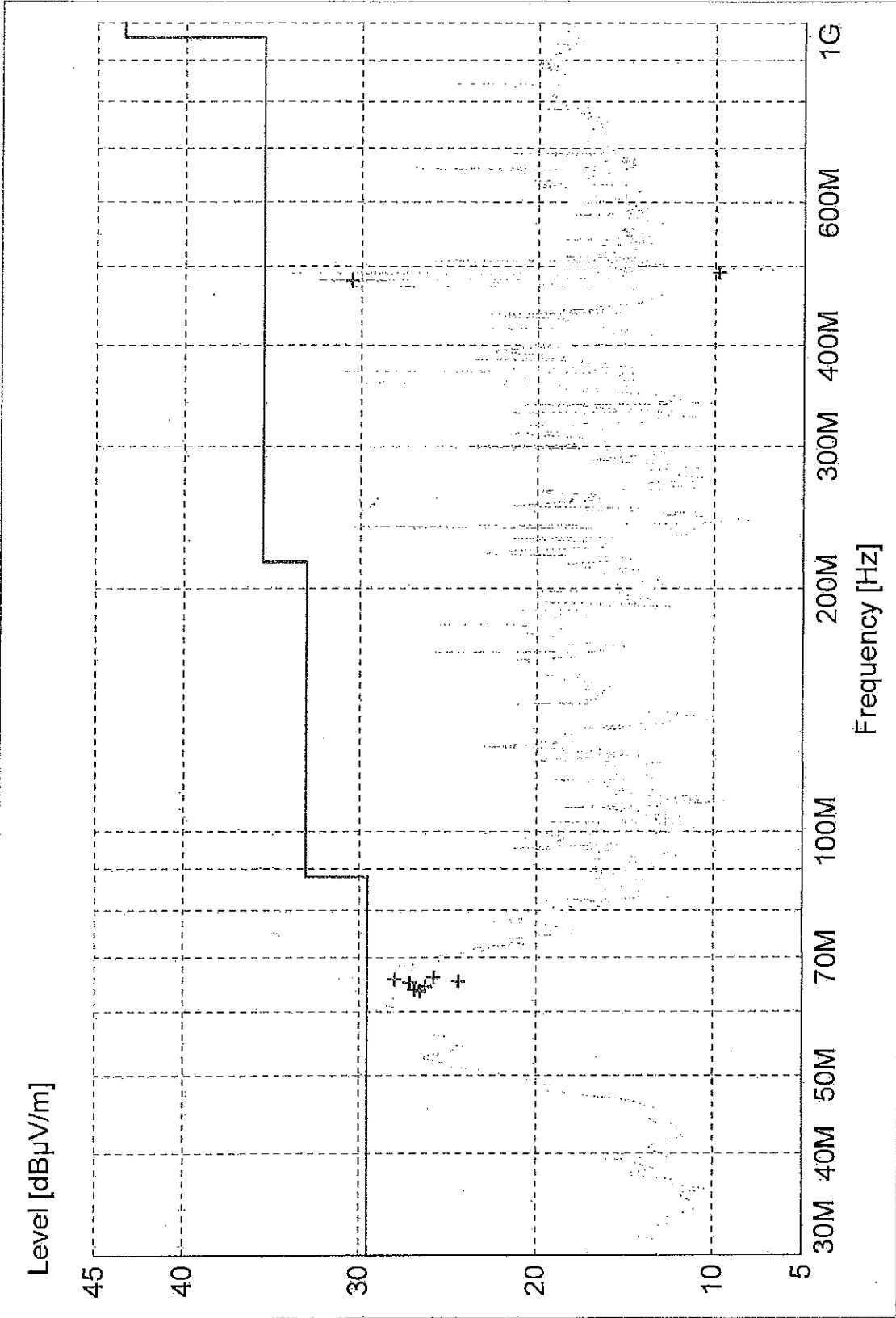
Radiated Emissions

MTO:

EUT: DS 850
Manufacturer: ESS
Operating Condition: 120 VAC 60 Hz
Test Site: NCEE, tp2, R&S ESI26, Biconlog 47 w PA LF
Operator: KV
Test Specification: class B
Comment:
Start of Test: 12/3/2018 / 8:59:56AM

SCAN TABLE: "EN 55011 Ed fin wPA"

Short Description: EN 55011 Field Strength fin PA
Unit: dBpV/m
Detector: Mode:
Curve 1: QuasiPeak ClearWrite
Curve 2: Average ClearWrite



+ + MES ess181203b_fin
 MES ess181203b_pre PK
 — LIM FCC ClassB F 10m QP FCC ClassB, field strength 10m

MEASUREMENT RESULT: "ess181203b_fin"

12/3/2018 9:30AM

Frequency MHz	Level dBpV/m	Measured dBpV	Transd dB	Cables dB	Limit dBpV/m	Margin dB	Height cm	Angle deg	Pol.
63.600000	26.56	48.55	6.6	28.6	29.5	3.0	323.0	174	VERT
63.840000	26.88	48.90	6.6	28.6	29.5	2.7	276.0	321	VERT
64.440000	26.27	48.32	6.6	28.6	29.5	3.3	283.0	354	VERT
65.160000	27.13	49.19	6.6	28.7	29.5	2.4	350.0	318	VERT
65.340000	24.37	46.42	6.6	28.7	29.5	5.2	350.0	207	VERT
65.760000	27.98	50.04	6.6	28.7	29.5	1.6	349.0	138	VERT
66.180000	25.79	47.86	6.6	28.7	29.5	3.7	339.0	0	VERT
480.040000	30.52	38.22	18.4	26.1	35.5	5.0	399.0	225	VERT
491.500000	9.76	17.46	18.4	26.1	35.5	25.8	150.0	13	HORI

Conducted Emissions

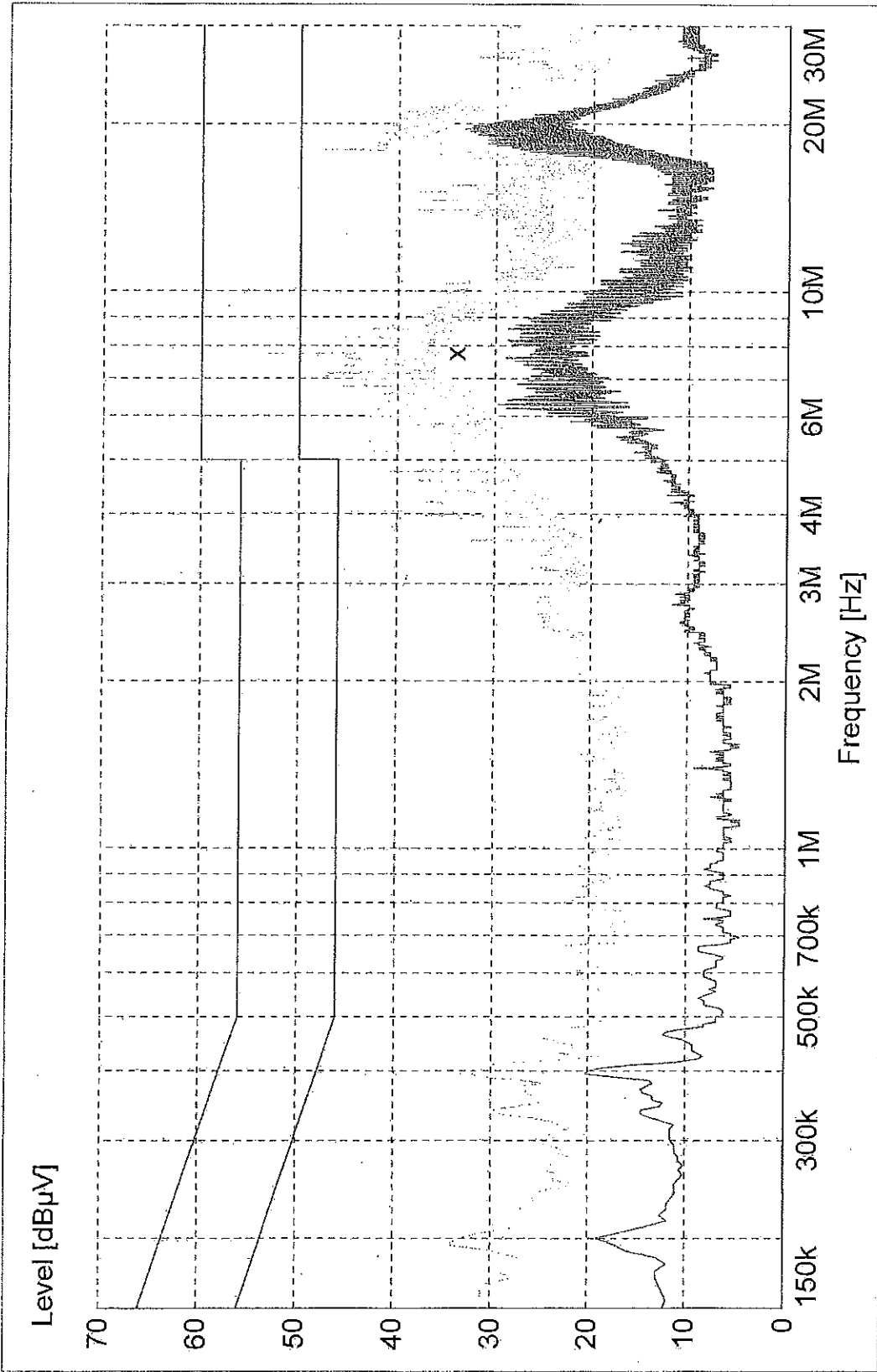
MTO:

EUT: DS 850
Manufacturer: ESS
Operating Condition: 120 VAC 60 Hz
Test Site: Vertical Grnd
Operator: KV
Test Specification: class B
Comment:
Start of Test: 12/5/2018 / 3:37:11PM

SCAN TABLE: "EN 55011 Voltage Fin"

Short Description: EN 55011 Voltage
Unit: dBuV

Detector: Mode:
Curve 1: QuasiPeak ClearWrite
Curve 2: Average ClearWrite



x x : MES ess181205Z_fin QP
 MES ess181205Z_pre PK
 MES ess181205Z_pre AV
 LIM EN 55022 V_QP
 LIM EN 55022 V_AV
 Voltage QP Limit
 Voltage AV Limit

MEASUREMENT RESULT: "ess181205Z_fin QP"

12/5/2018 3:50PM

Frequency MHz	Level dBpV	Measured dBpV	Transd dB	Cables dB	Limit dBpV	Margin dB	Line	PE
7.755000	34.10	23.47	0.3	10.4	60	25.9	N	GND

**STATE BOARD OF CANVASSERS
AGENDA
January 25, 2019
10:00 am**

1122 Lady Street, Suite 500
Columbia, South Carolina 29201

**THE MEETING OF THE STATE BOARD OF CANVASSERS IS BEING HELD
PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED
NOTIFICATIONS HAVE BEEN MADE.**

New Business:

Certification of the results of the State Senate District 6 Republican Primary held on Tuesday,
January 22, 2019.

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

Items may be added as necessary.

MARCI ANDINO
Executive Director

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STATE BOARD OF CANVASSERS
MEETING MINUTES
January 25, 2019
10:00 a.m.

1122 Lady Street, 5th Floor
Columbia, SC 29201

Present: Mr. John Wells, Chairman; Mr. Clifford J. Edler (via teleconference), Ms. Amanda Loveday, Mr. Scott Moseley (via teleconference)

Others Present: Marci Andino, Executive Director; Daylin Silber, Administrative Coordinator

THE MEETING OF THE STATE BOARD OF CANVASSERS WAS HELD PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED NOTIFICATIONS WERE MADE.

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

Chairman Wells called the meeting of the State Board of Canvassers (SBC) to order. Ms. Andino stated all notices of the meeting had been posted as required by the Freedom of Information Act.

Ms. Andino gave a broad overview of what happens from the time the polls open on election until certification by the state.

Mr. Wells stated that the purpose of the meeting was the certification of the results of the State Senate District 6 Republican Primary held on Tuesday, January 22, 2019.

MARCI ANDINO
Executive Director

Ms. Loveday made a motion to certify the results. It was seconded by Mr. Moseley. The motion was approved unanimously. The results were certified.

1122 Lady Street
Suite 500
Columbia, SC 29201

There being no further business, Mr. Moseley made a motion to adjourn the meeting. It was seconded by Ms. Loveday. The motion was approved unanimously. The meeting was adjourned.

P.O. Box 5987
Columbia, SC 29250

Respectfully submitted,

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Daylin Silber,
Administrative Coordinator

OATH OF STATE BOARD OF CANVASSERS

We, the State Board of Canvassers, hereby certify the following as the whole number of votes cast in the State Senate District 6 Republican Primary held in Greenville County on January 22, 2019.

Candidate	TOTAL	PERCENT
Amy Ryberg Doyle	2,569	40.35%
Dwight A. Loftis	3,528	55.41%
Jeffrey Stringer	270	4.24%

John Wells, **Chairman**

Cliff Edler

Amanda Loveday

Scott Moseley

STATE BOARD OF CANVASSERS

Dated this 25th day of January 2019.

**STATE ELECTION COMMISSION
AGENDA**

**February 20, 2019
10:00 a.m.**

1122 Lady Street, Suite 500
Columbia, South Carolina 29201

**THE MEETING OF THE STATE ELECTION COMMISSION IS BEING HELD
PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED
NOTIFICATIONS HAVE BEEN MADE.**

Approval of Minutes: January 16, 2019 (SEC) and January 25, 2019 (SBC)

New Business:

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

County Compliance – Bamberg and Richland

Voting System Certification – Dominion Voting – Democracy Suite 5.5, Election Management System (EMS) v5.5.12.1, Adjudication (ADJ) v5.5.8.1, ImageCast Precinct (ICP) v5.5.3.0002, ImageCast X Ballot Marking Device (ICX BMD) v5.5.10.25, ImageCast X Direct Record Electronic (ICX DRE).v5.5.10.25

Statements of Economic Interests

Old Business:

Voting System Certification:

- Certification of ES&S ElectionWare Election Management System V.5.0.1.0, DS200 Precinct Scanner V. 2.17.0.0, DS850 Central Tabulator V. 3.1.0.0, DS450 Central Tabulator V. 3.1.0.0 and ExpressVote V. 2.4.0.0
- Certification of Hart InterCivic Verity Voting 2.3

MARCI ANDINO
Executive Director

Request for Proposals – Statewide Voting System

Legislative Update

Information Technology Security Update

Legal Update

Eugene Baten v. Henry McMaster, et al.

SEC v. James John Todd Kincannon

Frank Heindel and Phil Leventis v. Marci Andino, SEC

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Next Meeting(s):

Wednesday, March 20, 2019 at 10:00 a.m. (SEC)

STATE ELECTION COMMISSION
MEETING MINUTES
February 20, 2019
10:00 a.m.

1122 Lady Street, 5th Floor
Columbia, SC 29201

Present: Mr. John Wells, Chairman; Mr. Clifford J. Edler, Ms. Amanda Loveday, Mr. Scott Moseley

Others Present: Marci Andino, Executive Director; Chris Whitmire, Director of Public Information and Training; Howard Snider, Director of Voter Services; Harrison Brant, General Counsel; Barbara Pittelli, Fiscal Tech; Daylin Silber, Administrative Coordinator; JoAnne Day, League of Woman Voters

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

Chairman Wells called the meeting to order. Mr. Whitmire advised all notices of the meeting had been posted as required by the Freedom of Information Act.

Approval of Minutes

Chairman Wells stated the first item of business was the approval of the minutes for the meetings held on January 16, 2019 (SEC) and January 25, 2019 (SBC). Mr. Moseley moved to approve the minutes. The motion was seconded by Mr. Edler. The minutes were approved unanimously.

New Business

The first item of new business was county compliance. Mr. Whitmire advised two counties certified incorrect results during the 2018 General Election, Bamberg and Richland Counties. He explained that because certified election results cannot be corrected after the statutory certification deadline, the SEC asks county boards to publicly acknowledge any errors. The SEC documents any corrections in the tabulated results from a county in the audit files posted on its website for all elections.

With regards to Bamberg County, Mr. Whitmire explained the new county director accidentally excluded absentee ballots from the results. The error was discovered in late November and did not impact the outcome of the election with regards to any office. The results were documented and published on the SEC website. Mr. Whitmire further advised that the county director will be required to undergo additional training.

Regarding Richland County's incorrect results, Mr. Whitmire advised the error was found in late November and it occurred in both absentee and physical precincts. The

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results from two machines used for absentee voting at the Richland County Voter Registration and Elections office, as well as from some machines at the Ward 32 and Rice Creek 1 precincts, were not included in the results. The error likewise did not affect the outcome of any particular contest, and the corrected results have been published on the SEC's website. Chairman Wells asked if the errors resulted from any machine failures or malfunctions. Mr. Whitmire responded in the negative, explaining that the incorrect results were attributed to human error and the failure to follow established processes and procedures.

Chairman Wells noted that the director for Richland County recently resigned and its board was subsequently removed by the Governor. The Chairman stated the Commission wants to ensure the SEC does what it can to assist the Richland County Board through this transitional period. Ms. Andino advised that staff training is the SEC's key focus since they are the ones who conduct the elections. She added that all new board members must receive basic training within thirty days of appointment and then complete additional training to obtain certification from the SEC to conduct elections. The SEC will work closely with Richland County and make training available to them on a priority basis.

The next item was the certification of Dominion's Voting Democracy Suite 5.5 voting system. Testing for this system is still on-going and will be included in the next meeting's agenda under "old business."

Statements of Economic Interests was the next item. Ms. Andino reminded the Commission members that state law requires each of them to annually file an updated statement with the State Ethics Commission no later than March 30th.

Old Business

The first item of old business was voting system certifications. Ms. Andino advised that ES&S's EVS 6.0.2.0 voting system completed SEC testing and was used in a field test election in Darlington County on February 19, 2019. She also advised the Hart InterCivic Verity Voting 2.3 voting system completed SEC testing and will be used in a field test election in Fairfield County on March 5, 2019. The written reports with recommendations as to certification will be issued and discussed with the Commission next month.

The next item was the Statewide Voting System Solution RFP. Ms. Andino advised this is a solutions based RFP and proposals are due March 4, 2019. She stated the new statewide voting system must be certified as meeting the requirements of federal voting system standards, must receive state certification for use in South Carolina, and must have a paper record of each voter's voted ballot. Ms. Andino confirmed the State Fiscal Accountability Authority is managing the procurement of the statewide voting system. A procurement officer was assigned in the summer of 2018 and the RFP was released on December 7, 2018. The procurement officer will review all proposals for responsiveness before they are forwarded to

the evaluation panel. The panel members will review the proposals to determine the best system for the state. The panel will be comprised of a diverse group of county and state election officials from various sized counties and with varying degrees of experience. They will be sequestered in order to protect this process, receiving input only from subject matter experts on the subjects of accessibility and security. The system is expected to be procured with a contract effective July 1, 2019, and ready for use in all elections after January 1, 2020.

Legislative update was the next item. Ms. Andino advised that the budget is currently in the House Ways and Means Committee. The SEC requested \$60 million in order to replace the statewide voting system. Ms. Andino also advised that H.3031, which would change the voter registration deadline from 30 to 25 days prior to an election, is moving through the House. She explained that under the current law the deadline to register varies by method of registration as the 30th day may fall on a Sunday followed by a national holiday.

Information technology security update was the next item. Ms. Andino advised that the Department of Homeland Security's weekly scans have found no vulnerabilities since January 12, 2019. She reported the SEC continues to work with the counties to try to engage board members and staff on security issues and offers classes. The SEC continues to work with counties on vulnerabilities previously discovered through the Department of Homeland Security scans. Ms. Andino also advised the SEC is also working with SLED to ensure all county election networks have intrusion detection sensors which share data with the Multi-State Information Sharing & Analysis Center (MS-ISAC). She explained that MS-ISAC is a multi-state organization that analyzes security data from all states and shares pertinent information with member states.

The next item under old business was legal updates. Mr. Brant reported that in the case of Frank Heindel, et al. v. Marci Andino, et al., the federal district court granted the SEC's motion to dismiss the plaintiffs' suit for lack of standing. Updates will be provided at future meetings with regards to any motion for reconsideration or appeal filed. He also reported there are no updates in the case of Eugene Baten v. Henry McMaster, et al., or in the case of the SEC v. James John Todd Kincannon.

Mr. Wells reminded the members the next State Election Commission meeting will be March 20, 2019 at 10:00 a.m. and there will be a State Board of Canvassers meeting on Friday, February 22, 2019 at 10:00 a.m.

With no further business to be discussed, Ms. Lovejoy moved to adjourn the meeting. Mr. Edler seconded the motion. The motion passed unanimously, and the meeting adjourned.

Respectfully submitted,

Daylin Silber 

STATE BOARD OF CANVASSERS
AGENDA
February 22, 2019
10:00 am

1122 Lady Street, Suite 500
Columbia, South Carolina 29201

THE MEETING OF THE STATE BOARD OF CANVASSERS IS BEING HELD PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED NOTIFICATIONS HAVE BEEN MADE.

New Business:

Certification of the results of the State House District 14 Primaries held on Tuesday, February 19, 2019.

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

Items may be added as necessary.

MARCI ANDINO
Executive Director

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STATE BOARD OF CANVASSERS
MEETING MINUTES
February 22, 2019
10:00 a.m.

1122 Lady Street, 5th Floor
Columbia, SC 29201

Present: Mr. John Wells, Chairman; Mr. Clifford J. Edler (via teleconference), Ms. Amanda Loveday, Mr. Scott Moseley (via teleconference)

Others Present: Marci Andino, Executive Director; Daylin Silber, Administrative Coordinator

THE MEETING OF THE STATE BOARD OF CANVASSERS WAS HELD PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED NOTIFICATIONS WERE MADE.

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

AMANDA LOVEDAY

SCOTT MOSELEY

VACANT

Chairman Wells called the meeting of the State Board of Canvassers (SBC) to order. Ms. Andino stated all notices of the meeting had been posted as required by the Freedom of Information Act.

Mr. Wells stated that the purpose of the meeting was the certification of the results of the State House District 14 Democratic and Republican Primaries held on Tuesday, February 19, 2019.

Ms. Loveday made a motion to certify the results of the Democratic Primary. It was seconded by Mr. Edler. The motion was approved unanimously. The results were certified.

Ms. Loveday made a motion to certify the results of the Republican Primary. It was seconded by Mr. Moseley. The motion was approved unanimously. The results were certified.

There being no further business, Ms. Moseley made a motion to adjourn the meeting. It was seconded by Mr. Edler. The motion was approved unanimously. The meeting was adjourned.

Respectfully submitted,



Daylin Silber,
Administrative Coordinator

MARCI ANDINO
Executive Director

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OATH OF STATE BOARD OF CANVASSERS

We, the State Board of Canvassers, hereby certify the following as the whole number of votes cast in the State House District 14 Republican Primary held in Greenwood and Laurens Counties on February 19, 2019.

Candidate	TOTAL	PERCENT
Grant Blair	136	5.62%
Scott Home	434	17.93%
Stewart Jones	1,248	51.55%
Michael Seymour	603	24.91%

John Wells, **Chairman**

Cliff Edler

Amanda Loveday

Scott Moseley

STATE BOARD OF CANVASSERS

Dated this 22nd day of February 2019.

OATH OF STATE BOARD OF CANVASSERS

We, the State Board of Canvassers, hereby certify the following as the whole number of votes cast in the State House District 14 Democratic Primary held in Greenwood and Laurens Counties on February 19, 2019.

Candidate	TOTAL	PERCENT
Bobby L. Gregory Sr	39	7.93%
Garrett McDaniel	453	92.07%

John Wells, **Chairman**

Cliff Edler

Amanda Loveday

Scott Moseley

STATE BOARD OF CANVASSERS

Dated this 22nd day of February 2019.

**STATE ELECTION COMMISSION
AGENDA
March 20, 2019
10:00 a.m.**

1122 Lady Street, Suite 500
Columbia, South Carolina 29201

**THE MEETING OF THE STATE ELECTION COMMISSION IS BEING HELD
PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED
NOTIFICATIONS HAVE BEEN MADE.**

Approval of Minutes: February 20, 2019 (SEC) and February 22, 2019 (SBC)

New Business:

Welcome new commission member – Harold E. Faust
Office of State Auditor - Audit of Agreed Upon Procedures – Final Report
90-Day NVRA Notice from League of Women Voters
Voting System Certification - ES&S Engineering Change Orders – DS450 and DS200
Voting System Certification – Clear Ballot ClearVote 1.5 Voting System
Statements of Economic Interests

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

HAROLD FAUST

AMANDA LOVEDAY

SCOTT MOSELEY

MARCI ANDINO
Executive Director

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Old Business:

Voting System Certification:
-Certification of ES&S ElectionWare Election Management System V.5.0.1.0,
DS200 Precinct Scanner V. 2.17.0.0, DS850 Central Tabulator V. 3.1.0.0,
DS450 Central Tabulator V. 3.1.0.0 and ExpressVote V. 2.4.0.0
-Certification of Hart InterCivic Verity Voting 2.3
-Certification of Dominion Voting – Democracy Suite 5.5, Election
Management System (EMS) v5.5.12.1, Adjudication (ADJ) v5.5.8.1, ImageCast
Precinct (ICP) v5.5.3.0002, ImageCast X Ballot Marking Device (ICX BMD)
v5.5.10.25, ImageCast X Direct Record Electronic (ICX DRE) v5.5.10.25
Request for Proposals – Statewide Voting System
Legislative Update
Information Technology Security Update
Legal Update
Eugene Baten v. Henry McMaster, et al.
SEC v. James John Todd Kincannon
Frank Heindel and Phil Leventis v. Marci Andino, SEC

Next Meeting(s):

Friday, March 29, 2019 at 3:00 p.m. (SBC)
Wednesday, April 17, 2019 at 10:00 a.m. (SEC)
Friday, April 26, 2019 at 3:00 p.m. (SBC)

**STATE ELECTION COMMISSION
MEETING MINUTES
March 20, 2019
10:00 a.m.**

1122 Lady Street, 5th Floor
Columbia, SC 29201

Present: Mr. John Wells, Chairman; Mr. Clifford J. Edler, Mr. Harold E. Faust, Ms. Amanda Loveday, Mr. Scott Moseley

Others Present: Marci Andino, Executive Director; Howard Snider, Director of Voter Services; Janet Reynolds, Director of Administration and Finance; Barbara Pittelli, Fiscal Tech; Daylin Silber, Administrative Coordinator; JoAnne Day, League of Woman Voters and a member of the public

COMMISSIONERS

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HAROLD E. FAUST

AMANDA LOVEDAY

SCOTT MOSELEY

MARCI ANDINO
Executive Director

Chairman Wells called the meeting to order. Mr. Andino advised all notices of the meeting had been posted as required by the Freedom of Information Act.

Approval of Minutes

The first item of business was the approval of the minutes for meetings held on February 20, 2019 (SEC) and February 22, 2019 (SBC). Mr. Edler made a motion to approve the February 20th minutes, seconded by Ms. Loveday. The minutes were approved unanimously. Mr. Edler then moved to approve the February 22nd minutes, seconded by Ms. Loveday. The motion was approved unanimously.

New Business

The first item of new business was the welcoming of new commissioner Harold E. Faust. The appointment of Mr. Faust gives the Commission a full five-member board.

The next item was the Office of State Auditor's Audit of Agreed Upon Procedures Final Report. Ms. Andino explained this is a routine audit conducted every year. She reported there was one finding with regards to purchasing card monthly statements not being signed off both by employees and their supervisors, but that the agency's purchasing card policy has been updated accordingly.

Next on the agenda was the 90-day NVRA Notice from League of Women Voters (LWV). Ms. Andino explained the National Voter Registration Act (NVRA) provides for a private right of action for any person aggrieved by a violation not remedied with 90 days. The letter received from the LWV was sent to the SEC, the Department of Health and Human Services (DHHS), the Department of Social Services (DSS), and the Department

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of Health and Environmental Control (DHEC). The letter alleges the SEC's registration declination form does not meet NVRA requirements, the state has not designated DHHS as a voter registration agency, and that DSS, DHEC, and DHHS have failed to comply with the NVRA's voter registration requirements. Ms. Andino advised that legal representatives from these agencies are engaged in discussions regarding this matter.

The certification of the voting system ES&S Engineering Change Orders for DS450 and DS200 was the next item. Ms. Andino explained the changes to be approved are *de minimis*, meaning they were determined by the laboratory to have no impact on the functionality of the system and do not require staff testing. A motion was made by Ms. Loveday to certify the change changer orders, seconded by Mr. Mosely. The motion was approved unanimously.

The voting system certification for Clear Ballot ClearVote 1.5 Voting System was the next item. Ms. Andino advised this system is being tested in house and no action is required at this time. She further advised if it passes testing, it will be scheduled to be used in a field test election. She reminded the commissioners the Request for Proposals requires each vendor to be certified by April 17, 2019, which is the date of the SEC's next meeting.

The last item of new business was Statements of Economic Interests. Ms. Andino reminded the commissioners the annual reports are to be submitted to the Ethics Commission by March 30, 2019.

Old Business

The first item of old business was the certification of ES&S's EVS 6.0.2.0 voting system. Ms. Andino advised this system passed agency testing and was used successfully in an election. She stated she was recommending certification of the system. Ms. Loveday made a motion to certify the system seconded by Mr. Edler. The motion was approved unanimously.

The next item was the certification of Hart InterCivic Verity Voting 2.3 voting system. Ms. Andino advised this system passed agency testing, was successfully used in an election and is recommended for approval. Ms. Loveday made a motion to certify the system, seconded by Mr. Edler. The motion was unanimously approved.

The certification of Dominion Voting's Democracy Suite 5.5 voting system was the next item. Ms. Andino explained this system passed agency testing, will be used in an election next Tuesday, March 26, 2019, and she anticipates that certification will be requested at the next SEC meeting.

The next items were the voting system RFP and legislative updates. Ms. Andino advised that the due date for proposals has been extended to April 4, 2019. She explained that House Bill 4157, a proposed Joint resolution which already passed the house and is currently in Senate Finance, would establish a special evaluation panel comprised of the Commission members to evaluate proposals received in response to the RFP. It would also give the Department of Administration an oversight role in the procurement process.

As for other legislation, Ms. Andino advised that House Bill 3031, which sought to establish a uniform 25-day voter registration deadline for all methods of registration, did not pass the House.

The next item was the information technology security update. Ms. Andino reported a medium-level vulnerability was initially detected by DHS scans run on March 4, 2019. Upon further investigation, however, it was deemed not to be an actual vulnerability and subsequent scans have revealed no vulnerabilities. Ms. Andino advised the SEC is working with SLED to place network sensors on each county network in the state. She stated the SEC has reached out to Voatz, the vendor of blockchain-powered voting system which has been piloted in West Virginia, and also reached out to our security vendors for their thoughts on that product.

Legal updates was next under old business. Ms. Andino advised an appeal was filed in the case of Eugene Baten v. Henry McMaster, et al. She had no update to report in the SEC v. James John Todd Kincannon. In the case of Frank Heindel, et al. v. Marci Andino, et al., she reported an appeal has also been filed.

Mr. Wells reminded the members the next State Election Commission meeting will be on April 17, 2019 at 10:00 a.m. and there will be a State Board of Canvassers meeting on Friday, March 29, 2019 at 3:00 p.m.

A motion to adjourn the meeting was made by Ms. Loveday, seconded by Mr. Edler. The motion passed unanimously.

Respectfully submitted,

Daylin Silber,
Administrative Coordinator

Hart InterCivic, Inc.

Certification of Verity Voting 2.3

Examination and Testing Report

Compiled by

South Carolina State Election Commission

March 19, 2019

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Summary

Hart InterCivic (Hart) applied for South Carolina certification of the Verity Voting 2.3 voting system (Verity System) consisting of the following hardware and software on November 19, 2018:

South Carolina State Certification of Verity Voting 2.3 VWSG v. 1.0 Compliant	
	Verity Data - Data management software application
	Verity Build - Election definition software application
	Verity Central - Central scanning software application
	Verity Count- Tabulation and reporting software application
	Verity User Management - User management software application
	Verity Election Management - Election management software application
	Verity Scan - Digital scanning voting device
	Verity Touch Writer with Access - Ballot marking device with audio tactile interface (ATI) and attached COTS printer
	Verity Touch Writer Duo - Ballot marking device with integrated COTS printer
	Verity Controller - Polling place management device for use with Verity Touch Writer Duo
	Verity Print - Pre-voting ballot production device
	Verity AutoBallot - Optional barcode scanner kit for Verity Controller, Verity Print, and Verity Touch Writer.

The Verity System can be configured using either ballot marking devices (Verity Touch Writers) or hand-marked ballots in conjunction with the digital scanners (Verity Scans) for tabulation. Hart submitted the Verity System for certification under both configurations. Thus, the Verity System was tested using both configurations.

Tests were conducted on the Verity System in two phases. Phase 1 was completed during the period of January 28, 2019 through January 31, 2019 at the State Election Commission. During this period, both configurations of the Verity System (ballot marking devices and hand-marked ballots) were tested to ensure that the various election functionalities required by Title 7 of the S.C. Code of Laws.

Phase 2 was occurred on March 5, 2019 during the Fairfield County School Board District 4 Special Election. As part of a field test, the Verity System was utilized in four Fairfield County precincts – two for each configuration of the system – as

part of this election. The currently certified election system was used in the absentee precinct and iVotronics were available in the precincts as a backup. All ballots cast in the Verity System were tabulated in that system and then manually entered into the currently certified system. The results were subsequently audited.

Examination and Testing Results

The modules/components of the Verity System identified in the table above were fully tested by Voter Services Division staff based on requirements of the S.C. Code of Laws (1976, as amended) with concentrated emphasis on the provisions of Title 7.

Phase 1: Functionality Testing

In the first round of testing, mock elections were created and tested for general election functionality. In the second round, previously created databases for primary, general, special, and municipal elections were tested for detailed functionality. These test elections were conducted using all the Verity System modules to construct an election definition database using actual data from past elections in the State.

This election definition was first used to create test ballots which were cast using the ballot marking devices. The results were tabulated and compared with the ballots themselves. The election results were then cleared from the system and the election was run again using pre-printed ballots marked by hand, scanned, and tabulated. The results were then compared to the hand-marked ballots themselves.

Phase 2: Field Test

Both configurations of the Verity System were utilized in a field test as required by S.C. Code § 7-13-1620(E). The test was conducted in Fairfield County as party of the March 5, 2019 School Board District 4 Special Election. The ballot marking and hand-marked ballot configurations of the Verity System were each utilized in two precincts as part of this election. Voters appeared to transition easily and with little confusion to either configuration of the Verity System. While the scanning of a paper ballot under either configuration creates an additional step in voting process, voters responded favorably overall to having the opportunity to review their selections on paper before submitting their ballots to be counted.

Both configurations of the Verity System were able to accurately count results as evidenced by a post-election audit conducted by staff from the Voter Services Division. A hand count was conducted of each paper ballot cast using the Verity System, whether marked by device or by hand. The resulting number of votes counted for each candidate was compared with the results reported by the Verity System's Tabulators. The results of the hand count matched those of the tabulated report.

Determination

The test results meet the functionality of voting systems requirements set forth in S.C. Code of Laws §§ 7-13-1620 and 7-13-1640 as indicated in the tables below.
Functionality Testing Checklist

Requirement	Pass	Fail	Comments
Version numbers verified	✓		
Version certified by EAC accredited testing laboratory	✓		
List of jurisdictions currently using version	✓		
Training manuals	✓		
Allow voter to select only candidates in a particular party for primary elections	✓		
Allow voter to vote straight party for general elections	✓		
Allow voter to cast a vote for President/VP or Governor/Lt. Governor in only one operation	✓		
Vote for only the number of candidates allowed in each office, but no others	✓		Overvotes on optical ballots were successfully identified and returned to operator.
Vote yes or no for any measure/referendum on the ballot	✓		
Allow undervotes	✓		
Allow crossover voting after selection of straight party is made	✓		
Allow write-in voting for any office on the ballot in a general election except President/VP	✓		
Allow for voting for all candidates of as many political parties as may make nominations of candidates in any election	✓		
Prevent the voter from voting for the same person more than once for the same office	✓		
Accurately count all votes cast for any and all candidates and for or against all questions	✓		
Provide for voting in absolute secrecy	✓		
Machine must be constructed of good quality material in a neat and workmanlike manner	✓		
Provide voters opportunity to review ballot selections prior to casting ballot	✓		

Requirement	Pass	Fail	Comments
Protective and public counters can be viewed	✓		On the scanners
Illustration or mechanical model is available	✓		
Zero opening count must be visible to poll manager	✓		
Scanner compartment has door or seal	✓		
Unit must have an area to lock or seal the unit before and after voting	✓		
In-person absentee guidelines tested and met	✓		
Printouts/reports are clear, concise, and display all offices, candidates, vote totals, and public count	✓		
Electronically transmit election results to SEC	✓		Same process used in the currently approved system.
Escrow of source code	✓		Source code is currently held in escrow with Iron Mountain Intellectual Property Management, Inc.

Election Systems Functionality Matrix				
Election Type	Functionality	Pass	Fail	Comments
General Election				
	Straight Party Voting	✓		
	Variable Straight Party Voting	✓		
	Fusion Candidates	✓		Extra spaces between first and last name of candidates
Primary Election				
	Single Party	✓		
	Two Party	✓		
County and local Elections				
	Special election	✓		

Election Type	Functionality	Pass	Fail	Comments
	Referendum only	✓		
	Write in Only	✓		
Reporting Functionality				
	Results Grouping			
	County Wide	✓		
	Precinct Details	✓		
	Absentee	✓		
	Emergency	✓		
	Failsafe	✓		
	Provisional	✓		

Federal Voting System Standards Certification

As a prerequisite to approval for use in this State, S.C. Code § 7-13-1620(A) requires that a voting system be "certified by a testing laboratory accredited by the Federal Election Assistance Commission (EAC) as meeting or exceeding the minimum requirements of federal voting system standards."

On January 25, 2019, accredited testing laboratory SLI Compliance issued a Certification Test Report finding the Verity System meets the required federal voting system standards. That reports states, in part:

On January 25, 2019 SLI made the following recommendations.

SLI has successfully completed the testing of the **Hart Verity Voting 2.3** voting system. It has been determined that the **Verity Voting 2.3** voting system meets the required acceptance criteria of the Election Assistance Commission Voluntary Voting System Guidelines 1.0 (2005).

It is SLI's recommendation that the EAC grant certification of Hart Verity Voting 2.3 voting system. This recommendation reflects the opinion of SLI Compliance based on the testing scope and results.

List of States/Jurisdictions Using This Voting System

Verity Voting 2.0

Idaho

- Ada County
- Boise
- Bonner County

Kentucky

- Marshall County
- Trimble County

Michigan

- 285 Cities, Municipalities and Townships

Minnesota

- Chisago County
- Ramsey County

Mississippi

- Rankin County

Oklahoma

- Clackamas County
- Comanche Nation
- Marion County
- Osage Nation

Tennessee

- Benton County

Texas

- 28 Counties

Virginia

- 19 Counties and Municipalities

Washington

- Chelan County
- Douglas County
- Island County
- Kittitas County
- Skagit County

Relevant Sections of the South Carolina Code of Laws

SECTION 7-13-1620. Voting system approval process.

(A) Before any kind of voting system, including an electronic voting system, is used at an election, it must be approved by the State Election Commission, which shall examine the voting system and make and file in the commission's office a report, attested to by the signature of the commission's executive director, stating whether, in the commission's opinion, the kind of voting system examined may be accurately and efficiently used by electors at elections, as provided by law. A voting system may not be approved for use in the State unless certified by a testing laboratory accredited by the Federal Election Assistance Commission as meeting or exceeding the minimum requirements of federal voting system standards.

(B) A person or company who requests an examination of any type of voting system shall pay a nonrefundable examination fee of one thousand dollars for a new voting system. A nonrefundable examination fee of five hundred dollars must be paid for an upgrade to any existing system. The State Election Commission may reexamine any voting system when evidence is presented to the commission that the accuracy or the ability of the system to be used satisfactorily in the conduct of elections is in question.

(C) A person or company who seeks approval for any type of voting system in this State shall file with the State Election Commission a list of all states or jurisdictions in which that voting system has been approved for use. This list must state how long the system has been used in the state; contain the name, address, and telephone number of that state or jurisdiction's chief election official; and disclose any reports compiled by state or local government concerning the performance of the system. The vendor is responsible for filing this information on an ongoing basis.

(D) A person or an individual who seeks approval for any type of voting system shall file with the State Election Commission copies of all contracts and maintenance agreements used in connection with the sale of the voting system. All changes to standard contracts and maintenance agreements must be filed with the State Election Commission.

(E) A person or company who seeks approval for any voting system shall conduct, under the supervision of the State Election Commission and any county board of voter registration and elections, a field test for any new voting system, as part of the certification process. The field test must involve South Carolina voters and election officials, and must be conducted as part of a scheduled primary, general, or special election. This test must be held in two or more precincts, and all costs relating to the use of the voting system must be borne by the vendor. The test must be designed to gauge voter reaction to the system, problems that voters have with the system, and the number of units required for the efficient operation of an election. The test also must demonstrate the accuracy of votes reported on the system.

(F) Before a voting system may be used in elections in the State, all source codes for the system must be placed in escrow by the manufacturer at the manufacturer's expense with the authority approved by the Federal Election Assistance Commission. These source codes must be available to the State Election Commission in case the company goes out of business, pursuant to court order, or if the State Election Commission determines that an examination of these source codes is necessary. The manufacturer shall place all updates of these source codes in escrow, and notify the State Election Commission that this requirement has been met.

(G) After a voting system is approved, an improvement or change in the system must be submitted to the State Election Commission for approval pursuant to this section. This requirement does not

apply to the technical capability of a general purpose computer, reader, or printer used for election preparation or ballot tallying.

(H) If the State Election Commission determines that a voting system that was approved no longer meets the requirements of Title 7, the commission shall decertify that system. A decertified system must not be used in an election unless it is reapproved by the commission pursuant to the provisions of Title 7.

(I)(1) A vendor of any voting system that has been approved by the State Election Commission shall report in writing to the Director of the State Election Commission any decertification, ethical, or technical violations against the voting system in any state within ninety days after the decertification, ethical, or technical violations are issued by the other state. If the vendor does not provide evidence to the State Election Commission's satisfaction that the voting system deficiencies have been corrected to comply with the provisions of South Carolina law, then the voting system may be decertified.

(2) A vendor seeking the approval of a voting system by the State Election Commission shall report in writing to the Director of the State Election Commission any decertification, ethical, or technical violations issued against the voting system in any state that have occurred prior to or during the time the vendor seeks approval of the voting system by the State Election Commission. If the vendor does not provide evidence to the State Election Commission's satisfaction that the voting system deficiencies have been corrected to comply with the provisions of South Carolina law, then the voting system may not be approved.

(J) A member of the State Election Commission, county board of voter registration and elections, custodian, or member of a county governing body may not have a pecuniary interest in any voting system or in the manufacture or sale of any voting system.

SECTION 7-13-1640. Voting machine requirements.

(A) Any kind or type of voting machine may be approved by the State Board of Voting Machine Commissioners which is so constructed as to fulfill the following requirements. It shall:

(1) provide facilities for voting for all candidates of as many political parties or organizations as may make nominations of candidates at any election, for or against as many questions as may be submitted at any election, and at all general or special elections, permit the voter to vote for all of the candidates of one party or in part for the candidates of one or more parties;

(2) permit the voter to vote for as many persons for any office as he is lawfully entitled to vote for, but no more;

(3) prevent the voter from voting for the same person more than once for the same office;

(4) permit the voter to vote for or against any question he may have the right to vote on, but no other;

(5) if used at a primary election, be so equipped that all rows except those of the voter's party can be locked out by the managers of election by means of an adjustment on the outside of the machine;

(6) correctly register or record and accurately count all votes cast for any and all candidates and for or against all questions;

(7) be provided with a "protective counter" or "protective device" whereby any operation of the machine before or after the election will be detected;

(8) be provided with a counter which shows at all times during an election how many persons have voted;

(9) be provided with either an illustration or a mechanical model, illustrating the manner of voting on the machine, suitable for the instruction of voters; and

(10) ensure voting in absolute secrecy.

(B) A machine must be provided with a device for each party and for each nomination by petition for voting for presidential and vice-presidential candidates in one operation and listing the candidates by name and by party or indicating the candidate is nominated by petition.

(C) If approved after July 1, 1999, or if an upgrade in software, hardware, or firmware is submitted for approval as required by Section 7-13-1620(B), the voting system must be able to electronically transmit vote totals for all elections to the State Election Commission in a format and time frame specified by the commission.

SECTION 7-13-1655. "Voting system" defined; State Election Commission duties.

(A) As used in this section, "voting system" means:

(1) the total combination of mechanical, electromechanical, or electronic equipment, including the software, firmware, and documentation required to program, control, and support the equipment that is used to:

- (a) define ballots;
- (b) cast and count votes;
- (c) report or display election results; and
- (d) maintain and produce audit trail information;

(2) the practices and associated documentation used to:

- (a) identify system components and versions of these components;
- (b) test the system during its development and maintenance;
- (c) maintain records of system errors and defects;
- (d) determine specific system changes to be made to a system after the initial qualification of the system; and
- (e) make available materials to the voter, such as notices, instructions, forms, or paper ballots.

(B) The State Election Commission shall:

(1) either approve and adopt one voting system to be used by authorities charged by law with conducting elections, or approve and adopt multiple voting systems if the commission, in its discretion, determines not to adopt one voting system;

(2) support the authorities charged by law with conducting elections by providing basic level training for personnel in the operation of the voting system approved and adopted by the commission;

(3) support all aspects of creating the ballots and the database of the voting system that is approved and adopted; and

(4) comply with the provisions of Chapter 35 of Title 11 in procuring a voting system or systems, as defined in subsection (A).

Election Systems and Software (ES&S)

Certification of Version 6.0.2.0

Examination and Testing Report

Compiled by

South Carolina State Election Commission

March 19, 2019

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Summary

Election Systems & Software (ES&S) applied for South Carolina certification of the EVS 6.0.2.0 Election System (EVS System) consisting of the following hardware and software on October 4, 2018:

South Carolina State Certification of EVS 6.0.2.0 VVSG v. 1.0 Compliant		
Election Management System (EMS)	ElectionWare	5.0.1.0
	Event Log Service	1.6.0.0
	Removable Media Service	1.5.0.0
	ExpressVote Previewer	2.4.0.0
	Optional Utility: ExpressLink	1.4.0.0
	Optional Utility: Toolbox	3.3.0.0
ES&S Tabulators	DS200 Precinct Tabulator (HW 1.2, 1.3)	2.17.0.
	DS850 Central Tabulator (HW 1.0)	3.1.0.0
	DS450 Central Tabulator (HW 1.0)	3.1.0.0
Universal Voting	ExpressVote (HW 2.1)	2.4.0.0

The Election Management System (ElectionWare v. 5.0.1.0) and the Universal Voting System (ExpressVote) can be used in either ballot marking mode or tabulation mode. ES&S submitted the EVS System for State certification in ballot marking mode only. Thus, only the ballot marking mode was tested. Ballots were then scanned into DS200, DS450, and DS850 scanners for tabulation.

Tests were conducted on the EVS System in two phases. Phase 1 was completed during the period of January 15, 2019 through January 18, 2019 at the State Election Commission. During this period, the EVS system was tested to ensure compliance with the various election functionalities required by Title 7 of the S.C. Code of Laws.

Phase 2 was conducted during the February 19, 2019 Hartsville City Council District 6 Special Election. As part of a field test, the EVS System was utilized in Darlington County precincts in the election. The currently certified election system was used in the absentee precinct and iVotronics were available in the precincts as a backup. Ballots cast in the EVS System were tabulated in that system and then manually entered into the currently certified system. The results were subsequently audited.

Examination and Testing Results

The modules/components of the EVS System identified in the table above were fully tested by Voter Services Division staff based on requirements of the S.C. Code of Laws (1976, as amended) with concentrated emphasis on the provisions of Title 7.

Phase 1: Functionality Testing

In the first round of testing, mock elections were created and tested for general election functionality. In the second round, previously created databases for primary, general, special, and municipal elections were tested for detailed functionality. These test elections were conducted using all of the EMS System modules to construct an election definition database using actual data from past elections in the State.

This election definition was used to create paper ballots upon which test ballots were cast and the results tabulated and compared with the ballots themselves.

Phase 2: Field Test

The EVS System was utilized in a field test as required by S.C. Code § 7-13-1620(E). The test was conducted in Darlington County on February 19, 2019 as part of the Hartsville City Council District 6 Special Election. Voters appeared to transition easily and with little confusion to the EVS System. While the printing and scanning of one's ballot creates an additional step in the voting process, voters responded favorably overall to having the opportunity to review their printed selections on paper before submitting their ballots to be counted.

The system was able to accurately count results as evidenced by a post-election audit conducted by staff from the Voter Services Division. A hand count was conducted of each paper ballot cast using the EVS System. The resulting number of votes counted for each candidate was compared with the results reported by the EVS System's Tabulators. The results of the hand count matched those of the tabulated report.

Determination

The test results meet the functionality of voting systems requirements set forth in S.C. Code of Laws §§ 7-13-1620 and 7-13-1640 as indicated in the tables below.

Functionality Testing Checklist

Requirement	Pass	Fail	Comments
Version numbers verified	✓		
Version certified by EAC accredited testing laboratory	✓		
List of jurisdictions currently using version	✓		
Training manuals	✓		
Allow voter to select only candidates in a particular party for primary elections	✓		
Allow voter to vote straight party for general elections	✓		
Allow voter to cast a vote for President/VP or Governor/Lt. Governor in only one operation	✓		
Vote for only the number of candidates allowed in each office, but no others	✓		Overvotes on optical ballots were successfully identified and returned to operator.
Vote yes or no for any measure/referendum on the ballot	✓		
Allow undervotes	✓		
Allow crossover voting after selection of straight party is made	✓		
Allow write-in voting for any office on the ballot in a general election except President/VP	✓		
Allow for voting for all candidates of as many political parties as may make nominations of candidates in any election	✓		
Prevent the voter from voting for the same person more than once for the same office	✓		
Accurately count all votes cast for any and all candidates and for or against all questions	✓		
Provide for voting in absolute secrecy	✓		
Machine must be constructed of good quality material in a neat and workmanlike manner	✓		
Provide voters opportunity to review ballot selections prior to casting ballot	✓		
Protective and public counters can be viewed	✓		On the scanners

Requirement	Pass	Fail	Comments
Illustration or mechanical model is available	✓		
Zero opening count must be visible to poll manager	✓		
Scanner compartment has door or seal	✓		
Unit must have an area to lock or seal the unit before and after voting	✓		
In-person absentee guidelines tested and met	✓		
Printouts/reports are clear, concise, and display all offices, candidates, vote totals, and public count	✓		
Electronically transmit election results to SEC	✓		Same process used in the currently approved system.
Escrow of source code	✓		Source code is currently held in escrow with Iron Mountain Intellectual Property Management, Inc.

Election Systems Functionality Matrix				
Election Type	Functionality	Pass	Fail	Comments
General Election	Straight Party Voting	✓		
	Variable Straight Party Voting	✓		
	Fusion Candidates	✓		Extra spaces between first and last name of candidates
Primary Election	Single Party	✓		
	Two Party	✓		
County and local Elections	Special election	✓		

Election Type	Functionality	Pass	Fail	Comments
	Referendum only	✓		
	Write in Only	✓		
Reporting Functionality				
	Results Grouping			
	County Wide	✓		
	Precinct Details	✓		
	Absentee	✓		
	Emergency	✓		
	Failsafe	✓		
	Provisional	✓		

Federal Voting System Standards Certification

As a prerequisite to approval for use in this State, S.C. Code § 7-13-1620(A) requires that a voting system be "certified by a testing laboratory accredited by the Federal Election Assistance Commission (EAC) as meeting or exceeding the minimum requirements of federal voting system standards."

On September 17, 2018, accredited testing laboratory SLI Compliance issued a Certification Test Report finding the EVS System meets the required federal voting system standards. That report states, in part:

SLI has successfully completed the testing of the **ES&S EVS 6.0.2.0** voting system. It has been determined that the **ES&S EVS 6.0.2.0** voting system meets the required acceptance criteria of the Election Assistance Commission Voluntary Voting System Guidelines, version 1.0.

This recommendation reflects the opinion of SLI Compliance based on testing scope and results. It is SLI's recommendation based on this testing effort that the EAC grant certification of the **ES&S EVS 6.0.2.0** voting system.

On October 4, 2018, the EVS System received EAC Certification for conformance to the Voluntary Voting System Guidelines Version 1.0.

List of States/Jurisdictions Using This Voting System

List of Jurisdictions (As of February 21, 2019)

List of States EVS 6.0.2.0 is State Certified In:

The following states have state certified the EVS 6.0.2.0 release:

Delaware
 Kansas
 Missouri
 Mississippi
 New Jersey
 Ohio
 Pennsylvania
 Utah

Pending Certification: Arizona, Oregon, Tennessee, Texas, and Washington, West Virginia

List of Counties Using EVS 6.0.2.0 in recent elections

Jurisdiction	Registered Voters	ES&S Equipment Certified
Gloucester County, NJ	207,720	ExpressVote (XL)
Union County, NJ	328,946	ExpressVote (XL)
Bergen County, NJ	322,705	DS850
Atlantic County, NJ	180,490	DS450
Johnson County, KS	413,276	DS850, ExpressVote
Statewide in Utah	1,351,631	DS450, DS200, ExpressVote
Kent County, DE	123,155	ExpressVote (XL)
New Castle County, DE	406,691	ExpressVote (XL)
Sussex County, DE	164,656	ExpressVote (XL)

Total Registered Voters: 3,499,270

Note: A state specific EVS 6.0.1.0 release is also being used in several Michigan townships (approx. 100 townships). Those numbers are not represented in the above registered voters number. Each of those townships are using the DS200 and ExpressVote.

Relevant Sections of the South Carolina Code of Laws

SECTION 7-13-1620. Voting system approval process.

(A) Before any kind of voting system, including an electronic voting system, is used at an election, it must be approved by the State Election Commission, which shall examine the voting system and make and file in the commission's office a report, attested to by the signature of the commission's executive director, stating whether, in the commission's opinion, the kind of voting system examined may be accurately and efficiently used by electors at elections, as provided by law. A voting system may not be approved for use in the State unless certified by a testing laboratory accredited by the Federal Election Assistance Commission as meeting or exceeding the minimum requirements of federal voting system standards.

(B) A person or company who requests an examination of any type of voting system shall pay a nonrefundable examination fee of one thousand dollars for a new voting system. A nonrefundable examination fee of five hundred dollars must be paid for an upgrade to any existing system. The State Election Commission may reexamine any voting system when evidence is presented to the commission that the accuracy or the ability of the system to be used satisfactorily in the conduct of elections is in question.

(C) A person or company who seeks approval for any type of voting system in this State shall file with the State Election Commission a list of all states or jurisdictions in which that voting system has been approved for use. This list must state how long the system has been used in the state; contain the name, address, and telephone number of that state or jurisdiction's chief election official; and disclose any reports compiled by state or local government concerning the performance of the system. The vendor is responsible for filing this information on an ongoing basis.

(D) A person or an individual who seeks approval for any type of voting system shall file with the State Election Commission copies of all contracts and maintenance agreements used in connection with the sale of the voting system. All changes to standard contracts and maintenance agreements must be filed with the State Election Commission.

(E) A person or company who seeks approval for any voting system shall conduct, under the supervision of the State Election Commission and any county board of voter registration and elections, a field test for any new voting system, as part of the certification process. The field test must involve South Carolina voters and election officials, and must be conducted as part of a scheduled primary, general, or special election. This test must be held in two or more precincts, and all costs relating to the use of the voting system must be borne by the vendor. The test must be designed to gauge voter reaction to the system, problems that voters have with the system, and the number of units required for the efficient operation of an election. The test also must demonstrate the accuracy of votes reported on the system.

(F) Before a voting system may be used in elections in the State, all source codes for the system must be placed in escrow by the manufacturer at the manufacturer's expense with the authority approved by the Federal Election Assistance Commission. These source codes must be available to the State Election Commission in case the company goes out of business, pursuant to court order, or if the State Election Commission determines that an examination of these source codes is necessary. The manufacturer shall place all updates of these source codes in escrow, and notify the State Election Commission that this requirement has been met.

(G) After a voting system is approved, an improvement or change in the system must be submitted to the State Election Commission for approval pursuant to this section. This requirement does not

apply to the technical capability of a general purpose computer, reader, or printer used for election preparation or ballot tallying.

(H) If the State Election Commission determines that a voting system that was approved no longer meets the requirements of Title 7, the commission shall decertify that system. A decertified system must not be used in an election unless it is reapproved by the commission pursuant to the provisions of Title 7.

(I)(1) A vendor of any voting system that has been approved by the State Election Commission shall report in writing to the Director of the State Election Commission any decertification, ethical, or technical violations against the voting system in any state within ninety days after the decertification, ethical, or technical violations are issued by the other state. If the vendor does not provide evidence to the State Election Commission's satisfaction that the voting system deficiencies have been corrected to comply with the provisions of South Carolina law, then the voting system may be decertified.

(2) A vendor seeking the approval of a voting system by the State Election Commission shall report in writing to the Director of the State Election Commission any decertification, ethical, or technical violations issued against the voting system in any state that have occurred prior to or during the time the vendor seeks approval of the voting system by the State Election Commission. If the vendor does not provide evidence to the State Election Commission's satisfaction that the voting system deficiencies have been corrected to comply with the provisions of South Carolina law, then the voting system may not be approved.

(J) A member of the State Election Commission, county board of voter registration and elections, custodian, or member of a county governing body may not have a pecuniary interest in any voting system or in the manufacture or sale of any voting system.

SECTION 7-13-1640. Voting machine requirements.

(A) Any kind or type of voting machine may be approved by the State Board of Voting Machine Commissioners which is so constructed as to fulfill the following requirements. It shall:

- (1) provide facilities for voting for all candidates of as many political parties or organizations as may make nominations of candidates at any election, for or against as many questions as may be submitted at any election, and at all general or special elections, permit the voter to vote for all of the candidates of one party or in part for the candidates of one or more parties;
- (2) permit the voter to vote for as many persons for any office as he is lawfully entitled to vote for, but no more;
- (3) prevent the voter from voting for the same person more than once for the same office;
- (4) permit the voter to vote for or against any question he may have the right to vote on, but no other;
- (5) if used at a primary election, be so equipped that all rows except those of the voter's party can be locked out by the managers of election by means of an adjustment on the outside of the machine;
- (6) correctly register or record and accurately count all votes cast for any and all candidates and for or against all questions;
- (7) be provided with a "protective counter" or "protective device" whereby any operation of the machine before or after the election will be detected;

(8) be provided with a counter which shows at all times during an election how many persons have voted;

(9) be provided with either an illustration or a mechanical model, illustrating the manner of voting on the machine, suitable for the instruction of voters; and

(10) ensure voting in absolute secrecy.

(B) A machine must be provided with a device for each party and for each nomination by petition for voting for presidential and vice-presidential candidates in one operation and listing the candidates by name and by party or indicating the candidate is nominated by petition.

(C) If approved after July 1, 1999, or if an upgrade in software, hardware, or firmware is submitted for approval as required by Section 7-13-1620(B), the voting system must be able to electronically transmit vote totals for all elections to the State Election Commission in a format and time frame specified by the commission.

SECTION 7-13-1655. "Voting system" defined; State Election Commission duties.

(A) As used in this section, "voting system" means:

(1) the total combination of mechanical, electromechanical, or electronic equipment, including the software, firmware, and documentation required to program, control, and support the equipment that is used to:

- (a) define ballots;
- (b) cast and count votes;
- (c) report or display election results; and
- (d) maintain and produce audit trail information;

(2) the practices and associated documentation used to:

- (a) identify system components and versions of these components;
- (b) test the system during its development and maintenance;
- (c) maintain records of system errors and defects;
- (d) determine specific system changes to be made to a system after the initial qualification of the system; and
- (e) make available materials to the voter, such as notices, instructions, forms, or paper ballots.

(B) The State Election Commission shall:

(1) either approve and adopt one voting system to be used by authorities charged by law with conducting elections, or approve and adopt multiple voting systems if the commission, in its discretion, determines not to adopt one voting system;

(2) support the authorities charged by law with conducting elections by providing basic level training for personnel in the operation of the voting system approved and adopted by the commission;

(3) support all aspects of creating the ballots and the database of the voting system that is approved and adopted; and

(4) comply with the provisions of Chapter 35 of Title 11 in procuring a voting system or systems, as defined in subsection (A).

**STATE BOARD OF CANVASSERS
AGENDA
March 29, 2019
3:00 pm**

1122 Lady Street, Suite 500
Columbia, South Carolina 29201

**THE MEETING OF THE STATE BOARD OF CANVASSERS IS BEING HELD
PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED
NOTIFICATIONS HAVE BEEN MADE.**

New Business:

Certification of the results of the State Senate District 6 Special Election held on Tuesday,
March 26, 2019.

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

HAROLD E. FAUST

AMANDA LOVEDAY

SCOTT MOSELEY

MARCI ANDINO
Executive Director

Items may be added as necessary.

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**STATE BOARD OF CANVASSERS
MEETING MINUTES
March 29, 2019
3:00 p.m.**

1122 Lady Street, 5th Floor
Columbia, SC 29201

Present: Mr. John Wells, Chairman (via teleconference); Mr. Clifford J. Edler (via teleconference), Mr. Harold E. Faust (via teleconference), Ms. Amanda Loveday (via teleconference), Mr. Scott Moseley (via teleconference)

Others Present: Marci Andino, Executive Director; Daylin Silber, Administrative Coordinator, Barbara, Fiscal Tech

COMMISSIONERS

JOHN WELLS
Chairperson

CLIFFORD J. EDLER

HAROLD E. FAUST

AMANDA LOVEDAY

SCOTT MOSELEY

MARCI ANDINO
Executive Director

THE MEETING OF THE STATE BOARD OF CANVASSERS WAS HELD PURSUANT TO THE FREEDOM OF INFORMATION ACT AND ALL REQUIRED NOTIFICATIONS WERE MADE.

Chairman Wells called the meeting of the State Board of Canvassers (SBC) to order. Ms. Andino stated all notices of the meeting had been posted as required by the Freedom of Information Act.

Mr. Wells stated that the purpose of the meeting was the certification of the results of the State Senate District 6 Special Election held on Tuesday, March 26, 2019. A motion was made by Mr. Moseley to certify the results. It was seconded by Ms. Loveday. The motion passed unanimously.

A motion was made by Mr. Moseley to adjourn the meeting, seconded by Mr. Edler, and unanimously approved. The meeting was adjourned.

Respectfully submitted,



Daylin Silber

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OATH OF STATE BOARD OF CANVASSERS

We, the State Board of Canvassers, hereby certify the following as the whole number of votes cast in the State Senate District 6 Special Election held in Greenville County on March 26, 2019.

Candidate	TOTAL	PERCENT
Tina Belge	3,537	44.33%
Dwight A. Loftis WINNER	4,440	55.64%
Write-In	3	0.04%

John Wells, **Chairman**

Cliff Edler

Harold E. Faust

Amanda Loveday

Scott Moseley

STATE BOARD OF CANVASSERS

Dated this 29th day of March 2019.