

# SSTD Incoming Inspection Report

Spacecraft/Project    **HERSCHEL / SPIRE**

Document Number    **SPIRE-RAL-REP- 002170**

Issue    **1**

Sub System    **See Attached List**

Date    **26-Oct-04**

Model    **PFM**

## INCOMING INSPECTION REPORT

| FROM       |
|------------|
| <b>LAM</b> |

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

| Applicable sections        |  |
|----------------------------|--|
| Containers                 |  |
| External Visual Inspection |  |
| External Connector         |  |
| Documentation              |  |
| Verification of Interfaccs |  |
| Extra Comments Sheets      |  |

| Drawings / Documents Attached |
|-------------------------------|
| Incoming Packing List         |
|                               |
|                               |
|                               |
|                               |
|                               |

**INSPECTION CONDUCTED BY**

**WITNESS BY**

**NAME**

**DATE**

**NAME**

**DATE**

Alan Pearce

26/10/2004

Eric Clark (PA)

26/10/2004

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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   |         | Checked |
| Markings for destination and description                                      |         | Checked |
| Warning labels relating to handling lifting and stacking limits               |         | Checked |
| Any additional Comments   |         |         |

| 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                           | Z- Shock sensor on SMEC Transit Cover tripped only. 25g sensors on transit case ok, 50g sensors fitted but not set. | See Remarks |

| ENVIROMENTAL MONITORS              |            |           |         |   |  |                                    |  |  |  |  |    |     |     |        |     |    |         |        |     |    |         |        |     |    |         |
|------------------------------------|------------|-----------|---------|---|--|------------------------------------|--|--|--|--|----|-----|-----|--------|-----|----|---------|--------|-----|----|---------|--------|-----|----|---------|
| Temperature                        | Not Fitted | Condition | N/A     | <table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Shock Sensors Triggerd Information</th> </tr> <tr> <th></th> <th style="text-align: center;">5g</th> <th style="text-align: center;">25g</th> <th style="text-align: center;">50g</th> </tr> </thead> <tbody> <tr> <td>X Axis</td> <td style="text-align: center;">N/F</td> <td style="text-align: center;">OK</td> <td style="text-align: center;">Not Set</td> </tr> <tr> <td>Y Axis</td> <td style="text-align: center;">N/F</td> <td style="text-align: center;">OK</td> <td style="text-align: center;">Not Set</td> </tr> <tr> <td>Z Axis</td> <td style="text-align: center;">Z -</td> <td style="text-align: center;">OK</td> <td style="text-align: center;">Not Set</td> </tr> </tbody> </table> |  | Shock Sensors Triggerd Information |  |  |  |  | 5g | 25g | 50g | X Axis | N/F | OK | Not Set | Y Axis | N/F | OK | Not Set | Z Axis | Z - | OK | Not Set |
| Shock Sensors Triggerd Information |            |           |         |   |  |                                    |  |  |  |  |    |     |     |        |     |    |         |        |     |    |         |        |     |    |         |
|                                    | 5g         | 25g       | 50g     |   |  |                                    |  |  |  |  |    |     |     |        |     |    |         |        |     |    |         |        |     |    |         |
| X Axis                             | N/F        | OK        | Not Set |   |  |                                    |  |  |  |  |    |     |     |        |     |    |         |        |     |    |         |        |     |    |         |
| Y Axis                             | N/F        | OK        | Not Set |   |  |                                    |  |  |  |  |    |     |     |        |     |    |         |        |     |    |         |        |     |    |         |
| Z Axis                             | Z -        | OK        | Not Set |   |  |                                    |  |  |  |  |    |     |     |        |     |    |         |        |     |    |         |        |     |    |         |
| Humidity                           | Not Fitted | Condition | N/A     |   |  |                                    |  |  |  |  |    |     |     |        |     |    |         |        |     |    |         |        |     |    |         |

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## INSTRUMENT VISUAL INSPECTION

| CHECK LIST   | REMARKS     | RESULTS            |
|--|-------------|--------------------|
| Contents against shipping list                             |             | <b>ACCEPTABLE</b>  |
| Instrument label   |             | <b>ACCEPTABLE</b>  |
| Note status of external contamination                      |             | <b>ACCEPTABLE</b>  |
| Degradation of paintwork or Coating?                       |             | <b>ACCEPTABLE</b>  |
| Fasteners correctly locked?                                |             | <b>ACCEPTABLE</b>  |
| Check protective covers are correctly labelled and fitted? | None Fitted | <b>SEE REMARKS</b> |
| Additional Comments  |             |                    |

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## INSPECTION OF ALL CONNECTORS

| CHECK LIST                            | REMARKS (LIST CONNECTOR NUMBERS) | RESULTS |
|---------------------------------------|----------------------------------|---------|
| Pin Alignment                         | SMEC connectors                  | PASS    |
| Damaged Sockets                       |                                  | NONE    |
| Internal Debris                       |                                  | NONE    |
| Connector Covers fitted               |                                  | PASS    |
| Connector Savers Fitted               |                                  | PASS    |
| EMC Covers Fitted                     |                                  | N/A     |
| RED Tag Item / Green Tag Items fitted |                                  | NONE    |
| Additional Comments                   |                                  | NONE    |

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**DOCUMENTATION CHECK LIST**

| Check                            | REMARKS         | RESULTS     |
|----------------------------------|-----------------|-------------|
| End Item Data Pack               |                 | YES         |
| Transportaion Documents          |                 | YES         |
| Packing un- Packing instructions | Unpacked by Lam | See Remarks |
| Additional Comments              |                 |             |

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## 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).

INSPECTION / TEST REPORT NUMBER

CHECKED    N/A on 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.

INSPECTION / TEST REPORT NUMBER

CHECKED    N/A on this inspection

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|                            |
|----------------------------|
| <b>EXTRA COMMENT SHEET</b> |
|----------------------------|

# LABORATOIRE D'ASTROPHYSIQUE DE MARSEILLE

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Traverse du Siphon - 12<sup>ème</sup> Arr. – B.P 8 – 13376 Marseille Cedex 12  
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## PACKING LIST

*Container weight 100 kg (size 75 cm x 75cm x 50 cm)*

### Directly inside container

- 1 SMEC CQM located inside an aluminium primary container ✓
- 1 plastic bag with tools ✓
- 6 electric cables ✓
- 1 plastic bag with 2 white electric cables ✓
- 1 plastic bag with aluminium tape ✓
- 1 SMEC CQM Acceptance Data Package ✓

A black case is attached with adhesive tape on the top of the container.

It contains the electronic PC boards for the MCU-QM1

- Mac Electronic card ✓
- SMEC Electronic card ✓
- BSM Electronic card ✓

 26/10/04.