WYLE TEST REPORT NO. T59087.01

APPENDIX A.1

NOTICES OF ANOMALY

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NOTICE OF ANOMALY	DATE: 05/10/2012

NOTICE NO: 1 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 05/07/2012

NOTIFICATION MADE BY: Stephen Han VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 05/04/2012

PART NAME: ES&S DS200 w/landline modem PART NO. DS200

TEST: Vibration Test IAW 2005 VVSG Volume I Section 4.1.2.14 I.D. NO. ES0108330201

SPECIFICATION: MIL-STD-810D, Basic Transportation, Common Carrier PARA. NO. Method 514.3, Category 1

REQUIREMENTS: 2005 VVSG Volume I Section 4.1.2.14

Test item shall be capable of simulated vibration that would be encountered in normal handling and transportation by surface and air common carriers using a vibration environment equivalent to the procedure in MIL-STD-810D, Method 514.3, Category 1, Basic Transportation, Common Carrier.

DESCRIPTION OF ANOMALY:

Following the vibration test performed on May 4, 2012, the Unit Under Test was examined for anomalies that may have occurred during testing. It was discovered, upon opening the door that covers the USB ports and power switch, that parts from the lock for the door had become loose and had fallen into the area surrounding the USB ports. Photographs were taken of the anomaly and the remainder of the examination revealed no further issues.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

PROJECT ENGINEER: Stephen Han 5/10/12

TEST WITNESS:

PROJECT MANAGER: Frank Robert 5/10/12

REPRESENTING: ES&S

INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: Patrick Bourque 5/10/12

WH-1066, Rev. MAR '09

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NOTICE OF ANOMALY	DATE: 05/10/2012

NOTICE NO: 2 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 05/07/2012

NOTIFICATION MADE BY: Stephen Han VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 05/04/2012

PART NAME: ES&S DS200 w/wireless modem PART NO. DS200

TEST: Vibration Test IAW 2005 VVSG Volume I Section 4.1.2.14 I.D. NO. ES107390482

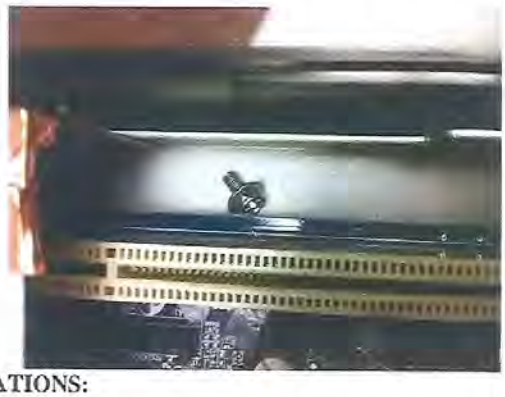
SPECIFICATION: MIL-STD-810D, Basic Transportation, Common Carrier PARA. NO. Method 514.3, Category 1

REQUIREMENTS: 2005 VVSG Volume I Section 4.1.2.14

Test item shall be capable of simulated vibration that would be encountered in normal handling and transportation by surface and air common carriers using a vibration environment equivalent to the procedure in MIL-STD-810D, Method 514.3, Category 1, Basic Transportation, Common Carrier.

DESCRIPTION OF ANOMALY:

Following the vibration test performed on May 4, 2012, the Unit Under Test was examined for anomalies that may have occurred during testing. It was discovered, upon opening the exterior cover, that covers a screw with a captive washer had become loose and fallen into the bottom area adjacent to a large connector assembly on a metal tray. Photographs were taken of the anomaly and the remainder of the examination revealed no further issues.



DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

PROJECT ENGINEER: Stephen Han 5/10/12

TEST WITNESS:

PROJECT MANAGER: [illegible] 5/10/12

REPRESENTING: ES&S

INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: [illegible] 5/10/12

WH-1066, Rev. MAR '09

wyle laboratories ORIGINAL

NOTICE OF ANOMALY	DATE: 05/17/2012

NOTICE NO: 3 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A
CUSTOMER: ES&S WYLE JOB NO: T59087
NOTIFICATION MADE TO: Sue McKay NOTIFICATION DATE: 05/16/2012
NOTIFICATION MADE BY: Stephen Han VIA: Email

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 05/16/2012
PART NAME: ES&S DS200 w/landline modem PART NO. DS200
TEST: Vibration Test IAW 2005 VVSG Volume I Section 4.1.2.14 I.D. NO. ES0108330201
SPECIFICATION: MIL-STD-810D, Basic Transportation, Common Carrier PARA. NO. Method 514.3, Category 1

REQUIREMENTS: 2005 VVSG Volume I Section 4.1.2.14

Test item shall be capable of simulated vibration that would be encountered in normal handling and transportation by surface and air common carriers using a vibration environment equivalent to the procedure in MIL-STD-810D, Method 514.3, Category 1, Basic Transportation, Common Carrier.

DESCRIPTION OF ANOMALY:

During the setup of the vibration test, the UUT was dropped on its side causing the whole carrying case with the DS200 in it to come apart from the lower part of ballot box. The DS200 and carrying case dropped from the vibration table to the concrete floor. The carrying case and the DS200 were damaged. The UUT was examined and a determination was made that the UUT needed to be replaced. The serial number of the new UUT is ES0108340579.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The client requested that the UUT be replaced with another unit so the testing can continue. The damaged UUT will be sent back to the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:	PROJECT ENGINEER: Lynn D Chuff 5/17/12
TEST WITNESS:	PROJECT MANAGER: Stephen Ha 5/17/12
REPRESENTING: ES&S	INTERDEPARTMENTAL COORDINATION: N/A
QUALITY ASSURANCE: Buscemo 5/17/12	

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NOTICE OF ANOMALY	DATE: 05/17/2012

NOTICE NO: 4 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A
CUSTOMER: ES&S WYLE JOB NO: T59087
NOTIFICATION MADE TO: Adam Krajicek NOTIFICATION DATE: 05/17/2012
NOTIFICATION MADE BY: Stephen Han VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 05/16/2012
PART NAME: ES&S DS200 w/wireless modem PART NO. DS200
TEST: Vibration Test IAW 2005 VVSG Volume I Section 4.1.2.14 I.D. NO. ES107390482
SPECIFICATION: MIL-STD-810D, Basic Transportation, Common Carrier PARA. NO. Method 514.3, Category 1

REQUIREMENTS: 2005 VVSG Volume I Section 4.1.2.14

Test item shall be capable of simulated vibration that would be encountered in normal handling and transportation by surface and air common carriers using a vibration environment equivalent to the procedure in MIL-STD-810D, Method 514.3, Category 1, Basic Transportation, Common Carrier.

DESCRIPTION OF ANOMALY:

Following the vibration test performed on May 16, 2012, the Unit Under Test was examined for anomalies that may have occurred during testing. Initially a component was heard to be loose inside the LCD case. It was discovered, upon opening the exterior cover of the LCD, that a screw had become loose inside of the LCD case of the DS200. The like screw on the opposing side of the LCD bezel mount was found to be loose as well, but still attached. Photographs were taken of the anomaly and the remainder of the examination revealed some wear through 3 layers of material, exposing metal of the Li-ion Rechargable Battery.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:
PROJECT ENGINEER: [signature] 05/17/2012
TEST WITNESS:
PROJECT MANAGER: [signature] 5/17/12
REPRESENTING: ES&S
INTERDEPARTMENTAL COORDINATION: N/A
QUALITY ASSURANCE: [signature] 5/17/12

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NOTICE OF ANOMALY

IMAGE DOCUMENATION:

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NOTICE OF ANOMALY

DATE: 05/30/2012

NOTICE NO: 5 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 05/30/2012

NOTIFICATION MADE BY: Ryan Chambers VIA: In person

CATEGORY: [ ] SPECIMEN [ ] PROCEDURE [X] TEST EQUIPMENT DATE OF ANOMALY: 05/29/2012

PART NAME: Thermotron PART NO. FM-96-CHM-15-15-810C

TEST: Humidity Test IAW 2005 VVSG Volume I Section 4.1.2.14 I.D. NO. 50 / SN# 27-9643

SPECIFICATION: MIL-STD-810D, Basic Transportation, Common Carrier

PARA. NO. Method 507.2, Procedure I-Natural Hot-Humid

REQUIREMENTS: 2005 VVSG Volume I Section 4.1.2.14

The system hardware shall continue to operate anomaly free prior to and following the application of this test environment. Integrity measures the physical stability and function of the vote recording and counting processes. To ensure system integrity, all systems shall: d. Protect against ambient temperature and humidity fluctuations.

DESCRIPTION OF ANOMALY:

During the Humidity test being performed between May 25, 2012 – June 04, 2012, the Humidity Chamber suffered a controller failure on May 29, 2012. When the it was observed that the required environment could not be maintained, the test was halted and the units where removed from the failing chamber. A post-operational test was performed on all 4 UUT that where being tested in the humidity chamber at the time of said failure. Photographs were taken of the testing site. Testing was rescheduled to be performed between June 01, 2012 – June 11, 2012 in a alternate humidity chamber.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

A final disposition is not required by the client, due to the categorization of this failure as Test Equipment. Wyle comments that the humidity chamber failure will be investigated and rectified prior to future testing with said chamber.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☐ CUSTOMER ☒ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

PROJECT ENGINEER: Stephen Hu 1/3/13

TEST WITNESS:

PROJECT MANAGER: Frank Padilla 1/3/13

REPRESENTING: ES&S

INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: Brenda Moore 1/4/13

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NOTICE OF ANOMALY

IMAGE DOCUMENATION:

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NOTICE OF ANOMALY

DATE: 06/12/2012

NOTICE NO: 6 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 06/12/2012

NOTIFICATION MADE BY: Ryan Chambers VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [] TEST EQUIPMENT DATE OF ANOMALY: 06/12/2012

PART NAME: AutoMark PART NO. A100

TEST: Humidity Test IAW 2005 VVSG Volume I Section 4.1.2.14 I.D. NO. AM0106431724

SPECIFICATION: MIL-STD-810D. Basic Transportation. Common Carrier

PARA. NO. Method 507.2, Procedure I-Natural Hot-Humid

REQUIREMENTS: 2005 VVSG Volume I: Section 4.1.2.14

The system hardware shall continue to operate anomaly free prior to and following the application of this test environment. Integrity measures the physical stability and function of the vote recording and counting processes. To ensure system integrity, all systems shall: d. Protect against ambient temperature and humidity fluctuations.

DESCRIPTION OF ANOMALY:

After the being subjected to the Humidity test being performed between June 01, 2012 – June 11, 2012, the A100 failed to function properly during the Post Operating Status Check. When the it was observed that the UUT could not successfully mark 5 consecutive ballots, it was at that time that the A100 portion of the Humidity test was idenfied as a failure. Photographs were taken of the testing site. The reoccurring message during the failure was "Alert! A problem has occurred. Please notify an election official. There was an error while printing".

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

PROJECT ENGINEER: Stephen [illegible] 1/3/13

TEST WITNESS:

PROJECT MANAGER: [illegible] 1/3/13

REPRESENTING: ES&S

INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: Brenda Moore 1/3/13

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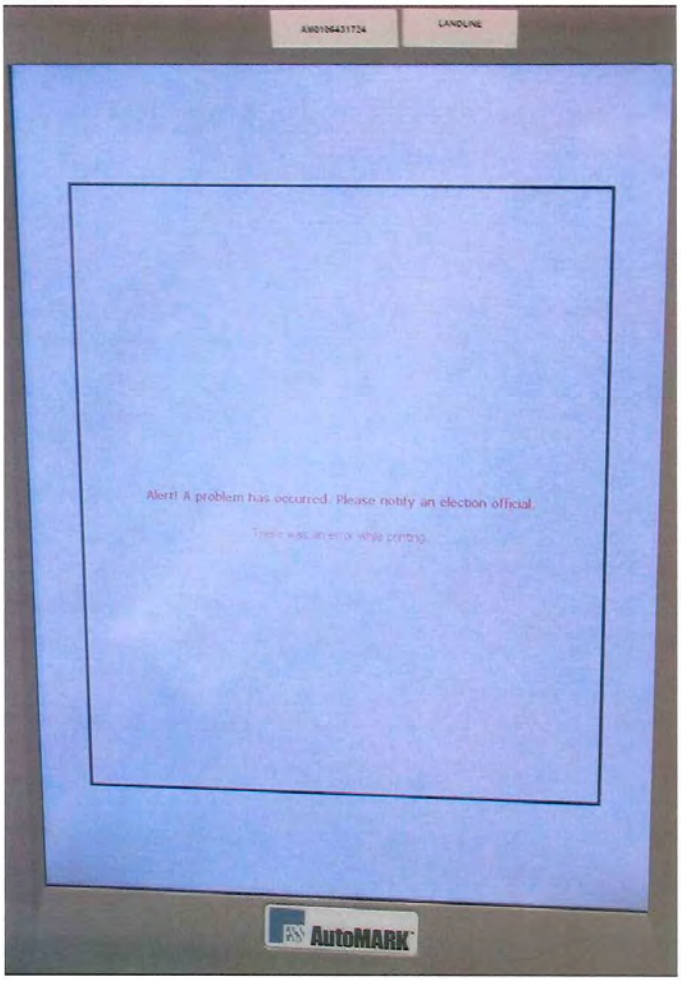
NOTICE OF ANOMALY

IMAGE DOCUMENATION:



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NOTICE OF ANOMALY

DATE: 06/19/2012

NOTICE NO: 7 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 06/19/2012

NOTIFICATION MADE BY: Ryan Chambers VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [] TEST EQUIPMENT DATE OF ANOMALY: 06/19/2012

PART NAME: DS200 PART NO. DS200

TEST: Electrical Supply Test I.D. NO. ES0107390482

SPECIFICATION: VVSG Volume I

PARA. NO. Section 4.1.2.4

REQUIREMENTS: 2005 VVSG Volume I: Section 4.1.2.4

The system hardware shall operate with the electrical supply ordinarily found in polling places (Nominal 120 Vac/60Hz/1 phase) and shall also be capable of operating for a period of at least 2 hours on backup power, such that no voting data is lost or corrupted nor normal operations interrupted. When backup power is exhausted the voting machine shall retain the contents of all memories intact.

DESCRIPTION OF ANOMALY:

After the being subjected to the Electrical Supply test being performed on June 19, 2012 the DS200's battery was depleted after only 1 hour, 37 minutes and 20 seconds. When the it was observed that the UUT shutdown prior to completing the 2 hour requirement, the Electrical Supply Test of the DS200 was idenfied as a failure. Photographs were taken of the testing site.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

PROJECT ENGINEER: Steph [illegible] 1/3/13

TEST WITNESS:

PROJECT MANAGER: Fred [illegible] 1/3/13

REPRESENTING: ES&S

INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: Brenda Moran 1/4/13

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NOTICE OF ANOMALY

IMAGE DOCUMENATION:

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NOTICE OF ANOMALY

DATE: 06/19/2012

NOTICE NO: 8 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 06/19/2012

NOTIFICATION MADE BY: Ryan Chambers VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [] TEST EQUIPMENT DATE OF ANOMALY: 06/19/2012

PART NAME: DS200 PART NO. DS200

TEST: Electrical Supply Test I.D. NO. ES0108340579

SPECIFICATION: VVSG Volume I

PARA. NO. Section 4.1.2.4

REQUIREMENTS: 2005 VVSG Volume I: Section 4.1.2.4

The system hardware shall operate with the electrical supply ordinarily found in polling places (Nominal 120 Vac/60Hz/1 phase) and shall also be capable of operating for a period of at least 2 hours on backup power, such that no voting data is lost or corrupted nor normal operations interrupted. When backup power is exhausted the voting machine shall retain the contents of all memories intact.

DESCRIPTION OF ANOMALY:

After the being subjected to the Electrical Supply test being performed on June 19, 2012 the DS200's battery was depleted after only 1 hour, 43 minutes and 6 seconds. When the it was observed that the UUT shutdown prior to completing the 2 hour requirement, the Electrical Supply Test of the DS200 was idenfied as a failure. Photographs were taken of the testing site.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

PROJECT ENGINEER: [signature] 1/3/13

TEST WITNESS:

PROJECT MANAGER: [signature] 1/3/13

REPRESENTING: ES&S

INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: Brenda Moss 1/4/13

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NOTICE OF ANOMALY

IMAGE DOCUMENATION:

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ORIGINAL

NOTICE OF ANOMALY

DATE: 06/12/2012

NOTICE NO: 9 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 06/12/2012

NOTIFICATION MADE BY: Ryan Chambers VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [] TEST EQUIPMENT DATE OF ANOMALY: 06/12/2012

PART NAME: AutoMark PART NO. A100

TEST: Acoustic Noise Level Test and Hearing Aid Compatibility I.D. NO. AM0106431724

SPECIFICATION: 2005 VVSG Volume I

PARA. NO. Section 3.2.2.2

REQUIREMENTS: 2005 VVSG Volume I: Section 3.2.2.2; Section 3.1.7.1; RFI 2009-05

The system hardware shall set the initial volume for each voter between 40 and 50 dB SPL. The voting machine shall provide a volume control with an adjustable volume from a minimum of 20 dB SPL up to a maximum of 100 dB SPL, in increments no greater than 10 dB.

DESCRIPTION OF ANOMALY:

After the being subjected to the Acoustic Noise Level Test and Hearing Aid Compatibility as performed on June 19, 2012. When it was observed that the A100 failed to achieve the required 100 dB SPL, it was at that time that the A100 portion of the Acoustic Noise Level Test and Hearing Aid Compatibility was identified as a failure. The highest volume produced by the UUT was 75 dB. Photographs were taken of the testing site.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

TEST WITNESS:

REPRESENTING: ES&S

QUALITY ASSURANCE: Patrick Moss 1/4/13

PROJECT ENGINEER: Stephen W 1/3/13

PROJECT MANAGER: Frank Padilla 1/3/13

INTERDEPARTMENTAL COORDINATION: N/A

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NOTICE OF ANOMALY

IMAGE DOCUMENATION:

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ORIGINAL

NOTICE OF ANOMALY

DATE: 06/12/2012

NOTICE NO: 10 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 06/12/2012

NOTIFICATION MADE BY: Ryan Chambers VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [] TEST EQUIPMENT DATE OF ANOMALY: 06/12/2012

PART NAME: AutoMark PART NO. A200

TEST: Acoustic Noise Level Test and Hearing Aid Compatibility I.D. NO. AM0208470626

SPECIFICATION: 2005 VVSG Volume I

PARA. NO. Section 3.2.2.2

REQUIREMENTS: 2005 VVSG Volume I: Section 3.2.2.2; Section 3.1.7.1; RFI 2009-05

The system hardware shall set the initial volume for each voter between 40 and 50 dB SPL. The voting machine shall provide a volume control with an adjustable volume from a minimum of 20 dB SPL put to a maximum of 100 dB SPL, in increments no greater than 10 dB.

DESCRIPTION OF ANOMALY:

After the being subjected to the Acoustic Noise Level Test and Hearing Aid Compatibility as performed on June 19, 2012. When it was observed that the A200 failed to achieve the required 100 dB SPL, it was at that time that the A200 portion of the Acoustic Noise Level Test and Hearing Aid Compatibility was identified as a failure. The highest volume produced by the UUT was 75 dB. Photographs were taken of the testing site.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

PROJECT ENGINEER: [signature] 1/3/13

TEST WITNESS:

PROJECT MANAGER: [signature] 1/3/13

REPRESENTING: ES&S

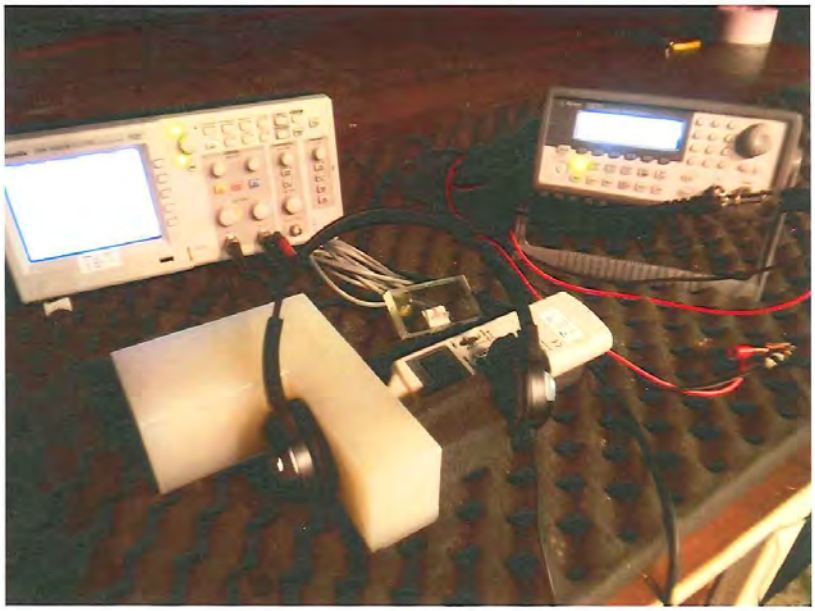
INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE:

wyle laboratories

NOTICE OF ANOMALY

IMAGE DOCUMENATION:



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NOTICE OF ANOMALY	DATE: 06/26/2012

NOTICE NO: 11 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Sue McKay NOTIFICATION DATE: 06/26/2012

NOTIFICATION MADE BY: Ryan Chambers VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 06/26/2012

PART NAME: ES&S D850 PART NO. DS850

TEST: Environmental Control – Operating Environment Test (Temperature and Power Variation Tests) 2005 VVSG Volume I Section 4.1.2.13; Volume II Section 4.7.1 I.D. NO. 8511090074

SPECIFICATION: MIL-STD-810D PARA. NO. Method 502.2 and 501.2

REQUIREMENTS: 2005 VVSG Volume I Section 4.1.2.14

Test item shall be capable of simulated temperature and power variation that would be encountered in normal opearating environments for voting systems using a environmental chambers and an adjustable power supply equivalent to the procedure in MIL-STD-810D, Method 502.2 and Method 501.2.

DESCRIPTION OF ANOMALY:

Following the Operating Environmental Test performed on June 26, 2012, the Unit Under Test was examined for anomalies that may have occurred during testing. After completing 18 hours of the scheduled 85 hours of testing, 6 ballot jams had occurred on the UUT and the testing was halted due to the quantity and frequency of failures achieved during the test. It was discovered, by the vendor during a root cause analysis phase that the UUT required a metal shim to be installed in the UUT. Digital images where taken of the test site and UUT.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

TEST WITNESS:

REPRESENTING: ES&S

QUALITY ASSURANCE: Brenda Moss 1/3/13

PROJECT ENGINEER: Stephen H 1/3/13

PROJECT MANAGER: Paul Robb 1/3/13

INTERDEPARTMENTAL COORDINATION: N/A

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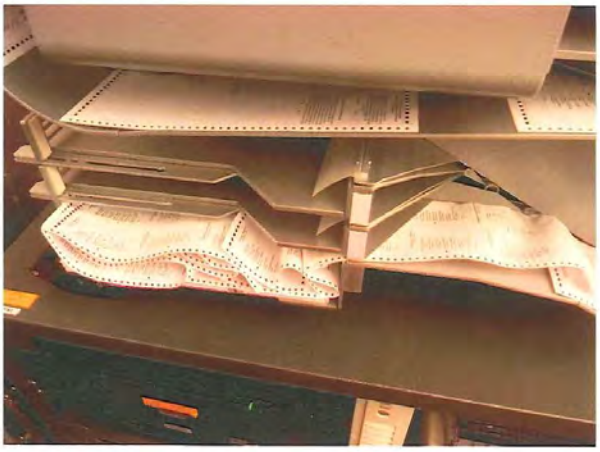
NOTICE OF ANOMALY

IMAGE DOCUMENATION:



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ORIGINAL

NOTICE OF ANOMALY

DATE: 06/29/2012

NOTICE NO: 12 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Sue McKay NOTIFICATION DATE: 06/29/2012

NOTIFICATION MADE BY: Ryan Chambers VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 06/29/2012

PART NAME: ES&S D850 PART NO. DS850

TEST: Environmental Control – Operating Environment Test (Temperature and Power Variation Tests) 2005 VVSG Volume I Section 4.1.2.13; Volume II Section 4.7.1 I.D. NO. 8511090074

SPECIFICATION: MIL-STD-810D PARA. NO. Method 502.2 and 501.2

REQUIREMENTS: 2005 VVSG Volume I Section 4.1.2.14

Test item shall be capable of simulated temperature and power variation that would be encountered in normal opearating environments for voting systems using a environmental chambers and an adjustable power supply equivalent to the procedure in MIL-STD-810D, Method 502.2 and Method 501.2.

DESCRIPTION OF ANOMALY:

Following the Operating Environmental Test performed on June 29, 2012, the Unit Under Test was examined for anomalies that may have occurred during testing. After completing 18 hours of the scheduled 85 hours of testing, "Camera Interface Error" had occurred on the UUT. Following the System Operating Procedure, the UUT was Shutdown and restarted. Upon logging into the UUT, it was observed that "Camera Interface Error" occurred again. It was at this time that testing was halted due to the inability to proceed with the UUT, after it was determined that the UUT suffered "degradation of performance such that the device is unable to perform its intended function for longer than 10 seconds" as identified in VVSG Volume 1, 4.3.3 Reliability. ES&S personnel advised, Wyle Personnel to take note that the Image Processing Board possessed one blinking green light and 2 solid green lights. Digital images where taken of the test site and UUT.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION: PROJECT ENGINEER: Stephen K 1/3/13

TEST WITNESS: PROJECT MANAGER: Fred Pettit 1/3/13

REPRESENTING: ES&S INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: Bonds Moore 1/4/13

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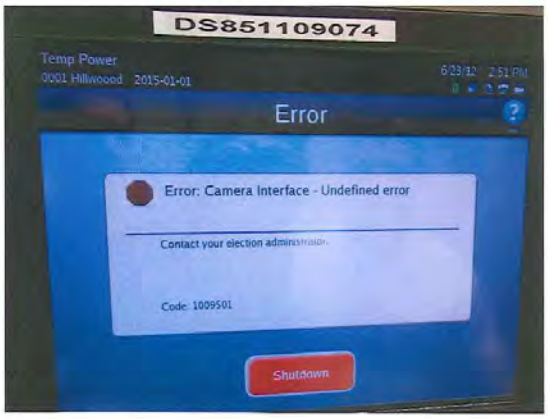
NOTICE OF ANOMALY

IMAGE DOCUMENATION:



Error: Camera Interface

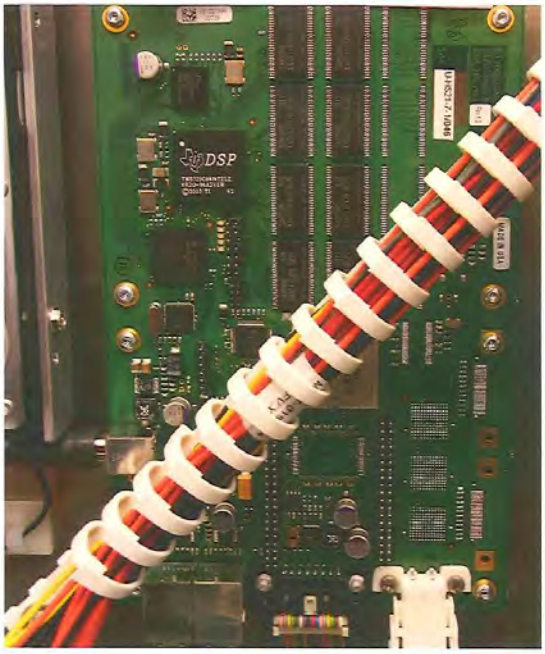
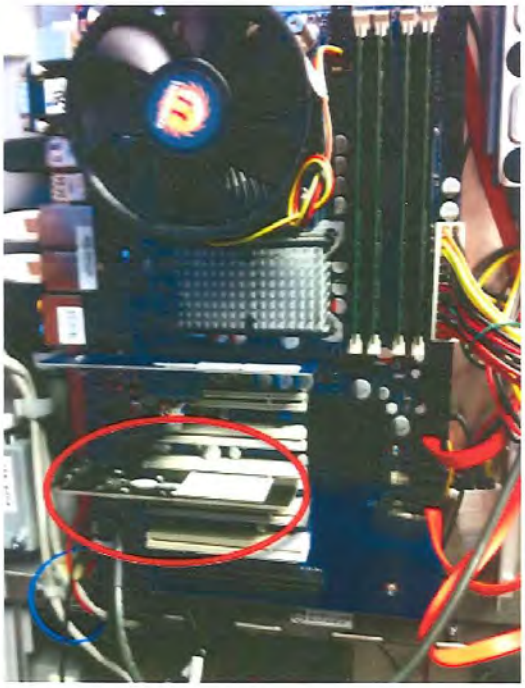


Image processig board



USB board – circled in Red.

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ORIGINAL

NOTICE OF ANOMALY

DATE: 11/16/12

NOTICE NO: 13 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 11/26/2012

NOTIFICATION MADE BY: Stephen Han VIA: In person

CATEGORY: [] SPECIMEN [] PROCEDURE [X] TEST EQUIPMENT DATE OF ANOMALY: 11/16/12

PART NAME: Automark A100 PART NO.

TEST: Humidity Test IAW 2005 VVSG Volume I Section 4.1.2.14 I.D. NO.

SPECIFICATION: MIL-STD-810D, Basic Transportation, Common Carrier

PARA. NO. Method 507.2, Procedure I-Natural Hot-Humid

REQUIREMENTS: 2005 VVSG Volume I Section 4.1.2.14

The system hardware shall continue to operate anomaly free prior to and following the application of this test environment. Integrity measures the physical stability and function of the vote recording and counting processes. To ensure system integrity, all systems shall: d. Protect against ambient temperature and humidity fluctuations.

DESCRIPTION OF ANOMALY:

During the Humidity test being performed between Nov 16, 2012 – Nov 26, 2012, There was an air pocket affecting the water supply of the test chamber, which caused the test chamber not to reach the required humidity levels. This was found on Saturday Nov 17th. The test was extended one day to accomidate the delay. The test was completed without any issues. The UUT performed a post-operational status check without issues.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

A final disposition is not required by the client, due to the categorization of this issue as Test Equipment. Wyle comments that the humidity chamber will be investigated and rectified prior to future testing with said chamber.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☐ CUSTOMER ☒ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

TEST WITNESS: N/A

REPRESENTING: N/A

QUALITY ASSURANCE: 01/02/2013

PROJECT ENGINEER: 1/2/13

PROJECT MANAGER: 1/2/13

INTERDEPARTMENTAL COORDINATION: N/A

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NOTICE OF ANOMALY

DATE: 12/21/12

NOTICE NO: 14 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Ben Swartz NOTIFICATION DATE: 12/11/12

NOTIFICATION MADE BY: Stephen Han VIA: In person

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 12/11/12

PART NAME: ES&S DS850 PART NO. DS850

TEST: Environmental Control – Operating Environment Test (Temperature and Power Variation Tests) 2005 VVSG Volume I Section 4.1.2.13; Volume II Section 4.7.1 I.D. NO. DS8510090037

SPECIFICATION: MIL-STD-810D PARA. NO. Method 502.2 and 501.2

REQUIREMENTS: 2005 VVSG Volume I Section 4.1.2.14

Test item shall be capable of simulated temperature and power variation that would be encountered in normal opearating environments for voting systems using a environmental chambers and an adjustable power supply equivalent to the procedure in MIL-STD-810D, Method 502.2 and Method 501.2.

DESCRIPTION OF ANOMALY:

After completing 15 hours of the scheduled 85 hours of testing, switching from 50 deg F to 95 deg F and running for 3 hours (300 ballots every hour) DS850 serial number 37, started outstacking all ballots to the top tray for "decision late". The unit was rebooted and ballots could be scanned normally. On the next hours of scanning 300 ballots again, all ballots were sent to the top tray for "decision late", and rebooting again allowed ballots to be scanned normally.

It was suspected that the bottom camera was causing the error. After the test was halted, the suspect camera was removed from unit #37 and a new camera was placed into that unit. The suspect camera was installed on the other DS850 #75 in the test chamber at 95 degress F and after 30 minutes unit # 75 exhibited the same error. And unit # 37 with the new camera performed with no issues. The bad camera was removed and sent to DataWin for a root cause analysis.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION: PROJECT ENGINEER: Stephen Han 12/21/12

TEST WITNESS: Mike Dvorak PROJECT MANAGER: Frank Pelletti 12/28/12

REPRESENTING: ES&S INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: Michael Cooper 01/02/2013

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NOTICE OF ANOMALY

DATE: 01/21/13

NOTICE NO: 15 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Sue McKay NOTIFICATION DATE: 01/12/13

NOTIFICATION MADE BY: Michael Walker VIA: Email

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 01/12/13

PART NAME: ES&S DS200 PART NO. DS200

TEST: System level Stress and Volume Test VVSG Volume II Section 6.2.3 I.D. NO. ES0107390482

SPECIFICATION: PARA. NO.

REQUIREMENTS: 2005 VVSG Volume II Section 6.2.3

Tests to investigate the system's response to transient overload conditions, processing more than the expected number of ballots/voter per precinct and processing more than expected number of precincts. Polling place devices shall be subjected to ballot processing at the high volume rates at which the equipment can be operated to evaluate software response to hardware-generated interrupts and wait states. Central counting systems shall be subjected to similar overloads, including, for systems that support more than one card reader, continuous processing through all readers simultaneously. This test is an attempt to overload the system's capacity to process, store, and report data

DESCRIPTION OF ANOMALY:

During the Volume and Stress test on the DS200 and error was encountered during the EQC process. The EQC process failed and would not allow the unit to continue with the only option to shut down the unit. The volume and stress test was broken down into 6 elections A-F to execute the system limits. Elections A-D operated without issue and the error was encountered during the loading of the "E" election. The following error code was provided: "7101012: EQC data invalid or missing". It appears there was some type of USB interruption and with the invalid or missing data the machine would not continue to function as a security measure when the EQC data cannot be verified.

Wyle attempted to load a different EQC stick from election "F" and also from election "D" which had just been executed, but the error was still present. The CF card was then removed from the DS200 under test and placed in a different unit in which the error followed the CF card producing the same results. A new CF card was placed into both units and the Election "E" was then loaded and processed without issue.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

PROJECT ENGINEER: Stephen [signature] 1/21/13

TEST WITNESS: N/A

PROJECT MANAGER: Frank Padilla 1/21/13

REPRESENTING: N/A

INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: [signature] 01/21/2013

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NOTICE OF ANOMALY

DATE: 01/22/13

NOTICE NO: 16 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: ES&S WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Sue McKay NOTIFICATION DATE: 01/18/13

NOTIFICATION MADE BY: Stephen Han VIA: Email

CATEGORY: [X] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 01/18/13

PART NAME: ES&S DS200 PART NO. DS200

TEST: System level Stress and Volume Test VVSG Volume II Section 6.2.3 I.D. NO. ES0107390482

SPECIFICATION: PARA. NO.

REQUIREMENTS: 2005 VVSG Volume II Section 6.2.3

Tests to investigate the system's response to transient overload conditions, processing more than the expected number of ballots/voter per precinct and processing more than expected number of precincts. Polling place devices shall be subjected to ballot processing at the high volume rates at which the equipment can be operated to evaluate software response to hardware-generated interrupts and wait states. Central counting systems shall be subjected to similar overloads, including, for systems that support more than one card reader, continuous processing through all readers simultaneously. This test is an attempt to overload the system's capacity to process, store, and report data.

DESCRIPTION OF ANOMALY:

During the 2nd attempt of the Volume & Stress test on the DS200, the unit would not power up after the execution of Election A. The volume and stress test was broken down into 6 elections A-F to execute the system limits. Election A operated without issue and the unit was powered down so election B could be loaded on the unit. Wyle attempted to power up the unit to load election B three times unsuccessfully. The test was halted and ES&S was notified of the issue.

DISPOSITION • COMMENTS • RECOMMENDATIONS:

The final disposition is pending a root cause analysis to be presented by the client.

Potential 10 CFR Part 21 ☐ YES ☒ NO

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21: ☒ CUSTOMER ☐ WYLE

CAR Required: ☐ YES ☒ NO CAR No.

VERIFICATION:

PROJECT ENGINEER: Stephen Han 1/22/13

TEST WITNESS: N/A

PROJECT MANAGER: Frank Roberts 1/22/13

REPRESENTING: N/A

INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: [signature] JAN 23, 2013

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NOTICE OF ANOMALY

DATE: 02/28/2013

NOTICE NO: 17 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: Election Systems and Software (ES&S) WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Sue McKay NOTIFICATION DATE: 03/04/2013

NOTIFICATION MADE BY: Stephen Han VIA: e-mail

CATEGORY: [x] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 11-2-2012 to 2-28-2013

PART NAME: EVS5000 PART NO. ---

TEST: TDP Review I.D. NO. ---

SPECIFICATION: EAC 2005 VVSG, Volume I PARA. NO. Section 2

REQUIREMENTS:

The ES&S EVS5000 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. ES&S 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: PROJECT ENGINEER: 3/4/13

TEST WITNESS: N/A PROJECT MANAGER: 3/4/13

REPRESENTING: N/A INTERDEPARTMENTAL COORDINATION:

QUALITY ASSURANCE: 03/04/13

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NOTICE OF ANOMALY

DATE: 03/01/13

NOTICE NO: 18 P.O. NUMBER: ES&S-MSA-TA017 CONTRACT NO: N/A

CUSTOMER: Election Systems and Software (ES&S) WYLE JOB NO: T59087.01

NOTIFICATION MADE TO: Sue McKay NOTIFICATION DATE: 03/04/13

NOTIFICATION MADE BY: Stephen Han VIA: e-mail

CATEGORY: [x] SPECIMEN [ ] PROCEDURE [ ] TEST EQUIPMENT DATE OF ANOMALY: 11-02-2012 to 02-28-2013

PART NAME: EVS 5.0.0.0 PART NO. ---

TEST: Source Code Review I.D. NO. ---

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

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 ES&S EVS 5.0.0.0 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 ES&S for resolution. ES&S 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.

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: PROJECT ENGINEER: Stephen Han 3/4/13

TEST WITNESS: N/A PROJECT MANAGER: Frank Padilla 3/4/13

REPRESENTING: N/A INTERDEPARTMENTAL COORDINATION:

QUALITY ASSURANCE: Michael Cooper 03/04/13