EADS ASTRIUM

SPIRE-AST-MOM-002450

Minutes of Meeting

Date:	11.05.2005	**Herschel**	
Doc.-No.:	HP-2-ASED-MN-~~0955~~ 0990		
Meeting place:	EADS Astrium OTN	Chairman:	S.Idler/D:Hendry
Date/Time:	11.05.2005, 11:30	Secretary	S.Idler
Agenda dated:	TRR Std. Agenda on pg. 2	Close of Meeting:	

Subject: TRR for SPIRE Warm Units El. Integration

Participants:	C. Schlosser (ASED) D. Hendry (ASED) S. Idler (ASED) C. Scharmberg (ESA) G. Doubrovik (ALC) A. Aramburu (SPIRE) S. Sidher (SPIRE) S. Ilsen (ASED) M. Koelle (ASED)	Additional Distribution:	ESA, ASP

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☐ Brief-Minutes (except following sheets) ☐ Summary of Results of Sheets 2 till

Summary and Conclusion:

Testing can proceed as planned. All upcoming anomalies will be covered by NCR's (to be raised by ASED).

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Reference	Results	Remarks
	TRR Agenda : 1. As built / as designed configuration Status/Test Configuration 2. Inspection Status/Integration Status 3. NCR / RFW Status 4. Open Work / Open Actions 5. Test Procedure available / approved/Test Reports 6. Safety hazards and hazardous operations 7. Test equipment / facility and calibration status/EGSE Status 8. Cleanliness (facility cleanliness, cleanliness req. of item,..) 9. Test personnel and responsibilities 10. Problem Areas / Constraints 11. AOB 12. Conclusion	

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Reference	Results	Remarks
	1. As built / as designed configuration Status/Test Configuration Hardware configuration as per DRB (SCI-PT-35045). The primary power to the DPU (28 V) is supplied by the PLM SCOE. FCU/DCU are powered by the SPIRE Power Bench. The actual test configuration is described in ASED procedure HP-2-ASED-TP-0057, issue 1. WIH is integrated. Software configuration is as per Annex 1. Due to late delivery of MIB bridge files (this morning) only partial consistency check could be performed by ASED. **2. Inspection Status / Integration Status** Incoming inspection performed (HP-2-ASED-II-0101) WU integrated on SVM panel. Grounding completed. No bench test planned. **3. NCR / RFW Status** ASED NCR-0896 (ext. harness connection) is open but does not affect WU integration test (needs to be resolved prior to SFT). No RfW affecting the WU integration test.	

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Reference	Results	Remarks
	4. Open Work / Open Actions The open actions from DRB and PM #~~5~~ 15 have been reviewed. No open action items affecting the WU integration test with the exception of: • PM#15 SCI-PT-35157 AI#1 SPIRE to provide details (dimensions & constrains) concerning the power supply. • SPIRE WU DRB SCIPT-35045 AI#3 ABCL still has to be updated by SPIRE, and will be provided together with the hardware delivery (15/04/2005). Connection of power cable between SPIRE Power Bench and DRCU (will be connected after mounting of panel on SVM). **5. Test Procedure available / approved / Test Reports** Lead procedure is HP-2-ASED-PR-0051, issue 1 (procedure variation: SPIRE test prior to PACS test, updated call-up procedures). EGSE set-up procedure: HP-2-ASED-PR-0034, issue 1, 11.05.2005 Test procedure for el. interface test: HP-2-ASED-TP-0057, issue 1. Draft of this procedure has been reviewed and commented by SPIRE. Comments have been considered. Test procedure for functional check out after el. connection is SPIRE-RAL-PRC-002422 SPIRE Warm ~~Unit Checkout Procedure~~ Issue 1, 27.04.2005. Functional Test Procedures for the CCS ? IDAS tests ? This procedure is used for tests before & after integration with Cryoharness. **6. Safety hazards and hazardous operations** None.	

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Reference	Results	Remarks
	7. Test equipment / facility and calibration status/EGSE Status Test equipment configuration is as per test procedure (see item 5 above). **8. Cleanliness (facility cleanliness, cleanliness req. of item,..)** Checked during incoming inspection - no problems. **9. Test personnel and responsibilities** Test conductor: M. Koelle (ASED) CCS operator: S. Ilsen (ASED) El. interface test engineer: J. Schäffler, A. Grasl SPIRE I-EGSE operators: A. Aramburu (SPIRE) S. Sidher (SPIRE) PA: D. Hendry Witness: G. Doubrovik **10. Problem Areas / Constraints** Present MIB does not contain valid limit values. Procedure calls up parameters to be monitored (manual check on the monitor) and gives nom. values. No recovery actions or automatic monitoring is implemented. Monitoring and potential manual recovery actions are under SPIRE responsibility.	

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Reference	Results	Remarks
	11. AOB Planning: This afternoon: el. interface test as per HP-2-ASED-TP-0057. Tomorrow: WU functional test (with CCS) as per SPIRE-RAL-PRC-002422. Document "SPIRE Warm Unit checkout Procedure", SPIRE-RAL-NOT-002396, Issue 1.0, 27/4/05, lists the tests to be performed as described in detail in SPIRE-RAL-PRC-002422. **12. Conclusion** Testing can proceed as planned. All upcoming anomalies will be covered by NCR's (to be raised by ASED).	

Meeting: HP-2-ASED-MN-~~0955~~ 0970
Title: SPIRE WU TRR
Date: 11.05.2005

Action Item List

Herschel

No.:	Description:	Due Date	Originator Comp./Pers.	Actionee Comp./Pers.	Source	Completion

Instrument Test S/W Data Sheet ANNEX 1

Date:-11.05.05
Instrument:-SPIRE
Test configuration:-WU Check out test with CCS
Instrument Procedure Ref:-
ASED Procedure ref:-HP-2-ASED-PR-0051 Issue 1

SW Ident	Issue /Version	Responsible	Comment
Inst OBS	2.0.AVM 1	Inst	
Inst OBS	Boot SW June 2003	Inst	
CDMS Sim	Not used		
I-EGSE MIB	2.0.A1	Inst	SPIRE MIB Issue for CQM2
HCSS Build Version	638	Inst	10.05.05 loaded on I EGSE
SPIRE Build	144		10.05.05 loaded on I EGSE
TCL Scripts			
TCL Scripts bridge files	WFT SPIRE TCL Scripts 26/4/05		
CCS MIB	HERSCHEL_PLM_1_2 11.05.05	ASP	Loaded on CCS 11.05.05
CCS S/W Release	2.0.507	ASED	
CDMU DFE CMS	2.2.1.0		
CDMU DFE Pipe I/F (IPC Handler P7001)	~~2.1.0.0~~ 2.2.0.0		
CDMU DFE Pipe I/F (IPC Handler Pipe P 7002)	1.2.1.0		
PLM SCOE CMS	V 1.5.0.0		
Archive Browser			
PLM SCOE pipe I/F	V1.3.0.0		
PDU Controller	V1.5.0.0		

Notes:- LCL 10 to 14 not used as no monitoring is possible.
Spire use LCL 1 and 2 for power monitoring.

CDMU DFE
Versions on workstation:
Mil-STD-1553b BusMonitor v.1.11.1.87
HERSCHEL-PLANCK CDMU DFE CMS v.2.2.1.0
Herschel-Planck CDMU-DFE PIPE Interface v.1.2.1.0
Herschel-Planck CDMU-DFE PIPE Interface v.2.1.0.0

Versions on platform
SimFE v1.5.0.0
HLBC v01.05.00
MIL Bus Monitor Data Server: Mil1553 PCI/Px module:1 revision: 65

PLMSCOE
Versions on workstation:
PLM SCOE CMS v1.5.0.0
Herschel-Planck PLM-SCOE PIPE Interface v1.3.0.0

Versions on platform
PDU Controller Software v1.5.0.0

	Name	Dep./Comp.		Name	Dep./Comp.
	Alberti von Mathias Dr.	AOE22		Wagner Klaus	AOE22
	Barlage Bernhard	AED11	X	Wietbrock Walter	AET12
	Bayer Thomas	AOA52		Wöhler Hans	AOE22
	Fehringer Alexander	AOE13			
	Geiger Hermann	AOA52			
	Gerner Willi	AED11			
X	Grasl Andreas	OTN/AET52			
	Grasshoff Brigitte	AET12			
	Hauser Armin	AOE22			
X	Hendry David	Terma Resid.	X	Alcatel	ASP
	Hinger Jürgen	AOE22	X	ESA/ESTEC	ESA
X	Hohn Rüdiger	AED65			
	Huber Johann	AOA52		**Instruments:**	
	Hund Walter	ASE442		MPE (PACS)	MPE
X	Idler Siegmund	AED432	X	RAL (SPIRE)	RAL
X	Ilsen Stijn	Terma Resid.		SRON (HIFI)	SRON
	Iványi von András	FAE22			
	Jahn Gerd Dr.	AOE22		**Subcontractors:**	
	Kalde Clemens	APE3		Air Liquide, Space Department	AIR
X	Kameter Rudolf	OTN/AET52		Air Liquide, Space Department	AIRS
	Kettner Bernhard	AET42		Air Liquide, Orbital System	AIRT
	Knoblauch August	AET32		Alcatel Bell Space	ABSP
X	Koelle Markus	AOA53		Astrium Sub-Subsyst. & Equipment	ASSE
	Kroeker Jürgen	AED65		Austrian Aerospace	AAE
	Kunz Oliver Dr.	AOE22		Austrian Aerospace	AAEM
X	Lamprecht Ernst	OTN/ASI21		APCO Technologies S. A.	APCO
	Lang Jürgen	ASE442		Bieri Engineering B. V.	BIER
	Langfermann Michael	AOA51		BOC Edwards	BOCE
X	Mack Paul	OTN/AET52		Dutch Space Solar Arrays	DSSA
	Müller Jörg	AOA52		EADS CASA Espacio	CASA
X	Pastorino Michel	ASPI Resid.		EADS CASA Espacio	ECAS
	Peltz Heinz-Willi	AOE13		EADS Space Transportation	ASIP
	Pietroboni Karin	AED65		Eurocopter	ECD
	Platzer Wilhelm	AED22		European Test Services	ETS
	Rebholz Reinhold	AOA51		HTS AG Zürich	HTSZ
	Reuß Friedhelm	AED62		Linde	LIND
X	Rühe Wolfgang	AED65		Patria New Technologies Oy	PANT
	Runge Axel	OTN/AET52		Phoenix, Volkmarsen	PHOE
	Sachsse Bernt	AED21		Prototech AS	PROT
X	Schink Dietmar	AED44		QMC Instruments Ltd.	QMC
X	Schlosser Christian	OTN/AET52		Rembe, Brilon	REMB
	Schmidt Rudolf	FAE22		Rosemount Aerospace GmbH	ROSE
	Schweickert Gunn	AOE22		RYMSA, Radiación y Microondas S.A.	RYM
	Sonn Nico	AOE51		SENER Ingenieria SA	SEN
	Steininger Eric	AED44		Stöhr, Königsbrunn	STOE
X	Stritter Rene	AED11		Terma A/S, Herlev	TER
	Thörmer Klaus-Horst Dr.	OTN/AED65			