

SSTD Outgoing Inspection Report

Spacecraft/Project **HERSCHELL/SPIRE**

Document Number **SPIRE-RAL-REP- 002707**

Issue **1**

Sub System **FPU**

Date **21st August 06**

Model **PFM**

OUTGOING INSPECTION REPORT

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

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

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

Drawings / Documents Attached
Photo's

INSPECTION CONDUCTED BY

WITNESS BY

NAME
Alan Pearce

DATE
21st August 06

NAME
Eric Clark (PA)

DATE
21st August 06

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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	THIS is a perpose built transport container	See Remarks

TRANSPORT CONTAINERS INTERNAL CONDITION	REMARKS	Status
Check Mounting fixtures fitted internal packaging		Checked
Internal padding / packaging required	FPU is mounted on a transit plate then secured to transport case	See Remarks
Mounting provisions secure		Checked
Any additional Comments	This is a perpose built transport container specific for SPIRE	See Remarks

ENVIROMENTAL MONITORS								
Temp Monitors		Humidity Monitors		Shock Sensors Triggerd Information				
Fitted:	<input type="text" value="No"/>	Fitted:	<input type="text" value="No"/>	5g	10g	15g	25g	50g
Condition:	<input type="text" value="N/A"/>	Condition:	<input type="text" value="N/A"/>	X Axis	Y Axis	Z Axis	SET	SET
				SET	SET	SET	SET	SET

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INSTRUMENT VISUAL INSPECTION

CHECK LIST	REMARKS	RESULTS
Contents against shipping list		Correct
All closure procedures		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
Double bagged?		Correct
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		Pass
Connector Savers Fitted		Pass
EMC Covers Fitted	Copper tape over connectors savers as shorting plugs removed for vibration test	See remark
RED Tag Item / Green Tag Items fitted	Aperture plate Fitted (Red Tag Item)	See remark
Additional Comments		None

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DOCUMENTATION CHECK LIST

Check	REMARKS	RESULTS
End Item Data Pack	Full EIDP not required as this is a workmanship vibration test only	See Remarks
Transportaion Documents		Yes
Packing un- Packing instructions	Will be performed with RAL personel assisting	See Remarks
Additional Comments		No

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**

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Issue 1

Sub System FPU

Date 21st August 06

Model PFM

EXTRA COMMENT SHEET

SPIRE RAL-REP-002707 issue 1 PFM out going inspection to CSL (Workmanship)

Views of FPU before Transferring to Transit Plate



Connectors with shorting Plugs and savers fitted



SPIRE RAL-REP-002707 issue 1 PFM out going inspection to CSL (Workmanship)

With Shorting Plugs removed ready for Vibration test

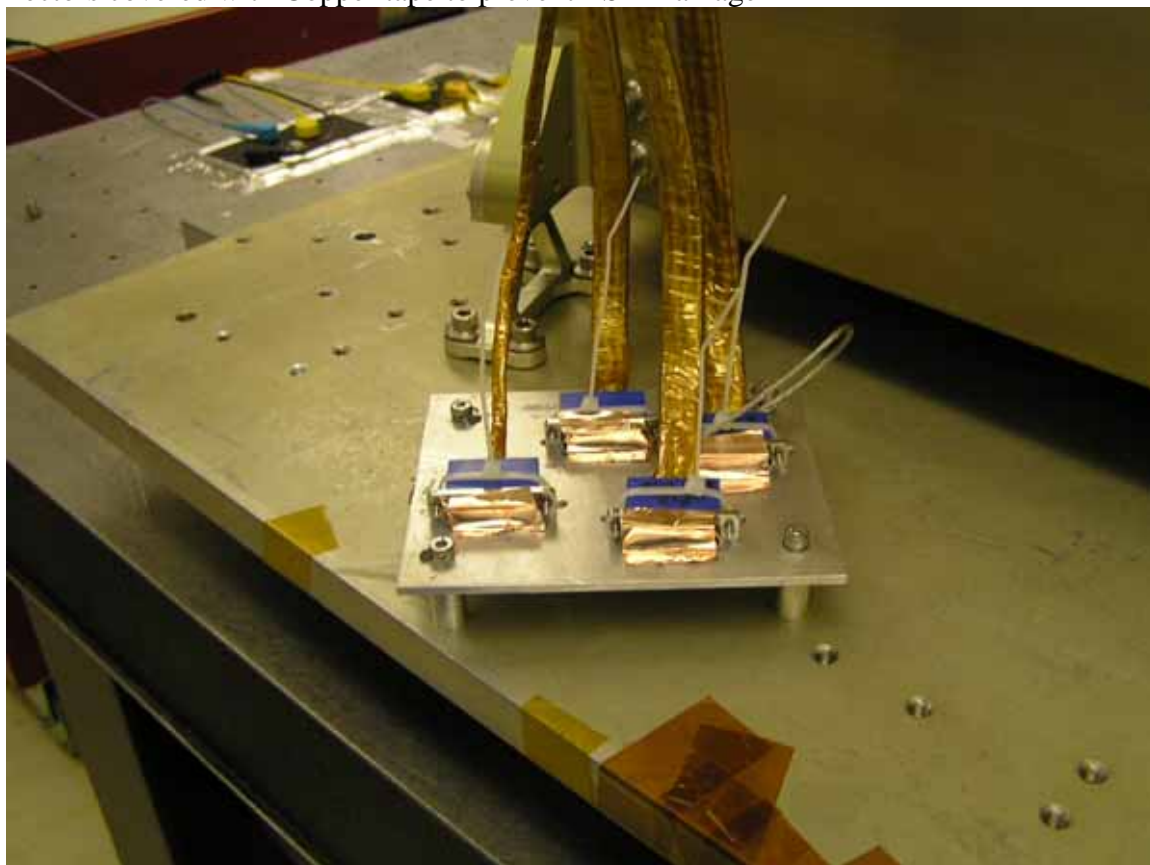


With Savers covered with copper tape to prevent ESD Damage



SPIRE RAL-REP-002707 issue 1 PFM out going inspection to CSL (Workmanship)

Connectors covered with Copper tape to prevent ESD Damage



Connectors covered with Copper tape to prevent ESD Damage



SPIRE RAL-REP-002707 issue 1 PFM out going inspection to CSL (Workmanship)
Close up of Straps showing discoloration



Close up of Straps showing discolouration

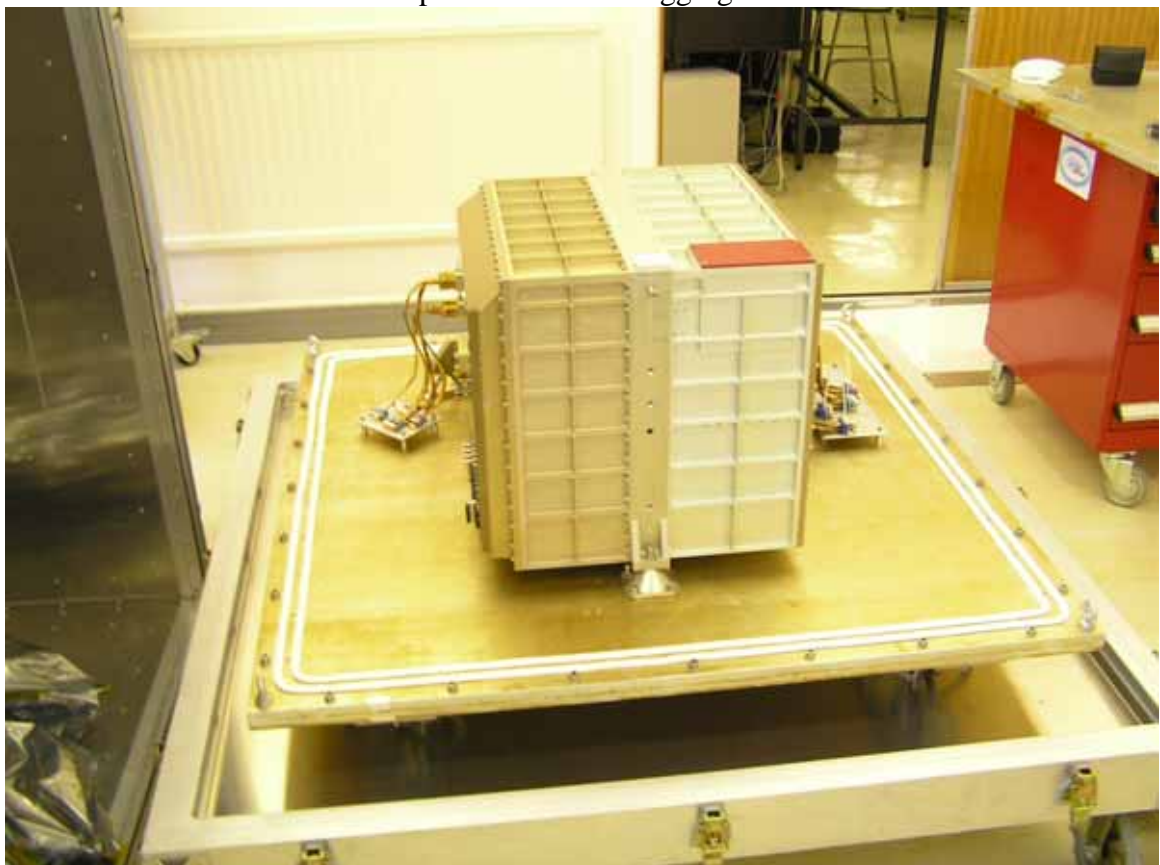


SPIRE RAL-REP-002707 issue 1 PFM out going inspection to CSL (Workmanship)

Close up of Straps showing discolouration



Mounted on Inner box Transit Plate prior to Double Bagging

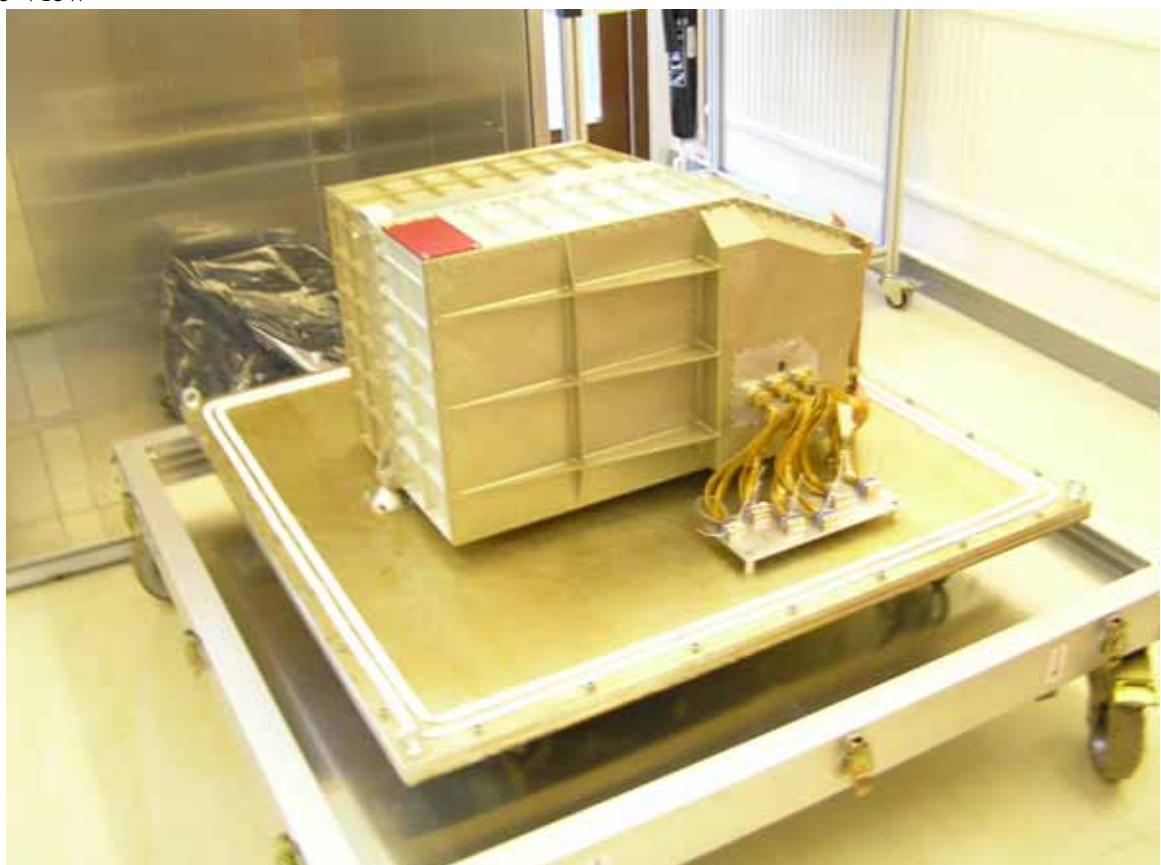


SPIRE RAL-REP-002707 issue 1 PFM out going inspection to CSL (Workmanship)

Viewed from other end showing Straps and Harnesses attached to Transit Plate



Side View



SPIRE RAL-REP-002707 issue 1 PFM out going inspection to CSL (Workmanship)

Showing "Y" Shock monitors set even if the Value is unclear.



Showing "Z" Shock monitors set even if the Value is unclear



SPIRE RAL-REP-002707 issue 1 PFM out going inspection to CSL (Workmanship)

Showing "X" Shock monitors set even if the Value is unclear



Double Bagged



SPIRE RAL-REP-002707 issue 1 PFM out going inspection to CSL (Workmanship)

With Inner box cover fitted.



Outer Transit cover not shown.