

<b>EADS Astrium GmbH</b>	<b>Incoming Inspection</b>		Doc.-No.: HP-2-ASED-11-0176
			Issue: _____ Date: 27/9/06
Item: SPIRE FCU. STM 2.		Sheet: 1 of 1	
Supplier: RAL.		Model: OM 2.	Received Date: 21/9/06
Drwg.-No.: SPIRE-RAL-PR-002181 ISS 1		Serial-No.:	Project: <b>Herschel</b>
			Subsystem: SPIRE.

No.	Item	Yes	No	Remarks
<b>1</b>	<b>Transportation Container, Outer Packing</b>			
a	Packing undamaged ?	✓		PARTICLE
b	Seals and straps intact ?	✓		CONTAMINATION INSIDE.
c	Correct Labelling ?	✓		SHOCK INDICATORS X 2 OK.
<b>2</b>	<b>Transportation Container, Inner Packing</b>			
a	Correct Identification (see heading) ?	✓		
b	Equipment correctly and safely packed ?	✓		
c	Equipment hermetically sealed ?	✓		
d	Packed with desiccants ?	✓		
e	Packed with humidity-indicators ?	✓		
f	Packed with shock-indicators ?	✓		
g	Packed with temperature-indicators ?		✓	
h	Container reusable and stackable ?	✓		
<b>3</b>	<b>Equipment</b>			
a	Identification correct ?	✓		
b	Screw sealings not broken ?	✓		
c	Surface finish undamaged and clean ?	✓		
d	Connector identification correct ?	✓		
e	Connector with protective caps ?			SEE SHEET 2.
f	Connector pins clean and undamaged ?	✓		
g	Mounting area clean and undamaged ?		✓	UNIT TO BE CLEANED.
h	Accessories ? Bonding points ? Covers ?			NO BONDING STRAP.
<b>4</b>	<b>Documentation</b>			
a	Shipping documentation ?	✓		
b	Log Sheets / Historical Records ?		✓	
c	Handling, Packing, Transport. Procedures ?	✓		TO BE UPDATED BY RAL
d	End Item Data Package (ICD) ?		✓	ON FTP SERVER.
e	Other Documentation		✓	
<b>5</b>	<b>Other notable defects ?</b>			SEE ATTACHED SHEETS.
<b>6</b>	<b>Released for :</b>			REPACK, CLEAN,

Remarks / Actions : SEE ATTACHED SHEETS.

Distribution : ESA, AAS-F, ASCD, RAL	Inspector : ASCD DWHendy.	ESA 	Date : 27/9/06
	Department :		

EADS Astrium GmbH	<b>Incoming Inspection</b> (Checklist for hi-rel space-application HW)	Doc.-No.: HP-2-ASED-11-0176 Issue: _____ Date: 27/9/06. Sheet: 2 of 2 Received Date: 21/9/06
Item: SPIRE FCU . STM 2.		
Supplier: RAL	Model: QM 2.	Project: Herschel
Drwg.-No.: 002181-1	Serial-No.:	Subsystem: SPIRE

Continuation-Sheet : PACKING OF UNIT.

- SINGLE FOIL, THEREFORE CONCLUDE HAS NOT BEEN PURGED.
- PROCEDURE DOES NOT DESCRIBE UNIT MOUNTING INSIDE TRANSPORT CONTAINER AND HANDLING I/F ADAPTOR.
- ONE SHOCK INDICATOR MOUNTED ON HANDLING I/F ADAPTOR.
- PROTECTION FOIL ON CONNECTORS (COPPER). J2, J30, J20, J18.
- RED PLASTIC CAPS ON CONNECTIONS J06, J08, J1, J29, J21, J25, J3, J13, J11, J23, ~~J~~ J19, J17.
- AL FOIL COVERS ON CONNECTORS. J39, J40, J7, J5, J33, J9
- 4 FIXATIONS USED TO I/F, NO WASHERS. NOMINAL 12, \*ONE LOOSE - ADJ TO J8.
- A4 DRGS NOT SATISFACTORY COPY. A2 ~~DRGS~~ DRGS TO BE PROVIDED BY RAL.
- J32 AND J36 NO COVERS.
- BRIDGE LOADS BETWEEN J31 - J10 AND J35, - J34.
- ALUM PLATES CCHK-I-FR TEMP-R
- SOME RED PLASTIC DUST CAPS VERY TIGHT. OTHERS LOOSE.
- PINS AND SOCKETS INSPECTED BUT NOT J17, J21, J07 COULD NOT REMOVE CAP

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**Continuation-Sheet :**

- GROUNDING STUD WITH NUT + WASHER OK  
NO GROUNDING WIRE.
- CLEANLINESS! - PARTICLES ON BLACK SURFACES,  
UNIT NEEDS TO BE CLEANED.
- FIT CHECK. WITHOUT FIXATIONS OK.
- UNIT REMOUNTED ON HANDLING FRAME  
ON CONTAINER BASE.
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ANNEX Photos

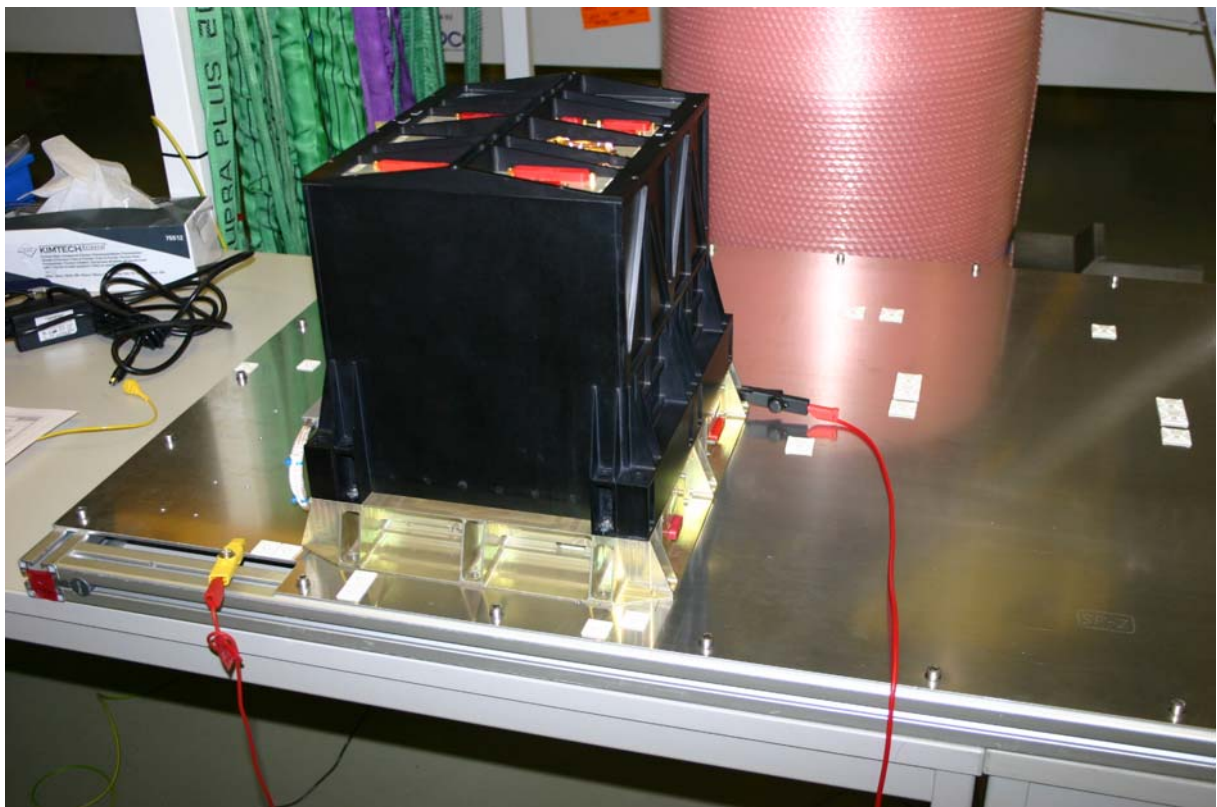


ANNEX Photos





ANNEX Photos



	Name	Dep./Comp.		Name	Dep./Comp.
	Alberti von Mathias Dr.	ASG22		Schweickert Gunn	ASG22
x	Barlage Bernhard	AED13		Steininger Eric	AED32
x	Bayer Thomas	ASA42	x	Stritter Rene	AED11
	Brune Holger	ASA45		Suess Rudi	OTN/ASA44
	Edelhoff Dirk	AED2		Thörmer Klaus-Horst Dr.	OTN/AED65
	Fehringer Alexander	ASG13		Wagner Klaus	ASG22
	Fricke Wolfgang Dr.	AED 65		Wietbrock Walter	AET12
	Geiger Hermann	ASA42		Wöhler Hans	ASG22
x	Grasl Andreas	OTN/ASA44			
	Grasshoff Brigitte	AET12			
	Hartmann Hans	AED32	x	Alcatel Alenia Space Cannes	ASP
	Hauser Armin	ASG22	x	ESA/ESTEC	ESA
x	Hendry David	Terma			
	Hengstler Reinhold	ASA42		<b>Instruments:</b>	
	Hinger Jürgen	ASG22		MPE (PACS)	MPE
x	Hohn Rüdiger	AED65	x	RAL (SPIRE)	RAL
	Hölzle Edgar Dr.	AED32		SRON (HIFI)	SRON
	Huber Johann	ASA42		<b>Subcontractors:</b>	
	Hund Walter	ASE252		Air Liquide, Space Department	AIR
x	Idler Siegmund	AED312		Air Liquide, Space Department	AIRS
	Ilsen Stijn	Terma		Air Liquide, Orbital System	AIRT
	Ivány von András	FAE12		Alcatel Alenia Space Antwerp	ABSP
	Jahn Gerd Dr.	ASG22		Austrian Aerospace	AAE
	Kalde Clemens	ASM2		Austrian Aerospace	AAEM
	Kameter Rudolf	OTN/ASA42		APCO Technologies S. A.	APCO
	Kettner Bernhard	AET42		Bieri Engineering B. V.	BIER
	Knoblauch August	AET32		BOC Edwards	BOCE
	Koelle Markus	ASA43		Dutch Space Solar Arrays	DSSA
	Koppe Axel	AED312		EADS Astrium Sub-Subsyst. & Equipment	ASSE
	Kroeker Jürgen	AED65		EADS CASA Espacio	CASA
	La Gioia Valentina	Terma		EADS CASA Espacio	ECAS
x	Lamprecht Ernst	OTN/ASQ22		EADS Space Transportation	ASIP
x	Lang Jürgen	ASE252		Eurocopter	ECD
x	Langenstein Rolf	AED15		European Test Services	ETS
x	Langfermann Michael	ASA41		HTS AG Zürich	HTSZ
	Much Christoph	ASA43		Linde	LIND
	Müller Jörg	ASA42		Patria New Technologies Oy	PANT
	Müller Martin	ASA43		Phoenix, Volkmarshen	PHOE
	Peltz 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
	Schink Dietmar	AED32		SENER Ingenieria SA	SEN
x	Schlosser Christian	OTN/ASA44		Stöhr, Königsbrunn	STOE
	Schmidt Rudolf	FAE12		Terma A/S, Herlev	TER