

SSTD Incoming Inspection Report

Spacecraft/Project **HERSCHEL / SPIRE**

Document Number **SPIRE-RAL-REP- 002724**

Issue **1**

Sub System **FPU**

Date **15th September 2006**

Model **PFM**

INCOMING INSPECTION REPORT

FROM
CSL
Centre Spatial de Liège, LIEGE Science Park, Avenue du Pré-Aily, B-4031 ANGLEUR, Belgium

TO
SPIRE Project Rutherford Appleton Laboratory Space Science and Technology Department Chilton DIDCOT OXON OX11 0QX

Applicable sections	
Containers	Yes
External Visual Inspection	Yes
External Connector	Yes
Documentation	Yes
Verification of Interfaccs	No
Extra Comments Sheets	No

Drawings / Documents Attached
Photo's

INSPECTION CONDUCTED BY

NAME
Alan Pearce

DATE
15th September 2006

WITNESS BY

NAME
Eric Clark (PA)

DATE
15th September 2006

SSTD Incoming Inspection Report

Spacecraft/Project

Document Number

Issue

Sub System

Date

Model

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		

ENVIROMENTAL MONITORS																													
<u>Temp Monitors</u>		<u>Humidity Monitors</u>		<u>Shock Sensors Triggerd Information</u>																									
Fitted: <input type="text" value="No"/>	Fitted: <input type="text" value="No"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="width: 16.6%;">5g</th> <th style="width: 16.6%;">10g</th> <th style="width: 16.6%;">15g</th> <th style="width: 16.6%;">25g</th> <th style="width: 16.6%;">50g</th> </tr> </thead> <tbody> <tr> <td>X Axis</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Y Axis</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Z Axis</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					5g	10g	15g	25g	50g	X Axis						Y Axis						Z Axis					
	5g	10g	15g	25g	50g																								
X Axis																													
Y Axis																													
Z Axis																													
Condition: <input type="text" value="N/A"/>	Condition: <input type="text" value="N/A"/>																												

SSTD Incoming Inspection Report

Spacecraft/Project **HERSCHEL / SPIRE**

Document Number **SPIRE-RAL-REP-002724**

Issue **1**

Sub System **FPU**

Date **15th September 2006**

Model **PFM**

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?		Acceptable
Fasteners correctly locked?		Correct
Check protective covers are correctly labelled and fitted?		Correct
Additional Comments	FPU returned for investigation into SMEC launch Latch becoming un-latched during Vibration Test	See Remarks

SSTD Incoming Inspection Report

Spacecraft/Project **HERSCHEL / SPIRE**

Document Number **SPIRE-RAL-REP-002724**

Issue **1**

Sub System **FPU**

Date **15th September 2006**

Model **PFM**

INSPECTION OF ALL CONNECTORS

CHECK LIST	REMARKS (LIST CONNECTOR NUMBERS)	RESULTS
Pin Alignment	Checked when FPU is back in clean room	Pass
Damaged Sockets	Checked when FPU is back in clean room	None
Internal Debris	Checked when FPU is back in clean room	None
Connector Covers fitted	See additional comments	See remark
Connector Savers Fitted	Some are fitted see photo's	See remark
EMC Covers Fitted	See additional comments	See remark
RED Tag Item / Green Tag Items fitted	Appature cover fitted (Red Tag Item)	See remark
Additional Comments	All connectors were covered with copper tape for ESD protection	See remark

SSTD Incoming Inspection Report

Spacecraft/Project **HERSCHEL / SPIRE**

Document Number **SPIRE-RAL-REP-002724**

Issue **1**

Sub System **FPU**

Date **15th September 2006**

Model **PFM**

DOCUMENTATION CHECK LIST

Check	REMARKS	RESULTS
End Item Data Pack		N/A for this inspection
Transportaion Documents		Yes
Packing un- Packing instructions		Yes
Additional Comments		

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**

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**

SSTD Incoming Inspection Report

Spacecraft/Project	HERSCHEL / SPIRE
--------------------	------------------

Document Number	SPIRE-RAL-REP-002724
-----------------	----------------------

Issue	1
-------	---

Sub System	FPU
------------	-----

Date	15th September 2006
------	---------------------

Model	PFM
-------	-----

EXTRA COMMENT SHEET

Note

- 1 The Feet fitted to the FPU are Not the Flight feet but Transit feet
- 2 Some of the insulation bushes (top hat) were missing from the Transit Cone foot when delivered.

Outer Transit Case



Dent in Transit case



Inner Transit Case



-15G "X" Shock monitor Tripped



“Y” Shock Monitors OK



“Z” Shock Monitors OK



FPU Doubled Bagged



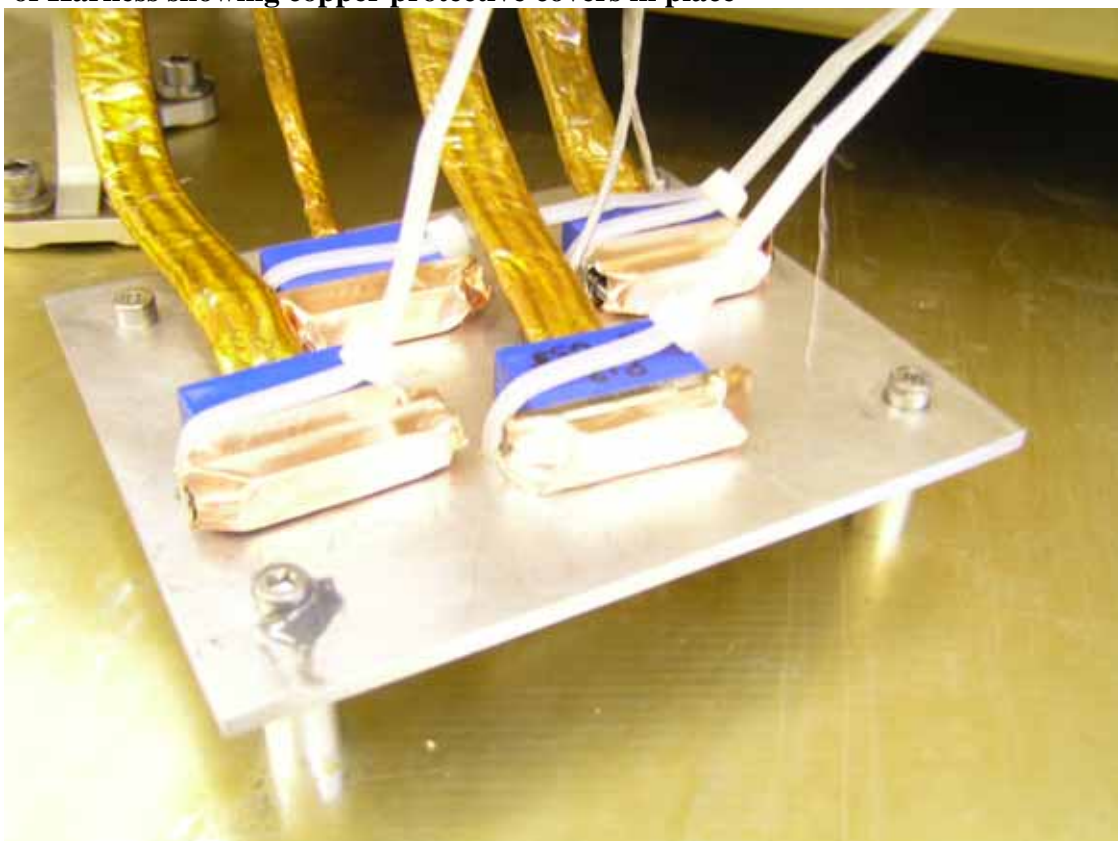
Single Bag remaining



With Bags removed



View of Harness showing copper protective covers in place



View showing copper protective covers in place and savers fitted to some connectors



View of other Harness showing copper protective covers in place



View of L0 straps

