



## MINUTES OF MEETING

**SPIRE-RAL-MOM-001451**

**Date: 12-November-2002**

**No. of Sheets: 5**

**Subject: RAL Visit to Tekdata – 12<sup>th</sup> November 2002**

Meeting Place: TekData

Date/Time: 12-November 2002 – 11:30-15:30

Agenda Dated:

Chairman: Doug Griffin

Secretary: D.L.Smith

Close of Meeting: 15:30

### PARTICIPANTS

### ADDITIONAL DISTRIBUTION

Dave Smith (RAL)  
Doug Griffin (RAL)  
Roy Blake (Tekdata)  
Terry McManus (from 11:50)

John Delderfield



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Action / Comment Number	Short Title	Action (A), Recommendation (R), Decision (D), Observation (O)	Action / Ref. with:	Action Deadline
	<b>Agenda</b>	Negotiation of payment of invoice Cryogenic Testing Review of Changes Review of Documentation Review of test results Rework of C2 JPL Harnesses Subsystem Harnesses Schedule Tour of Facility		
	<b>Payment of Invoice</b>	<p>Cold Harnesses are complete and ready for cold testing. Acceptance subject to inspection and review of test results to be done at this visit.</p> <p>Cold testing is to be treated as a separate contract. Failure of any harness as a result of the cold tests will be covered under the terms of the warranty.</p> <p>Warm Harnesses have been completed up to potting pending rework following change to grounding scheme.</p>		
	<b>Review of Changes</b>	<p>Grounding modifications subject to ESA approval. Decision required ASAP to avoid impact on SPIRE test schedule (see schedule below).</p> <p>Roy presented a prototype of the wrapped bundle showing that flexibility was acceptable and the addition to the weight was not affected. Would need to pre-form if bend radius tighter than 75mm.</p>		



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<b>A-01</b>	<b>Change to C2</b>	Connector P1 on C2 is to be replaced to match JPL specification. Need to raise a new purchase order to make change  Doug to make ECR for change to connections.  Mods to C2 will be on same requisition as cryotesting.		
	<b>Schedule</b>	Cold harness needed by beginning of January at the latest. Warm Harness required February 3-4 weeks between instruction on warm harness and delivery. Dates depend on delivery of mesh braid (could be 6 weeks).		
	<b>JPL Harnesses</b>	JPL would like to have a measurement in Ohms of the harness resistance. Tekdata are not currently set-up for this. Could be done if thresholds on test equipment were set low and output would show resistance in excess of threshold.		



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	<b>Subsystem Harnesses</b>	<p>Quotes made for free cable for BSM internal harness.</p> <p>Wiring Detail: Doug will be responsible for providing information of final interfaces.</p> <p>Horse Options:</p> <ol style="list-style-type: none"> <li>1) FPU plate on offer from Thrust engineering for cash – but could have legal consequences if company not trading.</li> <li>2) Approach receivers (if appointed) after 22<sup>nd</sup> November. Will be a lengthy process.</li> </ol> <p>Sheets of Al could be laser cut to same profile as FPU baseplate and stacked up to match thickness FPU plate including ribs etc.</p>		
	<b>Review of Test Results</b>	<p>Roy did not have issue 1.0 of the SPIRE test harness specification – this was handed over at the meeting. Quote was given against issue 0.1 of specification. Roy to investigate implications of updates on test specifications.</p> <p>Roy stated that they were not able to perform inductance measurements.</p>		
	<b>Visit to Facility</b>	<p>Tests show pass/fail criteria</p> <p>Tekdata to provide standard test specification and brief explanation of results with delivered items.</p>		



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	<b>Conclusion</b>	RAL are satisfied that: <ul style="list-style-type: none"><li>• The cryogenic sections of the harnesses are complete and ready for delivery pending cold tests</li><li>• The warm sections have been completed except final potting.</li></ul> Authorisation for payment of the invoices can now be given.		