

SPIRE

SUBJECT: Non-Conformance Report Status Reports

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List of RAL Non-Conformances

PRODUCT ASSURANCE
SPACE SCIENCE DEPARTMENT
Rutherford Appleton Laboratory

Spacecraft/Project: Herschel	Originator: RAL/SSTD/PA
Instrument: SPIRE	Document No SPIRE-RAL-PRJ-001079
Subsystems: Structure	Issue : 2.0
Model: SPIRE	Date: 19-May-03

NCR Serial No.	Level	Subsystem Assembly/Part	Model	NCR Title	Issue Date	Disposition/Corrective Actions	References	Close Out Date
HR-SP-MSSL-NCR-1	2	Structure	SPIRE		25-Mar-03			
HR-SP-RAL-NCR-9	2	6 JFET assy	SPIRE	Out of tolerance thermal straps (6 JFET assy)	30-Sep-02	Use as is (see NCR) IF extra such items are ordered for STM, consider swapping to keep best ones for flight.		
HR-SP-RAL-NCR-12	2	MGSE Trolley Bridge rails	SPIRE	Mismatch on Rail Cross Section	23-Sep-02	TBD		
HR-SP-RAL-NCR-13	1	HDPE Windo	SPIRE	Surface finish	30-Sep-02			
HR-SP-RAL-NCR-17.1	2	MGSE Hob Plate HOB-SIM_Ch	SPIRE	HOB Plate	18-Mar-03	MSSL to Advise		
HR-SP-RAL-NCR-19	2	JFET racks	SPIRE	Feet Don't seat down properly	10-Jan-03	see NCR		
HR-SP-RAL-NCR-21.1	2	GSE Cryostat Cold Harness	SPIRE	SPIRE TF Cryoharness Labelling	25-Feb-03	See NCR connector designator coloums corrected		

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Subsystems: MGSE	Issue : 2.0
Model: SPIRE	Date: 19-May-03

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HR-SP-RAL-NCR-22	2	MGSE Cryostat HOB_SIM HA	SPIRE	HOB Simulator-B Hole Dimensions	05-Mar-03	MSSL to Advize		
HR-SP-RAL-NCR-23	2	MGSE Cryostat Foot Rail	SPIRE	Cryostat Rail Dimension incorrect	18-Mar-03	See NCR Rail should have been 1,000mm long instead was 970mm datum hole therefore incorrectly positioned		
HR-SP-RAL-NCR-24	2	MGSE Test Cryostat Main burst dis	SPIRE	Leak in Cryostat Drop Plate	28-Mar-03	See NCR 1. <input type="checkbox"/> Inspect flange for flatness. If flange is not flat then plate cannot be used as it is. 2. <input type="checkbox"/> Remount plate and carefully tighten bolts ensuring that		
HR-SP-RAL-NCR-25	2	MGSE HOB Simulato	SPIRE	Surface Damage to HOB simulator	28-Mar-03	Assess level of damage when removed from bake-out. If possible make minor repairs and measure flatness of damaged/repared area If possible make minor repairs and measure flatness of		
HR-SP-RAL-NCR-26	2	J-FET Rack fe	SPIRE	Not Thermally Isolated enough.	11-Apr-03	See NCR		
HR-SP-RAL-NCR-27	2	FPU Spectrometer	SPIRE	SM11b interferes with the optics bench	30-Apr-03	See NCR On the STM the rib was modified by hand. The PFM rib to be modified. It is suggested that a 45degree chamfer the full width and length of the rib is machined into the PFM.		
HR-SP-RAL-NCR-28	2		STM	Mechanical interference of the FR filter box	30-Apr-03	See NCR		
HR-SP-RAL-NCR-29	2	alignment cub	STM	STM Alignment cube	30-Apr-03	The cubes fit the HOB simulator but not the SOB		
HR-SP-RAL-NCR-30	2	CM3	AVM	CM3 interferes with the sub optics bench at its lower edge.	30-Apr-03	Investigate cause. STM mirror may need to be removed and the mount modified accordingly		

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Subsystems:	Issue : 2.0
Model:	Date: 19-May-03

<i>NCR Serial No.</i>	<i>Level</i>	<i>Subsystem Assembly/ Part</i>	<i>Model</i>	<i>NCR Title</i>	<i>Issue Date</i>	<i>Disposition/Corrective Actions</i>	<i>References</i>	<i>Close Out Date</i>
HR-SP-RAL-NCR-31	0			Spare (Number allocated But not used)				
HR-SP-RAL-NCR-32	0			Spare (Number allocated But not used)				
HR-SP-RAL-NCR-33	2	DPU HSDPU	AVM	Not possible to load OBS via telecommands	29-Apr-03			
HR-SP-RAL-NCR-34	2	DPU HSDPU	AVM	DPU Power interface discrepancy	29-Apr-03	NRB MoM's No SPIRE-RAL-MoM-001616		
HR-SP-RAL-NCR-35	1	Structure & Alignment Cub		Non compliant interface (mounting holes pattern) between SOB and alignment cube	30-Apr-03	See NCR		
HR-SP-RAL-NCR-36	1	Structure		SPIRE Optical Bench BSM I/F Location	02-May-03	See NCR		
HR-SP-RAL-NCR-37	1	MGSE Flexible Pipe Co-Axial heater	Cryostat	Solder on co-axial heater melted	02-May-03	See NCR NCR copied to AS for comment		
HR-SP-RAL-NCR-38	2	Structure 300mK Strap Photometer S	SPIRE	300-mK Thermal Short during STM Programme	06-May-03	See NCR		
LAM.QUA.SPI.ANO. 20067	2	Mirrors	SPIRE		25-Nov-02	Use as is Width of the Mirrors too short by 1mm (160mm instead of 161mm). The mirror remains symmetrical with respect to the Mechanical interface.		

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Subsystems: SMEC	Issue : 2.0
Model: STM	Date: 19-May-03

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LAM.QUA.SPI.NC R 30038.1	1	SMEC	STM	Diameter of the SMEC attachment points	19-Mar-03			
LAM.QUA.SPI.NC R 30038.2	1	SMEC	STM	Diameter of the SMEC attachment points	19-Mar-03			
LAM.QUA.SPI.NC R 30045.1	1	CM3 mirror	STM STM STM	Discrepancy on CM3 optical surface orientation with respect to spigot axis	25-Apr-03	See NCR		

END OF LIST