



**MINUTES OF MEETING
(MoM)**

**PRODUCT ASSURANCE
Space Science and Technology Department**

Spacecraft/Project	Herschel / SPIRE	Document No	SPIRE-RAL-MoM-001863	
Instrument/Model	NCR MRB	Issue No / Rev	1	Page
Subsystem		Date	14th November 2003	

Title / Subject	SPIRE NCR MRB ref SPIRE-RAL-PRJ-001079 V3	Chairman	
Meeting Place	Dave Kelsh Office	Secretary	

Participants		Agenda
(Print Name)	(Signature Required)	
Eric Sawyer		Review each of the Open NCR's in turn.
Ken King		LAM NCR's: LAM have been contacted E mail & telecon, requesting update on these, are believed to be resolved.
Bruce Swinyard		JPL NCR's: JPL have been contacted E mail & telecon, requesting update.
John Delderfield		
Doug Griffin		
Dave Smith		
Eric Clark		
Additional Distribution		Attachments
Judy Long for Project office		Spire open NCR Report SPIRE-RAL-PRJ-001079 v 3



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Action No	Title and Description	Action Responsibility	Action Deadline
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A1	RAL NCR9 closed	KK or ECS to sign	
	RALNCR 12; disposition RAL pieces have been modified to fit NCR can be closed	DS to sign	
	RAL NCR 13 Still open use as is for CQM test review for CQM test results flight.		
A2	RAL NCR 19 disposition has been corrected PA to inform purchasing of Senar none cooperation. EC to Contact Senar again Give two weeks to reply, then notify purchasing if still no response	Eric C Contact Senar contact purchasing	17th November 03 2en December 03
	RAL NCR 21.2 Has been corrected can be closed	KK or ECS to sign	
A3	RAL NCR 23 can be closed when Dave signs it	Dave Smith	17th November 03
A4	RAL NCR 26 concluded that the requirement was needed attempted measurement of isolation before modification this inconclusive no time to retest so implemented the improvements retest of isolation attempted again results ambiguous NCR actions complete accept for writing up[this test can be closed with test report.	John Delderfield	24th November 03
A4	RAL NCR 28.2 can close with up issue of MSSL Dwg A1 5264917	EC to contact CBB	17th November 03

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Action No	Title and Description	Action Responsibility	Action Deadline
A5	<p>RAL NCR 30 Mirror was removed and the sub bench modified check drawing of sub bench has been updated to show the mod for FM EC to chase CBB on Monday 17th</p> <p>RAL NCR 31 can be closed</p> <p>RAL NCR 32 Parts corrected dwg up issued can be closed</p> <p>RAL NCR 33 work around proposed for current model will be corrected for next models Can be closed</p>	<p>Eric C</p> <p>KK or ECS to sign</p> <p>KK or ECS to sign</p>	<p>17th November 03</p>
A6	RAL NCR 34 JD to send Emails to PA the Test harness to be changed to suit Dave to get harness corrected	John Delderfield	17 th November 03
A7	Doug to advise Renato when HDD is at 1.2	Dave Smith	When available
A8	RAL NCR 35 Can be Closed	Doug Griffin	When HDD at Iss 1.2
A9	<p>RAL NCR 36 Action 3 remade for flight</p> <p>Action 5 NCR to be closed when ATC ICD is reissued and signed off</p> <p>RAL NCR 37 can be closed heater has been fixed</p>	<p>KK or ECS to sign</p> <p>DS to Sign</p>	<p>ASAP</p>



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Subsystem		Date	14 th November 2003		

Action No	Title and Description	Action Responsibility	Action Deadline
A10	RAL NCR 38.2 Bruce to locate mom in order to find out if all outstanding action are closed.	Bruce Swinyard	28 th November 03
A11	RAL NCR 41.1 still open Dave to update NCR with recommendations	Dave Smith	28 th November 03
	RAL NCR 43 still open		
	RAL NCR 45 reason now understood modified to fit closed	KK or ECS to sign	
	RAL NCR 46 Use as is not relevant to future models Closed	KK or ECS to sign	
	RAL NCR 47 closed RAL corrected.	DS to Sign	
	RAL NC 48 next number		
A12	UWC 001 closed: bar modified. EC to correct wording on NCR Use modified bar on CQM remake for FM	Eric C	17 th November 03
A13	EC to add MRB No's to NCR to be closed and place on T drive Product Assurance\ Spire Docs to Sign and notify KK, ECS, and DS when ready.	Eric C	18 th November 03



List of RAL Non-Conformances

PRODUCT ASSURANCE
SPACE SCIENCE DEPARTMENT
Rutherford Appleton Laboratory

Spacecraft/Project: Herschel	Originator: RAL/SSTD/PA
Instrument: SPIRE	Model: SM
Subsystems: JRef SPIRE-RAL-MoM-001863 NCR MRB	Document No: PIRE-RAL-PRJ-0001079
	Issue: v3
	Date: 11-Nov-03

NCR Serial No.	Level	Subsystem Assembly/ Part	Model	NCR Title	Issue Date	Disposition/Corrective Actions	References	Close Out Date
HR-SP-RAL-NCR-9	Minor	JFET 6 JFET assy	SM	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.	M Whalley	
HR-SP-RAL-NCR-12	Minor	MGSE Trolley Bridge rails	GSE	Mismatch on Rail Cross Section	23-Sep-02	TBD	DS	
HR-SP-RAL-NCR-13	Minor	HDPE Windo	GSE	Surface finish	30-Sep-02		DS	
HR-SP-RAL-NCR-19	Minor	JFET racks	SM	Feet Don't seat down properly	10-Jan-03	see NCR Manufacturer (SENAR) contacted NO REPLY	JD	
HR-SP-RAL-NCR-21.1	Minor	GSE Cryostat Cold Harness	GSE	SPIRE TF Cryoharness Labelling	25-Feb-03	See NCR c onnector designator coloums corrected	DG	
HR-SP-RAL-NCR-23	Minor	MGSE Cryostat Foot Rail	GSE	Cryostat Rail Dimension incorrect	18-Mar-03	See NCR Rail should have been 1,000mm long instead was 970mm datum hole therefore incorrectly positioned	DS	
HR-SP-RAL-NCR-26	Minor	J-FET Rack fe	All	Not Thermally Isolated enough.	11-Apr-03	See NCR	JD	

Spacecraft/Project: Herschel	Originator: RAL/SSTD/PA
Instrument: SPIRE	Document No: PIRE-RAL-PRJ-0001079
Subsystems: Structure	Issue: v3
Model: SM	Date: 11-Nov-03

NCR Serial No.	Level	Subsystem Assembly/ Part	Model	NCR Title	Issue Date	Disposition/Corrective Actions	References	Close Out Date
HR-SP-RAL-NCR-28.2	Minor	Structure RF Filter box	SM	Mechanical interference of the FR filter box	30-Apr-03	See NCR	ES / JD	
HR-SP-RAL-NCR-30	Minor	CM3	AM	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	ES	
HR-SP-RAL-NCR-31	Minor	Detector FPU	SM	Screw Sheared off in Detector Housing	05-Jun-03	See NCR MSSL to investigate and report back	JD	
HR-SP-RAL-NCR-32	Minor	JFET racks	SM	Backharness 37way backshells do not fit 6 module rack metalwork	06-Jun-03	See NCR	JD	
HR-SP-RAL-NCR-33	Minor	DPU HSDPU	AM	Not possible to load OBS via telecommands	29-Apr-03	See NCR Reset CPU Before booting with new Image. IFSI To implement Firmware Change on future models to allow software to reset CPU, thus allowing it to operate	Sunil	
HR-SP-RAL-NCR-34	Minor	DPU HSDPU	AM	DPU Power interface discrepancy	29-Apr-03	NRB MoM's No SPIRE-RAL-MoM-001616	Sunil	
HR-SP-RAL-NCR-35	Major	Structure & Alignment Cub	SM	Non compliant interface (mounting holes pattern) between SOB and alignment cube	30-Apr-03	See NCR NCR 029 closed ref this NCR	Mark F	
HR-SP-RAL-NCR-36	Major	Structure	SM	SPIRE Optical Bench BSM I/F Location	02-May-03	See NCR	DG	
HR-SP-RAL-NCR-37	Major	MGSE Flexible Pipe Co-Axial heater	Cryostat	Solder on co-axial heater melted	02-May-03	See NCR NCR copied to AS for comment	DS	

Spacecraft/Project: Herschel	Originator: RAL/SSTD/PA
Instrument: SPIRE	Document No: PIRE-RAL-PRJ-0001079
Subsystems: Structure	Issue: v3
Model: SM	Date: 11-Nov-03

NCR Serial No.	Level	Subsystem Assembly/ Part	Model	NCR Title	Issue Date	Disposition/Corrective Actions	References	Close Out Date
HR-SP-RAL-NCR-38.2	Minor	Structure 300mK Strap Photometer S	SM	300-mK Thermal Short during STM Programme	21-May-03	See NCR See note in blue on NCR	DG	
HR-SP-RAL-NCR-41.1	Minor	MGSE Pumping Syst	Cryostat	Cryostat Pumping system shutdown	30-Sep-03	Under investigation	DS	
HR-SP-RAL-NCR-43	Minor	MGSE Cold Blackbod	Cryostat	Cold-BlackBody Dimensions	02-Sep-03	See NCR Design of Cold Black Body does not match the cryostat ICD	DS	
HR-SP-RAL-NCR-45	Minor	Spectrometer SMEC Harness Clam	CQM	SMEC harness clamp interference with Structure webbing	28-Oct-03	Remove Lower Harness clamp back webbing	DS	
HR-SP-RAL-NCR-46	0					Number issued but possible duplication use this number next.		
HR-SP-RAL-NCR-47	Minor	2K Photomete PFIL 3 & cold	CQM	2K Photometer box filter dowel pin fouling	04-Nov-03	Sort term remove dowel pin. Long term replace with	DS	
HR-SP-RAL-NCR-48	0					Number issued Awaiting completed form		
LAM.QUA.SPI.NCR 30038.1	Major	SMEC	STM	Diameter of the SMEC attachment points	19-Mar-03	See NCR	LAM	
LAM.QUA.SPI.NCR 30038.2	Major	SMEC	STM	Diameter of the SMEC attachment points	19-Mar-03	See NCR	LAM	

Spacecraft/Project: Herschel	Originator: RAL/SSTD/PA
Instrument: SPIRE	Document No: PIRE-RAL-PRJ-0001079
Model: STM	Issue: v3
Subsystems:	Date: 11-Nov-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>
LAM.QUA.SPI.NC R 30045.1	Major	CM3 mirror	STM STM STM	iscrepancy on CM3 optical surface orientation with respect to spigot axis	25-Apr-03	See NCR	LAM	

END OF LIST