WYLE TEST REPORT NO. T59087.01

APPENDIX A.1

NOTICES OF ANOMALY
**NOTICE OF ANOMALY**

<table>
<thead>
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<th>NOTICE NO:</th>
<th>1</th>
<th>P.O. NUMBER:</th>
<th>ES&amp;S-MSA-TA017</th>
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<td>WYLE JOB NO:</td>
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<tr>
<td>NOTIFICATION MADE TO:</td>
<td>Ben Swartz</td>
<td>NOTIFICATION DATE:</td>
<td>05/07/2012</td>
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<td>NOTIFICATION MADE BY:</td>
<td>Stephen Han</td>
<td>VIA:</td>
<td>In person</td>
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</tbody>
</table>

**CATEGORY:** [ ] 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 1 Section 4.1.2.14 | L.D. NO. | ES0108330201 |
| SPECIFICATION: | MIL-STD-810D, Basic Transportation, Common Carrier | PARA. NO. | Method 514.3, Category 1 |

**REQUIREMENTS:** 2005 VVSG Volume 1 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:**

| TEST WITNESS: |  | PROJECT ENGINEER: |  |
| REPRESENTING: | ES&S | PROJECT MANAGER: |  |
| QUALITY ASSURANCE: |  | INTERDEPARTMENTAL COORDINATION: | N/A |

**WH-1066, Rev. MAR '09**
### 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.:** T39087

**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  
**I/A/W:** 2005 VVSG Volume I Section 4.1.2.14  
**LD NO:** ES107390482  
**SPECIFICATION:** MIL-STD-810D, Basic Transportation, Common Carrier  
**PARA NO.:** Method 514.3, Category I

### 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 I, 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:**

**TEST WITNESS:**

**PROJECT ENGINEER:**  
**PROJECT MANAGER:**

**REPRESENTING:** ES&S  
**INTERDEPARTMENTAL COORDINATION:** N/A

**QUALITY ASSURANCE:**
### NOTICE OF ANOMALY

**DATE:** 05/17/2012

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**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 1 Section 4.1.2.14
**LD. NO.:** ES0108330201

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

### REQUIREMENTS: 2005 VVSG Volume 1 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 bullet 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.
# NOTICE OF ANOMALY

**DATE:** 05/17/2012

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**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 516.4.3, 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 Rechargeable 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  

[signature]

**VERIFICATION:**

**PROJECT ENGINEER:**  

**PROJECT MANAGER:**

**REPRESENTING:** ES&S  

**INTERDEPARTMENTAL COORDINATION:** N/A

**QUALITY ASSURANCE:**
NOTICE OF ANOMALY

IMAGE DOCUMENTATION:

[Images of a battery label and product inside a case]
**NOTICE OF ANOMALY**

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<td>NOTIFICATION DATE:</td>
<td>05/30/2012</td>
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<tr>
<td>NOTIFICATION MADE BY:</td>
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<td>VIA:</td>
<td>In person</td>
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<td>TEST:</td>
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<td>I.D. NO.</td>
<td>99 / SN# 27-9643</td>
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<td>SPECIFICATION:</td>
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<td>PARA. NO.</td>
<td>Method 507.2, Procedure I-Natural Hot-Humid</td>
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**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 an 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.

<table>
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<tr>
<th>Potential 10 CFR Part 21</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 |
| CAR No. | |

**VERIFICATION:**

| PROJECT ENGINEER: | ☒ YES | ☐ NO |
| PROJECT MANAGER: | ☒ YES | ☐ NO |
| INTERDEPARTMENTAL COORDINATION: | N/A | |

**QUALITY ASSURANCE:**

| ☒ YES | ☒ NO | |

**ORIGINAL**

**DATE:** 05/30/2012
NOTICE OF ANOMALY

IMAGE DOCUMENTATION:
## NOTICE OF ANOMALY

**DATE:** 06/12/2012

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<td>WYLE JOB NO.:</td>
<td>T59087.01</td>
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<td>NOTIFICATION MADE TO:</td>
<td>Ben Swartz</td>
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<td>NOTIFICATION DATE:</td>
<td>06/12/2012</td>
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<td>NOTIFICATION MADE BY:</td>
<td>Ryan Chambers</td>
</tr>
<tr>
<td>VIA:</td>
<td>In person</td>
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**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

**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 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 identified 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 CFR 21:

- [ ] YES
- [X] NO

### RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH CFR 21:

- [X] CUSTOMER
- [ ] WYLE

### VERIFICATION:

- [ ] YES
- [X] NO

### PROJECT ENGINEER:

**Signature:** [Signature]

**Date:** 1/18/12

### PROJECT MANAGER:

**Signature:** [Signature]

**Date:** 1/3/13

### REPRESENTING:

**ES&S**

### INTERDEPARTMENTAL COORDINATION:

**N/A**

### QUALITY ASSURANCE:

**Brinda Prasad** [Signature]

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WH-1096, Rev. MAR '09
NOTICE OF ANOMALY

IMAGE DOCUMENTATION:

Alert! A problem has occurred. Please notify an election official.
There was an error processing.
## 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  **L.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 Vae/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 identified 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.

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<th>Potential 10 CFR Part 21</th>
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**RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21:**  [ ] CUSTOMER  [ ] WYLE

**CAR Required:**  [ ] YES  [ ] NO

**CAR No.:**

**VERIFICATION:**

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**REPRESENTING:** ES&S  **INTERDEPARTMENTAL COORDINATION:** N/A

**QUALITY ASSURANCE:**

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WH-1866, Rev. MAR '99
NOTICE OF ANOMALY

IMAGE DOCUMENTATION:

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Note: The image includes a printed report with details such as date, time, and test results. The report is partial and not fully legible.
NOTICE OF ANOMALY

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

CUSTOMER: ES&S  WYCLE 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

PART NAME: DS200  PART NO. DS200

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

SPECIFICATION: VVSG Volume I

PARA. NO. Section 4.1.2.4

DATE OF ANOMALY: 06/19/2012

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 V ac/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 identified 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  [ ] WYCLE

CAR Required:  [ ] YES  [ ] NO  CAR No.

VERIFICATION:

TEST WITNESS: PROJECT ENGINEER: [Signature] 1/3/13

REPRESENTING: ES&S  INTERDEPARTMENTAL COORDINATION: N/A

QUALITY ASSURANCE: [Signature] 1/3/13
NOTICE OF ANOMALY

IMAGE DOCUMENTATION:
NOTICE OF ANOMALY

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<td>CATEGORY:</td>
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<td>PARA. NO.</td>
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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

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RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21:

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CAR Required:

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VERIFICATION:

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<tr>
<td>REPRESENTING: ES&amp;S</td>
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NOTICE OF ANOMALY

IMAGE DOCUMENTATION:
**NOTICE OF ANOMALY**

**DATE:** 06/12/2012

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

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

**NOTIFICATION MADE TO:** Ben Swartz  
**NOTIFICATION MADE BY:** Ryan Chambers  
**DATE OF ANOMALY:** 06/12/2012  
**VIA:** In person

**CATEGORY:** [X] SPECIMEN  
**PROCEDURE:** [ ] TEST EQUIPMENT  
**PART NAME:** AutoMark  
**PART NO.:** A200  
**TEST:** Acoustic Noise Level Test and Hearing Aid Compatibility  
**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.

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

**CAR Required:** ☐ YES  ☒ NO  

**VERIFICATION:**  
**TEST WITNESS:**  
**REPRESENTING:** ES&S  
**INTERDEPARTMENTAL COORDINATION:** N/A

**PROJECT ENGINEER:** 1/3/13  
**PROJECT MANAGER:** 1/3/13

**QUALITY ASSURANCE:**
NOTICE OF ANOMALY

IMAGE DOCUMENTATION:
## 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 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  **LD. NO:** 8511090074

**SPECIFICATION:** MIL-STD-810D  **PARAM. 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 operating environments for voting systems using 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:**  **PROJECT ENGINEER:**

**TEST WITNESS:**  **PROJECT MANAGER:**

**REPRESENTING:** ES&S  **INTERDEPARTMENTAL COORDINATION:** N/A

**QUALITY ASSURANCE:**

---

*WH-1050, Rev: MAR '09*
NOTICE OF ANOMALY

IMAGE DOCUMENTATION:
NOTICE OF ANOMALY

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: D850

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  E.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 operating 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:  

PROJECT MANAGER:

REPRESENTING: ES&S  INTERDEPARTMENTAL

COORDINATION: N/A

QUALITY ASSURANCE:

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NOTICE OF ANOMALY

IMAGE DOCUMENTATION:

Error: Camera Interface

Image processing board
USB board – circled in Red.
NOTICE OF ANOMALY

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<td>NOTIFICATION DATE:</td>
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<td>MIL-STD-810D, Basic Transportation, Common Carrier</td>
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<td>Method 507.2, Procedure I-Natural Hot-Humid</td>
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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 accommodate 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.

RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21:

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<td>Stephen Ly 11/16/13</td>
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NOTICE OF ANOMALY

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  [X] 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
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 operating 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 outsticking 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 degrees F and after 30 minutes unit # 75 exhibited the same error. And unit # 37 with the new camera performed with no 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 12/21/12
TEST WITNESS: Mike Dromek
PROJECT MANAGER: Pam Robb 12/21/12
REPRESENTING: ES&S
INTERDEPARTMENTAL COORDINATION: N/A
QUALITY ASSURANCE: Michael Cooper 01/01/12

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Page 1 of 1
# NOTICE OF ANOMALY

**DATE:** 01/21/13

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<td>NOTIFICATION MADE BY:</td>
<td>Michael Walker</td>
<td>VIA:</td>
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## 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 into 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.

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<tr>
<td>TEST WITNESS:</td>
<td>N/A</td>
<td>Frank Scilla 1/21/13</td>
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<td>Interdepartmental Coordination: N/A</td>
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Quality Assurance: 01/21/13
NOTICE OF ANOMALY

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
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. Wyse 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:
TEST WITNESS: JS/MA  PROJECT ENGINEER: J. Healy  1/22/13
REPRESENTING: JS/MA  INTERDEPARTMENTAL COORDINATION: N/A
QUALITY ASSURANCE: _______  1/23, 2013

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### NOTICE OF ANOMALY

**DATE:** 02/28/2013

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<td>NOTIFICATION DATE: 03/04/2013</td>
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### 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.

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**PROJECT ENGINEER:** M. Mendenhall 2/21/13

**PROJECT MANAGER:** J. L. Rodd 3/4/13

---

**RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21:**

- [ ] CUSTOMER
- [ ] WYLE

**CAR Required:**

- [ ] YES
- [ ] NO

**CAR No.:**
## NOTICE OF ANOMALY

**DATE:** 03/01/13

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- [ ] PROCEDURE
- [ ] TEST EQUIPMENT

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### 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 modules 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.

### RESPONSIBILITY TO ANALYZE ANOMALIES AND COMPLY WITH 10 CFR PART 21:

- [ ] CUSTOMER
- [ ] WYLE

### CAR Required:

- [ ] YES
- [x] NO

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<td>QUALITY ASSURANCE:</td>
<td>03/04/13</td>
</tr>
</tbody>
</table>

### Project Engineer:

[Signature]

### Project Manager:

[Signature]

### Interdepartmental Coordination:

[Signature]