

PRODUCT ASSURANCE

Space Science and Technology Department

Spacecraft/Project	HERSCHEL	Document No	SPIRE-RAL REP-001774		
Instrument/Model	SPIRE / CQM	Issue No	1 REV 0		0
Subsystem	JFET SN 002	Date	25 September 2003		

### Report at receipt/delivery or other major movement of instrument/hardware and associated GSE.

Inspection Report Incoming

FROM	ТО
JPL USA	SPIRE SSTD RAL

Inspection c	onducted by	Witnessed by (Pro	oduct Assurance)
Name	Signature / Date	Name	Signature / Date
Doug Griffin Bruce Swinyard		Eric Clark	



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# INTRODUCTION

This inspection report shall be completed for formal transfers of hardware between RAL and customers, agencies or collaborating organisations

The following must be inspected:

Documentation	SECTION	1
Containers		2
Visual Inspection of Hardware		3
Interface Verification		4

Each section contains a checklist that shall be completed.

Unused boxes should have N/A entered.

Deviations e.g. items not delivered or incomplete documentation must be noted in the comments column.

For previously agreed deviations refer to the Delivery Review Board (DRB) minutes of meeting (MOM) or similar.

NCR's must be raised for other deviations, damage or defects noted.



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## **SECTION 1: DOCUMENTATION**

Documentation shall be checked for completeness, any items not received or to be delivered later should be noted.

**Note 1:** The delivery review board minutes should list outstanding items, e.g. open work, open NCRs and Waivers etc. A copy should accompany or form part of the EIDP. If there is no EIDP then it should be referenced on this report.

**Note 2:** All items dispatched from the Laboratory must have a Dispatch Note completed and signed, with a copy filed in the appropriate section of the EIDP.

No.	Procedure	Comments (Include NCR Number if applicable)	Check N/A or ✓
1.1	Is the documentation complete	EIDP Supplied with Item Not checked yet	
1.2	Is the accompanying documentation compliant with project requirements	EIDP Supplied with Item Not checked yet	
1.3	Note DRB/MoM Document Number, minutes and note any discrepancies with respect to agreements recorded. OR attach copy of minutes.		
1.4	Additional Remarks		



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# **SECTION 2: INSPECTION OF CONTAINERS**

No.	Procedure	Remarks (Include NCR Number if applicable)	Check N/A or ✓
	Transport Containers – External condition.		
2.1	Inspect the outside of the containers for obvious mechanical damage: Cracks, fasteners/locks clips, physical damage, dents or scratches etc. Handling provisions, Other damage		~
2.2	Markings for description and destination		$\checkmark$
2.3	Packing / unpacking instructions	Missing from outside of outer box	
2.4	Warning labels relating to handling, lifting, stacking limits		✓
2.5	Additional Remarks Check security of container	Delivered in a Large outer cardboard box on a pallet with Metal Straps	✓
	Transport Containers – Internal condition		
2.6	Check environmental monitors such as humidity indicators, shock recorders and record the location and readings on the inspection	TIP & TELL Monitors on outer box OK TIP & TELL Monitors on Inner box OK 5g & 10g Shock monitors Tripped both Axis in Black Transit Case Photographs attached	
2.7	Check mounting fixtures or brackets and screws, padding and packing.		$\checkmark$
2.8	Additional Remarks Check security of container		N/A



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## SECTION 3: VISUAL INSPECTION OF HARDWARE

#### Insert one copy of the following section for each configuration item, OR Individual unit.

**Note:** Section 3 when used with the front sheet may be used as a complete report for small units prior to final closure, if this is done confirm unit interior check carried out before closure. Interior check will be limited to visible items.

	SERIAL NUMBER	
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No.	Procedure	Remarks (Include any NCR Numbers if Applicable	Check N/A or ✓
3.1	Check contents against shipping list		✓
3.2	Note external contamination		✓
3.3	Inspect the outside for physical damage, cracks, dents, scratches		~
3.4	Degradation of painting		N/A
3.5	Mounting provisions		✓
3.6	Fasteners correctly locked		✓
3.7	Check for protective covers on all electrical and fluid connectors and on optical and sensor apertures		~



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#### **Check All Connectors**

Connectors on the I/P end had harnesses connected, (some as Shorting Connectors) these were not De-Mated to check connectors, Therefore No Visual check of these connectors was possible at this stage.

No.	Procedure	Remarks (Include NCR Number if applicable)	Check N/A or ✓
3.8.1	Bent pins	No Bent pins But some pins on the MDM's are not central in holes, some are almost touching the sides	
3.8.2.	Internal / external damage		✓
3.8.3	Internal debris		✓
3.8.4	Connector covers fitted		✓
3.8.5	Connector savers in position		✓
3.8.6	EMC Covers Fitted		N/A
3.8.7	RED tag items/covers fitted		N/A
3.8.8	Any other damage		$\checkmark$



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#### Check any harness and associated connectors associated with the Hardware

No.	Procedure	Remarks (Include NCR Number if applicable)	Check N/A or ✓
3.9.1	Bent pins	Free end of Harness connectors only checked.	$\checkmark$
3.9.2	Internal / external damage		✓
3.9.3	Internal debris		✓
3.9.4	Protection caps fitted	None Fitted	
3.9.5	Connector Savers fitted	None Fitted	
3.9.6	EMC Covers Fitted		N/A
3.9.7	RED tag items/covers fitted		N/A
3.9.8	Any other damage		



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#### **Pre Closure Checks**

No.	Procedure	Remarks (Include NCR Number if applicable)	Check N/A or ✓
3.10.1	All internal units securely fastened locked		N/A
3.10.2	All internal connector fasteners locked		N/A
3.10.3	All cabling secure		N/A
3.10.4	No internal debris		N/A
3.10.5	Check packaging is correct		N/A
3.10.6	Shock recorders reset		N/A
3.9.7	Additional remarks		N/A



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# **SECTION 4: VERIFICATION OF INTERFACES**

Confirm all required interface-checking activities have been carried out.

- 4.1 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).
- **4.2 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.

No.	Procedure	Remarks (Include NCR Number if applicable)	Check N/A or ✓
4.1	Mechanical Interfaces Verification	To Be Verified at integration.	
4.2	Electrical Interfaces Verification	Test Results will be added to this report as they become available	



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Ref Spap PA002

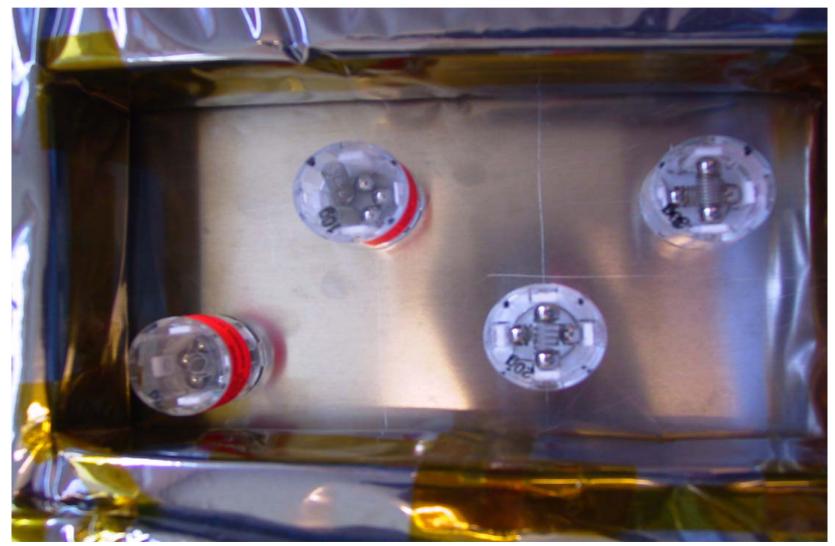
ISO9: Form PA 036 Incoming / Outgoing Inspection Report



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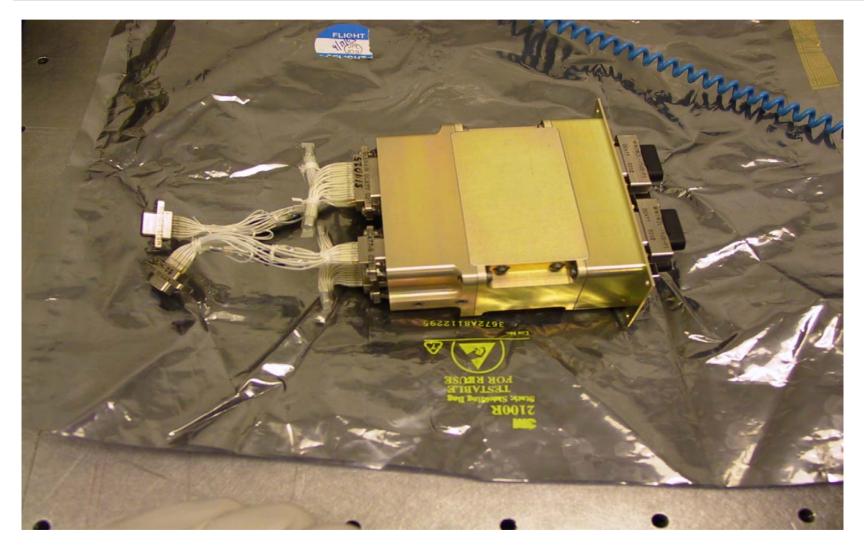
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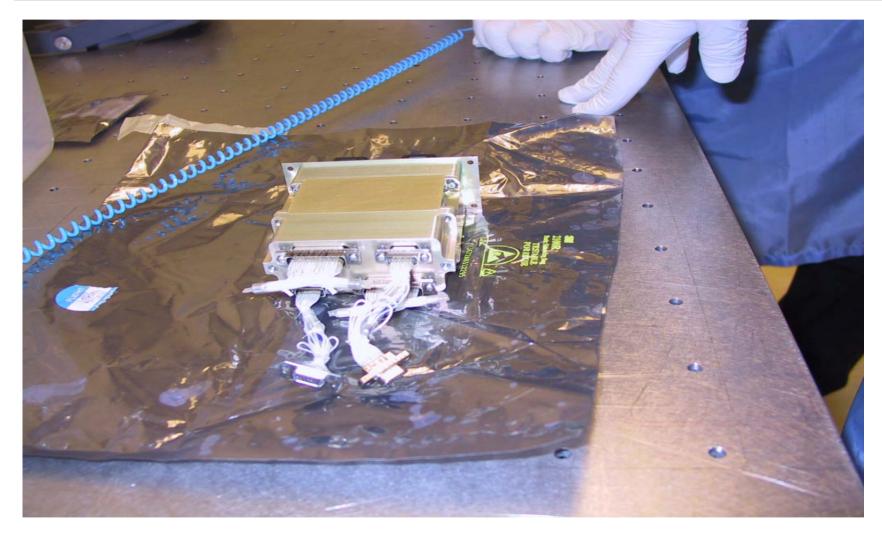
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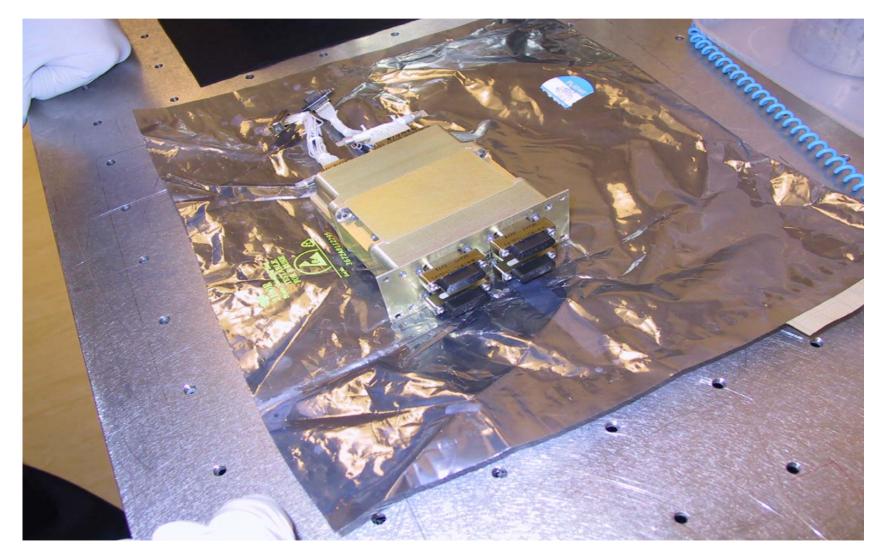
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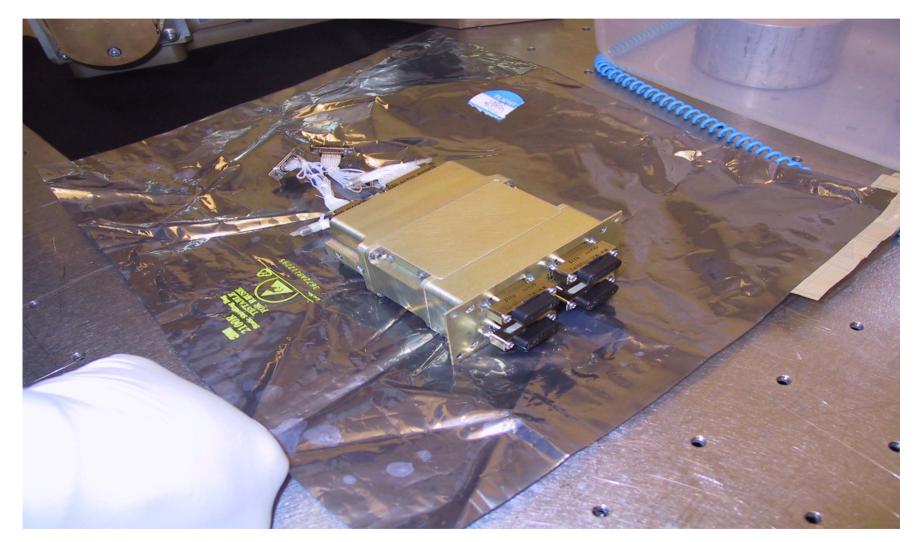
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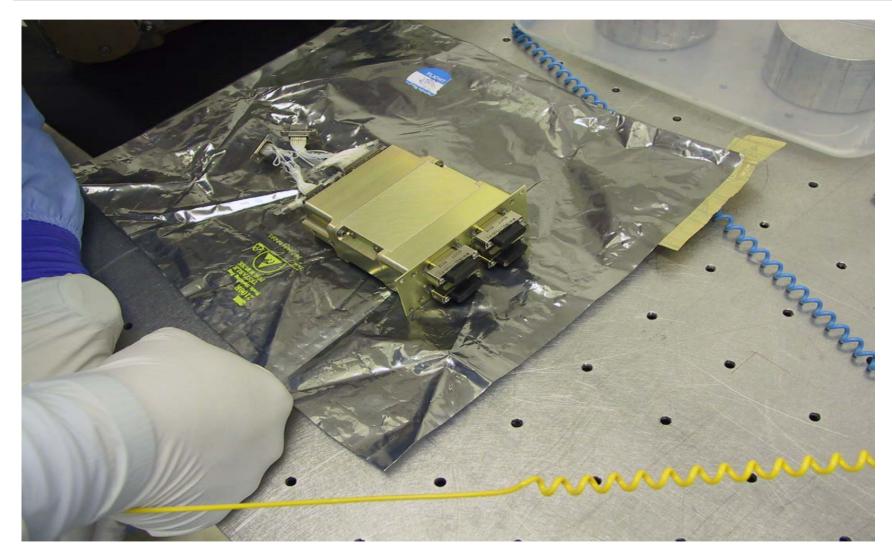




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