

# SSTD Incoming Inspection Report

Spacecraft/Project    **HERSCHEL / SPIRE**

Document Number    **SPIRE-RAL-REP- 002521**

Issue    **1**

Sub System    **BDA ser no 19**

Date    **7th October 2005**

Model    **FS**

## INCOMING INSPECTION REPORT

| FROM  |
|---|
| <p><b>JPL</b><br/>4800 Oak Grove Drive, Pasadena, California<br/>91109, USA</p> |

| TO   |
|--|
| <p>Project<br/>Rutherford Appleton Laboratory<br/>Space Science and Technology Department<br/>Chilton<br/>DIDCOT<br/>OXON<br/>OX11 0QX</p> |

| Applicable sections        |     |
|----------------------------|-----|
| Containers                 | Yes |
| External Visual Inspection | Yes |
| External Connector         | Yes |
| Documentation              | Yes |
| Verification of Interfaces | No  |
| Extra Comments Sheets      | Yes |

| Drawings / Documents Attached |
|-------------------------------|
|                               |
|                               |
|                               |
|                               |
|                               |
|                               |
|                               |

**INSPECTION CONDUCTED BY**

**WITNESS BY**

**NAME**

**DATE**

**NAME**

**DATE**

Eric Clark (PA)

7th October 2005

Valereen Essandoh

13th October 2005

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## CONTAINER INSPECTION

| TRANSPORT CONTAINERS EXTERNAL CONDITION                                       | REMARKS   | Status      |
|---|---|-------------|
| Mechanical damage to container fasteners, locks, clips or handling provisions |   | Checked     |
| Security / Locking Fitted   | Inner box( containg Bowling ball) had Tape over latch still intact. | See Remarks |
| Markings for destination and description                                      |   | Checked     |
| Warning labels relating to handling lifting and stacking limits               |   | Checked     |
| Any additional Comments   | Tip & Tell Monitor On Outer cardboard box O/K                       | See Remarks |

| TRANSPORT CONTAINERS INTERNAL CONDITION           | REMARKS  | Status      |
|---|--|-------------|
| Check Mounting fixtures fitted internal packaging |  | Checked     |
| Internal padding / packaging required             |  | Checked     |
| Mounting provisions secure                        |  | Checked     |
| Any additional Comments                           | The BDA is delivered in a metal purpose built Transit /Storage box (bowling Ball), which is then placed in a padded box, this box is then placed in a Larger box with the HRCR, which in turn is placed in a foam filled cardboard box. See photographs for each stage of unpacking. | See Remarks |

| ENVIROMENTAL MONITORS           |                                 |  |     |     |     |  |  |    |     |     |     |     |        |     |         |     |    |    |        |     |         |     |    |    |        |     |     |     |     |     |
|---------------------------------|---------------------------------|--|-----|-----|-----|--|--|----|-----|-----|-----|-----|--------|-----|---------|-----|----|----|--------|-----|---------|-----|----|----|--------|-----|-----|-----|-----|-----|
| <b>Temp Monitors</b>            | <b>Humidity Monitors</b>        | <b>Shock Sensors Triggerd Information</b>  |     |     |     |  |  |    |     |     |     |     |        |     |         |     |    |    |        |     |         |     |    |    |        |     |     |     |     |     |
| Fitted: <input type="text"/>    | Fitted: <input type="text"/>    |  |     |     |     |  |  |    |     |     |     |     |        |     |         |     |    |    |        |     |         |     |    |    |        |     |     |     |     |     |
| Condition: <input type="text"/> | Condition: <input type="text"/> |  |     |     |     |  |  |    |     |     |     |     |        |     |         |     |    |    |        |     |         |     |    |    |        |     |     |     |     |     |
|                                 |                                 | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>5g</th> <th>10g</th> <th>15g</th> <th>20g</th> <th>50g</th> </tr> </thead> <tbody> <tr> <td>X Axis</td> <td>N/F</td> <td style="color: red;">tripped</td> <td>N/F</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>Y Axis</td> <td>N/F</td> <td style="color: red;">tripped</td> <td>N/F</td> <td>OK</td> <td>OK</td> </tr> <tr> <td>Z Axis</td> <td>N/F</td> <td>N/F</td> <td>N/F</td> <td>N/F</td> <td>N/F</td> </tr> </tbody> </table> |     |     |     |  |  | 5g | 10g | 15g | 20g | 50g | X Axis | N/F | tripped | N/F | OK | OK | Y Axis | N/F | tripped | N/F | OK | OK | Z Axis | N/F | N/F | N/F | N/F | N/F |
|                                 | 5g                              | 10g  | 15g | 20g | 50g |  |  |    |     |     |     |     |        |     |         |     |    |    |        |     |         |     |    |    |        |     |     |     |     |     |
| X Axis                          | N/F                             | tripped  | N/F | OK  | OK  |  |  |    |     |     |     |     |        |     |         |     |    |    |        |     |         |     |    |    |        |     |     |     |     |     |
| Y Axis                          | N/F                             | tripped  | N/F | OK  | OK  |  |  |    |     |     |     |     |        |     |         |     |    |    |        |     |         |     |    |    |        |     |     |     |     |     |
| Z Axis                          | N/F                             | N/F  | N/F | N/F | N/F |  |  |    |     |     |     |     |        |     |         |     |    |    |        |     |         |     |    |    |        |     |     |     |     |     |

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**INSTRUMENT VISUAL INSPECTION**

| CHECK LIST   | REMARKS | RESULTS    |
|--|---------|------------|
| Contents against shipping list                             |         | Correct    |
| Instrument label   |         | Correct    |
| Note status of external contamination                      |         | Acceptable |
| Degradation of paintwork or Coating?                       |         | None       |
| Fasteners correctly locked?                                |         | Correct    |
| Check protective covers are correctly labelled and fitted? |         | N/A        |
| Additional Comments  |         | None       |

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**INSPECTION OF ALL CONNECTORS**

| CHECK LIST                            | REMARKS (LIST CONNECTOR NUMBERS)   | RESULTS    |
|---------------------------------------|--|------------|
| Pin Alignment                         |  | Pass       |
| Damaged Sockets                       |  | None       |
| Internal Debris                       |  | None       |
| Connector Covers fitted               | See additional Comments  | See remark |
| Connector Savers Fitted               | See additional Comments  | See remark |
| EMC Covers Fitted                     | See additional Comments  | See remark |
| RED Tag Item / Green Tag Items fitted | See additional Comments  | See remark |
| Additional Comments                   | During storage and transit the BDA is protected in a purpose built container, no other connector or EMC covers are required. | See remark |

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|                    |                  |                 |                      |       |    |
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## DOCUMENTATION CHECK LIST

| Check                            | REMARKS   | RESULTS    |
|----------------------------------|---|------------|
| End Item Data Pack               | HRCR Included   | Yes        |
| Transportaion Documents          |   | Yes        |
| Packing un- Packing instructions |   | Yes        |
| Additional Comments              | The BDA is unpacked to Bowling Ball Stage by Eric Clark. From 13th October Valereen Essandoh from JPL with SSTD staff completed the inspection. | See Remark |

## Verification of Interfaces

**Mechanical interface:** dimensions specified in the interface control documents such as mass, flatness of surfaces, location of fixing holes and overall dimensions should be measured accurately and recorded. Record Test Report Number, or confirm that measurement result is included in delivery documentation, (EIDP).

|  |  |
|--|--|
| <b>INSPECTION / TEST REPORT NUMBER</b> | <b>CHECKED</b> N/A for this inspection |
|--|--|

**Electrical interfaces:** verifying the location and types of connectors against interface control document is normally carried as part of mechanical verification, confirm this has been done. Functional testing: final functional test report number should be noted.

|   |                    |
|---|--------------------|
| <b>INSPECTION / TEST REPORT NUMBER</b> Will be added to this report when Issued | <b>CHECKED</b> Yes |
|---|--------------------|

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|---------------------|
| EXTRA COMMENT SHEET |
|---------------------|