



Minutes of Meeting

Date:	27.10.08	Herschel	
Doc.-No.:	HP-2-ASED-MN-1627		
Meeting place:	ESTEC, NL	Chairman:	D. Hendry
Date/Time:	27.10.08 / 16-00 hrs	Secretary	A. Koppe
Agenda dated:	Standard agenda	Close of Meeting:	27.10.08 / 17-00 hrs

Subject: TRR for SPIRE SFT on 29.10.08

Participants:	S. Sidher RAL C. Scharmberg ESA M. Cesa ESA A. Koppe ASED D. Hendry ASED S. Hamer TERMA	Additional Distribution: ESA TAS-F
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Brief-Minutes (except following sheets)

Summary of Results of Sheets 2 till

Conclusion:-

Testing can start.

Reference	Results	Remarks
	<p><u>AGENDA</u></p> <ul style="list-style-type: none"> 0. Introduction 1. As Built / As Designed Configuration Status / S/W Status 2. Inspection / Integration Status 3. NCR / RFW Status 4. Open Work / Open Actions 5. Test Procedures / Test Reports 6. Safety Hazards and Hazardous Operations 7. Test Equipment / Facility and Calibration Status 8. Cleanliness 9. Test Personnel and Responsibilities 10. Problem Areas 11. AOB 12. Conclusion 	



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Reference	Results	Remarks
	<p>HPCCS Release_2.0-1317</p> <p>OBSW: Version DPU 2.2.H Partition 1 ; main and redundant Version DPU 2.2.H partition 2 ; main and redundant</p> <p>CDMS: Version 3.6.2.6, ACMS 4.0</p> <p>TCL Scripts: Relevant script files: SPIRE_FM_SFT_Scripts_10Sep2007.zip SPIRE_FM_SFT_10Sep2007_Release_Note.txt The following scripts are at CVS version 1.2: SPIRE-FM-SFT-FUNC-DCU-01-P.tcl, dated 11.02.2008 SPIRE-FM-SFT-FUNC-DCU-01-R.tcl, dated 11.02.2008 All others are at version 1.1.</p> <p>2. Inspection / Integration Status</p> <p>2.1 Inspection Status</p> <p>No specific inspection is to be done before the test.</p>	



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Reference	Results	Remarks
	<p>2.2 Integration Status SPIRE is in the flight configuration.</p> <p>Cryo conditions: He1</p> <p>S/C Configuration: S/C is switched on in basic test configuration, test will be performed inside LSS in vertical position (not tilted to 20°), He filling is continued during test CCU A & Cryo SCOE will be connected, switched on and operational Harness will be directly connected through LSS door</p> <p>2.3 Red/Green Tag status</p> <p>No Red Tags for SPIRE</p> <p>2.4 Parallel operations being performed</p> <p>None with the exception of He filling</p> <p>2.5 Constraints:</p> <p>SPIRE shall be booted from secondary partition The following cryo temperatures presently achieved: L0 temperature ~ 4.3 K</p>	

Reference	Results	Remarks
	<p>L1 temperature ~ 4.6 K L2 temperature ~ 6.0 K</p> <p>which is acceptable fore SPIRE.</p> <p>2.6 Warm Unit temperature Limits</p> <p>None</p> <p>3. NCR / RFW Status:</p> <p>There are no NCR´s which prevent the start of the SPIRE SFT.</p> <p>NCR-3955, parameter SMD2V505 will potentially show up again, even if the NCR is already closed ASED will review recent test data to determine if this problem is still occurring.</p> <p>SPIRE will send an e-mail identifying those NCR´s which have been corrected by procedure update and can be closed by this test. The list from system level meeting #14 from 14th of October, is attached hereafter</p> <p>NCR-4516 (Problem with SPIRE cooler recycling VM during DTCP4SOVT): → Analysis has been performed. VM remain as is (optimized for flight operation). CLOSED</p> <p>NCR-4507 (SPIRE SOVT Nominal HKTM not restarted) → one remaining open action, due</p>	<p>Action 1 (SPIRE) Open Work</p>



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Reference	Results	Remarks
	<p>26/10/2008.</p> <p>NCR-4506 (SOVT1: PACS subschedule not incorrectly re-enabled after FDIR) → To be closed together with ESOC (ESOC group).</p> <p>NCR-4499 (SOVT Cmd rejected and RTEMS anomaly events received during MTL upload) → To be closed together with ESOC (ESOC group).</p> <p>NCR-4495 (IST RMS - SPIRE jiggle map observations failed) → SPIRE DPU OBSW to be updated, jiggle map to be tested prior TV test.</p> <p>NCR-4488 (IST IST RMS SPIRE PUMP HEATER SWITCH UNEXPECTED Switch OFF) → Manual cooler recycling during TV/TB. Parameter M to be updated prior SOVT2.</p> <p>NCR-4483 (SPIRE MTL - Biasing parameters wrong for transition to PHOTSTBY) → Problem understood. Script for TV test need to include the relevant update.</p> <p>NCR-4479 (PACS SPT He2 & SPIRE SPT He2: Cooler Hold Times) → This is a PACS NCR. However, there was one open action on SPIRE, which was closed during the meeting (Cooler performance analysis HSO-SBT-TN-153-1-0).</p> <p>NCR-4474 (VC1 Overflow after RAL changed CUS parameters for SPIRE SPT) → SPIRE to check for potential script updates.</p> <p>NCR-4473 (L1 temperature above Spec during SPIRE SPT) → Closure pending SPT Test Report availability.</p>	



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	<p>NCR-4462 (SPIRE SPT - TC missing in SPIRE IST script) → . VM DPU OBSW update reqd for TB/TV</p> <p>NCR-4460 (SPT in He2: SPIRE-IST-BSM-CHOP-POS1 fails during IEGSE-CCS comm) → Group: Scripts to be sorted out prior TV test.</p> <p>NCR-4459 (SPIRE-SPT in He2: script fails with Tcinfos count mismatch) → SPIRE to provide TV/TB script update..</p> <p>NCR-4458 (SPIRE_SPT_He2: Nom HK does not restart when commanded) → action on SPIRE overdue. To be closed together with ESOC (ESOC group).</p> <p>NCR-4457 (SPIRE test script does not not perform the correct operation) → SPIRE DPU SW to be updated before TBTV</p> <p>NCR-4423 (SPIRE IEGSE not archiving data for part of SPIRE commissioning) → SPIRE reported that there is no progress on investigations together with IEGSE working. SPIRE consider this as "low priority".</p> <p>NCR-4394 (SPIRE SM014500, SPIRE MIB, signed convention for peak-up parameter) → Will be included in next MIB delivery from SPIRE to TASF well in advance of SOVT2.</p> <p>NCR-4393 (Unknown 8,6 Packet from ACMS when executing AC082109 (Peak-Up) → One open action on DS to update ACMS SDB (due since two months !!!)</p>	



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Reference	Results	Remarks
	<p>NCR-4348 (Unknown SPIRE TM_FIFO_Full and Science_Pool_Full) → Due date extended to 22/12/2008 (well in advance of next SMEC functional test).</p> <p>NCR-4289 (SPIRE SFT Post acoustic SCAL TEMP Nom and Redundant) → SPIRE to provide MIB update taking into account results from TV test by 05/12/2008.</p> <p>NCR-4288 (SPIRE SFT post acoustic Pcalv expected value) → SPIRE to update SFT procedure to include correct value for Pcalv by 22/10/2008.</p> <p>NCR-4278 (Instrument Warm Units temperature limits) → TASF to update MIB including WU limits according IID-B.</p> <p>NCR-4222 (SMEC mechanism friction behaviour in startregion) → will monitored during next SMEC test #3 – no further action required.</p> <p>NCR-4200 (SPIRE: Checksum of first (patched) memory area not as expected) → SPIRE DPU SW to be updated before TBTV</p> <p>NCR-4199 (SPIRE: Invalid OOL checks) → SPIRE to provide MIB update by 05/12/2008.</p> <p>NCR-4198 (SPIRE - CALL_BOOT TC validation error) → RAL to check status – actions inPRISMA seems wrong.</p> <p>NCR-4197 (SPIRE: LS overflow error) → To be closed together with ESOC (ESOC group).</p> <p>NCR-4195 (TM DPUM15V OOL for SPIRE) → SPIRE to provide MIB update by 05/12/2008.</p>	



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Reference	Results	Remarks
	<p>NCR-4128 (SPIRE goes to an improper status with jamming) → DPU SW to be updated</p> <p>NCR-4105 (Missing textual calibration for SPIRE) → SPIRE MIB update required</p> <p>NCR-4086 (IST Nominal Mode Robustness - SPIRE DPU BSW boot problem) → use as is. Update of IUM – operational constrains</p> <p>NCR-3512 (During RMS 48, SPIRE DPU reports missing Time Sync Pulse on MIL Bus 1553) → ASED to investigate if problem occurred during RMS.</p> <p>NCR-1804 (SPIRE EMC E-Field RS test results non conformances) → CLOSED by HR-SP-RAL-RFW-013, issue 1, 19th September 2008.</p> <p>4. Open Work / Open Actions</p> <p>Actual cryo temperatures will be recorded from the beginning to the end of the test, PVS to be raised. ASED will review recent test data to determine if the problem of NCR- 3955 is still occurring.</p> <p>5. Test Procedures / Test Reports</p>	<p>PVS#1</p>



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	<p>Prime and redundant sides will be tested.</p> <ul style="list-style-type: none"> • SPIRE SFT SPIRE_RAL_PRC_2494 iss 2.6 • SPIRE IEGSE Setup SPIRE_RAL_DOC_002841 iss 2.2 • SFT Procedure HP-2-ASED-TP-0212, Issue 1.3, <u>Note:</u> PVS to be raised for deletion of LPU test <p>PVS to be raised for synchronisation of SPIRE IEGSE</p> <p>6.Hazards and Hazardous operations</p> <p>No other than safety issues related to test</p> <p>7. Test Equipment / Facility and Calibration Status</p> <p>I-EGSE is to be connected to CCS and cryo SCOE connected to CCU A sensors</p> <p>Instrument attendance during the test will not be available, but instrument will check remotely configuration prior to the start test and during change over from nominal to redundant. During the performance of the test RAL will not monitor on a continuous basis but all data will be stored on the EGSE and at RAL.</p>	<p>PVS#2</p> <p>PVS#3</p>

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	<p>8. Cleanliness</p> <p>CL 100000 inside the LSS</p> <p>9. Test Personnel and Responsibilities</p> <table border="1" data-bbox="387 719 1794 1147"> <thead> <tr> <th>Responsibility</th> <th>Name</th> <th>Company</th> <th>Contact Number</th> </tr> </thead> <tbody> <tr> <td>Test Director</td> <td>B.Collaudin</td> <td>TASF</td> <td></td> </tr> <tr> <td>Test Conductor</td> <td>A.Koppe</td> <td>ASED</td> <td></td> </tr> <tr> <td>SPIRE test engineer</td> <td>S.Sidher (remotely)</td> <td>RAL</td> <td></td> </tr> <tr> <td>SPIRE I-EGSE</td> <td>S.Sidher (remotely)</td> <td>RAL</td> <td></td> </tr> <tr> <td>SPIRE coordination</td> <td>S.Sidher (remotely)</td> <td></td> <td></td> </tr> <tr> <td>QA</td> <td>T.Schmidt</td> <td>ASED</td> <td></td> </tr> <tr> <td>CCS</td> <td>S. Hamer/S. Ilsen</td> <td>ASED</td> <td></td> </tr> <tr> <td>S/C Operator</td> <td>As per shift plan</td> <td></td> <td></td> </tr> <tr> <td>PA</td> <td>D.Hendry</td> <td>ASED</td> <td></td> </tr> <tr> <td>Instrument coordinator</td> <td>C. Scharmberg</td> <td>ESA</td> <td></td> </tr> </tbody> </table> <p>10. Problem Areas</p> <p>None identified</p> <p>11. AOB</p> <p>Planning:</p>	Responsibility	Name	Company	Contact Number	Test Director	B.Collaudin	TASF		Test Conductor	A.Koppe	ASED		SPIRE test engineer	S.Sidher (remotely)	RAL		SPIRE I-EGSE	S.Sidher (remotely)	RAL		SPIRE coordination	S.Sidher (remotely)			QA	T.Schmidt	ASED		CCS	S. Hamer/S. Ilsen	ASED		S/C Operator	As per shift plan			PA	D.Hendry	ASED		Instrument coordinator	C. Scharmberg	ESA		
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	<p>Test is scheduled to start on 29th of October 2008 at 14:00 h, test duration is about 4 hrs (nominal and redundant).</p> <p>12. Conclusion</p> <p>All parties agree to start the test as planned on Wednesday, 29th October 2008, in the afternoon.</p>	

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Open Work List

Herschel

Title:

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ASED will review recent test data to determine if the problem of NCR- 3955 is still occurring.