

Spacecraft/Project	HERSCHEL	Document No	SPIRE-RAL REP-001858		
Instrument/Model	SPIRE / FM	Issue No	1	REV	0
Subsystem	Sub-system Flight Model & Flight Spare (CQM) Harnesses	Date	31 st October 2003		

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

Inspection Report	Incoming
--------------------------	-----------------

FROM	TO
<p>Roy Blake TEKDATA</p>	<p>Doug Griffin SPIRE RAL</p>

<i>Inspection conducted by</i>		<i>Witnessed by (Product Assurance)</i>	
Name	Signature / Date	Name	Signature / Date
Doug Griffin		Eric Clark	

Spacecraft/Project	HERSCHEL	Document No	SPIRE-RAL REP-001858		
Instrument/Model	SPIRE / FM	Issue No	1	REV	0
Subsystem	Sub-system Flight Model & Flight Spare (CQM) Harnesses	Date	31st October 2003		

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:

	SECTION	No
Documentation	Yes	1
Containers	Yes	2
Visual Inspection of Hardware	N/A	3
Connectors	N/A	4
Harnesses	Yes	5
Pre Closure Checks	N/A	6
Interface Verification	N/A	7

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.

Spacecraft/Project	HERSCHEL	Document No	SPIRE-RAL REP-001858		
Instrument/Model	SPIRE / FM	Issue No	1	REV	0
Subsystem	Sub-system Flight Model & Flight Spare (CQM) Harnesses	Date	31st October 2003		

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	No	
1.2	Is the accompanying documentation compliant with project requirements	Documentation to follow	
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		

Spacecraft/Project	HERSCHEL	Document No	SPIRE-RAL REP-001858		
Instrument/Model	SPIRE / FM	Issue No	1	REV	0
Subsystem	Sub-system Flight Model & Flight Spare (CQM) Harnesses	Date	31 st October 2003		

SECTION 2: INSPECTION OF CONTAINERS

(A Large cardboard box with smaller boxes inside containing individual Harness)

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		✓
2.3	Packing / unpacking instructions	None required	
2.4	Warning labels relating to handling, lifting, stacking limits	None visible	
2.5	Additional Remarks Check security of container		N/A
Transport Containers – Internal condition			
2.6	Check environmental monitors such as humidity indicators, shock recorders and record the location and readings on the inspection	None Fitted not a requirement for this type of delivery	
2.7	Check mounting fixtures or brackets and screws, padding and packing.		N/A
2.8	Additional Remarks Check security of container		✓

Spacecraft/Project	HERSCHEL	Document No	SPIRE-RAL REP-001858		
Instrument/Model	SPIRE / FM	Issue No	1	REV	0
Subsystem	Sub-system Flight Model & Flight Spare (CQM) Harnesses	Date	31st October 2003		

Sections Listed Below are Not Applicable

SECTION 3: VISUAL INSPECTION OF HARDWARE

SECTION 4 CHECK ALL CONNECTORS

Spacecraft/Project	HERSCHEL	Document No	SPIRE-RAL REP-001858		
Instrument/Model	SPIRE / FM	Issue No	1	REV	0
Subsystem	Sub-system Flight Model & Flight Spare (CQM) Harnesses	Date	31 st October 2003		

SECTION 4 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	See attached Table for Harness Details	✓
3.9.2	Internal / external damage		✓
3.9.3	Internal debris		✓
3.9.4	Protection caps fitted		✓
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		✓

Spacecraft/Project	HERSCHEL	Document No	SPIRE-RAL REP-001858		
Instrument/Model	SPIRE / FM	Issue No	1	REV	0
Subsystem	Sub-system Flight Model & Flight Spare (CQM) Harnesses	Date	31st October 2003		

LIST OF HARNESSSES SUPPLIED AND CONNECTOR IDENTIFICATION

Box Marking	Ser No	F M odel F Spare	Harness Connector detail		Mass gm's	Comments
F16	007	F Model	SCO P1	FPU P19A	141.6	Connector covers removed before weighing
F16	008	F Spare	SCO P1	FPU P19A	138.8	Connector covers removed before weighing
F17	009	F Model	SCO P2	FPU P20A	133.7	Connector covers removed before weighing
F17	010	F Spare	SCO P2	FPU P20A	138.0	Connector covers removed before weighing
F18	011	F Model	SCAL P1	FPU P21A	59.1	Connector covers removed before weighing
F18	012	F Spare	SCAL P1	FPU P21A	60.1	Connector covers removed before weighing
F19	013	F Model	SCAL P2	FPU P22A	53.6	Connector covers removed before weighing
F19	014	F Spare	SCAL P2	FPU P22A	54.0	Connector covers removed before weighing
F20/21	003	F Model	FPU P23A		210.1	Bags, Labels & Connector covers removed before weighing Ready for Bake-out
	005		FPU P24A			
F20/21	004	F Spare	FPU P23A		193.2	Bags, Labels & Connector covers removed before weighing Ready for Bake-out
	006		FPU P24A			
F22/23	015	F Model	PFU P25A	BSM P1	190.5	Connector covers removed before weighing
	017		FPU P26A	BSM P2		
F22/23	016	F Spare	PFU P25A	BSM P1	193.8	Connector covers removed before weighing
	018		FPU P26A	BSM P2		
MDM's	019	F Model			13.0	Connector covers removed before weighing
	020	F Spare			14.7	Connector covers removed before weighing

Spacecraft/Project	HERSCHEL	Document No	SPIRE-RAL REP-001858		
Instrument/Model	SPIRE / FM	Issue No	1	REV	0
Subsystem	Sub-system Flight Model & Flight Spare (CQM) Harnesses	Date	31st October 2003		

SECTIONS LISTED BELOW ARE NOT APPLICABLE

SECTION 5 PRE CLOSURE CHECKS

SECTION 6: VERIFICATION OF INTERFACES