



Rutherford
Appleton
Laboratory

INCOMING / OUTGOING INSPECTION REPORT

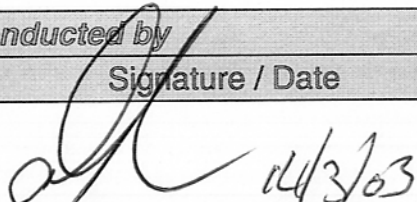
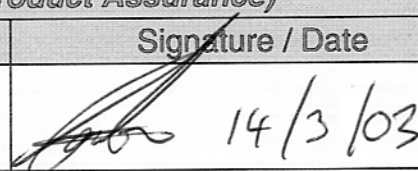
PRODUCT ASSURANCE
Space Science and Technology Department

Spacecraft/Project	HERSCHEL	Document No	SPIRE - RAL - REP - 001565		
Instrument/Model	SPIRE	Issue No	1	REV	0
Subsystem	JFET Boxes	Date	14 March 2003		

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

Inspection Report outgoing

FROM	TO
J Delderfield SPIRE Project SSTD, RAL, Chilton, Didcot, OXON, OX11 0QX	Gerald Lilienthal, JPL, 4800 Oak Grove Drive, Pasadena, California 91103 USA

Inspection conducted by		Witnessed by (Product Assurance)	
Name	Signature / Date	Name	Signature / Date
Alan Pearce	 14/3/03	Paul Smith	 14/3/03



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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 ADP. If there is no ADP 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 ADP.

No.	Procedure	Comments (Include NCR Number if applicable)	Check N/A or ✓
1.1	Is the documentation complete		✓
1.2	Is the accompanying documentation compliant with project requirements		n/a
1.3	Note DRB/MoM Document Number, minutes and note any discrepancies with respect to agreements recorded. OR attach copy of minutes.		n/a
1.4	Additional Remarks	No identification of Serial No Logbook previously shipped – also applies to this item!!	



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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	Stores to action	✓
2.3	Packing / unpacking instructions		n/a
2.4	Warning labels relating to handling, lifting, stacking limits		n/a
2.5	Additional Remarks Check security of container	Labels Only	✓
Transport Containers – Internal condition			
2.6	Check environmental monitors such as humidity indicators, shock recorders and record the location and readings on the inspection		n/a
2.7	Check mounting fixtures or brackets and screws, padding and packing.	Double bagged and sealed, FOAM insert	✓
2.8	Additional Remarks Check security of container	As above!!!	



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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.

CI NUMBER	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	4 Items	✓
3.2	Note external contamination	Cleaned and Bagged (Double)	✓
3.3	Inspect the outside for physical damage, cracks, dents, scratches		✓
3.4	Degradation of painting		n/a
3.5	Mounting provisions		n/a
3.6	Fasteners correctly locked		n/a
3.7	Check for protective covers on all electrical and fluid connectors and on optical and sensor apertures		n/a



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Check All Connectors

No.	Procedure	Remarks (Include NCR Number if applicable)	Check N/A or ✓
3.8.1	Bent pins		n/a
3.8.2.	Internal / external damage		n/a
3.8.3	Internal debris		n/a
3.8.4	Connector covers fitted		n/a
3.8.5	Connector savers in position		n/a
3.8.6	EMC Covers Fitted		n/a
3.8.7	RED tag items/covers fitted		n/a
3.8.8	Any other damage		n/a



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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		n/a
3.9.2	Internal / external damage		n/a
3.9.3	Internal debris		n/a
3.9.4	Protection caps fitted		n/a
3.9.5	Connector Savers fitted		n/a
3.9.6	EMC Covers Fitted		n/a
3.9.7	RED tag items/covers fitted		n/a
3.9.8	Any other damage		n/a



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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		✓
3.10.5	Check packaging is correct		✓
3.10.6	Shock recorders reset		n/a
3.9.7	Additional remarks	Note in Special Packing/Transit Requirements. Case may be Opened But Inner bags MUST remain sealed except in a Clean room	✓



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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		n/a
4.2	Electrical Interfaces Verification		n/a