

MINUTES OF MEETINGS (MoM)

PRODUCT ASSURANCE
Space Science and Technology
Department

Subject / Title: NRB L0 strap MSSL NCR-003 Document No: SPIRE-RAL-MoM-002323 Date 1 Feb 2005 Page 1 of 3

Spacecraft / Project	Herschel / SPIRE	Meeting Place	Telecon ECS Office
Instrument / Model	SPIRE / CQM	Subsystem	Level 0 strap

Partic	cipants	Agenda			
Print Name & Company RAL Eric Sawyer	Signature Required	Review			
RAL Eric Clark ESTEC Carsten Scharmberg ESTEC		MSSL-SPIRE-NCR-003 Electrical Short Level 0 Strap Actions Proposed agenda. Discussion of problem			
Jan Rautakoski MSSL John Coker MSSL		Details of proposed solution Impacts on spacecraft interface Impacts on schedule. AOB			
Chris Brockley-Blatt Cardiff Peter Hargrave Company					
Guy Doubrovik Company		Additional Distribution Siegmund Idler.			
Company		Doug Griffin			



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Action			Title 9 December 1 and			
No	Responsibility	Due Date	Title & Description			
			During the bonding of the electrical isolation on the detector box L0 strap an electrical short occurred. The process was changed. The cooler pump strap and evaporator strap have been bonded successfully. Two options for the detector strap: 1. Use as, this violates the grounding scheme and may give unreliable EMC test data. 2. Incorporate an extra electrical isolation joint at the base of the strap, this has thermal and interface consequences.			
			Option 2 is the preferred option. The pressure plate on top of the L0 strap needs to be isolated as well. The Plate and temperature sensor need isolating, bushes would be required. Plate has milled slots in the edges, which would make the incorporation of bushes difficult. SPIRE could make new clamp plate for CQM only.			
AI#1 AI#2	MSSL Astrium		MSSL to send sketch to all parties. Astrium to check if there is sufficient clearance This will be for CQM only An alternative solution could be to Isolate pressure plate with an isolating kapton or thin GFRP gasket; this would lead to inaccuracies in the temperature sensor reading. RAL to investigate. Could exchange last week of Feb. Possible Schedule is: • 1/2/05 start thermal test of pump strap			



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		No	 4/2/05, bond copp 7/2/05 Bake out de 9/2/05 Complete 9/2/05 start therm 9/2/05 Bake out p 16/2/05 complete 17/2/05 Ship units 21/2/05 Fit L0 strain 	thermal test on pump strap. Ital test on Detector box strap. Ital test on Detector box straps. Ital test on detector box straps. Ital test on detector box straps to Astrium. Ital test on detector box straps to CQM at Astrium. Ital test on detector box straps to CQM at Astrium. Ital test on pump strap.		lating.	

Ref ISO FORM PA 033 Issue 01 16th April 2004