

Date: 12.02.08

Herschel

Doc.-No.: HP-2-ASED-MN-1483

Meeting place: ESTEC

Chairman: R. Stritter


Date/Time: 12.02.08 17:00

Secretary



Agenda dated: PTR Standard Agenda

Close of Meeting:

Subject: PTR for SPIRE FM wSFT prior cool-down

Participants: E. Sawyer, SPIRE 

Additional Distribution: ESA
TAS-F
SPIRE
A. Koppe, ASED

 B. Collaudin, TASF
R. Stritter, ASED
S. Idler, ASED
K. Goodey, ESA 
C.Scharmberg ESA

Page: 1 of Page(s) & annex

Brief-Minutes (except following sheets)

Summary of Results of Sheets 2 till

Conclusion:

SPIRE SFT completed successfully.

LPU test not performed since current parameter were not present in CDMS S/W as expected.

SPIRE detector check indicated that bolometer PMW-B6 was not corrected as reported, ASED to update NCR accordingly and to correct I/F during connector exchange.

Both aspects will be treated via the herein mentioned actions and per NCR updates.



Reference	Results		Remarks
	<p>PTR Agenda:</p> <ul style="list-style-type: none">0. Introduction1. Test Identification2. Review of Test Data / Reports3. Review of ACS / Procedure Variation Sheets4. NCR / RFD Review5. Open Work / Open Actions Identification6. AOB7. Conclusion		



Reference	Results	Remarks
	<p>0. Introduction</p> <p>This PTR is for the SPIRE FM wSFT prior to Cryostat cool-down and based on the already performed wash-up meeting HP-TASF-TN-10131, refer to Annex 1.</p> <p>1. Test Identification</p> <p>The SPIRE wSFT was performed in two steps first according to SFT procedure HP-2-ASED-TP-0212 Issue 1 (SPIRE FM short Functional Test after transport of the S/C to ESTEC and LPU harness modification) and second according to ACS ASED-SD-0203 (WFT).</p> <p>The corresponding as-run PRs are available and will be provided to all parties as attachment to the TR.</p> <p>Electronic SFT and CCS files are stored by ASED, as-run PR will be scanned and distributed to all parties in advance.</p> <p>Test session ID(s) are given in the as-run PR.</p> <p>2. Review of Test Data / Reports</p> <p>Preliminary data evaluation done in the frame of the wash-up Mtg., refer to Annex 1.</p> <p>LPU test not performed since current parameter were not present in CDMS S/W as expected. NC-3957 raised to cover this pb.</p>	<p>Annex 1</p> <p>AI [1] ASED RS</p>



Reference	Results	Remarks
	<p>NC-3954 - IST Spire DRCU current WM408565 reports higher than expected. Step 48 – During power-off DRCU, current WM408565 higher than expected.</p> <p><u>NCR investigated during test</u> are explained in the wash-up summary, refer to Annex 1 and below :</p> <p>NC-3631 - SPIRE WFT - Cmd execution failures reported during DRCU switch on Explanation of error messages are included in the DRCU Switch-on procedure, SPIRE propose to transfer this also into the S/C PR. Use-as-is, warn operator via PR.</p> <p>NC-3633 - SPIRE WFT – CCS reports unknown 21,4 pkts from APID 128 Proposed for closure.</p> <p>NC-3661 - TC(8,4,112,3/5) rejected by ASW for LCL 25 and 26 LPU current parameters have not been implemented in CDMS S/W. NCR can be closed when cmds are verified after LPU test.</p> <p>NC-3698 - HIFI warm SFT1 - command completion failure Also seen during SPIRE warm SFT, TM(1,7) did arrive but appears to be missed by CCS, step 39 – DCU_13_PHOT_P – cmd completion status reported unknown. Remain open.</p> <p>NC-3725 - SPIRE FM Detector Channel Anomalies during WFT NCR to be updated w.r.t. the present status, final corrections to be implemented during P03 connector exchange. Repair is pending on next SPIRE pnl opening. Afterwards a harness bundle verification to be performed, final electrical verification either during cold SFT or during a detector test. Remains open.</p>	



Reference	Results	Remarks
	<p>SPIRE proposes to verify this in the frame of the SMEC test before cold SFT.</p> <p>5. Open Work / Open Actions</p> <p>Update of CDMS S/W, see also NC-3957.</p> <p>Correction of PMW-B6 harness during P03 connector exchange, see also NC-3725.</p> <p>6.AOB</p> <p>None</p> <p>7. Conclusion</p> <p>SPIRE SFT completed successfully.</p> <p>LPU test not performed since current parameter were not present in CDMS S/W as expected.</p> <p>SPIRE detector check indicated that bolometer PMW-B6 was not corrected as reported, ASED to update NCR accordingly and to correct I/F during connector exchange.</p> <p>Both aspects will be treated via the herein mentioned actions and per NCR update.</p>	




Action Items List

No.:	Description:	Due Date	Originator Comp./Pers.	Actionee Comp./Pers.	Source	Completion
1	Electronic SFT and CCS files are stored by ASED, as-run PR will be scanned and distributed to all parties in advance.	15.02.08	SPIRE, Sawyer	Stritter		
2	SPIRE detector check indicated that bolometer PMW-B6 was not corrected as reported, ASED to update NCR accordingly and to correct I/F during connector exchange.	15.02.08	SPIRE, Sawyer	Stritter		
3	NC-3957 - CDMS S/W update required for tests in near future	25.02.08	TASF, Collaudin	TASF, F. Chatte		
4	NC-3957 - HPSDB workaround to read-out current to be implemented by TASF in next HPSDB update	25.02.08	TASF, Collaudin	TASF, F. Chatte		

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

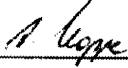
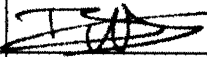
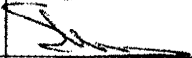


Amer 1

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MINUTES OF MEETING		PLACE: ESTEC

PURPOSE:
 SPIRE Warm SFT Wrap-up meeting

CLASSIFICATION:

ATTENDEES	FIRM	SIGNATURE	ATTENDEES	FIRM	SIGNATURE
Eric Sawyer	RAL				
Sunil Sidher	RAL				
Axel Koppe	ASED				
Bernard Collaudin	TASF				
Simon Hamer	ASED				

WRITTEN BY: Bernard Collaudin

CONCLUSION:
 SPIRE SFT completed successfully.
 However: LPU test not performed because current parameter was not present in CDMS software as expected.
 Correction to be implemented urgently (required for mechanical tests)

SPIRE detector check indicated that bolometer PMW-B6 has not been corrected as reported. To be corrected when connector P03 will be replaced.

SPIRE gives go-ahead for Cryostat cool down.

DISTRIBUTION: ATTENDEES	FOR FURTHER ACTION:
	FOR INFORMATION:

APPROVED BY				
NAME				
SIGNATURE				

MINUTES OF MEETING

PLACE : ESTEC

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DISTRIBUTION : ATTENDEES	FOR FURTHER ACTION :
	FOR INFORMATION :

APPROVED BY

NAME				
SIGNATURE				

MINUTES OF MEETING

PLACE : ESTEC

CONTINUED :

ACTION

SPIRE warm SFT (after transport to Estec) was performed today. ° Detector check Procedure:

HP-2-ASED-TP-0212_1 - SPIRE FM Short Functional test
+ HP-2-ASED-SD-0203_1_SPIRE WFT after SD-195

Check of TRR Open points

None from TRR.

- Temperature of OBA was checked to be <31.5°C
- Following PACS test, and NC 3949: the tmd.dat file was corrected, and the database updated.. Checked to be correct for SPIRE

Summary of the test

Both Tests run smoothly.

SFT:

Error in an Script (step SPIRE_FT_SFT_FUNC_DCU_01_P).
SPIRE used an AVM script (for DRCU simulator) instead of an FM script.
SPR 162 generated
Script corrected & verified to work on redundant.
AI 1: SPIRE to update procedure for next (cold) SFT with updated script

One temperature for L0 out of range (normal at ambient) went from max positive 32767 to min negative value (-32768) expected.

AI 2: SPIRE will check the raw telemetry to understand the origin of the problem.

LPU test was not performed as the related packet for current measurement are missing.

After clarification, it appears the these parameters have NOT been corrected in CDMS software (issue 3.1.2) as they should have.

NCR 3661 remains OPEN. Needs urgent correction (required to be operated for mechanical test.

Test duration: 1:30 for nominal 1:20 for redundant.

Total SFT in about 3h

→ Go ahead for cool down.

Detector check.

During detector test, one of the bolometers (PMW-B6) has still negative slope, although it is reported to be corrected in ACS-195 (312100-P03), pins 031 & 043 have obviously not been swapped as expected (& reported)


Most probably human error.

Propose to correct when the connector will be changed.

NC3725 remain open until this.

NCR generated during this test

NCR to be raised:

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<p>→ Yellow Out of limit reported on SLIAP5V (5.25V) on redundant and not on nominal (with same value and same hard & soft limit for nominal & redundant. The nominal & redundant having the same SPID should have similar behaviour. SCOS problem ? (May be significant places in limits checks) Proposed to add this on NCxxx (either existing or to be created) (SPIRE parameter SMD2V505 with yellow soft limit)</p> <p>DCU-11 test: the script did not work because the IEGSE database was not changed to the current test configuration. Not an NCR.</p> <p>→ Step 39 - DCU_13_PHOT_P - Command completion status reported unknown. NCR on CCS to be raised.</p> <p>→ Step 48 – During Power off DRCU, current WM408565 higher than expected.</p> <p>Older NCR's investigated during this test:</p> <p>3631 Command execution failure DRCU Start: Has been observed again. → use as is for all functional tests (warning in the procedure)</p> <p>3633 Unknown Type 21,4 packets reported on CCS: Corrected in HPSDB. Not observed during this test → Proposed for closure</p> <p>NCR ³⁷²⁵3601: SPIRE detectors repair remains OPEN (PMW-B6 to be corrected).</p> <p>Conclusion</p> <p>SPIRE SFT completed successfully. However: LPU test not performed because current parameter was not present in CDMS software as expected. Correction to be implemented urgently (required for mechanical tests)</p> <p>SPIRE detector check indicated that bolometer PMW-B6 has not been corrected as reported. To be corrected when connector P03 will be replaced.</p> <p>SPIRE gives go-ahead for Cryostat cool down.</p>		

	Name	Dép./Comp.		Name	Dep./Comp.
	Baldock Richard	FAE12		Schweickert Gunn	ASG23
X	Barlage Bernhard	AED13	X	Sonn Nico	ASG51
X	Bayer Thomas	ASA42		Steininger Eric	AED32
	Brune Holger	ASA45	X	Stritter Rene	AED11
	Chen Bing	HE Space		Suess Rudi	OTN/ASA44
	Edelhoff Dirk	AED2		Theunissen Martijn	DSSA
	Fehringer Alexander	ASG13	X	Vascotto Riccardo	HE Space
X	Fricke Wolfgang Dr.	AED 65		Wagner Klaus	ASG23
	Geiger Hermann	ASA42		Wietbrock Walter	AET12
	Grasl Andreas	OTN/ASA44		Wöhler Hans	ASG23
	Grasshoff Brigitte	AET12		Wössner Ulrich	ASE252
X	Hamer Simon	Terma	X	Zumstein Armin	ASQ42
	Hanka, Erhard	FI552			
	Hendrikse Jeffrey	HE Space			
X	Hendry David	Terma			
	Hengstler Reinhold	ASA42			
	Hinger Jürgen	ASG23			
X	Hohn Rüdiger	AED65			
	Hofmann Rolf	ASE252			
	Hopfgarten Michael	AED32			
X	Huber Johann	ASA42			
	Hund Walter	ASE252			
X	Idler Siegmund	AED312			
	Ivány von András	FAE12			
X	Jahn Gerd Dr.	ASG23			
	Jolk Matthias	AET1	X	ESA/ESTEC	ESA
	Kalde Clemens	ASM2	X	Thales Alenia Space Cannes	TAS-F
	Klenke Uwe	ASG72		Thales Alenia Space Torino	TAS-I
X	Koelle Markus	ASA43			
X	Koppe Axel	AED312		Instruments:	
X	Kroeker Jürgen	AED65		MPE (PACS)	MPE
X	La Gioia Valentina	Terma	X	RAL (SPIRE)	RAL
X	Lang Jürgen	ASE252		SRON (HIFI)	SRON
X	Langenstein Rolf	AED15			
X	Langfermann Michael	ASA41			
	Liberatore Danilo	Rhea		Subcontractors:	
X	Martin Olivier	ASA43		Austrian Aerospace	AAE
X	Maukisch Jan	ASA43		Austrian Aerospace	AAEM
X	Much Christoph	ASA43		BOC Edwards	BOCE
X	Müller Martin	ASA43		Dutch Space Solar Arrays	DSSA
	Pietroboni Karin	AED65		EADS Astrium Sub-Subsyst. & Equipment	ASSE
	Platzer Wilhelm	AED2		EADS CASA Espacio	CASA
	Reichle Konrad	ASA42		EADS CASA Espacio	ECAS
	Runge Axel	OTN/ASA44		European Test Services	ETS
	Sauer Maximilian Dr.	AED65		Patria New Technologies Oy	PANT
X	Schink Dietmar	AED32		SENER Ingenieria SA	SEN
X	Schmidt Thomas	AED15		Thales Alenia Space, Antwerp	TAS-ETCA