



## Minutes of Meeting

Date:	28.01.09	<b>Herschel</b>	
Doc.-No.:	HP-2-ASED-MN-1648		
Meeting place:	ESTEC NL	Chairman:	D.Hendry
Date/Time:	28.01.09 at 11.00 hrs	Secretary	D.Hendry
Agenda dated:	PTR Standard Agenda	Close of Meeting:	28.01.09 at 11-45 hrs

Subject: PTR for SPIRE SMEC Test # 3

Participants:	C.Scharmberg ESA M.Cesa ESA <i>More</i> S.Sidher RAL D.Pouliquen LAM D.Hendry ASED <i>D.Hendry</i> A.Koppe ASED S.Hamer ASED <i>Eric Scharf</i>	Additional Distribution:
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Brief-Minutes (except following sheets)

Summary of Results of Sheets 2 till

### Conclusion:

During the testing four scans were successfully performed and operated in open and Closed loop, no friction was identified in either Prime or Redundant with the indicated cryo temperatures.

The test was successful and no indication of any degradation.



Reference	Results	Remarks
	<p><b>PTR Agenda:</b></p> <ul style="list-style-type: none"><li><b>0. Introduction</b></li><li><b>1. Test Identification</b></li><li><b>2. Review of Test Data</b></li><li><b>3. Review of ACS / Procedure Variation Sheets</b></li><li><b>4. Test reports</b></li><li><b>5. NCR / RFD Review</b></li><li><b>6. Open Work / Open Actions Identification</b></li><li><b>7. AOB</b></li><li><b>8. Conclusion</b></li></ul>	



Reference	Results	Remarks
	<p><b>0. Introduction</b></p> <p>The objective of this review is to assess the results of the SPIRE SMEC test #3 which was performed post SC environmental testing.            The objective is to confirm nominal operation of both prime and Redundant sides in open and closed loop.            The TRR was performed on 26.01.09 ref H-P-TASF-MN-11213</p> <p><b>1. Test Identification</b></p> <p>Herschel SC. PT100000            SPIRE CI 112000 Flight configuration.</p> <p><b>Configuration changes compared with TRR:</b></p> <p>Cryo Conditions: (included in the as run procedure)            L0 4.5 K            L1: 7K            L2: 16K            L3: 17 K</p> <p>SW:            Minor script changes covered by SPR 1167 and 1168, both of which are now closed.</p>	



Reference	Results	Remarks
	<p>H/W: The Launch latch was checked with the DVM during the test unlatched and latched 2 times and confirmed as Latched at end of test.            Latch will be checked after transport in Kourou</p> <p><b>2. Review of Test Data / Reports</b>            On line review of results confirmed nominal operation in prime and redundant open and closed loop, no indication of friction.</p> <p>With respect to NCR 4705 JFET switch on an ACS SD-448 was performed and the results will be analysed off line by RAL.            All JFETs switched on without problem but RAL advise that the temperatures were higher than during TV/TB.</p> <p><b>3. Review of ACS / PVS</b></p> <p>PVS attached to the as run procedure.</p> <p><b>4. Test Report:</b></p> <p>ASED AIT Test report will be provided.            RAL will provide a dedicated report on the results of the JFET switch on investigation.</p>	



Reference	Results	Remarks
	<p><b>5. NCR / RFW Status</b></p> <p>NC-4222: SMEC mechanism friction behaviour in start region            Nominal operation in both open and closed loop, no evidence if friction.            NCR can be closed.</p> <p>NC-4348: SPIRE TM_FIFO_FULL and Science_Pool_Full            New scripts were successfully verified during the test.            NCR can be closed</p> <p>NC-4705: TVTB Spire detector problem in spectroscopy            JFET switch on in accordance with ACS SD-448 was performed and the results will be analysed off line by RAL.            All JFETs switched on without problem but RAL advise that the temperatures were higher than during TV/TB.            NCR remains open</p> <p>NC-4765: SOVT2 SPIRE alarm SML2V510            SPIRE MIB was updated and included in the New HPSDB for SVT2 and was successfully verified.            NCR can be closed</p> <p>NC-4701:TBTV Out of limits during Spire TV test            Revised (relaxed) limits included in MIB v3.0 B2 PR and successfully verified, no OOL indicated during the tests.            NCR can be closed</p> <p>NC-4704: TBTV SPIRE 3 Out of limit alarms received.            Revised (relaxed ) limits included in MIB v3.0 B2 PR and successfully verified, no OOL indicated during the tests.            NCR can be closed</p>	



Reference	Results	Remarks
	<p><b>6. Open Work / Open Actions</b></p> <p>6.1 The test procedure HP-2-ASED-TP-0217 Issue 1.4 needs to be updated in line with the PVS</p> <p>6.2 ASED AIT will provide the TC history and cryo temperatures and any OOLs to RAL</p> <p><b>7. AOB</b></p> <p>RAL have identified a possible operational constraint for the flight procedures with respect to the possible non operation of the encoders on the prime side due to too low temperatures during the in flight commissioning and PV phases.            This aspect has been addresses in the COP Mom No 2.</p> <p><b>8. Conclusion</b></p> <p>During the testing four scans were successfully performed and operated in open and Closed loop, no friction was identified in either Prime or Redundant with the indicated cryo temperatures.            The test was successful and no indication of any degradation.</p>	<p>OW</p> <p>OW</p>

