

Subject / Title:	PFM Post Test Review "Workmanship Cold Vibration"	Document No:	SPIRE-RAL-MoM-002721	Issue No:	1	Date	13 th September 2006	Page 1 of 5
-------------------------	---	-------------------------	----------------------	----------------------	---	-------------	------------------------------------	------------------------

Spacecraft / Project	HERSCHEL / SPIRE	Meeting Place	Telecon,
Instrument / Model	SPIRE PFM	Subsystem	FPU

Participants		Agenda
<i>Print Name</i>	<i>Signature</i>	
RAL Eric Sawyer		1. Test specimen - configuration - inspection status - NCR - cleanliness status - open work 2. Test facility - configuration & status - NCR - cleanliness status 3. Test Reports - Test plan and procedure configuration - Test procedure deviations - Evaluation and verification of test results 4. Conclusion - The test was properly executed ? - The test data confirms that the parameters were within the expected required limits ? Additional Distribution
ESA Norbert Nikolaizig		
ESA Carsten Scharmberg		
CSL Christophe Grodent		

Subject / Title:	PFM Post Test Review “Workmanship Cold Vibration”	Document No:	SPIRE-RAL-MoM-002721	Issue No:	1	Date	13th September 2006	Page 2 of 5
-------------------------	--	-------------------------	-----------------------------	----------------------	----------	-------------	---	------------------------

1. Test specimen

- Configuration

Full FM standard, as defined in the CIDL.

- Inspection status

Inspected on delivery, no damage.

Standard electrical check performed before test all OK.

Inspected on completion of test, no damage.

Standard electrical check performed after test NCR raised due to SMEC latch in non latched state. Latch relatched for transit.

- NCR

NCR 159 raised, SMEC latch unlatched. Attached to minutes.

- Cleanliness status

Bagged for delivery, covered when being worked on. No sign of contamination visually.

- Open work

No open work.

2. Test facility

- Configuration & status

Set up for X axis test.

No problems, bellows re-used.

All requirements for delta T and cooling rate were observed.

4 days for cool, 3.5 days for warm up.

- NCR

No NCRs on facility

Subject / Title:	PFM Post Test Review “Workmanship Cold Vibration”	Document No:	SPIRE-RAL-MoM-002721	Issue No:	1	Date	13th September 2006	Page 3 of 5
-------------------------	--	-------------------------	-----------------------------	----------------------	----------	-------------	---	------------------------

- Cleanliness status
Cleanliness status in the test report.
Small out of specification on molecular witness.

3. Test Reports

- Test plan and procedure configuration
SPIRE-RAL-PRC-002597 issue 2 Cold workmanship vibration test plan, PFM
SPIRE-RAL-PRC-002598 issue 3 Cold workmanship vibration test procedure, PFM

- Test procedure deviations
As run procedure will be scanned and made available
No deviation from procedure.

- Evaluation and verification of test results
To be carried out by SPIRE
Vibration test report received from CSL.

4. Conclusion

- The test was properly carried out as per specification.

- The test data confirms that the parameters were within the expected required limits.

- Need for further testing
This campaign is complete, further tests may be required.

- Completeness of data
All data has been made available.

Subject / Title:	PFM Post Test Review “Workmanship Cold Vibration”	Document No:	SPIRE-RAL-MoM-002721	Issue No:	1	Date	13th September 2006	Page 4 of 5
-------------------------	--	-------------------------	-----------------------------	----------------------	----------	-------------	---	------------------------

The test was successfully performed.

ESA would like to thank CSL and SPIRE for a successfully run campaign.

SPIRE would also like to thank CSL.

Action			Title & Description
No	Responsibility	Due Date	

Subject / Title:	PFM Post Test Review "Workmanship Cold Vibration"	Document No:	SPIRE-RAL-MoM-002721	Issue No:	1	Date	13 th September 2006	Page 5 of 5
-------------------------	---	-------------------------	----------------------	----------------------	---	-------------	------------------------------------	----------------

List of NCR's Raised re this Test

NCR Number	Title	Level	Originator	Date Raised
HR-SP-RAL-NCR-159	SMEC unlatched during cryo-vibration test.	Major	E Sawyer RAL	14/9/06