

WYLE TEST REPORT NO. T57381.01

APPENDIX A.1

NOTICES OF ANOMALY

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		DATE: 07/21/11
NOTICE NO: <u>1</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>Dominion Voting Systems</u>		WYLE JOB NO: <u>T57381.01</u>
NOTIFICATION MADE TO: <u>Chris Iskander</u>		NOTIFICATION DATE: <u>07/07/11</u>
NOTIFICATION MADE BY: <u>Michael Walker</u>		VIA: <u>verbally</u>
CATEGORY: <input checked="" type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> TEST EQUIPMENT		DATE OF ANOMALY: <u>07/07/11</u>
PART NAME: <u>Democracy Suite ICPA System</u>		PART NO. <u>WLDAFBH0019</u>
TEST: <u>Acoustic Level and Hearing Aid Compatability</u>		I.D. NO. <u>---</u>
SPECIFICATION: <u>EAC 2005 VVSG, Volume I</u>		PARA. NO. <u>Sec. 3.2.2.2</u>
REQUIREMENTS:		
<p>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.</p>		
DESCRIPTION OF ANOMALY:		
<p>The initial volume level was measured to be greater than the maximum accepted level of 50 dB.</p>		
DISPOSITION • COMMENTS • RECOMMENDATIONS:		
<p>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.</p>		
Safety Related <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Potential 10 CFR Part 21 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A		
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> WYLE		
CAR Required: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CAR No.		
VERIFICATION: TEST WITNESS: <u>Chris Iskander</u>	PROJECT ENGINEER: <u>Wendy Owens 7/25/11</u> PROJECT MANAGER: <u>Ralph A. King 7/25/11</u>	
REPRESENTING: <u>Dominion Voting Systems</u>	INTERDEPARTMENTAL COORDINATION: _____	
QUALITY ASSURANCE: <u>Ralph A. King 7/25/11</u>		



NOTICE OF ANOMALY		DATE: 07/25/11
NOTICE NO: <u>2</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>Dominion Voting Systems</u>	WYLE JOB NO: <u>T57381.01</u>	
NOTIFICATION MADE TO: <u>Reed Bodwell</u>	NOTIFICATION DATE: <u>07/22/11</u>	
NOTIFICATION MADE BY: <u>Michael Walker</u>	VIA: <u>e-mail</u>	
CATEGORY: <input checked="" type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> TEST EQUIPMENT	DATE OF ANOMALY: <u>06/07/11 - 07/22/11</u>	
PART NAME: <u>Democracy Suite ICPA System</u>	PART NO. <u>---</u>	
TEST: <u>Source Code Review</u>	I.D. NO. <u>Wyle Review Summaries</u>	
SPECIFICATION: <u>EAC 2005 VVSG, Volume I</u>	PARA. NO. <u>Section 5</u>	
REQUIREMENTS:		
<p>Software used in voting systems shall meet the essential design and performance characteristics detailed in Section 5 of the EAC 2005 VVSG.</p>		
DESCRIPTION OF ANOMALY:		
<p>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.</p>		
DISPOSITION • COMMENTS • RECOMMENDATIONS:		
<p>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.</p>		
Safety Related <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Potential 10 CFR Part 21 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A		
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> WYLE		
CAR Required: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CAR No. _____		
VERIFICATION: TEST WITNESS: _____ REPRESENTING: _____ QUALITY ASSURANCE: <u>Ralph Hewitt 7/25/11</u>	PROJECT ENGINEER: <u>[Signature] 7/25/11</u> PROJECT MANAGER: <u>Ralph Hewitt 7/25/11</u> INTERDEPARTMENTAL COORDINATION: _____	



NOTICE OF ANOMALY		DATE: 07/24/11
NOTICE NO: <u>3</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>Dominion Voting Systems</u>		WYLE JOB NO: <u>T57381.01</u>
NOTIFICATION MADE TO: <u>Chris Iskander</u>		NOTIFICATION DATE: <u>07/22/11</u>
NOTIFICATION MADE BY: <u>Jack Cobb</u>		VIA: <u>verbally</u>
CATEGORY: <input checked="" type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> TEST EQUIPMENT		DATE OF ANOMALY: <u>07/07/11</u>
PART NAME: <u>PCOS 320A ImageCast Precinct Tabulator</u>		PART NO. <u>WLDAFBH0018</u>
TEST: <u>Functional Configuration Audit (FCA)</u>		I.D. NO. <u>---</u>
SPECIFICATION: <u>EAC 2005 VVSG, Volume I</u>		PARA. NO. <u>Sec. 2.1.4</u>
REQUIREMENTS:		
<p>Per Section 2.1.4 "Integrity" of the EAC 2005 VVSG, to ensure system integrity, all systems shall:</p> <p style="padding-left: 40px;">g. Record and report the date and time of normal and abnormal events</p>		
DESCRIPTION OF ANOMALY:		
<p>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.</p>		
DISPOSITION • COMMENTS • RECOMMENDATIONS:		
<p>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.</p>		
Safety Related <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Potential 10 CFR Part 21 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A		
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> WYLE		
CAR Required: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CAR No. _____		
VERIFICATION: TEST WITNESS: _____ REPRESENTING: _____	PROJECT ENGINEER: <u>Jack Cobb 7/25/11</u> PROJECT MANAGER: <u>Rachel Haupt 7/25/11</u> INTERDEPARTMENTAL COORDINATION: _____	
QUALITY ASSURANCE: <u>Rachel Haupt 7/25/11</u>		



ORIGINAL NOTICE OF ANOMALY		DATE: 07/28/11
NOTICE NO: 4	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: 07/28/11	
NOTIFICATION MADE BY: Diane Gray	VIA: e-mail	
CATEGORY: <input checked="" type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> 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 <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Potential 10 CFR Part 21 <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A		
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> WYLE		
CAR Required: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CAR No. _____		
VERIFICATION:	PROJECT ENGINEER: <i>[Signature]</i> 11/29/11	
TEST WITNESS: _____	PROJECT MANAGER: <i>[Signature]</i> 11/29/11	
REPRESENTING: _____	INTERDEPARTMENTAL COORDINATION: _____	
QUALITY ASSURANCE: <i>[Signature]</i> 11/29/11		

NOTICE OF ANOMALY		DATE: 11-29-11
NOTICE NO: <u>5</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>Dominion Voting Systems</u>	WYLE JOB NO: <u>T57381.01</u>	
NOTIFICATION MADE TO: <u>Aamer Chaudrey</u>	NOTIFICATION DATE: <u>10-13-11</u>	
NOTIFICATION MADE BY: <u>Michael L. Walker</u>	VIA: <u>e-mail</u>	
CATEGORY: <input checked="" type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> TEST EQUIPMENT	DATE OF ANOMALY: <u>10-13-11</u>	
PART NAME: <u>ImageCast Evolution (ICE)</u>	PART NO. <u>---</u>	
TEST: <u>Electrostatic Disruption</u>	I.D. NO. <u>ICE2P1006, ICE2P1007</u>	
SPECIFICATION: <u>EAC 2005 VVSG, Volume II</u>	PARA. NO. <u>Section 4.8</u>	
REQUIREMENTS:		
<p>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.</p> <p>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.</p>		
DESCRIPTION OF ANOMALY:		
<p>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.</p> <p>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.</p> <p>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.</p>		
DISPOSITION • COMMENTS • RECOMMENDATIONS:		
<p>Safety Related <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Potential 10 CFR Part 21 <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A</p> <p>RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> WYLE</p> <p>CAR Required: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CAR No. _____</p>		
VERIFICATION:		PROJECT ENGINEER: <u><i>[Signature]</i> 11/29/11</u>
TEST WITNESS: <u>N/A</u>	PROJECT MANAGER: <u><i>[Signature]</i> 11/29/11</u>	
REPRESENTING: _____	INTERDEPARTMENTAL COORDINATION: _____	
QUALITY ASSURANCE: <u><i>[Signature]</i> 1/25/12</u>	_____	

NOTICE OF ANOMALY		DATE: 12-1-11
NOTICE NO: <u>6</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>Dominion Voting Systems</u>		WYLE JOB NO: <u>T57381.01</u>
NOTIFICATION MADE TO: <u>Aamer Chaudrey</u>		NOTIFICATION DATE: <u>9-21-11</u>
NOTIFICATION MADE BY: <u>Michael L. Walker</u>		VIA: <u>e-mail</u>
CATEGORY: <input checked="" type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input type="checkbox"/> TEST EQUIPMENT		DATE OF ANOMALY: <u>9-21-11</u>
PART NAME: <u>ImageCast Evolution (ICE)</u>		PART NO. <u>---</u>
TEST: <u>Lightning Surge</u>		I.D. NO. <u>ICE2P1005</u>
SPECIFICATION: <u>EAC 2005 VVSG, Volume II</u>		PARA. NO. <u>Section 4.8</u>
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 Dominion 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:		
Safety Related <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Potential 10 CFR Part 21 <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A		
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER <input type="checkbox"/> WYLE		
CAR Required: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CAR No. _____		
VERIFICATION:	PROJECT ENGINEER: <u><i>[Signature]</i> 12/1/11</u>	
TEST WITNESS: <u>N/A</u>	PROJECT MANAGER: <u><i>[Signature]</i> 12/1/11</u>	
REPRESENTING: _____	INTERDEPARTMENTAL COORDINATION: _____	
QUALITY ASSURANCE: <u><i>[Signature]</i> 1/25/12</u>	_____	

NOTICE OF ANOMALY		DATE: 12/21/2011
NOTICE NO: <u>7</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>Dominion Voting Systems</u>		WYLE JOB NO: <u>T57381.01</u>
NOTIFICATION MADE TO: <u>Ed Smith</u>		NOTIFICATION DATE: <u>12/19/2011</u>
NOTIFICATION MADE BY: <u>Michael Walker</u>		VIA: <u>E-mail</u>
CATEGORY: <input type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input checked="" type="checkbox"/> TEST EQUIPMENT	DATE OF ANOMALY: <u>12/19/2011</u>	
PART NAME: <u>ImageCast Evolution</u>	PART NO. <u>ICE2P1005</u>	
TEST: <u>Temp Power</u>	I.D. NO. _____	
SPECIFICATION: <u>2005 VVSG Vol II</u>	PARA. NO. <u>Section 4.7.1</u>	
REQUIREMENTS:		
<p>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.</p>		
<p>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.</p>		
<p>The following EUT serial numbers shall be tested:</p>		
EUT 1	EUT 2	EUT 3*
ICE2P1005	ICE2P1008	ICE2P1007
<p>*configured to generate audio ballots only</p>		

NOTICE OF ANOMALY		DATE: 12/21/2011
NOTICE NO: <u>7</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>Dominion Voting Systems</u>		WYLE JOB NO: <u>T57381.01</u>
NOTIFICATION MADE TO: <u>Ed Smith</u>		NOTIFICATION DATE: <u>12/19/2011</u>
NOTIFICATION MADE BY: <u>Michael Walker</u>		VIA: <u>E-mail</u>
CATEGORY: <input type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input checked="" type="checkbox"/> TEST EQUIPMENT		DATE OF ANOMALY: <u>12/19/2011</u>
PART NAME: <u>ImageCast Evolution</u>		PART NO. <u>ICE2P1005</u>
TEST: <u>Temp Power</u>		I.D. NO. _____
SPECIFICATION: <u>2005 VVSG Vol II</u>		PARA. NO. <u>Section 4.7.1</u>
DESCRIPTION OF ANOMALY:		
<p>Anomalies occurred during the first two test runs of the Temperature/Power Variation Test. Summaries of each run are provided below.</p> <p><u>Run 1</u></p> <p>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.</p> <p><u>Run 2</u></p> <p>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 display message that the ballot was tabulated and therefor 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.</p> <p><u>Run 3</u></p> <p>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.</p>		

NOTICE OF ANOMALY		DATE: 12/21/2011
NOTICE NO: <u>7</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>Dominion Voting Systems</u>		WYLE JOB NO: <u>T57381.01</u>
NOTIFICATION MADE TO: <u>Ed Smith</u>		NOTIFICATION DATE: <u>12/19/2011</u>
NOTIFICATION MADE BY: <u>Michael Walker</u>		VIA: <u>E-mail</u>
CATEGORY: <input type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input checked="" type="checkbox"/> TEST EQUIPMENT		DATE OF ANOMALY: <u>12/19/2011</u>
PART NAME: <u>ImageCast Evolution</u>		PART NO. <u>ICE2P1005</u>
TEST: <u>Temp Power</u>		I.D. NO. _____
SPECIFICATION: <u>2005 VVSG Vol II</u>		PARA. NO. <u>Section 4.7.1</u>
DISPOSITION • COMMENTS • RECOMMENDATIONS:		
RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: <input type="checkbox"/> CUSTOMER * <input checked="" type="checkbox"/> WYLE		
CAR Required: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CAR No. _____	
VERIFICATION:	PROJECT ENGINEER:	<u>[Signature] 12/21/11</u>
TEST WITNESS: <u>N/A</u>	PROJECT MANAGER:	<u>[Signature] 12/21/11</u>
REPRESENTING:	INTERDEPARTMENTAL COORDINATION:	_____
QUALITY ASSURANCE: <u>[Signature] 1/25/12</u>	_____	



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 & Phone	
CATEGORY: <input type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input checked="" type="checkbox"/> TEST EQUIPMENT		DATE OF ANOMALY: 02/22/2012	
PART NAME: Audio Tactile Interface		PART NO. _____	
TEST: System Integration		I.D. NO. _____	
SPECIFICATION: 2005 VVSG Vol I		PARA. NO. Section 3.1.6	
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: <u>8</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>	
CUSTOMER: <u>Dominion Voting Systems</u>		WYLE JOB NO: <u>T57381.01</u>	
NOTIFICATION MADE TO: <u>Ed Smith</u>		NOTIFICATION DATE: <u>02/22/2012</u>	
NOTIFICATION MADE BY: <u>Michael Walker</u>		VIA: <u>E-mail</u>	
CATEGORY: <input type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input checked="" type="checkbox"/> TEST EQUIPMENT		DATE OF ANOMALY: <u>02/22/2012</u>	
PART NAME: <u>Audio Tactile Interface</u>		PART NO. <u>ATI-57381-005</u>	
TEST: <u>System Integration</u>		I.D. NO. _____	
SPECIFICATION: <u>2005 VVSG Vol I</u>		PARA. NO. <u>Section 3.1.6</u>	
DESCRIPTION OF ANOMALY:			
<p>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.</p>			
<u>Issue 1</u>			
<p>A repeating effect was observed when utilizing the ATI along with a binary input device (Foot switch or Sip-and-Puff).</p> <p>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.</p> <p>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.</p>			
<u>Issue 2</u>			
<p>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.</p>			
<u>Issue 3</u>			
<p>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.</p>			
NOTICE OF ANOMALY			DATE: 02/22/2012

NOTICE NO: <u>8</u>	P.O. NUMBER: <u>DVS 0965</u>	CONTRACT NO: <u>N/A</u>
CUSTOMER: <u>Dominion Voting Systems</u>	WYLE JOB NO: <u>T57381.01</u>	
NOTIFICATION MADE TO: <u>Ed Smith</u>	NOTIFICATION DATE: <u>02/22/2012</u>	
NOTIFICATION MADE BY: <u>Michael Walker</u>	VIA: <u>E-mail</u>	
CATEGORY: <input type="checkbox"/> SPECIMEN <input type="checkbox"/> PROCEDURE <input checked="" type="checkbox"/> TEST EQUIPMENT	DATE OF ANOMALY: <u>02/22/2012</u>	
PART NAME: <u>Audio Tactile Interface</u>	PART NO. <u>ATI-57381-005</u>	
TEST: <u>System Integration</u>	I.D. NO. _____	
SPECIFICATION: <u>2005 VVSG Vol I</u>	PARA. NO. <u>Section 3.1.6</u>	
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: <input type="checkbox"/> CUSTOMER <input checked="" type="checkbox"/> WYLE		
CAR Required: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO CAR No. _____		
VERIFICATION:	PROJECT ENGINEER: <u>Jon Stevenson</u>	
TEST WITNESS: <u>Chris Iskander</u>	PROJECT MANAGER: <u>Michael Walker</u>	
REPRESENTING: <u>Dominion Voting Systems</u>	INTERDEPARTMENTAL COORDINATION: _____	
QUALITY ASSURANCE: _____		