



Minutes of Meeting

Date:	19.10.2006	Herschel	
Doc.-No.:	HP-2-ASED-MN-1278		
Meeting place:	ESTEC Noordwijk	Chairman:	S. Idler
Date/Time:		Secretary	S. Idler
Agenda dated:	See HP-2-ASED-MN-1270	Close of Meeting:	

Subject: STM2 Straylight Test Checkpoint Meeting

Participants:	C. Jewell (ESA) <i>[Signature]</i> C. Scharmberg (ESA) <i>[Signature]</i> P. Martin (ASP) Y. Roche (ASP) <i>[Signature]</i> A. Knight (ASP) <i>[Signature]</i> B. Swinyard (RAL) <i>[Signature]</i> T. Lim (RAL) D. Hendry (ASED) <i>[Signature]</i> M. Langfermann (ASED) S. Idler (ASED) <i>[Signature]</i>	Additional Distribution:	ESA ASP
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Brief-Minutes (except following sheets)

Summary of Results of Sheets 2 till

Summary and Conclusion:

Straylight test released.



Reference	Results	Remarks
	<p data-bbox="400 422 526 454">Agenda:</p> <ol data-bbox="490 486 1400 630" style="list-style-type: none"><li data-bbox="490 486 1400 518">1. Check Status of Open Work / Open Actions identified in the TRR<li data-bbox="490 534 593 566">2. AOB<li data-bbox="490 582 683 614">3. Conclusion	



Reference	Results	Remarks
	<p>1. Check Status of Open Work / Open Actions identified in the TRR</p> <p>The following open work has been identified in the TRR:</p> <ul style="list-style-type: none"> • Completion of HTT filling Done (already prior to EMC test). Current level is 88%. Testing is possible to about 80% (>10 days testing). • Making HBB set up safe for non-horizontal use. Note: both alignment windows and band 3 window are to be illuminated. Activity ongoing. • Photoconductor problem to be resolved and set up to be completed (not blocking). SPIRE provided new amplifier and harness. Setup and check out will be done this morning. • QLA software problem to be resolved (not blocking). Resolved. • Completion of test reports by RAL (bench test, mating, SPIRE SFT cold, window heating) (not blocking) The following test reports have been generated: SPIRE bench test report SPIRE-RAL-REP-002744 Mating of SPIRE WU to FPU HP-2-ASED-SD-0126 SPIRE SFT cold report SPIRE-RAL-REP-002744 Window heating report SPIRE-RAL-NOT-002743 <ul style="list-style-type: none"> • Finalisation of straylight test prediction 	



Reference	Results	Remarks
	<p>Prediction provided in form of Excel sheet which allows to quickly calculate the relative straylight on the SPIRE pending the wavelength and temperature/emissivity of emitting surfaces. TN with actually measured cryostat/cryocover temperatures will be provided after completion of test.</p> <ul style="list-style-type: none"> • Check cryocover flushing for 80 K +/- 20 K with 1 K/h stability as goal Instead of stabilising at 80 K it is agreed to stop flushing at a certain point in time and let the cryocover warming up until quasi stabilisation (temperature rate < 10 K/h). From the experience gained during EMC test campaign this will be the case at approx. 100 K after 2 h warm up. • Fixation of HBB at cryostat (cryostat in tilted position). Will be done this morning. Note: Power leads for chopper are only about 2 m long. • Procedure for HBB operation (by RAL). How to operate is known by SPIRE. Will be written as run and attached to the test report. • Time synchronisation between IEGSE and Cryo SCOE to be checked (proposed to be verbally). Will be checked. Offset will be recorded in the log. • Safety briefing of RAL personnel. Will be arranged this morning. <p>2. AOB</p> <p>Cryocover temperature is currently at about 11K stable. The installed dewar will last about 2 h. A spare dewar is available.</p>	



Reference	Results	Remarks
	<p>After finalisation of SPIRE cooler recycle and reference load curve measurements the straylight test will start with illumination with HBB, as per procedure.</p> <p>SPIRE can be left switched on during night. SPIRE will check whether an automatic procedure can be established which allows monitoring straylight during night (when cryocover and shield temperatures are increasing).</p> <p>Over night the level 1 temperature will go up since flushing will be from HTT.</p> <p>3. Conclusion</p> <p>Straylight test released.</p>	



Action Item List

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

	Name	Dep./Comp.		Name	Dep./Comp.
X	Alberti von Mathias Dr.	ASG22		Schweickert Gunn	ASG22
	Barlage Bernhard	AED13		Steininger Eric	AED32
	Bayer Thomas	ASA42	X	Stritter Rene	AED11
	Brune Holger	ASA45		Suess Rudi	OTN/ASA44
	Edelhoff Dirk	AED2		Wagner Klaus	ASG22
	Fehringer Alexander	ASG13	X	Wietbrock Walter	AET12
X	Fricke Wolfgang Dr.	AED 65		Wöhler Hans	ASG22
	Geiger Hermann	ASA42		Wössner Ulrich	ASE252
	Grasl Andreas	OTN/ASA44			
	Grasshoff Brigitte	AET12			
	Hauser Armin	ASG22	X	Alcatel Alenia Space Cannes	ASP
X	Hendry David	Terma	X	ESA/ESTEC	ESA
	Hengstler Reinhold	ASA42			
	Hinger Jürgen	ASG22		Instruments:	
X	Hohn Rüdiger	AED65		MPE (PACS)	MPE
	Hölzie Edgar Dr.	AED32	X	RAL (SPIRE)	RAL
	Huber Johann	ASA42		SRON (HIFI)	SRON
	Hund Walter	ASE252		Subcontractors:	
X	Idler Siegmund	AED312		Air Liquide, Space Department	AIR
	Ivány von András	FAE12		Air Liquide, Space Department	AIRS
	Jahn Gerd Dr.	ASG22		Air Liquide, Orbital System	AIRT
	Kaide Clemens	ASM2		Alcatel Alenia Space Antwerp	ABSP
	Kameter Rudolf	OTN/ASA42		Austrian Aerospace	AAE
X	Kettner Bernhard	AET42		Austrian Aerospace	AAEM
	Knoblauch August	AET32		APCO Technologies S. A.	APCO
	Koehler Jess	AED32		Bieri Engineering B. V.	BIER
	Koelle Markus	ASA43		BOC Edwards	BOCE
	Koppe Axel	AED312		Dutch Space Solar Arrays	DSSA
X	Kroeker Jürgen	AED65		EADS Astrium Sub-Subsyst. & Equipment	ASSE
	La Gioia Valentina	Terma		EADS CASA Espacio	CASA
	Lamprecht Ernst	OTN/ASQ22		EADS CASA Espacio	ECAS
	Lang Jürgen	ASE252		EADS Space Transportation	ASIP
	Langenstein Rolf	AED15		Eurocopter	ECD
X	Langfermann Michael	ASA41		European Test Services	ETS
	Mattia Stefano	Terma		HTS AG Zürich	HTSZ
	Maukisch Jan	ASA43		Linde	LIND
	Much Christoph	ASA43		Neubert Jakob Dr.	Per e-mail
	Müller Jörg	ASA42		Patria New Technologies Oy	PANT
	Müller Martin	ASA43		Phoenix, Volkarsen	PHOE
	Peitz Heinz-Willi	ASG13		Prototech AS	PROT
	Pietroboni Karin	AED65		QMC Instruments Ltd.	QMC
	Platzer Wilhelm	AED2		Rembe, Brilon	REMB
	Reichle Konrad	ASA42		Rosemount Aerospace GmbH	ROSE
	Runge Axel	OTN/ASA44		RYMSA, Radiación y Microondas S.A.	RYM
X	Schink Dietmar	AED32		SENER Ingenieria SA	SEN
X	Schlosser Christian	OTN/ASA44		Stöhr, Königsbrunn	STOE
	Schmidt Rudolf	FAE12		Terma A/S, Herlev	TER