

Minutes of Meeting

Date:	17.06.08	Hersch	el
DocNo.:	HP-2-ASED-MN-1564	-	
Meeting place:	ESTEC NL	Chairman:	D.Hendry
Date/Time:	17.06.08/14-00 hrs	Secretary	D.Hendry
Agenda dated:	Standard agenda	Close of Meeting:	17.06.08 / hrs
Subject:	TRR for SPIRE Detector Test H	e1 Post acoustic	
Participants:	S.Sidher RAL M.Cesa ESA B.Collaudin TASF A.Koppe ASED D.Hendry ASED O.Martin ASED	Additional ESA Distribution: AAS	-
	E.Polehampton RAL		
Page: 1 of 12 Pa	ge(s)		
☐ Brief-Minutes (except following sheets)	☐ Summary of R	esults of Sheets 2 till

Conclusion:-

Testing can start after removal of SMEC GSE harness and installing of shorting plugs.



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Reference	Results	Remarks
	AGENDA .	
	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	
	Test Personnel and Responsibilities	
	10. Problem Areas	
	11. AOB	
	12. Conclusion	

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Reference	Results	Remarks
	0. Introduction	
	This TRR covers the SPIRE Detector Test post acoustic which is a subset /reduced CFT of the Spire to procedure ACS HP-2-ASED-SD-0370 calls up HP-2-ASED-TP-0217 Issue 1.1	
	Main Points from SPIRE CFT Ref HP-2-ASED-MN-1507 dated 07.03.08	
	Problem with photometer ASED_NC_3999 Closed also 3725 and 3734 PSWD15 is reversed has a negative slope this was one of the swapped lines	
	Spectrometer (ASED_NC_3996) SSW JFET 1 and 2 failed to start using nominal procedures PVS was raised JFETs started during VSS test with a higher voltage, NCR to be raised. Due to this problem a modification to the SVT procedure is required. RAL will contact ESOC directly to inform them about this change.	
	The IEGSE DB has been updated on line during the test and the retest successfully performed. A further update may be necessary after off line analysis at RAL	
	Bias temperature Soft limit was observed.	
	1.As Built / As Designed Configuration Status / S/W Status	
	1.1 HW Status HW status SC is mounted vertical on Quad shaker in vibration facility	



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Reference	Results	Remarks
	SC configuration is flight configuration see ISL and Vibration TRR mom	
	1.2 SW Status :	
	HPSDB:HP-ASP-LI-1441_10 SPIRE MIB loaded in HPSDB is version 2.2.H1 PR	
	Merged MIB H-P-ASP-LI-1424_04	
	OBSW: Version DPU 2.2.H Partition 1 ; main and redundant Version DPU 2.2.H partition 2 ; main and redundant	
	CDMS: Version 3.4.0.9	
	TCL Scripts: Relevant script files: SPIRE_IST_COLDFT_Scripts_28Feb2008.zip SPIRE_IST_COLDFT_28Feb2008_Release_Note.txt	
	Power on/off are included in TP-217_1.1	
	Power on/off are included in TP-217_1.1	



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Reference	Results	Remarks
	2. Inspection / Integration Status	
	2.1 Inspection Status Detailed visual inspection was performed post acoustic testing.	
	2.2 Integration Status SPIRE is in the flight configuration	
	SMEC EGSE harness is connected but EGSE box is not attached, shorting plugs not fitted Connectors covered with ESD caps.	
	SMEC harness to be removed including opening of MLI to allow access and shorting plugs to be fitted	OW ASED AIT
	Cryo conditions: He1 - Top up on going during the test (not known be OK for this SFT (check continue) Present condition is 5.3K on L3 T246 and T247	he TRR!)
	Present condition is 5.3K on L3 T246 and T247	
	SC Configuration:	
	SC is switched on in launch configuration CCU is switched on and operational.	
	2.3 Red/Green Tag status Shorting plugs to be fitted (see open work section)	



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Reference	Results	Remarks
	2.4 Parallel operations being performed He filling is being performed during the test Preparation for vibration can proceed MLI integration finalisation can proceed.	
	2.5 Constraints: Present condition is 5.3K on L3 T246 and T247 RAL agree to start at this temperature (JPL advise JFET switch on is not adversely affected by temperature) and will monitor the switch on in the case of no switch on jump from step 11 to 14 (photometer) Step 15 to 18 in case of Spectrometer	
	The following switch on levels will be used Switch on levels photometer -1.5V Spectrometer: SLW -1.5V SSW -2.4 and -2.6V	
	Spectrometer: SLW -1.5V	



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Reference	Results	Remarks
	2.6 Warm Unit temperature Limits Yellow limit is 44 degrees C _ Should be 40 (
	3. NCR / RFW Status:	
	New NCRs to be raised from Instrument SFT post acoustic	
	1) Pcalv expected was 0.026, actual value was 0.0206 on nom. side (Procedure § 7.2.3.5, step 1), on red. actual value was 0.019 (Procedure § 7.2.7.5, step 1)-Not affected by this test	
	2)SCALTEMP on red. side not compatible to prim. side (procedure 7.2.7.2 step 5) Not affected by this test.	
	NC-3996 JFET switch on voltage To be monitored during test	
	RFW none identified	



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Reference			Results			Remarks
	4. Open Work / Open Actions					
	Item	Description	Actionee	Status	Comment]
	1	SMEC harness to be removed including opening of MLI to allow access and shorting plugs to be fitted	ASED			
	.2	Set up and Connect IEGSE	RAL/ASED			
	3	Time sync CCS and IEGSE	RAL/ASED			
		P-2-ASED-SD-0370 calls up the	relevant sections	of HP-2-ASED-1	ΓP-0217 Issue 1.1	
		and redundant sides will be teste ill be modified accordingly.	ed, agreed with B.	Swinyard during	the meeting	
	SPIRE	CFT SPIRE_RAL_PRC_2398 is	ss 2.4			
	SPIREI	EGSE Setup SPIRE_RAL_DOC	C_002841 iss 2.2			



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Reference		Res	sults		Remarks
	6.Hazards and Hazardo No other safety issues re				
	7. Test Equipment / Fac	cility and Calibration St	atus		
	IEGSE is to be connecte	d to CCS			
	8. Cleanliness				
	CL 100000 ETS facility s 9. Test Personnel and I		MECH/2253		
	Responsibility	Name	Company	Contact Number	
	Test Director	B.Collaudin	TASF		
	Test Conductor	A.Koppe	ASED		
	SPIRE engineering	S.Sidher	RAL		
	SPIRE	E.Polehampton.	RAL		
	QA	T-Sehmidt 13 12099	ASED TASE		
	CCS	O.Martin	ASED		
	PA	D.Hendry	ASED		
	Instrument coordinator	M.Cesa	ESA		



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Reference	Results	Remarks
	10. Problem Areas	
	None identified	
	11. AOB	
	Planning: Test is scheduled to start at 16-30 duration 4 hrs nominal and redundant Spire will be available 17-00 hrs to assist in configuration.	
	12. Conclusion Testing can start after removal of SMEC GSE harness and installing of shorting plugs.	

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Action Item List

Herschel

Title:

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No.: Description:	Due Date	Originator Comp./Pers.	Actionee Comp./Pers.	Source	Completion
01			- Comp.,, Cro.		
02					
03					
				4	

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Open Work List

Herschel

Title:

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Item	Description	Actionee	Status	Comment
1.	SMEC harness to be removed including opening of MLI to allow access and shorting plugs to be fitted	ASED		
2	Set up and Connect IEGSE	RAL/ASED		
3	Time sync CCS and IEGSE	RAL/ASED		
4				

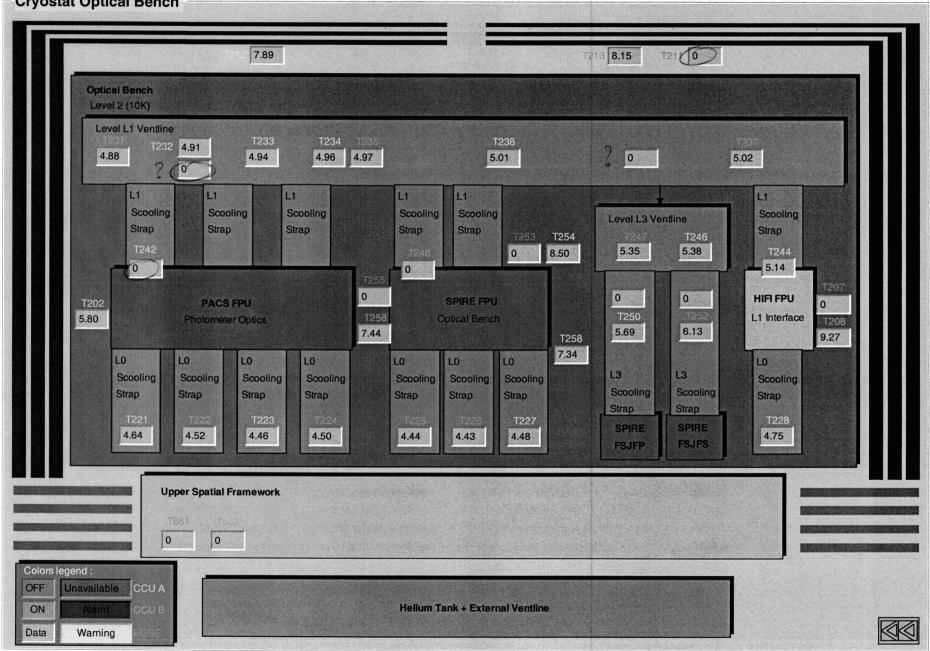
Test Conductor Approved	PA	TASF	Instrument

Note: To be completed and Signed off prior to start of the Test

DS: 65535 ID: CCU_OP Title: MIMICS DISPLAY Sample Time:

Cryostat Optical Bench

e Time: Workstation: hpws21



	А	В	ГСТ	D
1	NCR Nr	NCR Title	Model	
2				
3	HP-130000-ASED-NC-4278	Instrument Warm Units temperature limits	PFM	
	H-P-2-112000-ASED-NC-4223	SPIRE SMEC Launch Lock EGSE not	NA(GSE)	
4		properly functioning		
5	H-P-2-112000-ASED-NC-4222	SMEC mechanism friction behaviour in startregion	FM	
	H-P-ASED-112000-NC-4221	SPIRE Launch Lock does not open during	FM	
6		SMEC test on nominal side		
	H-P-000001-ESOC-629-4200	SPIRE: Checksum of first (patched) memory	FM	
7		area not as expected		
	H-P-000001-ESOC-628-4199	SPIRE: Invalid OOL checks	FM	
	H-P-000001-ESOC-626-4198	SPIRE - CALL_BOOT TC validation error	FM	
	H-P-000001-ESOC-625-4197	SPIRE: LS overflow error	FM	
11	H-P-000001-ESOC-561-4195	TM DPUM15V OOL for SPIRE	FM	
12	HP-130000-ASED-NC-4128	SPIRE goes to an improper status with jamming	FM	
13	H-P-000001-ESOC-560-4105	Missing textual calibration for SPIRE	FM	
14	HP-130000-ASED-NC-4086	IST Nominal Mode Robustness - SPIRE DPU BSW boot problem	FM	
15	HP-130000-ASED-NC-4070	AVM WU integration - SPIRE DPU BSW boot problem	AVM	
	HP-112000-ASED-NC-3996	SPIRE CFT JFET Switch on voltage level	PFM	
17	HP-112000-ASED-NC-3957	SPIRE SFT: Missing current parameter for LCL 25 & 26 (SPIRE LPU)	FM	
18	HP-130000-ASED-NC-3954	IST Spire DRCU current WM408565 reports higher than expected	FM	
19	HP-112000-ASED-NC-3725	SPIRE FM Detector Channel Anomalies during WFT	PFM	
20	HP-111000-ASED-NC-3698	HIFI warm SFT1 - command completion failure	FM	
21	HP-112000-ASED-NC-3616	SPIRE DPU Set Table TC acceptance not reported as acknowledged by CCS	FM	
22	HP-130000-ASED-NC-3572	SPIRE Unknown type (5,x) packet during SPIRE cooler recycle, RMS 48hrs	PFM	