The disposition and resolution for the Notice of Anomalies 5, 6, and 7 can be located in the following sections of the Test Report:

NOA – 5
ESD
Hardware Report Appendix A.2
Section 2.2.3

NOA – 6
Lightning Surge
Hardware Report Appendix A.2
Section 2.2.6

NOA – 7
Temperature Power
Hardware Report Appendix A.2
Section 2.3.1
NOTICE OF ANOMALY

NOTICE NO: 1  P.O. NUMBER: DVS 0965  CONTRACT NO: N/A
CUSTOMER: Dominion Voting Systems  WYLE JOB NO: T57381.01
NOTIFICATION MADE TO: Chris Iskander  NOTIFICATION DATE: 07/07/11
NOTIFICATION MADE BY: Michael Walker  VIA: verbally

CATEGORY: [x] SPECIMEN  [] PROCEDURE  [] TEST EQUIPMENT  DATE OF ANOMALY: 07/07/11
PART NAME: Democracy Suite ICPA System  PART NO. WLDAFBH0019
TEST: Acoustic Level and Hearing Aid Compatibility  I.D. NO. ---
SPECIFICATION: EAC 2005 VVSG, Volume I  PARA. NO. Sec. 3.2.2.2

REQUIREMENTS:

The machine shall provide an adjustable volume control from 20 to 100 dB SPL in 10 dB increments with the initial volume level set between 40 to 50 dB, and shall reproduce frequencies over the audible speech range of 315 Hz to 10 kHz.

DESCRIPTION OF ANOMALY:

The initial volume level was measured to be greater than the maximum accepted level of 50 dB.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

Dominion Voting Systems was notified of the anomaly and performed a source code revision to adjust the initial volume setting and replaced the headset to eliminate the wired-in volume control. The test was then repeated and the initial volume setting was measure to be 41 dBA, which is within the allowable range.
NOTICE OF ANOMALY

NOTICE NO: 2  P.O. NUMBER: DVS 0965  CONTRACT NO: N/A

CUSTOMER: Dominion Voting Systems  WYLE JOB NO: T57381.01

NOTIFICATION MADE TO: Reed Bodwell  NOTIFICATION DATE: 07/22/11

NOTIFICATION MADE BY: Michael Walker  VIA: e-mail

CATEGORY: [x] SPECIMEN  [ ] PROCEDURE  [ ] TEST EQUIPMENT

PART NAME: Democracy Suite ICPA System  PART NO: ---

TEST: Source Code Review  I.D. NO: Wyle Review Summaries

SPECIFICATION: FAC 2005 VVSG, Volume I  PARA. NO: Section 5

DATE OF ANOMALY: 06/07/11 – 07/22/11

REQUIREMENTS:

Software used in voting systems shall meet the essential design and performance characteristics detailed in Section 5 of the EAC 2005 VVSG.

DESCRIPTION OF ANOMALY:

Review of the submitted source code nodules comprising the Democracy Suite ICPA System revealed deviations from the standard as well as issues with the commenting. These anomalies are documented in detail in the Wyle generated review reports on file as raw data.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

Upon completion of the review for each source code submission, a technical summary report of all identified standards violations was sent to Dominion Voting Systems for resolution. Dominion Voting Systems then corrected the reported violations and re-submitted the source code for re-review. This process was repeated as many times as necessary until all identified standards violations were corrected.

Responsibility to analyze anomalies and comply with 10 CFR Part 21: □ Customer □ Wyle

Safety Related □ YES □ NO  Potential 10 CFR Part 21 □ YES □ NO □ N/A

CAR Required: □ YES □ NO  CAR No:

VERIFICATION:

PROJECT ENGINEER: [Signature]  7/25/11

TEST WITNESS: [Signature]  7/25/11

PROJECT MANAGER: [Signature]  7/25/11

REPRESENTING: [Signature]  7/25/11

INTERDEPARTMENTAL COORDINATION:

QUALITY ASSURANCE: [Signature]  7/25/11
## NOTICE OF ANOMALY

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<td>TEST:</td>
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<td>PARA. NO.</td>
<td>Sec. 2.1.4</td>
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## REQUIREMENTS:

Per Section 2.1.4 “Integrity” of the EAC 2005 VVSG, to ensure system integrity, all systems shall:

- Record and report the date and time of normal and abnormal events.

## DESCRIPTION OF ANOMALY:

During the performance of the Functional Configuration Audit on the Democracy Suite ICPA System it was discovered that the PCOS 320A ImageCast Precinct Tabulator did not write an entry to the printed audit log when a date/time change was performed.

## DISPOSITION • COMMENTS • RECOMMENDATIONS:

Wyle reported the nonconformance to Dominion Voting Systems. Dominion Voting Systems revised the system source code to add a feature into the ICP resident firmware that would log the date/time event. During regression testing, Wyle verified that this feature was added.

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<th>☐ NO</th>
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VERIFICATION: ☐ YES  PROJECT ENGINEER: [Signature] 7/25/11

TEST WITNESS: ☐ YES  PROJECT MANAGER: [Signature] 7/25/11

REPRESENTING: ☐ YES  INTERDEPARTMENTAL COORDINATION: [Signature] 7/25/11

QUALITY ASSURANCE: [Signature] 7/25/11
NOTICE OF ANOMALY

NOTICE NO: 4  P.O. NUMBER: DVS 0965  CONTRACT NO: N/A
CUSTOMER: Dominion Voting Systems  WYLE JOB NO: T3781.01
NOTIFICATION MADE TO: Ed Smith  NOTIFICATION DATE: 07/28/11
NOTIFICATION MADE BY: Diane Gray  VIA: e-mail

CATEGORY: [x] SPECIMEN  [] PROCEDURE  [] TEST EQUIPMENT
DATE OF ANOMALY: 6/29/11 through 7/28/11
PART NAME: Democracy Suite ICPA System  PART NO: —
TEST: TDP Review  I.D. NO: —
SPECIFICATION: EAC 2005 VVSG, Volume I  PARA. NO: Section 2

REQUIREMENTS:

The Dominion Voting Systems Democracy Suite ICPA System Technical Data Package (TDP) shall be reviewed for accuracy, completeness, and compliance to the EAC 2005 VVSG.

DESCRIPTION OF ANOMALY:

Review of the submitted documentation revealed discrepancies between the TDP and the EAC 2005 VVSG requirements. Functional testing also identified text in the TDP that conflicted with the actual operation of the system. Each noted discrepancy was documented in detail in the Wyle-generated TDP review reports on file as raw data.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The review results were recorded in a worksheet that provided the pass/fail compliance to each applicable EAC 2005 VVSG requirement. Dominion voting Systems corrected each nonconformance observation and resubmitted the associated documents for review. This process continued until the TDP complied with all applicable requirements.

Safety Related  ☐ YES ☑ NO  Potential 10 CFR Part 21  ☐ YES ☐ NO ☑ N/A
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☐ CUSTOMER ☑ WYLE
CAR Required: ☐ YES ☑ NO  CAR No:

VERIFICATION:

TEST WITNESS:  PROJECT ENGINEER:  
REPRESENTING:  INTERDEPARTMENTAL  
COORDINATION:  
QUALITY ASSURANCE:  

WH 1068, Rev. March '09
# NOTICE OF ANOMALY

**NOTICE NO.:** 5  
**P.O. NUMBER:** DVS 0965  
**CONTRACT NO.:** N/A  
**CUSTOMER:** Dominion Voting Systems  
**WYLE JOB NO.:** T57381.01  
**NOTIFICATION MADE TO:** Armer Chaudrey  
**NOTIFICATION MADE BY:** Michael L. Walker  
**DATE OF ANOMALY:** 10-13-11  
**VIA:** e-mail

## REQUISUREMENTS:

Vote scanning and counting equipment for paper-based systems, and all DRE equipment, shall be able to withstand ±15 kV air discharge and ±8 kV contact discharge without damage or loss of data. The equipment may reset or have momentary interruption so long as normal operation is resumed without human intervention or loss of data. Loss of data means votes that have been completed and confirmed to the voter.

*Note:* The system hardware shall be operational and processing data, e.g., casting of ballots throughout all testing. The use of an autovote test script is recommended.

## DESCRIPTION OF ANOMALY:

10-13-11: Testing was performed on ICE2P1006. At the conclusion of the test it was noted that the touchscreen was non-responsive. The unit was powered down and restarted and successfully subjected to the post-operational status check.

10-21-11: Testing commenced on ICE2P1006. The touchscreen became unresponsive after five pulses at 15kV air on the LCD. The unit was replaced with ICE2P1007, and testing was repeated. It was noted that the touchscreen on this unit became unresponsive after six pulses at 15 kV air on the LCD.

10-27-11: Following a source code revision to re-initialize the touchscreen controller and a hardware modification to include Kapton tape applied to the edges of the touchscreen LCD prior to installing the plastic cover, the test was successfully completed on ICE2P1007.

## DISPOSITION • COMMENTS • RECOMMENDATIONS:

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<td>customer</td>
<td>wyle</td>
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<td>NO</td>
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## VERIFICATION:

**TEST WITNESS:** N/A  
**PROJECT ENGINEER:**  
**PROJECT MANAGER:**  
**REPRESENTING:**  
**QUALITY ASSURANCE:**

WH 1066, Rev. March '09  
Page 1 of 1
## NOTICE OF ANOMALY

**DATE:** 12-1-11

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<td>PARA. NO:</td>
<td>Section 4.8</td>
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### REQUIREMENTS:
Vote scanning and counting equipment for paper-based systems, and all DRE equipment, shall be able to withstand, without disruption of normal operation or loss of data, surges of:

- ± 2 kV AC line to line
- ± 2 kV AC line to earth

Note: The system hardware shall be operational and processing data, e.g., casting of ballots throughout all testing. The use of an autovote test script is recommended.

### DESCRIPTION OF ANOMALY:
9-21-11: At the conclusion of the test, it was noted that the unit was operating on battery backup. It was verified that the power supply was not producing power to the unit. The existing power pack/ac adapter was changed. The unit displayed an error message indicating that the battery level was low.

9-27-11: At the first lightning pulse (+2 kV), the power supply lost power and the unit switched to battery backup. Testing was halted per the direction of the Dominon technical representative.

10-11-11: The power brick was replaced with a new brick (same type and model). The test was repeated with no anomalies noted.

### DISPOSITION • COMMENTS • RECOMMENDATIONS:

<table>
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<th>Safety Related</th>
<th>☑ YES</th>
<th>☑ NO</th>
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**RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21:** ☑ CUSTOMER ☑ WYLE

**CAR Required:** ☑ YES ☑ NO ☑ N/A

**CAR No.**

**VERIFICATION:**

- **TEST WITNESS:** N/A
- **PROJECT ENGINEER:** [Signature]
- **PROJECT MANAGER:** [Signature]
- **REPRESENTING:**
- **INTERDEPARTMENTAL COORDINATION:**

**QUALITY ASSURANCE:** [Signature] 1/25/12

WH 1066, Rev. March '09
NOTICE OF ANOMALY

NOTICE NO: 7  P.O. NUMBER: DVS 0965  CONTRACT NO: N/A

CUSTOMER: Dominion Voting Systems  WYLE JOB NO: T57381.01
NOTIFICATION MADE TO: Ed Smith  NOTIFICATION DATE: 12/19/2011
NOTIFICATION MADE BY: Michael Walker  VIA: E-mail

CATEGORY: [ ] SPECIMEN  [ ] PROCEDURE  [x] TEST EQUIPMENT  DATE OF ANOMALY: 12/19/2011
PART NAME: ImageCast Evolution  PART NO. ICE2P1005
TEST: Temp Power  I.D. NO.
SPECIFICATION: 2005 VVSG Vol II  PARA. NO. Section 4.7.1

REQUIREMENTS:
The EUT shall not demonstrate any signs of operational failure or degradation of performance when subjected to a Temperature and Power Variation Test in accordance with section 4.7.1 of Volume II of the VVSG. The purpose of this test is to evaluate system operation under various environmental conditions. The duration of the test is 163 hours, with 48 hours in the environmental test chamber. For the remaining hours, the equipment may be operated at room temperature. This test is similar to the low temperature and high temperature tests of MIL-STD-810-D, Method 502.2 and Method 501.2.

To Perform the test, the EUT shall be placed inside an environmental walk-in test chamber and connected to a variable voltage power source. The temperature inside the chamber and the voltage supplied to the hardware shall be varied from 40°F to 100°F and from 105 VAC to 129 VAC. During test performance, the operational functions shall be continuously exercised by the scanning of ballots and the generation of ballots via audio voting. A minimum of 100 ballots per hour shall be scanned.

The following EUT serial numbers shall be tested:

<table>
<thead>
<tr>
<th>EUT 1</th>
<th>EUT 2</th>
<th>EUT 3*</th>
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<tbody>
<tr>
<td>ICE2P1005</td>
<td>ICE2P1008</td>
<td>ICE2P1007</td>
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</table>

*configured to generate audio ballots only
<table>
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<td>[ ] PROCEDURE</td>
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<td>Section 4.7.1</td>
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**DESCRIPTION OF ANOMALY:**

Anomalies occurred during the first two test runs of the Temperature/Power Variation Test. Summaries of each run are provided below.

**Run 1**

Testing commenced on 12/19/2011. During test performance the polls were closed to allow for an interim results total verification. Each of the units under test had result tapes printed for visual verification. It was discovered on unit ICE2P1005 that a vote was missing for the County Comptroller Seat A race under candidate Charles Place. The expected result was 238 votes in which this candidate only received 237. It was verified that this was the only race that was affected. The test was halted due to incorrect tally of expected results and data provided to Dominion to research for a root cause.

**Run 2**

Testing commenced on 12/19/2011. During the 2nd run of the test deck a ballot became jammed inside of unit ICE2P1005. The security key was inserted and the paper jam resolution was engaged with no resolution. This method was attempted 4 times in an effort to clear the ballot. The system indicated via screen dispaly message that the ballot was tabulated and therefore the ballot could not be returned through the input slot returning it to the voter. The ballot box was opened and the ballot was physically removed from the paper path. The test was halted at this time due to the paper jam and increased concern of the unit continuing. Dominion advised this was a mechanical error in which TDP documentation supports the resolution to remove the unit and replace it. The unit was removed from the testing chamber along with data provided to Dominion. Dominion sending a hardware engineer to inspect the unit onsite at Wyle to determine a root cause. It was agreed between Wyle, Dominion, and EAC that this unit would be returned to testing and included in the accuracy testing portion of the campaign.

**Run 3**

Testing commenced on 12/19/2011. Unit ICE2P1005 was replaced with ICE2P10013. A 3rd unit ICE2P1006 was introduced to the test in order to provide additional data and the test ran for 64 hours completing with no further anomalies.
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<td>[] PROCEDURE</td>
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**DISPOSITION • COMMENTS • RECOMMENDATIONS:**

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**RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21:**
- ☐ CUSTOMER
- ☑ WYLE

CAR Required: ☐ YES ☐ NO

CAR No.

**VERIFICATION:**

- TEST WITNESS: N/A
- PROJECT ENGINEER: [Signature]
- PROJECT MANAGER: [Signature]

**REPRESENTING:**

- INTERDEPARTMENTAL COORDINATION: [Signature]

**QUALITY ASSURANCE:**

- [Signature] 1/25/12
## NOTICE OF ANOMALY

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<td>NOTIFICATION DATE: 02/22/2012</td>
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<td>NOTIFICATION MADE BY: Michael Walker</td>
<td>VIA: E-mail &amp; Phone</td>
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### CATEGORY:
- [ ] SPECIMEN  [ ] PROCEDURE  [x] TEST EQUIPMENT

### DATE OF ANOMALY: 02/22/2012

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### REQUIREMENTS:

#### 3.1.6 Interaction Issues

The voting process shall be designed to minimize interaction difficulties for the voter.

a. Voting machines with electronic image displays shall not require page scrolling by the voter.

Discussion: This is not an intuitive operation for those unfamiliar with the use of computers. Even those experienced with computers often do not notice a scroll bar and miss information at the bottom of the "page." Voting systems may require voters to move to the next or previous "page."

b. The voting machine shall provide unambiguous feedback regarding the voter's selection, such as displaying a checkmark beside the selected option or conspicuously changing its appearance.

c. If the voting machine requires a response by a voter within a specific period of time, it shall issue an alert at least 20 seconds before this time period has expired and provide a means by which the voter may receive additional time.

d. Input mechanisms shall be designed to minimize accidental activation.

i. On touch screens, the sensitive touch areas shall have a minimum height of 0.5 inches and minimum width of 0.7 inches. The vertical distance between the centers of adjacent areas shall be at least 0.6 inches, and the horizontal distance at least 0.8 inches.

ii. No key or control on a voting machine shall have a repetitive effect as a result of being held in its active position.
NOTICE OF ANOMALY

DATE: 02/22/2012

NOTICE NO: 8  P.O. NUMBER: DVS 0965  CONTRACT NO: N/A
CUSTOMER: Dominion Voting Systems  WYLE JOB NO: T57381.01
NOTIFICATION MADE TO: Ed Smith  NOTIFICATION DATE: 02/22/2012
NOTIFICATION MADE BY: Michael Walker  VIA: E-mail

CATEGORY: [ ] SPECIMEN  [ ] PROCEDURE  [X] TEST EQUIPMENT DATE OF ANOMALY: 02/22/2012
PART NAME: Audio Tactile Interface  PART NO. ATI-57381-005
TEST: System Integration  I.D. NO.
SPECIFICATION: 2005 VVSG Vol 1  PARA. NO. Section 3.1.6

DESCRIPTION OF ANOMALY:

Anomalies occurred during the first run of the System Integration Test on the ImageCast Evolution (ICE) tabulator. Summaries of each issue with Audio Tactile Interface (ATI) are provided below.

Issue 1

A repeating effect was observed when utilizing the ATI along with a binary input device (Foot switch or Sip-and-Puff).

For the Foot Switch, the expected behavior requires a “press and release” action to scroll through the list of candidates in a contest. However, a repeating effect was observed where pressing the foot switch moved the selection forward one and releasing moved the selection forward yet again.

For the Sip-and-Puff device, the expected behavior requires a “sip” action to scroll through the list of candidates in a contest. However, a repeating effect was observed when a longer than average “sip” action moved the selection forward through multiple candidates.

Issue 2

A random ATI connectivity issue was observed when utilizing the ATI along with a binary input device (Foot switch or Sip-and-Puff). The sequence of steps followed when preparing for an Accessible Voting Session were to connect the ATI Ethernet cable to the ICE tabulator, then initiate the voting session via the ICE touchscreen. At times the ATI was unresponsive after initiating the voting session, while other times ATI connectivity was properly established.

Issue 3

At times while voting a ballot via the ATI along with a binary input device, the voting session would become unresponsive. This issue was observed while utilizing both the foot switches and Sip-and-Puff devices. The only resolution was to apply the security token and exit the Accessible Voting Session.
NOTICE NO: 8  P.O. NUMBER: DVS 0965  CONTRACT NO: N/A
CUSTOMER: Dominion Voting Systems  WYLE JOB NO: T57381.01
NOTIFICATION MADE TO: Ed Smith  NOTIFICATION DATE: 02/22/2012
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ANOMALY: 02/22/2012
PART NAME: Audio Tactile Interface  PART NO: ATI-57381-005
TEST: System Integration  I.D. NO: ~
SPECIFICATION: 2005 VVSG Vol I  PARA. NO: Section 3.1.6

DISPOSITION • COMMENTS • RECOMMENDATIONS:
NOA submitted to Dominion Voting Systems requesting a Root Cause Analysis (RCA) to be provided.

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☐ CUSTOMER  X WYLE
CAR Required: ☒ YES  ☐ NO  CAR No.

VERIFICATION:  PROJECT ENGINEER: Jon Stevenson
TEST WITNESS: Chris Iskander  PROJECT MANAGER: Michael Walker
REPRESENTING: Dominion Voting Systems  INTERDEPARTMENTAL
QUALITY ASSURANCE: ~  COORDINATION: ~