

SSTD Outgoing Inspection Report

Spacecraft/Project **HERSCHELL/SPIRE**

Document Number **SPIRE-RAL-REP- 002860**

Issue **1.0**

Sub System **DCU**

Date **20-Mar-07**

Model **PFM**

OUTGOING INSPECTION REPORT

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

TO
EADS-F Astrium GmbH. Projekt Herschel. Anlieferstelle : Halle 6052/Aloys Weber. Claude-Dornier- Strasse. D-88090 Immenstaad. Germany

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

Drawings / Documents Attached
Photos

INSPECTION CONDUCTED BY

WITNESS BY

NAME
Dion Dawson (PA)

DATE
20/03/2007

NAME
Jan Rautakoski

DATE
20/03/2007

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CONTAINER INSPECTION

TRANSPORT CONTAINERS EXTERNAL CONDITION	REMARKS	Status
Mechanical damage to container fasteners, locks, clips or handling provisions		None
Security / Locking Fitted		N/A
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	Securely fixed onto mounting	See Remarks
Any additional Comments		

ENVIROMENTAL MONITORS								
Temp Monitors		Humidity Monitors		Shock Sensors Triggerd Information				
Fitted:	<input type="text" value="Yes"/>	Fitted:	<input type="text" value="Yes"/>	5g	10g	15g	25g	50g
Condition:	<input type="text" value="Satisfactory"/>	Condition:	<input type="text" value="Satisfactory"/>	X Axis				
				Y Axis				
				Z Axis				

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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	Slight particulate contamination around base of DCU to be cleaned before Bagging	See Remarks
Degradation of paintwork or Coating?		None
Fasteners correctly locked?		Correct
Check protective covers are correctly labelled and fitted?		N/A
Double bagged?		Correct
Additional Comments		See Remarks

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INSPECTION OF ALL CONNECTORS

CHECK LIST	REMARKS (LIST CONNECTOR NUMBERS)	RESULTS
Pin Alignment		Pass
Damaged Sockets		None
Internal Debris	J08 Small hair like partical between connector side and first row of pins	See remark
Connector Covers fitted	Removed for inspection Reffited after inspection	See remark
Connector Savers Fitted	Removed as agreed at DRB	See remark
EMC Covers Fitted		N/A
RED Tag Item / Green Tag Items fitted		None
Additional Comments		

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DOCUMENTATION CHECK LIST

Check	REMARKS	RESULTS
End Item Data Pack	Reviewed at DRB	Yes
Transportaion Documents		Yes
Packing un- Packing instructions	In EIDP	Yes
Additional Comments		N/A

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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EXTRA COMMENT SHEET

DCU checked against ICD for connector type, size, position, & orientation, all correct

Flatness check performed Monday morning on the surface table in the clean room using 50microns feeler guageno distortion detected

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Top of DCU to show the pin alignment and staking



View of connectors on the top of the unit to show pins



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View of connectors and staking at the top of the unit



View of connectors and staking at the top of the unit

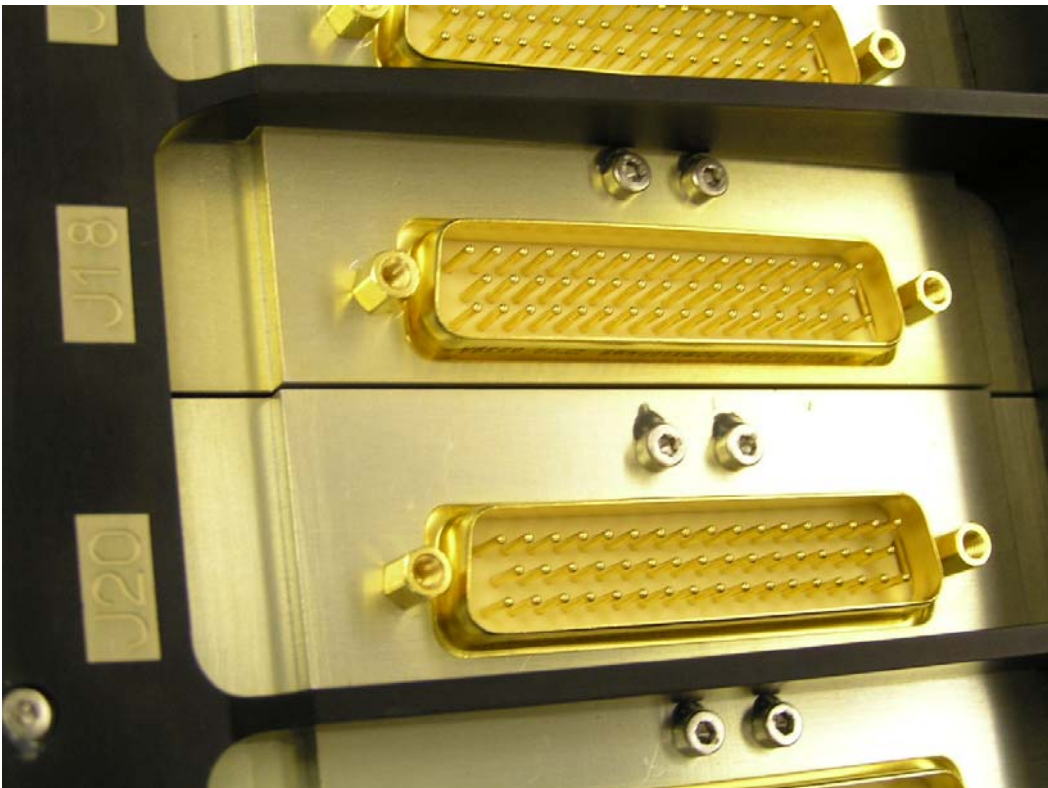


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View of the connectors and pins at the top of the unit and staking

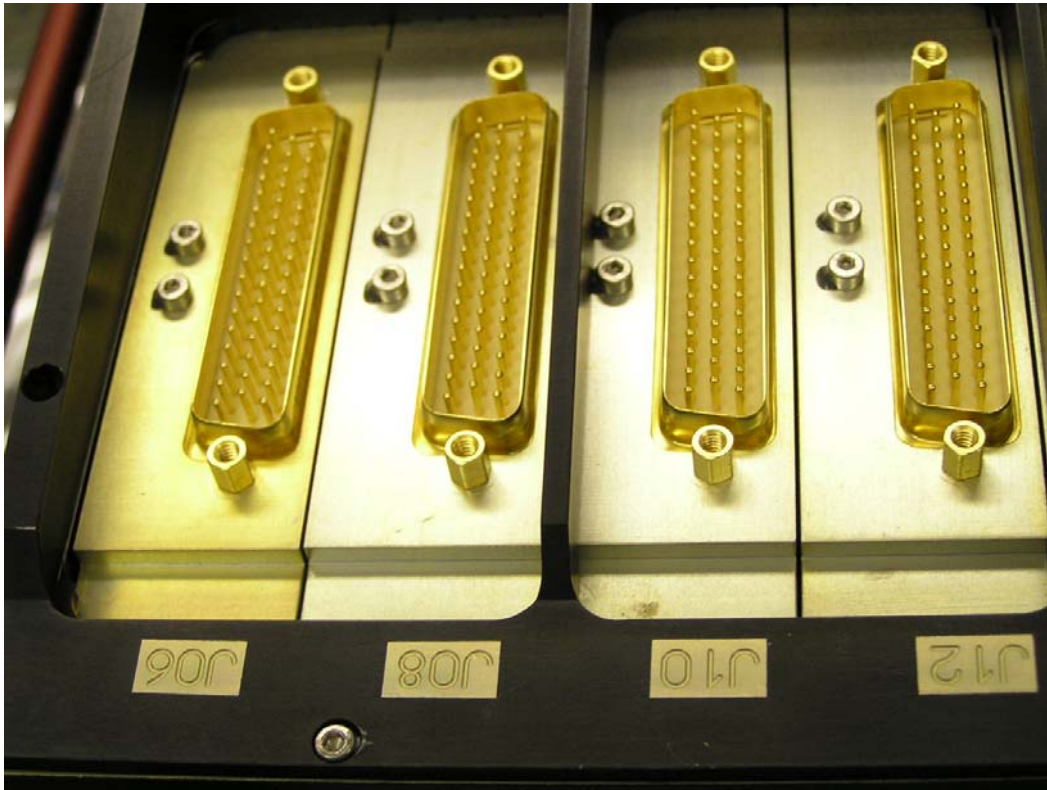


View of the pins at the top of the unit, J18 and J20

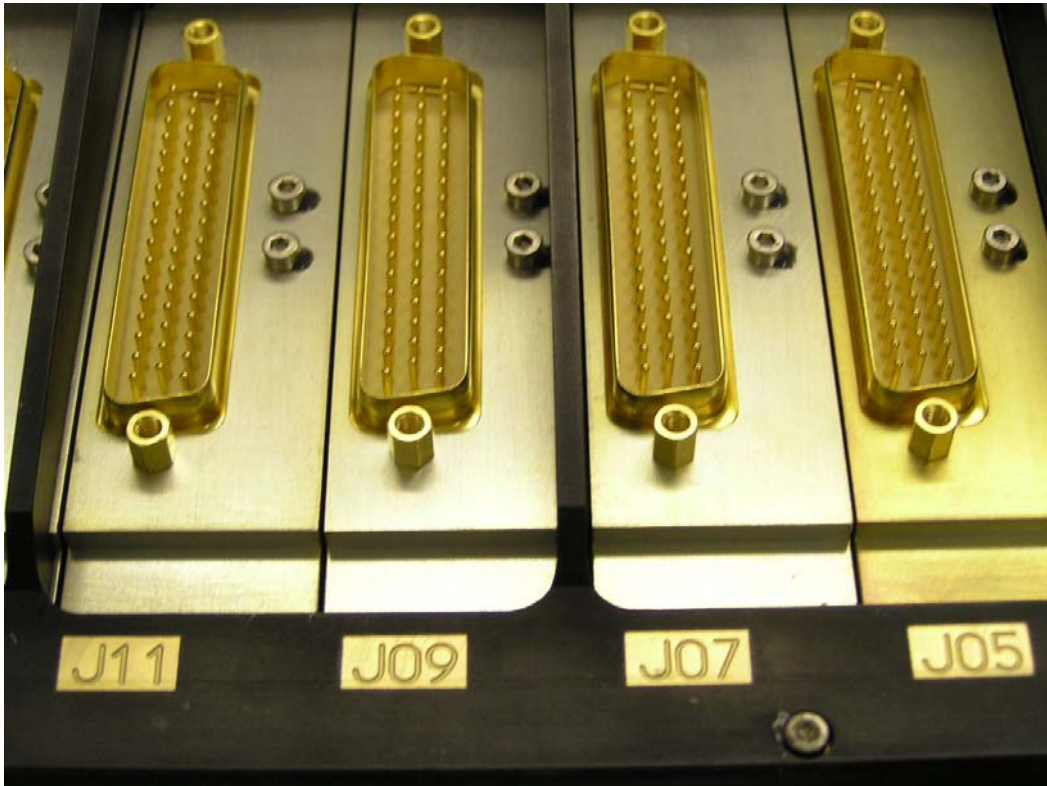


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Connectors J06, J08, J10, and J12.



Connectors J11, J09, J07 and J05



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Connectors J19, J17, J15 and J13

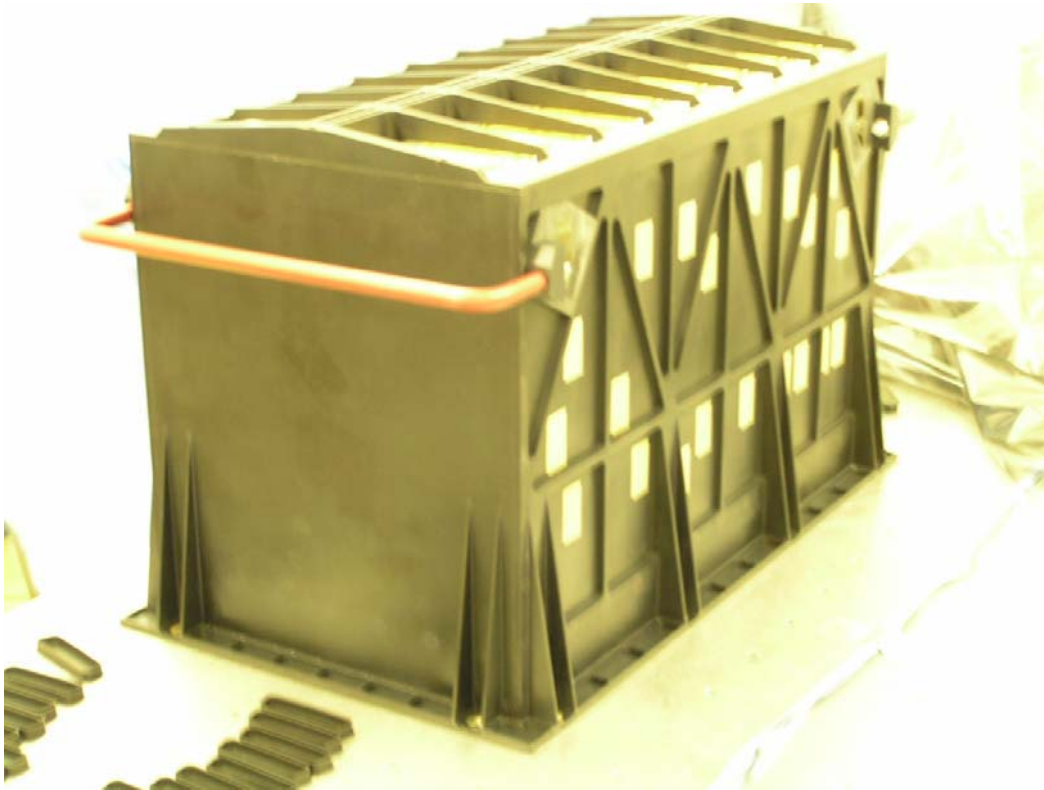


General view of unit



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General view of the unit from the opposite side



View of the top to show ESD covers placed back post inspection



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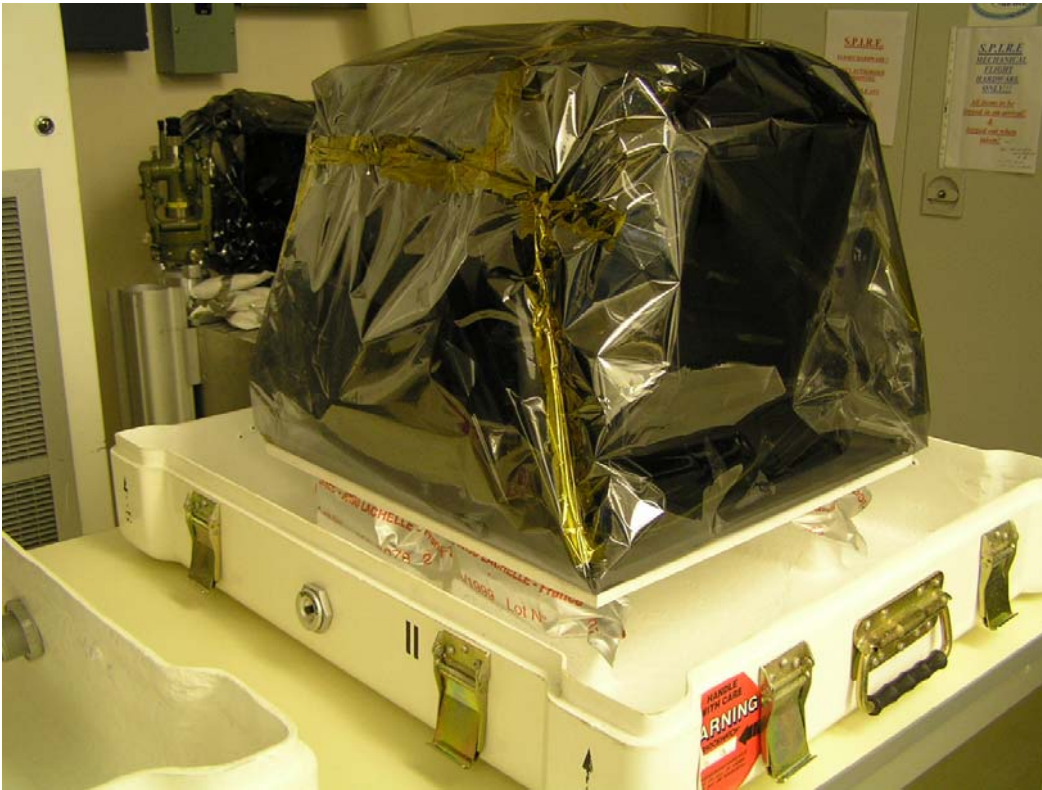
View of the side to show ESD covers placed back post inspection



Unit double bagged and secured onto the base of the case.



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Side view of unit on case base and double bagged.



DCU and FCU – secured to case bases and double bagged.



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View of enclosed shock absorbers in the case base.



View of enclosed shock absorbers in the case bases.



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Case markings to show which way up the unit should be transported.



Case markings of DCU and FCU units, ready for transportation

