


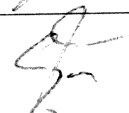
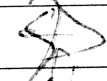



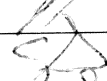
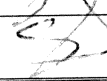

<b>EADS Astrium</b> HERSCHEL H-EPLM	ACTIVITY CONTROL SHEET	HP-2-ASED-SD-0127 Iss: 1	Page 1 of 3
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Location : ESTEC	Title: Integration of SPIRE SVM Dummy Panels inclusive Warm Units		
Facility : Class 100 000	Model: PFM	Subsystem: - Z panel (EQM); TTAP	Date: 05.10.2006
CI No	Activity Control Sheet Conductor:	H. Geiger (ASED)	NCR
	Prepared By:	Th. Bayer (ASED)	CIL No:

<b>Scope:</b> these ACS describes the integration of the -Z SVM dummy panel (SPIRE warm units) onto the TTAP	<b>Procedures and reference documents:-</b>		
<b>Facilities required:</b>	Status: S/C integrated into MPT, x achse vertical, attachment panel pre-integrated, Fit check with empty panel done: CR 100 000 in Fj 008. SPIRE panel pre-mounted (warm units: DPU, DCU; FCU; WIH partly; 5 EQM SIH SVM harness; MIL-bus 1553 I/F; power I/F)	<b>Drawings: CASA: HP00HB0000P04</b> <b>CASA: HP00HD0000P05</b> <b>ALENIA: 0200HP003</b> <b>NEXANS: HP-NXH-DW-1022</b>	
	AIT personnel for operation: 2 Mechaniker, 2 Elektriker; 1 ESD Elektriker, 1 PA		
<b>Safety and Hazards:</b>	Generelle ESD Regularien sind zu beachten.		
<b>Constraints:</b>	Class 100 000clean room		

No:	Activity	Proc/Drwg	Results	Responsible & sign off
1	<b>Attention: before any handling activities check the proper grounding!</b> <b>The use of the crane only in slow motion!</b>		10.10.06 o.b. ✓	
2	Remove the 4 Load Spreaders.		10.10.06 o.b.	[Signature]
3	Remove the green tension belt		N/A Panel by Hand	
4	Remove of the front platform 5.2 (east) by crane (long slings), place on RR floor		N/A	
5	Fix the panel with the red (non metallic) slings to the crane, 2 eye-bolts are pre-mounted.		10.10.06 o.b. but green slings	[Signature]

Release AIT:	Release SE:	Release PA/Safety:	Sign off (PA/QC/Team Leader)
10.10.06 [Signature]		10.10.06 [Signature]	10.10.06 [Signature]

No:	Activity	Proc/Drwg	Results	Responsible & sign off
6	Lift the panel very carefully by crane and support/guide this movement by two persons. <b>NOTE: panel and personal has to be grounded during all movements</b>		10.10.06 o.g.	
7	Place the panel from above (atop the Anaconda) on the - Z axis along the platform downwards until you reach the lower end of the fixation brackets.		Panel from lower side 10.10.06 o.g.	
8	Adjust the panel by two persons in vertical direction		10.10.06 o.g.	
9	Move the panel very carefully in S direction (towards the IAD) until the slot nuts and item profile nut matches.		10.10.06 o.g.	
10	Lift the Panel very carefully by crane/hand and mount the slot stones into the nut.		10.10.06 o.g.	
11	<b>Attention: during lifting take care for the distance between warm units and IAD/clamp band!</b>		10.10.06 o.g.	
12	Lift the panel to the appropriate height (depends on the harness length)		10.10.06 o.g.	
13	Fix the 8 screws of the fixation brackets	t: 70Nm	10.10.06 o.g.	
14	Remove the crane.		10.10.06 o.g.	

	Name	Dep./Comp.		Name	Dep./Comp.
✗	Alberti von Mathias Dr.	ASG22		Schweickert Gunn	ASG22
	Barlage Bernhard	AED13		Steininger Eric	AED32
✗	Bayer Thomas	ASA42	✗	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
✗	Grasl Andreas	OTN/ASA44			
✗	Grasshoff Brigitte	AET12			
	Hartmann Hans	AED32		Alcatel Alenia Space Cannes	ASP
	Hauser Armin	ASG22	✗	ESA/ESTEC	ESA
✗	Hendry David	Terma			
✗	Hengstler Reinhold	ASA42		<b>Instruments:</b>	
	Hinger Jürgen	ASG22		MPE (PACS)	MPE
✗	Hohn Rüdiger	AED65	✗	RAL (SPIRE)	RAL
	Hölzle Edgar Dr.	AED32		SRON (HIFI)	SRON
	Huber Johann	ASA42		<b>Subcontractors:</b>	
✗	Hund Walter	ASE252		Air Liquide, Space Department	AIR
	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
	Lamprecht Ernst	OTN/ASQ22		EADS Space Transportation	ASIP
	Lang Jürgen	ASE252		Eurocopter	ECD
✗	Langenstein Rolf	AED15		European Test Services	ETS
	Langfermann Michael	ASA41		HTS AG Zürich	HTSZ
	Much Christoph	ASA43		Linde	LIND
	Müller Jörg	ASA42		Patria New Technologies Oy	PANT
	Müller Martin	ASA43		Phoenix, Volkmarsen	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
	Schlosser Christian	OTN/ASA44		Stöhr, Königsbrunn	STOE
	Schmidt Rudolf	FAE12		Terma A/S, Herlev	TER

Location : ESTEC	Title: Integration of SPIRE SVM Dummy Panels inclusive Warm Units <i>Removal</i>		
Facility : Class 100 000	Model: PFM	Subsystem: - Z panel (EQM); TTAP	Date: 05.10.2006
CI No	Activity Control Sheet Conductor:	H. Geiger (ASED)	NCR CIL No:
	Prepared By:	Th. Bayer (ASED)	

<b>Scope:</b> these ACS describes the integration of the -Z SVM dummy panel (SPIRE warm units) onto the TTAP	<b>Procedures and reference documents:-</b> <i>Reverse Sequence</i>
<b>Facilities required:</b>	Status: S/C integrated into MPT, x achse vertical, attachment panel pre-integrated, Fit check with empty panel done: CR 100 000 in Fj 008. SPIRE panel pre-mounted (warm units: DPU, DCU; FCU; WIH partly; 5 EQM SIH SVM harness; MIL-bus 1553 I/F; power I/F)
	<b>Drawings: CASA: HP00HB0000P04 CASA: HP00HD0000P05 ALENIA: 0200HP003 NEXANS: HP-NXH-DW-1022</b>
	AIT personnel for operation: 2 Mechanical, 2 Electrical; 1 ESD Electrical, 1 PA
<b>Safety and Hazards:</b>	General ESD regulations are to be considered
<b>Constraints:</b>	Class 100 000 clean room

No:	Activity	Proc/Drwg	Results	Responsible & sign off
1	<b>Attention: before any handling activities check the proper grounding!</b> <b>The use of the crane only in slow motion!</b>			
2	Remove the 4 Load Spreaders.		<i>o.k. 25.10.06</i>	<i>Geiger</i>
3	Remove the green tension belt		<i>o.k. 25.10.06</i>	<i>Geiger</i>
4	Remove of the front platform 5.2 (east) by crane (long slings), place on RR floor		<i>N/A Lifting by Hand</i>	<i>Geiger</i>
5	Fix the panel with the red (non metallic) slings to the crane, 2 eye-bolts are pre-mounted.		<i>installed the platform</i>	<i>Geiger</i>
			<i>o.k. 25.10.06</i>	

Release AIT: <i>25.10.06</i> <i>Th. Bayer</i>	Release SE:	Release PA/Safety: <i>2/2</i> <i>25.10.06</i>	Sign off (PA/QC/Team Leader) <i>2/2</i> <i>25.10.06</i>
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No:	Activity	Proc/Drwg	Results	Responsible & sign off
6	Lift the panel very carefully by crane and support/guide this movement by two persons. <b>NOTE: panel and personal has to be grounded during all movements</b>		O.G. 25.10.06	<i>Guigo</i>
7	Place the panel from above (atop the Anaconda) on the - Z axis along the platform downwards until you reach the lower end of the fixation brackets.		O.G. 25.10.06	<i>Guigo</i>
8	Adjust the panel by two persons in vertical direction		O.G. 25.10.06	<i>Guigo</i>
9	Move the panel very carefully in S direction (towards the IAD) until the slot nuts and item profile nut matches.		O.G. 25.10.06	<i>Guigo</i>
10	Lift the Panel very carefully by crane/hand and mount the slot stones into the nut.		O.G. 25.10.06	<i>Guigo</i>
11	<b>Attention: during lifting take care for the distance between warm units and IAD/clamp band!</b>		O.G. 25.10.06	<i>Guigo</i>
12	Lift the panel to the appropriate height (depends on the harness length)		O.G. 25.10.06	<i>Guigo</i>
13	Fix the 8 screws of the fixation brackets		open the 8 screws *	<i>Guigo</i>
14	Remove the crane.		install the crane	<i>Guigo</i>

\* Removed the stones into the nut.

	Name	Dep./Comp.		Name	Dep./Comp.
✗	Alberti von Mathias Dr.	ASG22		Schweickert Gunn	ASG22
	Barlage Bernhard	AED13		Steininger Eric	AED32
✗	Bayer Thomas	ASA42	✗	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
✗	Grasl Andreas	OTN/ASA44			
✗	Grasshoff Brigitte	AET12			
	Hartmann Hans	AED32		Alcatel Alenia Space Cannes	ASP
	Hauser Armin	ASG22	✗	ESA/ESTEC	ESA
✗	Hendry David	Terma			
✗	Hengstler Reinhold	ASA42		<b>Instruments:</b>	
	Hinger Jürgen	ASG22		MPE (PACS)	MPE
✗	Hohn Rüdiger	AED65	✗	RAL (SPIRE)	RAL
	Hölzle Edgar Dr.	AED32		SRON (HIFI)	SRON
	Huber Johann	ASA42		<b>Subcontractors:</b>	
✗	Hund Walter	ASE252		Air Liquide, Space Department	AIR
	Idler Siegmund	AED312		Air Liquide, Space Department	AIRS
	Ilse 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
	Lamprecht Ernst	OTN/ASQ22		EADS Space Transportation	ASIP
	Lang Jürgen	ASE252		Eurocopter	ECD
✗	Langenstein Rolf	AED15		European Test Services	ETS
	Langfermann Michael	ASA41		HTS AG Zürich	HTSZ
	Much Christoph	ASA43		Linde	LIND
	Müller Jörg	ASA42		Patria New Technologies Oy	PANT
	Müller Martin	ASA43		Phoenix, Volkmarsen	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
	Schlosser Christian	OTN/ASA44		Stöhr, Königsbrunn	STOE
	Schmidt Rudolf	FAE12		Terma A/S, Herlev	TER