

<b>TRR MoM</b>	<b>Date:</b> 31-JAN-2007	<b>NUMBER</b>	<b>SPIRE-RAL-MOM-002817– Issue 1</b>
----------------	--------------------------	---------------	--------------------------------------

<b>Spacecraft / Project</b>	Herschel / SPIRE
<b>Instrument / Model</b>	PFM
<b>Sub System / Serial No.</b>	N/A

<b>Type of Test</b>	PFM-5 Cold Test Campaign
<b>AIV Facility Test No.</b>	N/A
<b>Location &amp; Date(s) of Testing</b>	SPIRE Test Facility
<b>Applicable Test Specification (Document No. &amp; Issue)</b>	SPIRE-RAL-DOC-002535 – Issue 2.0
<b>Applicable Test Procedure (Document No. &amp; Issue)</b>	SPIRE-RAL-PRC-002816 – Issue 1.0
<b>AIV Facility Test Plan (if applicable?)</b>	N/A

<b>Documentation / Inspection Status</b>	
<b>As Built Status? List of all items /Parts</b>	Currently at issue 2.8 – Numbers of JFET modules to be updated. Entrance aperture cover fitted & SMEC prime and redundant harness swapped
<b>Special Instructions</b>	
<b>Inspection Status and Records:</b>	
<b>Hazards Identified</b>	Ref SPIRE risk assessment ESD precautions to be observed – only trained personnel to access lab.
<b>Cleanliness</b>	Inspected in G56 Test facility to be class 6 (old 1000)
<b>Unit/Item Bagged</b>	N/A
<b>Screws Locked</b>	N/A
<b>Connector Savers</b>	Are being used on FPU and Warm Units
<b>Other</b>	Adaptors fitted to MCU P17 & P18 to correct error in warm test harness.

<b>Assignment of Personnel</b>		
<b>Function</b>	<b>Name</b>	<b>Contact number</b>
<b>Test Director</b>	Dave Smith	Ext 5996
<b>Project Manager</b>	Eric Sawyer	Ext 5385
<b>AIV Facility Manager</b>	Dave Smith	Ext 5996
<b>Safety Officer</b>	Dave Smith	Ext 5996
<b>Product Assurance</b>	Eric Clark	Ext 5662

<b>TRR MoM</b>	<b>Date:</b> 31-JAN-2007	<b>NUMBER</b>	<b>SPIRE-RAL-MOM-002817– Issue 1</b>
----------------	--------------------------	---------------	--------------------------------------

**CONTINUATION SHEET**

<b>As Built Status</b> (Will the following have an Impact on the test performance / results?)	
Review of all “NCR’s”	NRB held on 31 <sup>st</sup> Jan 2007 – ref SPIRE-RAL-MOM-002818. No open NCRs affecting this test campaign.
Review of all “Waiver’s”	None applicable
“Open Work”	See below
Other	
MIP’s or KIP’s	Visual inspection when cryostat opened showed hardware ok after PFM-4.

<b>ACTIONS / COMMENTS / OBSERVATIONS:</b>
<p><b>Status</b></p> <p>SSW test – warm test performed with reworked harness - 16nVHz<sup>-1/2</sup>            Harness rework appears to fixed JFET imbalance – detector spreadsheet has been updated and will be circulated.</p> <p>Cryostat pumped down – LN2 shrouds filled and start to cool to 80K            SMEC unlatched</p> <p><b>WFT</b></p> <p>Completed successfully. Standard and closed loop tests of SMEC were fine.</p> <p><b>OBS</b></p> <p>2.2G tested on AVM – ok            Need to test VMs – 2 changes needed – increase time between interrupts on HW VM &amp; implement new floating point library. Should be completed on 1<sup>st</sup> February.</p> <p><b>DCRU</b></p> <p>No open work.</p> <p><b>HCSS</b></p> <p>Acceptance testing on 0.4.1 – should be completed 1<sup>st</sup> February.</p> <p><b>MIB</b></p> <p>Imported version PFM-5 2.2G1 onto SCOS with corrected SMEC temp cal tables.</p> <p><b>Scripts</b></p> <p>There are separate scripts to recycle cooler on prime and redundant.            New script needed to perform load curves with PCAL flashes at each level. Tanya to raise an SCR.            AOT scripts to be ingested – will be done after HCSS acceptance tests.            There are 4 sets of cal tables for SMEC Prime/Redundant &amp; Hot/Cold – to be updated.</p> <p><b>QLA</b></p> <p>V3.3 – main changes are table updates and support to dynamic changing of MCU engineering parameters.</p> <p>Planned shutdown of computers over weekend has affected one of the displays on the QLA machine.</p>

<b>TRR MoM</b>	<b>Date:</b> 31-JAN-2007	<b>NUMBER</b>	<b>SPIRE-RAL-MOM-002817– Issue 1</b>
----------------	--------------------------	---------------	--------------------------------------

Under investigation.

**Test Plan**

Test priorities – detector characterization, SMEC testing, EMC (2 days TBC).

Fillippo expected 19<sup>th</sup>/20<sup>th</sup> February  
Dominique TBD

Tanya has sent round test spreadsheet based on JPL inputs for comment – JPL proposals discussed during weekly telecom.

Tanya to update test spreadsheet and distribute.

**JPL Availabilities**

Bernhard 12<sup>th</sup> Feb to 19<sup>th</sup> Feb  
Hien 7<sup>th</sup> Feb to 21<sup>st</sup> Feb  
Jamie 19<sup>th</sup> Feb to 28<sup>th</sup> Feb (TBC)

**Planning**

Cool Functional Test Friday/Monday  
Cool to 4K on Tuesday 6<sup>th</sup>  
Cold functional tests on Wednesday 7<sup>th</sup>  
Cold testing starts Friday 9<sup>th</sup>  
Start warm up on 2<sup>nd</sup> March  
Back to G56 on 12<sup>th</sup> March

**AOB**

FPGA running times continue to be logged – totals to be added.

**Test Readiness**

We are ready to go.

<b>Decision for test continuation:</b>		YES / NO / REVIEW	<b>Review Date:</b>	31-Jan-2007
<b>Company</b>	<b>Name</b>			
RAL	Eric Sawyer Dave Smith Ken King Bruce Swinyard		Tanya Lim Doug Griffin Sunil Sider Eric Clark	
Cardiff	Matt Griffin			