## 7.3 Test Instruction and Contractor Completion Test Checklist – NON-ASPECT

### 7.3.1 Test A. CAS Workstation Alarm/Fault Review & Assessment

The following tests will be performed on each CAS Workstation User Display in both CCT and SI&T. The Test Conductor and CAS Operator will be at the CAS, the Alarm Generator, usually the designated source handler, will use sources (gamma and neutron) to create alarms at the monitor sites (refer to Attachment A). During SI&T, when possible, the CAS Operator will be a trained host country user.

#### 7.3.1.1 Test Case A.1 Gamma Alarm Acknowledge and Review

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results - Indicate P or F** |
| --- | --- | --- | --- |
| Generate Gamma Alarm | Active Events Queue | Gamma Alarm is displayed in the Active Events Queue at the workstation in 5 seconds or less from the start of RPM local annunciation. |  |
|  | Sound  | Audio alarm notification is generated and is correct for a Gamma alarm |  |
|  | Active Events Queue | Event is highlighted indicating status as un-reviewed |  |
| Acknowledge Alarm | Sound | Audio alarm notification is silenced |  |
| Review Alarm | Active Events Queue | Event is no longer highlighted indicating status of reviewed |  |
|  | Event Details | Alarm Event details are displayed |  |
|  |  | Alarm Event details are correct1. Event type
2. Start and End time
 |  |
|  |  | Graph data is displayed and is accurate |  |
|  |  | Video Images are correct:1. 5 Frames per second
2. 2 seconds pre & post event
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.2 Test Case A.2 Neutron Alarm Acknowledge/Review

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Generate Neutron Alarm | Active Events Queue | Neutron Alarm is displayed in the Active Events Queue at the workstation in 5 seconds or less from the start of RPM local annunciation. |  |
|  | Sound  | Audio alarm notification is generated and as correct for Neutron alarm |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Alarm | Sound | Audio alarm notification is silenced |  |
| Review Alarm | Active Events Queue | Event is no longer highlighted indicating status of reviewed |  |
|  | Event Details | Alarm Event details are displayed |  |
|  |  | Alarm Event details are correct1. Event type
2. Start and End time
 |  |
|  |  | Graph data is displayed and is accurate |  |
|  |  | Video Images are correct:1. 5 Frames per second
2. 2 seconds pre & post event
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.3 Test Case A.3 Neutron Gamma Alarm Acknowledge/Review and Alarm Priority

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Generate Gamma Alarm | Sound  | Audio alarm notification is generated and is correct for Gamma alarm |  |
| Generate Neutron+Gamma Alarm | Sound (Escalation) | Audio alarm notification is generated and is correct for Neutron+Gamma alarm |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Alarm | Sound | Audio alarm notification is silenced |  |
| Review Alarm | Active Events Queue | Event is no longer highlighted indicating status as reviewed |  |
|  | Event Details | Alarm Event details are displayed |  |
|  |  | Alarm Event details are correct1. Event type
2. Start and End time
 |  |
|  |  | Graph data is displayed and is accurate |  |
|  |  | Video Images are correct:1. 5 Frames per second
2. 2 seconds pre & post event
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.5 Test Case A.4 Gamma High Fault

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Generate Gamma High Fault | Active Events Queue | Gamma High Fault is displayed in the Active Events Queue at the workstation in 5 seconds or less from start of RPM local annunciation |  |
|  | Sound  | Audio alarm notification is generated and is correct for Gamma High Fault |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Fault | Sound | Audio fault notification is silenced |  |
| Review Fault | Active Events Queue | Event is no longer highlighted indicating status as reviewed |  |
|  | Event Details | Fault Event details are displayed |  |
|  |  | Fault Event details are correct1. Event type
2. Start and End time
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.6 Test Case A. 5 Gamma Low Fault

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F**  |
| --- | --- | --- | --- |
| Generate Gamma Low Fault | Active Events Queue | Gamma Low Fault is displayed in the Active Events Queue at the workstation in 5 seconds or less from start of RPM local annunciation |  |
|  | Sound  | Audio alarm notification is generated and is correct for Gamma Low Fault |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Fault | Sound | Audio fault notification is silenced |  |
| Review Fault | Active Events Queue | Event is no longer highlighted indicating status as reviewed |  |
|  | Event Details | Fault Event details are displayed |  |
|  |  | Fault Event details are correct1. Event type
2. Start and End time
 |  |

Comments:

#### 7.3.1.7 Test Case A. 6 Neutron High Fault

Contractor Completion Test Conductor Test Date

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Generate Neutron High Fault | Active Events Queue | Neutron High Fault is displayed in the Active Events Queue at the workstation in 5 seconds or less from start of RPM local annunciation |  |
|  | Sound  | Audio alarm notification is generated and is correct for Neutron High Fault |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Fault | Sound | Audio fault notification is silenced |  |
| Review Fault | Active Events Queue | Event is no longer highlighted indicating status as reviewed |  |
|  | Event Details | Fault Event details are displayed |  |
|  |  | Fault Event details are correct1. Event type
2. Start and End time
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.8 Test Case A. 7 Extended Occupancy (Background) Fault

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Generate Extended Occupancy Fault | Active Events Queue | Extended Occupancy Fault is displayed in the Active Events Queue at the workstation after 10 minutesNote: Extended Occupancy duration configurable with a default setting of 10 minutes. |  |
|  | Sound  | Audio alarm notification is generated and is correct for Extended Occupancy Fault |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Fault | Sound | Audio fault notification is silenced |  |
| Review Fault | Active Events Queue | Event is no longer highlighted indicating status as reviewed |  |
|  | Event Details | Fault Event details are displayed |  |
|  |  | Fault Event details are correct1. Event type
2. Start and End time
 |  |
|  |  | Video Images are correct:1. 5 Frames per second
2. 2 seconds pre & post event
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.9 Test Case A. 8 Tamper Fault

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Generate Tamper Fault | Active Events Queue | Tamper Fault is displayed in the Active Events Queue at the workstation in 5 seconds or less from start of RPM amber light illumination |  |
|  | Sound  | Audio alarm notification is generated and is correct for Tamper Fault |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Fault | Sound | Audio fault notification is silenced |  |
| Review Fault | Active Events Queue | Event is no longer highlighted indicating status as reviewed |  |
|  | Event Details | Fault Event details are displayed |  |
|  |  | Fault Event details are correct1. Event type
2. Start and End time
 |  |
|  |  | Video Images are correct:1. 5 Frames per second
2. 2 seconds pre & post event
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.10 Test Case A. 9 RPM Communications Loss Fault

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Generate RPM Communications Loss Fault | Active Events Queue | RPM Communications Loss Fault is displayed in the Active Events Queue at the workstation (after communications timeout period) |  |
|  | Sound  | Audio alarm notification is generated and is correct for RPM Communications Loss Fault |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Fault | Sound | Audio fault notification is silenced |  |
| Review Fault | Active Events Queue | Event is no longer highlighted indicating status as reviewed |  |
|  | Event Details | Fault Event details are displayed |  |
|  |  | Fault Event details are correct1. Event type
2. Start and End time
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.11 Test Case A.10 RPM Power Loss Fault

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Generate RPM Power Loss Fault | Active Events Queue | RPM Power Loss Fault is displayed in the Active Events Queue at the workstation in 5 seconds or less |  |
|  | Sound  | Audio alarm notification is generated and is correct for RPM Power Loss Fault |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Fault | Sound | Audio fault notification is silenced |  |
| Review Fault | Active Events Queue | Event is no longer highlighted indicating status as reviewed |  |
|  | Event Details | Fault Event details are displayed |  |
|  |  | Fault Event details are correct1. Event type
2. Start and End time
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.12 Test Case A.11 Camera Communications Loss

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Generate Camera Communications Loss Fault | Active Events Queue | Camera Communications Loss Fault is displayed in the Active Events Queue at the workstation (after communications timeout period) |  |
|  | Sound  | Audio alarm notification is generated and is correct for Camera Communications Loss Fault |  |
|  | Active Events Queue | Event is highlighted indicating status as unreviewed |  |
| Acknowledge Fault | Sound | Audio fault notification is silenced |  |
| Review Fault | Active Events Queue | Event is no longer highlighted indicating status as reviewed |  |
|  | Event Details | Fault Event details are displayed |  |
|  |  | Fault Event details are correct1. Event type
2. Start and End time
 |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.1.13 Test Case A.12 Fault Priority and Assessment

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Review AEQ | Active Events Queue | Priority of all displayed events is correct |  |
| Review Fault Event | Event details  | Event details are displayed |  |
| Input Comment |  | Comments are added to Event Details |  |
| Select Disposition Code | Displayed Disposition Codes | Disposition Codes comply with Core Standard Disposition Codes requirements |  |
|  | Event Details | Selected Disposition Code is added to Event Details |  |
| Close Event | User Responsibility Record | System requires user to enter password prior to closing event |  |
| User Enters Password | Event Details | Event is closed |  |
|  | Active Events Queue | Event is no longer displayed in AEQ |  |
| Review Closed Fault Event | Closed Fault Event Details | Closed Fault Event Details are displayed and correct1. Comments are correct
2. Disposition code is correct
3. User Responsibility record is correct
 |  |

Comments:

Contractor Completion Test Conductor Test Date

### 7.3.2 Test B. Peripherals

The following tests will be performed to confirm operation CAS peripherals. Personnel involved: TEST CONDUCTOR, CAS OPERATOR.

#### 7.3.2.1 Test Case B.1 RIID/HH Interface

Note: this test case is to be executed for each type of RIID/HH deployed to the site and shall be repeated for each CAS Workstation. Mirror CASs or systems that have only viewer capability will not be tested for RIID interface.

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Ensure there is a file available on the RIID/HH |  |  |  |
| Connect the RIID/HH to the CAS Workstation |  |  |  |
| Transfer RIID/HH file to the CAS Workstation and attach to Alarm Event | Event Details | Transferred file is attached to Alarm Event |  |
| View RIID/HH file from Event Details | RIID/HH software | RIID/HH spectrum is displayed |  |
| Close Event (Refer to Test Case A.4) |  |  |  |
| View RIID/HH file from closed Event record | RIID/HH software | RIID/HH spectrum is displayed |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.2.2 Test Case B.2 RPM Remote Alarm Panel

Note: this test case is to be executed for each RPM Remote Alarm Panel deployed to the site and may be conducted in parallel with test cases in section A. For each of these tests, the annunciation will automatically stop after the trigger is stopped (e.g. the light and sound will stop when the source is taken away from the RPM detector.) For installations without a RAP, this test case is not applicable.

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results - Indicate P or F** |
| --- | --- | --- | --- |
| Gamma Alarm | Remote Alarm Panel | Red Light flashes and Gamma alarm siren sounds |  |
| Acknowledge at RAP  | Sound | Sound is silenced |  |
| Neutron Alarm | Remote Alarm Panel | Blue Light flashes and Neutron alarm siren sounds |  |
| Acknowledge at RAP | Sound | Sound is silenced |  |
| NeutronGamma Alarm | Remote Alarm Panel | Red and Blue Light flash and NeutronGamma alarm siren sounds |  |
| Acknowledge at RAP | Sound | Sound is silenced |  |
| Tamper Fault | Remote Alarm Panel | Yellow Light is illuminated |  |
| Gamma High Fault | Remote Alarm Panel | Yellow Light is illuminated |  |
| Gamma Low Fault | Remote Alarm Panel | Yellow Light is illuminated |  |
| Neutron High Fault | Remote Alarm Panel | Yellow Light is illuminated |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.2.3 Test Case B.3 Daily File Export

This test will confirm the daily file are in correct format and the NSDD Daily File Lane Names conform to the NSDD requirements and the country manager approve name for each lane. ***A daily file for each lane is required to be available for review during the Site Inspection & Testing.. A screen shot of the folder structure or other record showing the location of the daily files is to also be attached to the Site Inspection & Testing checklist.*** For large sites the daily file print outs for each lane may be printed during CCT. During SI&T, the Test Conductor will verify each print out through visual inspection of the on-screen display.

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Manually generate Daily File (if not automatic) | File System | Daily File is generated with current day’s data for selected lane |  |
|  | File Name | File name complies with NSDD Daily File Requirements |  |
|  | Daily File | Daily file record format (i.e. structure of each line) complies requirements |  |
|  |  | Time stamps begin at, or just after, midnight and continue to time at step B.4.1. |  |
|  |  | Data is correct(Evaluate by comparing data to a selection of events from section A) |  |

Comments:

Contractor Completion Test Conductor Test Date

#### 7.3.2.4 Test Case B.4 Event Export

Note: Core SRS 4.2 identifies the requirement that the exported event be viewable in a “readily available viewer.” Evaluation of “readily available” was conducted at Core Program CONUS testing and will not be conducted at the Site level test. ***A print out of at least one event record is to be attached to the Acceptance Test checklist.***

| **Input/Trigger** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Select Open Event | Event Details | Event details are displayed |  |
| Export Event | File System | Event record is generated and can be opened with a readily available viewer (e.g. Adobe® Acrobat®)  |  |
| Select Closed Event | Event Details | Event details are displayed |  |
| Export Event | File System | Event record is generated and can be opened with a readily available viewer (e.g. Adobe® Acrobat®)  |  |

Comments:

Contractor Completion Test Conductor Test Date

### 7.3.3 Test C. State of Health

State of Health testing will confirm State of Health is accurately displayed and that the UPS will provide power to connected systems/components for a minimum of 15 minutes. When more than one UPS is provided, each shall be tested individually (e.g. only one UPS is running at a time.)

| **Input/Trigger/Instruction** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Observe active events screen |  | SOH displays accurate status of monitored devices (portal monitors) |  |
| Disconnect Power Supply from component supplied with UPS backup and generate an alarm event  | UPS begins operation | UPS indicates power loss, CAS continues to function normally for at least 15 minutes |  |
| Restore Power Supply after 15 minutes, clear any open alarms  |  |  |  |
| Repeat UPS operational tests with alarm event for each UPS installed |  |  |  |
| Shut down system, following system instructions, then restart system and perform a minimum of 2 tests from Category A to confirm restoration of system functionality |  | System shuts down and restarts to normal operation |  |

Comments:

Contractor Completion Test Conductor Test Date

### 7.3.4 Test D. CAS User Display

CAS User Display tests verify the dual language capability of the systems and other display requirements. Test Conductors must be aware that the User language may not be the national language of the country. For example, the user language required by the NSDD program in most FSU countries is Russian.

| **Input/Trigger/Instruction** | **Output** | **Expected Result/Evaluation Criteria** | **Results – Indicate P or F** |
| --- | --- | --- | --- |
| Language Selection |  | Display language changes to/from English and User/HG language |  |
| View all screens in HG Language |  | All user and system admin screens appear in HG language, translations are complete |  |
| Observe camera/video display at the CAS in both daylight and nighttime conditions\*  |  | Video display is clear, view of the vehicle, person or container entering/exiting the monitor allows for identification (license plate, container number, physical characteristics)  |  |
| View Site Map  |  | Site map accurately displays location of systems |  |
| View Lane View  |  | Lane view accurately displays the monitors/lanes for the site |  |

\* Contractor Completion Testing Conductor shall print out examples of daylight and nighttime images and include in the Site Inspection & Test Package for use during Site Inspection & Testing as needed to verify images are clear in both cases.

Comments:

Contractor Completion Test Conductor Test Date

###

## 7.3.5 Test E. Site Inspection & Testing Checklists- Non Aspect Systems

### 7.3.5.1 Contract Compliance and Quality Checklist

This checklist should be completed by Test Conductors in both CCT and SI&T. As noted in section 3.3.1 the documentation required for each site may vary in order to avoid duplication. The Test Conductors should refer to this section and guidance from the Country Manager for documentation requirements.

| **Input/Trigger/Instruction** | **Output** | **Expected Result/Evaluation Criteria** | **Results –Indicate P or F** |
| --- | --- | --- | --- |
| Documentation Review | Visual Inspection | Complete and acceptable SI&T Package is available on site  |  |
| Site walk, confirm installation designs  | Visual inspection | Equipment, traffic controls, and signage is placed in accordance with approved designs, including FCRs and requirements addenda |  |
| Confirm inventory  | Visual inspection | Equipment inventory accurately identifies installed equipment |  |
| Quality Inspection | Visual inspection |

|  |  |
| --- | --- |
|  |  |
| 1  | Grout work is completed |
| 2 |  Cable Ingresses are plated with rubber grommets (RPM and Utility panel base) |
| 3 | Lifting lugs sealed from above and inside cabinet with silicone |
| 4 | All cabinet doors properly seated when door is closed (RPM, etc.) |
| 5 | Bollards well painted (including top) to prevent rust |
| 6 | All conduit/plastic sleeves for wires are properly connected and sealed |
| 7 | Pavement between RPMs filled in and sealed |
| 8 | Camera poles: Wire access panel replaced and sealed if necessary |
|  9 | Conduit hole in CAS walls resealed |
| 10 | Inside TSA RPM: 770 Box Lid screwed on |
| 11 | Inside TSA RPM: magnets off of doors so Tamper Fault condition is possible |
| 12 | Bollards and RPM are plumb and level to the naked eye (Not applicable to rail installations) |
| 13 | No large/deep cracks on foundation bases |
| 14 | Desiccant bags with dates clearly written are in the TSA RPMs and Utility Panels |
| 15 | Inquire if TSA RPM electronics have been potted |
| 16 | Verify automatic transfer of backup generator and startup |

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| Complete / N/A / Punch List |
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***Provide expected completion date of punch list items in comments section below***

Comments:

Test Conductor Test Date

### 7.3.5.2 Site Inspection & Testing Checklist

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test Cases A.1 – A.13CAS Alarm and Fault Reporting | A.1 Gamma Alarm | A.2 Neutron Alarm | A.3 Neutron Gamma Alarm | A.4 Alarm Assessment  | A.5 Gamma High Fault | A.6 Gamma Low Fault | A.7 Neutron High Fault | A.8 Extended Occupancy Fault | A.9 Tamper Fault | A.10 RPM Comms Loss Fault | A.11 RPM Power Loss fault | A.12 Camera Comms Loss | A.13 Fault Priority & Assessment |  |  |
| Lane #:  | CAS Alarm and Fault Display/Reporting | Comments |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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 Indicate successful test results with a ✓ or “P” for pass/acceptable Indicate unsuccessful or unexpected results as: F: Failure.

 ***Explain or describe all unsuccessful or unexpected results on the Test Issues Document and attached to the Test Report***

Site Inspection & Testing Checklist

Non-Aspect Systems page 2 of 2

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test CasesB.1 – B.3 PeripheralsC.1 – C.7 State of HealthD.1 – D.6 User DisplayE.1 – D.4 Contract Compliance | B.1 RIID Interface | B.2 Daily File Export w/Print Out | B.3 Event Export with Print Out | C.1 State of Health Display | C.2 UPS Function | C.3 Additional UPS Functional Test | C.4 Additional UPS Functional Test | C.5 Additional UPS Functional Test | C.6 Additional UPS Functional Test | C.7 System Shut down and restart | D.1 Language Selection | D.2 Translations Complete | D.3 Comments Filed Accepts Entry | D.4 Video display correct / clear | D.5 Site Map accurate | D.6 Lanes View accurate | E.1 Documentation | E.2 Design Compliance | E.3Inventory | E.4 Quality |
| Test Category | Peripherals | State of Health | User Display | Contract Compliance |
| Location #1  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location #2  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location #3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location #4 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location #5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Indicate successful test results with a ✓ or “P” Indicate unsuccessful or unexpected results as: F: Failure.

***Explain or describe all unsuccessful or unexpected results on the Test Issues Document and attached to the Test Report***

Comments:

Test Conductor Test Date