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Reference:  
HP-ASED-FX-0005-05

Date:  
13.01.2005

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**Subject: EQM Instrument AIT Status and Planning Update**  
**Reference: HP-ASED-FX-0610-04**

Dear Sirs

By end of the last year we received the third instrument at Astrium Ottobrunn. It is therefore now worth to summarize the current status of instrument delivery and integration.

In the second part of this fax we present the updated instrument AIT near term planning and finally a forecast for the instrument tests.

Page 1 of 4



From: C. Schlosser  
 Ref.: HP-ASED-FX-0005-05  
 Date: 13.01.2005  
 -2-

**HIFI:**

Unit	Date	Status
FPU	20.12.04	Delivered to ASED
	21.12.04	Bench test with FCU and HIFI EGSE
	11.01.05	Integration onto optical bench
FCU	20.12.04	Delivered to ASED
	21.12.04	Used for bench test
	21.12.04	Stored in CR 100.000
IFH		Not yet delivered
LOU		Not yet delivered
LCU		Not yet delivered
LSU		Not yet delivered
WEH		Not yet delivered
WOH		Not yet delivered
HRH		Not yet delivered
ICU		Not yet delivered

**PACS:**

Unit	Date	Status
FPU	26.11.04	Delivery to ASED
	03.12.04	Bench test
	16.12.05	Integration onto optical bench
DPU BOLC SPU	10.12.04	Delivery to ASED
	13.12.04	Integration onto SVM simulator plate
	15.12.04	WU bench tests completed
	17.12.04	WU tests with PLM EGSE (powered by instrument EGSE)
	20.12.04	Fixation of grounding straps / Integration onto SVM simulator completed
DEC/MEC	10.12.04	Delivery to ASED
	13.12.04	Integration onto SVM simulator plate
	15.12.04	WU bench tests completed
	17.12.04	WU tests with PLM EGSE
	20.12.04	Fixation of grounding straps
	20.12.04	DEC/MEC removed from SVM simulator plate and <b>sent back to PACS</b>



From: C. Schlosser  
 Ref.: HP-ASED-FX-0005-05  
 Date: 13.01.2005  
 -3-

**SPIRE:**

Unit	Date	Status
FPU	16.11.04	Delivery to ASED
	22.11.04	Delivery of 2 <sup>nd</sup> J-FET unit
	25.11.04	Bench test completed
	09.12.04	Fit-check on optical bench -> NCR
	20.12.04	<b>FPU sent back to RAL</b>
DPU DCU FCU Ext. power supplies	16.11.04	Delivered to ASED
	30.11.04	Warm units fit check on SVM simulator panel (without fixation of grounding straps and interconnection harness)
	01.12.04	WU bench tests completed
	03.12.04	WU tests with PLM EGSE
	13.12.04	<b>sent back to RAL</b>

In the near future the following activities are planned, where instrument attendance is expected:

Activity	Start	End	Remark
SPIRE re-delivery	18.01.05	18.01.05	
SPIRE unpacking and bench test	19.01.05	19.01.05	
SPIRE FPU Integration onto OB	20.01.05	21.01.05	
SPIRE thermal strap exchange	25.01.05	25.01.05	
HIFI warm units delivery to ASED	28.01.05	28.01.05	tbc by ESA
HIFI warm units integration	31.01.05	01.02.05	Fixation of grounding straps and WIH
HIFI WU bench test	01.02.05	01.02.05	
HIFI WU test with PLM EGSE	02.02.05	03.02.05	
HIFI warm unit removal	04.02.05	04.02.05	to be sent back to SRON
Fixation of cooling straps to instrument FPU's	17.02.05	22.02.05	support from PACS expected on 1-2 day(s)
SPIRE warm units delivery	11.03.05	11.03.05	Latest delivery date
SPIRE warm units integration	14.03.05	16.03.05	Fixation of grounding straps and WIH
PACS DEC/MEC delivery and integration	09.03.05	11.03.05	Latest delivery date
HIFI warm units delivery	21.03.05	21.03.05	Latest delivery date
HIFI warm units integration	22.03.05	24.03.05	mech. and electrical integration
Connection of SIH to FPU	09.03.05	18.03.05	After verification of complete SIH from WU connectors to FPU connectors
Connection of PACS WU with SIH	18.03.05	22.03.05	



From: C. Schlosser  
 Ref.: HP-ASED-FX-0005-05  
 Date: 13.01.2005

-4-

Activity	Start	End	Remark
PACS functional test warm	22.03.05	22.03.05	
Connection of SPIRE WU with SIH	23.03.05	29.03.05	
SPIRE functional test warm	29.03.05	30.03.05	
Connection of HIFI WU with SIH	31.03.05	01.04.05	
HIFI functional test warm	01.04.05	04.04.05	
LOU delivery	11.04.05	11.04.05	Latest delivery date
LOU Integration	22.04.05	26.04.05	

After completing the instrument functional tests the PLM cryostat will be closed, the PLM external integration will be completed and the SVM simulator will be mated with the PLM.

The planning as currently foreseen for instrument test activities as part of the EQM test programme is given in the table below:

Activity	Start	End	Remark
Connection of warm units	17.05.05	23.05.05	After SVM simulator mating
Instrument warm functional tests	25.05.05	30.05.05	
Cool-down and filling	04.06.05	13.06.05	instruments are invited to follow cool-down
Short functional test at He I temps.	10.06.05	13.06.05	
Short functional test at He II temps.	14.06.05	15.06.05	
IMT HIFI	17.06.05	23.06.05	detailed planning to be established
IMT PACS	23.06.05	29.06.05	- " -
IMT SPIRE	29.06.05	05.07.05	- " -
IMT PACS/SPIRE	05.07.05	11.07.05	- " -
EMC Test SPIRE	11.07.05	15.07.05	- " -
EMC Test PACS	15.07.05	21.07.05	- " -
EMC Test PACS/SPIRE	21.07.05	27.07.05	- " -
EMC Test HIFI	27.07.05	02.08.06	- " -

Kind regards

**EADS ASTRIUM**

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