

Subject / Title:	SPIRE NCR NRB	Document No:	SPIRE-RAL-MoM-002818	Date	31-Jan-07	Page 1 of 2
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Spacecraft / Project	Herschel / SPIRE	Meeting Place	CDF
Instrument / Model	SPIRE ALL	Subsystem	N/A

Participants		Agenda
<i>Print Name & Company</i>	<i>Signature Required</i>	
RAL Eric Clark		<ul style="list-style-type: none"> • Review NCR's • Review RFW
RAL Eric Sawyer		
RAL Ken King		
RAL Doug Griffin		
RAL Anneso Goizel	Attended Part Time as required.	
RAL Dave Smith	Invited but did not Attend	
RAL Bruce Swinyard	Invited but did not Attend	
RAL Tanya Lim/Steve Guest	Invited but did not Attend	
RAL Sunil/Asier	Invited but did not Attend	
RAL		

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OPEN NCR'S

Were reviewed starting with those raised by Thermal section (Anneso) followed by RAL NCR's, CEA, ASED etc

See Comments in

“OPEN NCR Report” Disposition/Corrective Action section Attached

OPEN RFW'S

Were reviewed next all currently open RFW's are awaiting ESA Response.

See Attached “OPEN RFW Report”.



List of RAL Non-Conformances

PRODUCT ASSURANCE
SPACE SCIENCE DEPARTMENT
Rutherford Appleton Laboratory

Spacecraft/Project: SPIRE NRB	Originator: RAL/SSTD/PA
Instrument: SPIRE Model: All	Document No :-RAL-MoM-002818 NRB Issue : 1.0
Subsystems:	Date: 01-Feb-07

NCR Serial No.	Level	Subsystem Assembly/ Part	Model	NCR Title	Issue Date	Disposition/Corrective Actions	References	Close Out Date
(CEA) NCR_DCU_396	Major	Warm DCU/FCU	QM2	At cold start (-30°C), anomaly on the the high speed "data interface" to DPU	04-Nov-05	See NCR Update requested 20-Nov-06 as we only have a draft copy.ref SPIRE-RAL-MoM-002818 NRB: EC to Check EIDP		
(CEA) NCR-DCU 456	Major	Warm DCU	QM2	HS_DCU, Susceptability to E Field at 215MHz and 185MHz (Horizontal polarization)	07-Jul-06	See NCR Uploaded from EIDP 18/01/07. ref SPIRE-RAL-MoM-002818 NRB: EC to Check EIDP		
(CEA) NCR-FCU 439	Major	Warm FCU	QM2	Short circuit on Redundant side of MCU, between +15V secondary line and Chassis	12-May-06	See NCR Uploaded from EIDP 18/01/07. ref SPIRE-RAL-MoM-002818 NRB: can be closed ECS & EAC to Sign		
(CEA) NCR-FCU 445	Major	Warm FCU	QM2	Temp Board s/n 4003 have shown excessive power-drain during test at board level	12-May-06	See NCR Uploaded from EIDP 18/01/07. ref SPIRE-RAL-MoM-002818 NRB: can be closed ECS & EAC to Sign		
(CEA) NCR-FCU 446	Major	Warm FCU	QM2	CCHK board s/n 4002 have shown excessive power-drain during test at board level	12-May-06	See NCR Uploaded from EIDP 18/01/07. ref SPIRE-RAL-MoM-002818 NRB: can be closed ECS & EAC to Sign		
HP-112000-ASED-NC-1248	Major		EQM	SPIRE SIH PSW_JFETV Gnd open line	11-Jul-05	See NCR External to SPIRE: ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-112000-ASED-NC-1340	Minor	FPU SIH connector	EQM	SPIRE: FPU SIH connectors not fully fixed after fastening of fix. Screws	08-Aug-05	See NCR On Going. ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		

Spacecraft/Project: SPIRE NRB	Originator: RAL/SSTD/PA
Instrument: SPIRE Model: All	Document No :-RAL-MoM-002818 NRB Issue : 1.0
Subsystems:	Date: 01-Feb-07

NCR Serial No.	Level	Subsystem Assembly/ Part	Model	NCR Title	Issue Date	Disposition/Corrective Actions	References	Close Out Date
HP-112000-ASED-NC-1375	Major		EQM	Source Sequence Counter Errors on CCS	22-Aug-05	See NCR Ken to Reply. ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-112000-ASED-NC-1662	not listed		EQM	High correlation between cryo cover temp and SPIRE L1 temp	25-Oct-05	See NCR ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-112000-ASED-NC-1688	not listed		EQM	Evaporator temperature not correct wrt L0 temperature	07-Nov-05	See NCR Bruce to check on Temp Status: ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-112000-ASED-NC-1800	Major	EMC Test	EQM	SPIRE EMC H-Field RS Test Results non conformances	29-Nov-05	See NCR ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-112000-ASED-NC-1804	Major		EQM	SPIRE EMC E-Field RS test results non conformances	30-Nov-05	See NCR ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-112000-ASED-NC-1812	not list		EQM	SPIRE detector chain partial failure	02-Dec-05	See NCR EAC to Ash Dave Hendry current status, No Reply: ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-112200-ASED-NC-1083	Major	SPIRE warm	EQM	SPIRE: MIL bus functional behaviour out of requirement detect. w. IDAS	15-May-05	See NCR Information only NCR from ESTEC: ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-121432-ASED-NC-895	not list	SIH CVV Inter	Information only	Error in Spire CVV Internal Harness Definition	06-Apr-05	See NCR ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		

Spacecraft/Project: SPIRE NRB	Originator: RAL/SSTD/PA
Instrument: SPIRE Model: All	Document No :-RAL-MoM-002818 NRB Issue : 1.0
Subsystems:	Date: 01-Feb-07

NCR Serial No.	Level	Subsystem Assembly/ Part	Model	NCR Title	Issue Date	Disposition/Corrective Actions	References	Close Out Date
HP-121432-ASED-NC-896	not list	SIH CVV Exte	Information only	Spire SIH CVV External Harness C4 to C9 Pin 47 connection	06-Apr-05	See NCR ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-121432-ASED-NC-912	Major	Scientific instr	Information only	Discrepancy in SPIRE Harness Definition shielding of Gnd wire	05-Apr-05	See NCR ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-121432-ASED-NC-941	Major	SIH SVM Inter	Information only	SPIRE SIH Double Pin allocation Pin 7 bundle C3	11-Apr-05	See NCR ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-153300-ASED-NC-210	Major	DPU SN 153300	PACS	PACS DPU anomalous behaviour during first test at ASED	06-Apr-04	See NCR EC to Ask ESA Status no reply so ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-461100-ASP-NC-2566	Major	NA(GSE)	AVM	Heschel - SPIRE AVM 16082006 - Wrong OCP_RLCHK references	07-Aug-06	ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-461100-ASP-NC-2567	Major	NA(GSE)	AVM	Heschel - SPIRE AVM 16082006 - CDF_VALUE not correct for Fixed Area	07-Aug-06	ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-461100-ASP-NC-2568	Major	NA(GSE)	AVM	Heschel - SPIRE AVM 16082006 - Missing OL Expressions	07-Aug-06	ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		
HP-461100-ASP-NC-2569	Major	NA(GSE)	AVM	Heschel - SPIRE AVM 16082006 - Missing S2K files	07-Aug-06	ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA		

Spacecraft/Project: SPIRE NRB	Originator: RAL/SSTD/PA
Instrument: SPIRE Model: All	Document No :-RAL-MoM-002818 NRB Issue : 1.0
Subsystems:	Date: 01-Feb-07

NCR Serial No.	Level	Subsystem Assembly/ Part	Model	NCR Title	Issue Date	Disposition/Corrective Actions	References	Close Out Date
HP-461100-ASP-NC-2669	Major	NA(GSE)	AVM	Herschel - HIFI / PACS / SPIRE - Consistency check on AVM data	09-Oct-06	ref SPIRE-RAL-MoM-002818 NRB: EAC to Check Status on PRISMA (not a SPIRE NCR)		
HR-MSSL-SPIRE-NC 5.1	Major	Level 0 Evapo	FM	Degradation of evaporator strap after Vibration	20-Nov-06	Update sent 21-Nov-06: ref SPIRE-RAL-MoM-002818 NRB: confirmed this is closed		21-Nov-06
HR-SP-RAL-NCR-105	Major	MCU CQM1	QM1 CQM	Simultaneous generation of BSM and SMEC frames leads to Frame ID error reports	03-Feb-05	See NCR Closed awaiting Ken to Sign We have QM2 MCU now. The NCR was raised on QM1 MCU. Ken reminded to sign it 21-11-06		
HR-SP-RAL-NCR-127	Minor	BDA PSW Pixel E5	PFM	BDA Open circuit	18-Aug-05	Leave NCR open as the fault may be an intermittent wirin ref SPIRE-RAL-MoM-002818 NRB: To Be discussed at JPL Visit Feb 07		
HR-SP-RAL-NCR-142.2	Major	Software OBS	PFM	FDIR recovery action protocol in OBS 2.1.E causes the instrument to be put into SAFE mode when it shouldn't.		See NCR NCR CLOSED Problem no longer present confirmed in PFM4 TEST (ref SPIRE-RAL-MoM-002818 NRB)		
HR-SP-RAL-NCR-146	Minor	DPU	PFM	Incorrect type of error reported from the CFM DPU when a DRCU NO Response Error occurred	26-Apr-06	TBD ref SPIRE-RAL-MoM-002818 NRB: Ken to Check		
HR-SP-RAL-NCR-148.1	Minor		PFM	Loss of signal from ½ of the PFM SSW array	20-Nov-06	Initial tests reported in Appendix 1. Changed JFET unit be ref SPIRE-RAL-MoM-002818 NRB: To Be discussed at JPL Visit Feb 07		
HR-SP-RAL-NCR-150.3	Minor	Cooler	PFM3	Change in Cooler Recycling Temperature Profiles during PFM3 Test Campaign	01-Dec-06	See NCR ref SPIRE-RAL-MoM-002818 NRB: confirmed closed to be pdf'd and signed		

Spacecraft/Project: SPIRE NRB	Originator: RAL/SSTD/PA
Instrument: SPIRE Model: All	Document No :-RAL-MoM-002818 NRB Issue : 1.0
Subsystems:	Date: 01-Feb-07

NCR Serial No.	Level	Subsystem Assembly/ Part	Model	NCR Title	Issue Date	Disposition/Corrective Actions	References	Close Out Date
HR-SP-RAL-NCR-151	Minor	DPU/DRCU CFM DPU/QM	PFM3	The DPU reports DRCU science frame errors	30-May-06	TBD ref SPIRE-RAL-MoM-002818 NRB: Sunil/Asier to complete Cause and Disposition sections		
HR-SP-RAL-NCR-152.2	Minor	DPU/DRCU QM2 DRCU	PFM3	The DPU reports wrong response for the Photometer and Spectrometer LIA offsets	02-Oct-06	See NCR ref SPIRE-RAL-MoM-002818 NRB: Noted that the Conclusions from NRB SPIRE-RAL-MoM-002727- 02-Oct-2006 Confirmed can be closed - PA to update & Ken to		
HR-SP-RAL-NCR-155	Minor		PFM3	Non-Compliance of Flight Thermometry Accuracy	13-Jul-06	See NCR ref SPIRE-RAL-MoM-002818 NRB: Annsoe to Update		
HR-SP-RAL-NCR-156	Minor	MCU	PFM3	FM MCU Does not produce the requested number of frames	10-Aug-06	TBD ref SPIRE-RAL-MoM-002818 NRB: KEN to Update		
HR-SP-RAL-NCR-157.3	Major	DPU	PFM3	FM DPU primary partition not booting	09-Oct-06	See NCR ref SPIRE-RAL-MoM-002818 NRB: Will be done during PFM 5 Test		
HR-SP-RAL-NCR-158	Minor	PJFET	PFM3	Temperature of PJFET during Operation	24-Aug-06	ref SPIRE-RAL-MoM-002818 NRB: Annsoe to Update		
HR-SP-RAL-NCR-159.6	Major	FPUC SMEC	PFM3	SMEC unlatched during cryo-vibration test.	11-Dec-06	See NCR ref SPIRE-RAL-MoM-002818 NRB: Still Open		
HR-SP-RAL-NCR-161	Minor	JFET Sno 13	PFM	Open Circuit on JFET Ground	03-Oct-06	TBD ref SPIRE-RAL-MoM-002818 NRB: To Be discussed at JPL Visit Feb 07		

Spacecraft/Project: SPIRE NRB	Originator: RAL/SSTD/PA
Instrument: SPIRE Model: All	Document No :-RAL-MoM-002818 NRB Issue : 1.0
Subsystems:	Date: 01-Feb-07

<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-163.3	Minor		CQM	Shorted contacts measured on SVM-CB (312100 J04)	30-Jan-07		ref SPIRE-RAL-MoM-002818 NRB:Still Open	
HR-SP-RAL-NCR-164	Major	OBS	PFM	The DPU crashes when the SCAL VM is running	23-Nov-06	To Be Established	ref SPIRE-RAL-MoM-002818 NRB:Still Open	
HR-SP-RAL-NCR-165.2	Major	SMEC SMEC/MCU	PFM	Incorrect operation of SMEC on Redundant Side	11-Dec-06	See NCR	V2 includes minutes from telecon on 7/12/06: ref SPIRE-RAL-MoM-002818 NRB:Still Open	
HR-SP-RAL-NCR-167			PFM		13-Dec-06		ref SPIRE-RAL-MoM-002818 NRB: Annsoe to forward to PA completed NCR	
HR-SP-RAL-NCR-168	Minor	SCAL Thermometry	PFM	Erroneous data from REDUNDANT SCALTEMP flight temperature sensor	13-Dec-06	The following actions should be taken (as far as possible/	ref SPIRE-RAL-MoM-002818 NRB:Still Open until PFM 5 Tests completed.	

END OF LIST



List of Requests for Waivers/Deviations

PRODUCT ASSURANCE
SPACE SCIENCE DEPARTMENT
Rutherford Appleton Laboratory

Spacecraft/Project: HERSCHEL/SPIRE	Originator: RAL/SSTD/PA
Instrument: SPIRE Model: PFM	Document No.-MoM-002818 NCR NRB Issue: 1.0
Subsystems: DRCU	Date: 01-Feb-07

<i>RFW Serial No.</i>	<i>Waiver (1) or Deviation (2)</i>	<i>Subsystem</i>	<i>Model</i>	<i>RFW Title</i>	<i>Issue Date</i>	<i>Status / Remarks</i> : 1=Pending, 2=Rejected, 3=Approved, 4=Internal Only.	<i>Approval Reference</i>	<i>Approval Date</i>
HR-SP-CEA-RFW-4	1	DRCU	PFM	HSFCU : conducted emissions on primary powerlines exceeds IIDA limits	17-Aug-04	Prime Contractor Status 3 ESA Status 1 Circulated 08/02/05: REF: RFD_CEA_SPIRE_FCU-n13		
HR-SP-RAL-RFW-7.1	1	FPU cryo-vibration test	PFM	Cryo-vibration test, to increase the high frequency roll off slope during random test	23-Nov-05	Prime Contractor Status 3 ESA Status 1 Corrected, upissued and circulated 24/01/06		
8.1	1	DPU FCU	PFM	Mass of DPU and FCU	25-Jan-06	Prime Contractor Status 1 ESA Status 1 Corrected, upissued and circulated 25/01/06		
10	1	DPU FCU	PFM	Insufficient margins on non operating temperatures during TV tests	18-Sep-06	Prime Contractor Status 1 ESA Status 1 Awaiting sign off by ESA		
11.1	1	DPU FCU &DCU	PFM	Power consumption of warm units less than IID-B	30-Jan-07	Prime Contractor Status 1 ESA Status 1 Awaiting sign off by ESA		

END OF LIST