

<b>TRR MoM</b>	<b>Date:</b> 14 <sup>th</sup> Jan 2004	<b>NUMBER</b>	<b>SPIRE-RAL-MOM-001902 rev 1</b>
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<b>Spacecraft / Project</b>	HERSCHEL
<b>Instrument / Model</b>	<i>SPIRE / CQM</i>
<b>Sub System / Serial No.</b>	

<b>Type of Test</b>	<i>FPU Cold Verification <b>Delta TRR</b></i>
<b>AIV Facility Test No.</b>	<i>TBD</i>
<b>Date(s) of Testing</b>	<i>Warm test 2 Jan 2004. Cold Verification planned 17<sup>th</sup> Jan</i>
<b>Applicable Test Specification (Document No. &amp; Issue)</b>	<i>SPIRE RAL DOC 1888 cold thermal verification master test procedure</i>
<b>Applicable Test Procedure (Document No. &amp; Issue)</b>	<i>AS ABOVE BEFORE TEST 0.1 TO BE UP ISSUED</i>

<b>Assignment of Personnel</b>		
<b>Function</b>	<b>Name</b>	<b>Contact number</b>
Test Director	DAVE SMITH	LIST IN AIV LAB
Project Manager	ERIC SAWYER	LIST IN AIV LAB
AIV Facility Manager	DAVE SMITH	LIST IN AIV LAB
Safety Officer	DAVE SMITH	LIST IN AIV LAB
Product Assurance	Dave Kelsh Eric Clark	LIST IN AIV LAB

<b>Documentation / Inspection Status</b>	
<u>Test Documentation available:</u> <ul style="list-style-type: none"> <li>AIV Facility Test Plan (if applicable?)</li> <li>Verification Procedures</li> </ul>	CRYO TEST PROCEDURE DAVE SMITH TO SUPPLY OFF LINE Harness x talk check to be updated harness integration to be marked up  Bruce ran through the verification to be completed Verification matrix <b>to be done (Bruce)</b>
<u>Inspection Status and Records:</u> <ul style="list-style-type: none"> <li>Cleanliness</li> <li>Unit/Item Bagged</li> <li>Screws Locked</li> <li>Connector Savers</li> <li>Hazards Identified</li> <li>Other</li> </ul>	FPU bagged <b>covers still on Particle counts tests performed witness mirrors assed particle count to be carried out before aperture covers removed and doors close</b> FET BOXES ok <b>some items are still open to be checked before start of test</b> <b>OK locking inserts used</b>  NOT FITTED  See Procedure SPIR RAL DOC 001888

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**CONTINUATION SHEET**

<b>As Built Status</b> (Will the following have an Impact on the test performance / results?)	
Outstanding "NCR's"	<p>41.1 OPEN mains filter to be connected to pump, to be checked            13 use as is Closed            CEA NCRs to be reviewed before delta TRR delta 14 Jan with Bruce / Dave            Eric QMI use as is to remain open            51 bent pins Leak test to be done before use            52 Harness problem being fixed by tekdata            53 wheels changed on trolley            54 N/A            55 pin 25 J15 pushed in            56 detector ch do not follow icd use as is            57 still open</p>
Outstanding "Waiver's"	
"Open Work"	<p>Disconnect harnesses <b>done</b>            Complete warm functional test return to G56 <b>done</b>            Fit cooler <b>done</b> Temperature harness <b>done</b>            Fit level nought straps <b>nearly complete</b>            Fit ND filters to black body <b>done</b>            Potting harness, <b>done</b>            fitting harness to cryostat, <b>done</b>  <b>To be done when pumping down</b></p> <ul style="list-style-type: none"> <li>• Alignment of telescope simulator.</li> <li>• Final verification test to be completed on telescope simulator.</li> <li>• Purge telescope simulator.</li> </ul> <p>Up load calibration curves, <b>ready to go on MIB</b>            GSE thermometry harness to be re routed <b>done</b>            Terminate ground wires to BDA <b>done</b></p> <p><b>Fit cold black body</b>  <b>Connect thermometers to HOB plate</b>  <b>Fit thermal links to hob plate</b>  <b>Isolation check</b>  <b>Prepare script for DCU warm functional check.</b>  <b>Fit external Harnesses.</b>  <b>Thermal test procedure to be updated</b>  <b>Power dissipations etc to be converted to Commands</b>  <b>CQM procedure to be marked up by Bruce (connector to be left disconnected)</b></p>
Other	<p>.MCU test has inrush current problem NCR to be raised  <b>Check CEA NCRs there may be one raised</b>  <b>NCR to be raised against warm functional test Bruce to do. Still to do</b></p> <p><b>Emails to all concerned to be sent as from to day by Bruce</b>  <b>Use the instrument Log book from now.</b>  <b>Dave Smith to update procedures.</b></p>

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**HARDWARE COMMENTS/ OBSERVATIONS:**

<b>Decision for test continuation</b>		
Company	Name	Signature
RAL	Ken King	
RAL	Eric Sawyer	
RAL	Bruce Swinyard	
RAL	Eric Clark	