

# SSTD Outgoing Inspection Report

Spacecraft/Project    **HERSCHELL/SPIRE**

Document Number    **SPIRE-RAL-REP- 002725**

Issue    **1**

Sub System    **Warm Electronics**

Date    **20th September 2006**

Model    **QM2**

## OUTGOING INSPECTION REPORT

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

TO
<p><b>ESA</b> Astrium Satellites/Herschel Project, c/o ESTEC, Keplerlaan 1, 2201AZ Noordwijk, The Netherlands.</p>

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

Drawings / Documents Attached
Photo's

**INSPECTION CONDUCTED BY**

NAME
Alan Pearce

DATE
20th September 2006

**WITNESS BY**

NAME
Eric Clark (PA)

DATE
20th September 2006

# SSTD Outgoing Inspection Report

Spacecraft/Project **HERSCHELL/SPIRE**

Document Number **SPIRE-RAL-REP- 002725**

Issue **1**

Sub System **Warm Electronics**

Date **20th September 2006**

Model **QM2**

## 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	Delivered by RAL Transport Section	See Remarks
Warning labels relating to handling lifting and stacking limits		N/A
Any additional Comments		None

TRANSPORT CONTAINERS INTERNAL CONDITION	REMARKS	Status
Check Mounting fixtures fitted internal packaging		Checked
Internal padding / packaging required	Mounted to Plates attached to base of Transit Containers	See Remarks
Mounting provisions secure		Checked
Any additional Comments	Some shock monitors on side of Transit cases and Humidity detectors inside see photo's	See Remarks

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="Yes"/>	5g	10g	15g	25g
Condition: <input type="text" value="N/A"/>	Condition: <input type="text" value="Satisfactory"/>	50g			
		X Axis			
		Y Axis			
		Z Axis			

# SSTD Outgoing Inspection Report

Spacecraft/Project    **HERSCHELL/SPIRE**

Document Number    **SPIRE-RAL-REP- 002725**

Issue    **1**

Sub System    **Warm Electronics**

Date    **20th September 2006**

Model    **QM2**

**INSTRUMENT VISUAL INSPECTION**

CHECK LIST	REMARKS	RESULTS
Contents against shipping list		Correct
All closure procedures		Correct
Instrument label		Correct
Note status of external contamination	These are Not Flight units but are used close to flight Hardware so must be kept Clean.	See Remarks
Degradation of paintwork or Coating?		Acceptable
Fasteners correctly locked?		Correct
Check protective covers are correctly labelled and fitted?		N/A
Double bagged?	Single Bagged in Transit containers see remark above.	See Remarks
Additional Comments		None

# SSTD Outgoing Inspection Report

Spacecraft/Project    **HERSCHELL/SPIRE**

Document Number    **SPIRE-RAL-REP- 002725**

Issue    **1**

Sub System    **Warm Electronics**

Date    **20th September 2006**

Model    **QM2**

## INSPECTION OF ALL CONNECTORS

CHECK LIST	REMARKS (LIST CONNECTOR NUMBERS)	RESULTS
Pin Alignment	All unused connectors for Stray Light Test were covered with copper tape so not able to inspect all pins.	See remark
Damaged Sockets		None
Internal Debris		None
Connector Covers fitted	All unused connectors for Stray Light Test were covered with copper tape for ESD Protection	See remark
Connector Savers Fitted	Connector savers removed for transit and Test.	See remark
EMC Covers Fitted		None
RED Tag Item / Green Tag Items fitted		N/A
Additional Comments		None

# SSTD Outgoing Inspection Report

Spacecraft/Project **HERSCHELL/SPIRE**

Document Number **SPIRE-RAL-REP- 002725**

Issue **1**

Sub System **Warm Electronics**

Date **20th September 2006**

Model **QM2**

## DOCUMENTATION CHECK LIST

Check	REMARKS	RESULTS
End Item Data Pack	Not required as this is not a formal delivery but is transported to ESTEC for Testing	See Remarks
Transportation Documents	Delivered by RAL Transport section appropriate Transport documents sent	See Remarks
Packing un- Packing instructions	Will be unpacked by SSTD Personnel	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**

SSTD Outgoing Inspection Report

Spacecraft/Project    HERSCHELL/SPIRE

Document Number    SPIRE-RAL-REP- 002725

Issue    1

Sub System    Warm Electronics

Date    20th September 2006

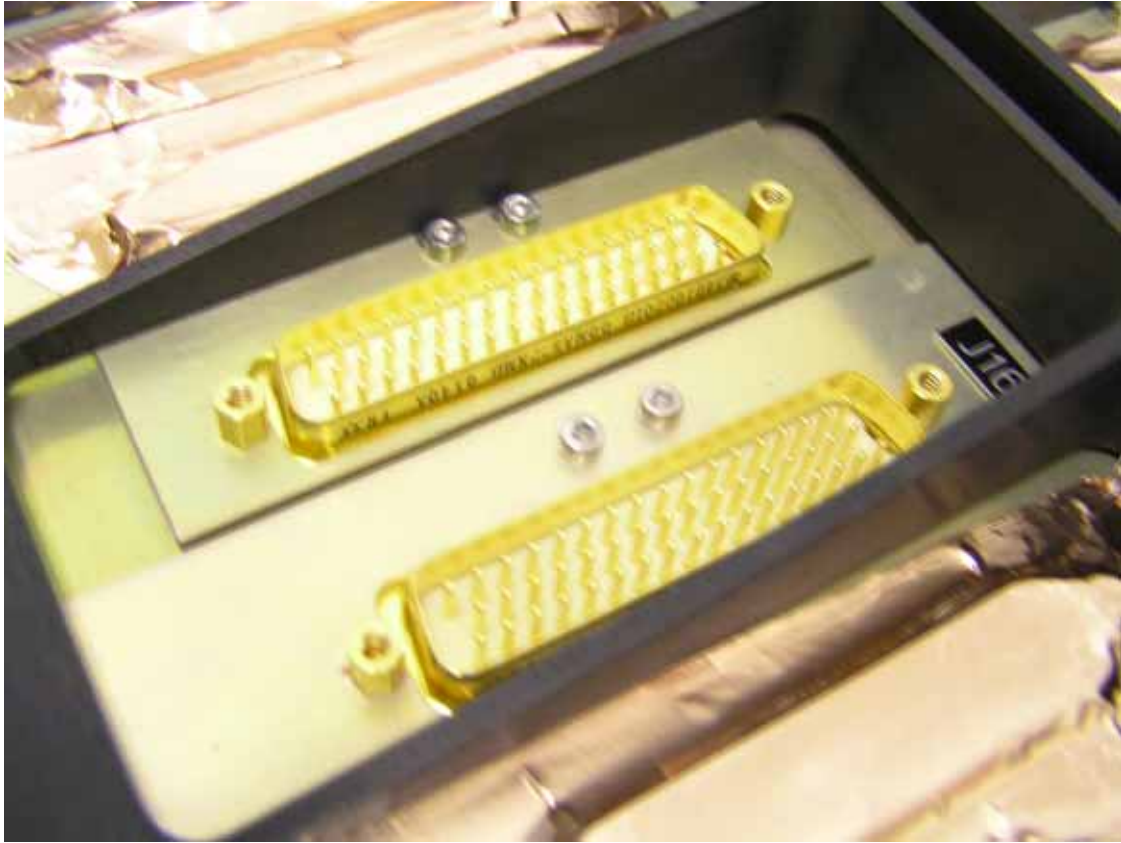
Model    QM2

EXTRA COMMENT SHEET

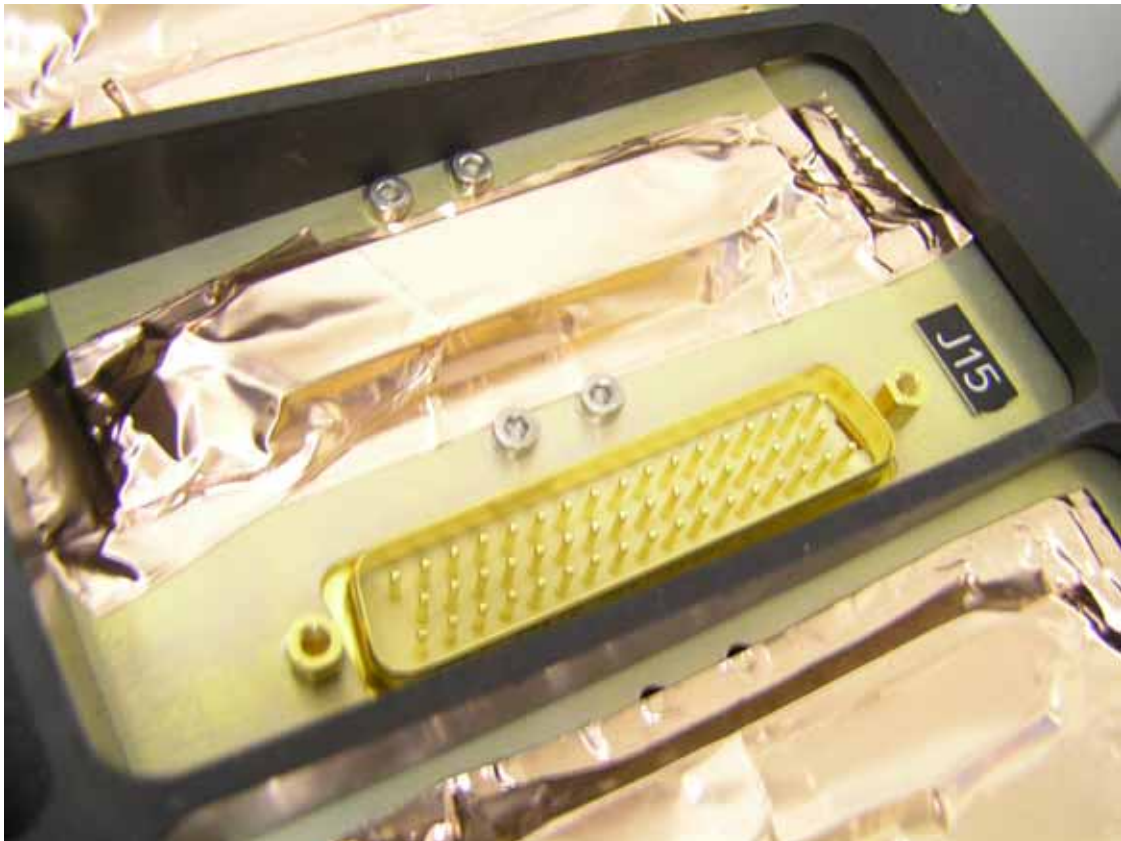
Delivery consists of:-

Box No	Contents	Model
1	DCU	QM2
2	FCU	QM2
3	DPU	AVM1
4	CDMS simulator PC	EGSE
4	CDMS simulator Keyboard and Mouse	
4	CDMS Simulator Monitor	
4	Optical Bench	
4	Chopper Mechanism	
4	Misc Optical components	
4	Stray Light detector electronics	
4	Test Harness	
4	WIH	
5	Hot blackbody, test equipment	

DCU Connectors Photo 1

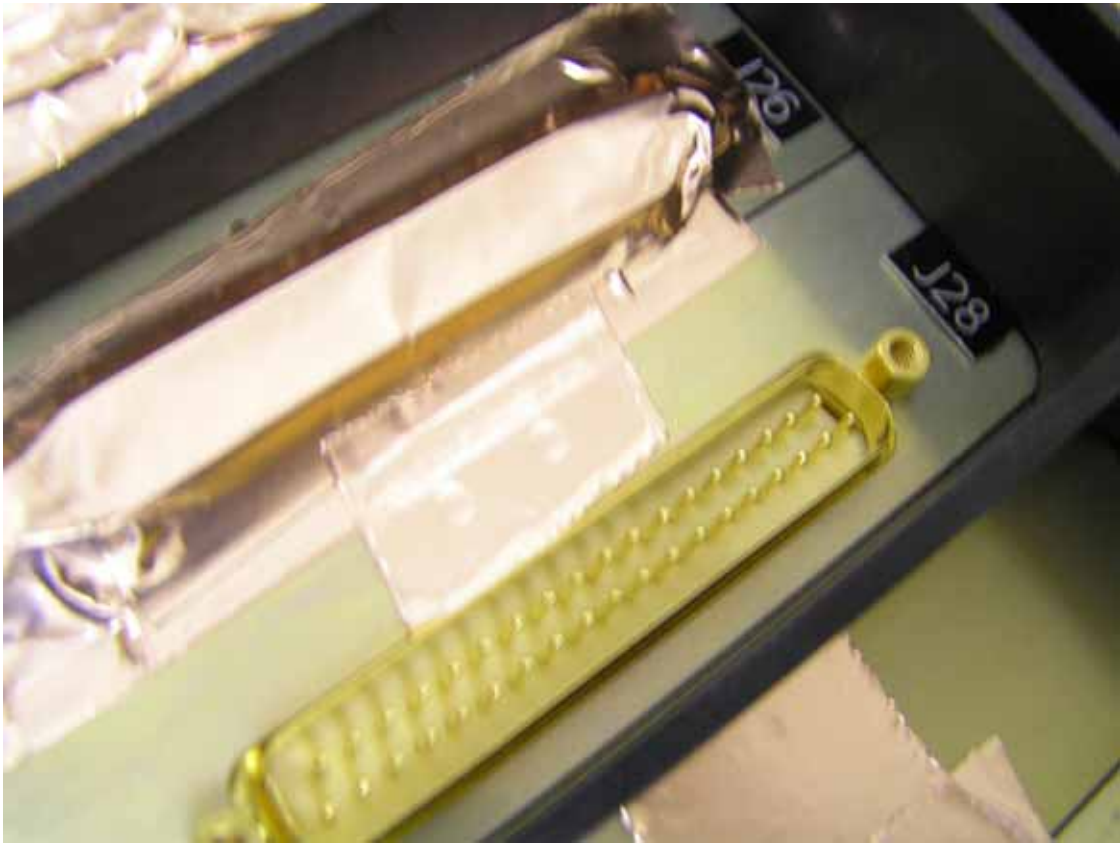


DCU Connectors Photo 2





DCU Connectors Photo 3

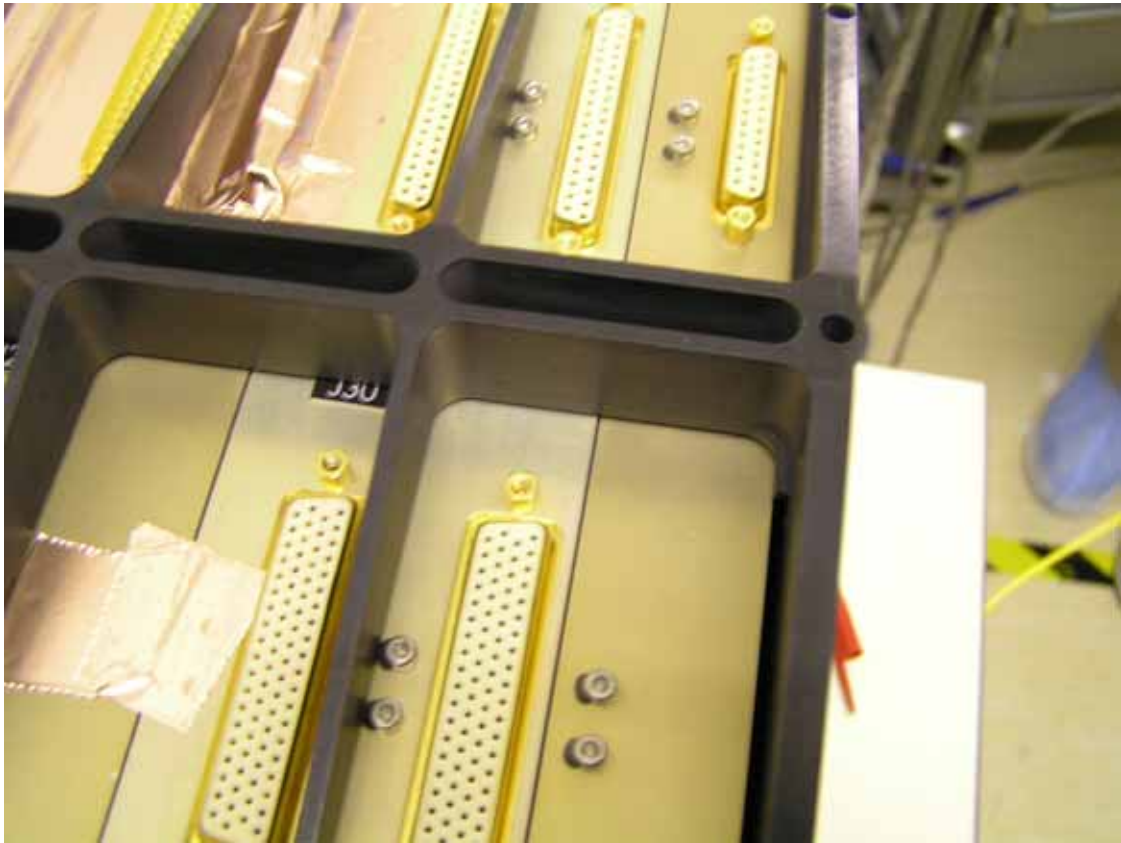


DCU Connectors Photo 4





DCU Connectors Photo 5



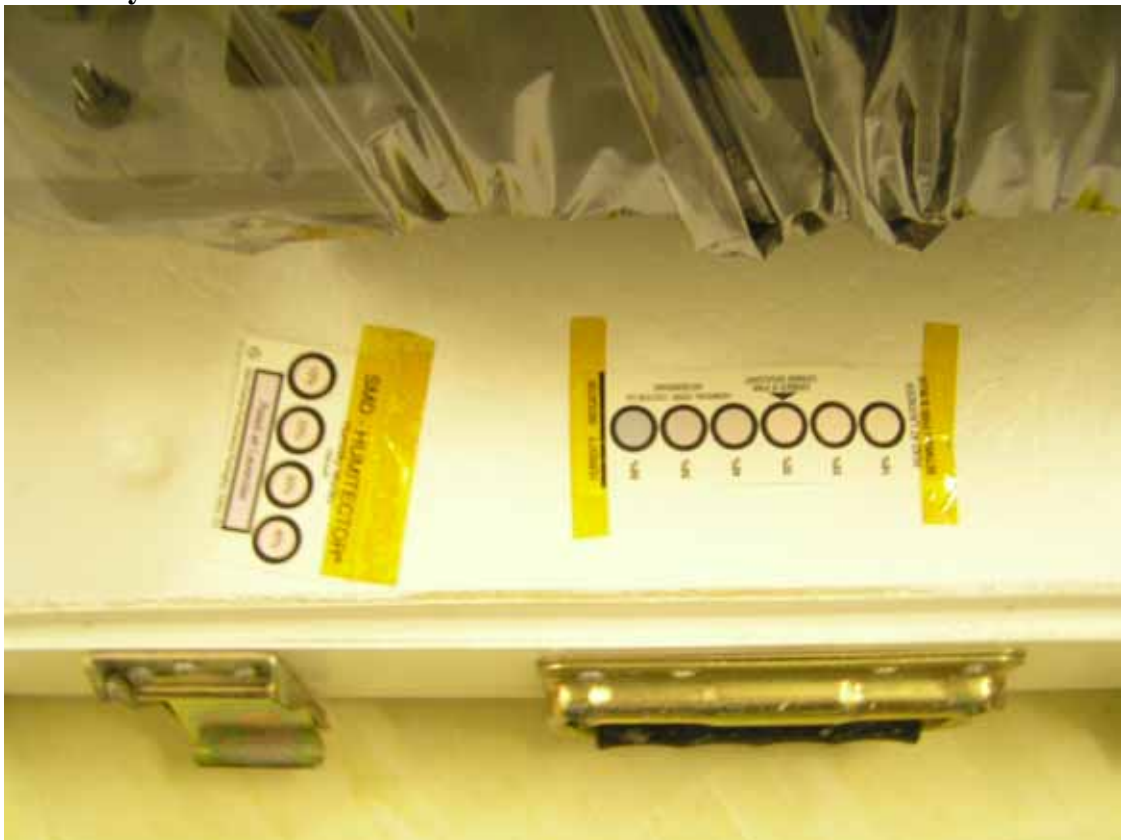
DCU attached to transit case Base



DCU Bagged



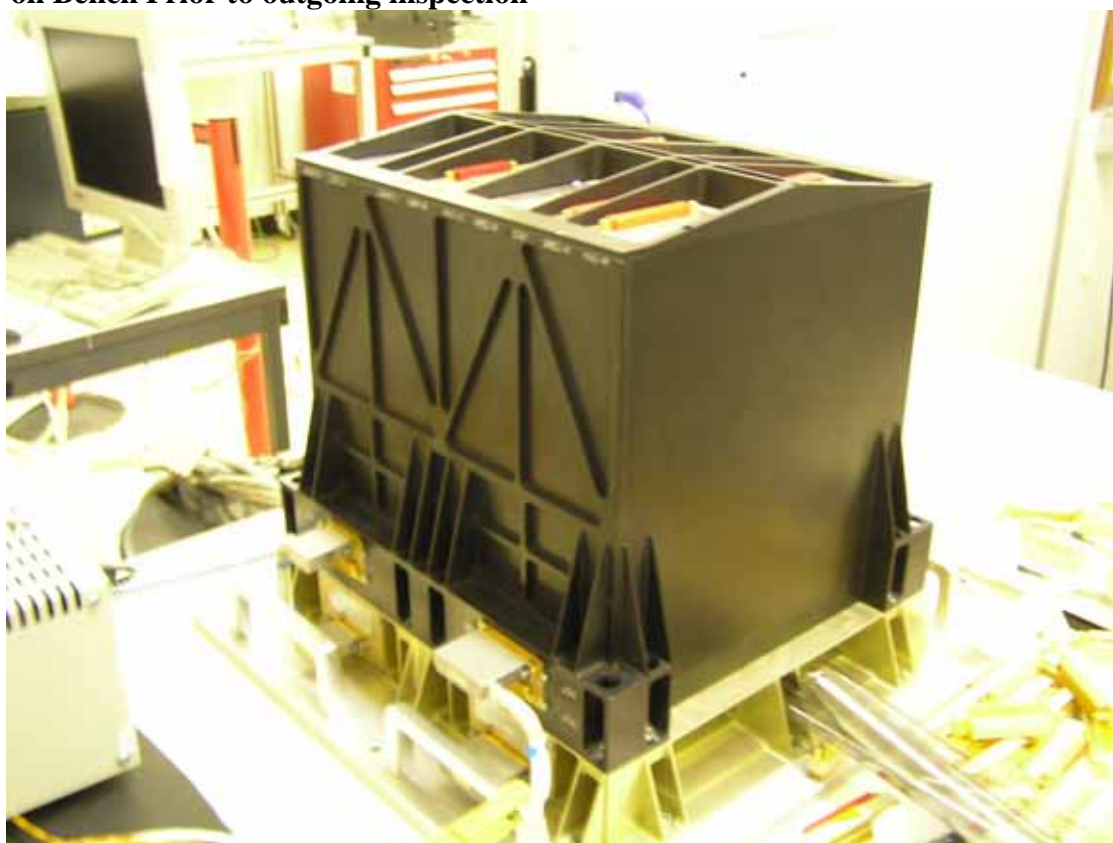
DCU Humidity Sensors



DCU Case Shock watch monitor



FCU on Bench Prior to outgoing inspection







FCU attached to case base and Bagged



FCU case Shock watch monitor 1



FCU case Shock watch monitor 1

