

**Minutes of Meeting**

Date: 06.12.2005

**Herschel**

Doc.-No.: HP-2-ASED-MN-1133

Meeting place: Telecon	Chairman: C. Schlosser
Date/Time: 06.12.2005 / 14:00	Secretary: C. Schlosser
Agenda dated: 05.12.2005	Close of Meeting: 06.12.2005

Subject: EQM Warm unit Removal - Coordination Meeting

Participants: O. Bauer (MPE) E. Sawyer (RAL) W. Luinge (SRON) C. Jewell (ESA) W. Pinter-Krainer (ESA) C. Scharmberg (ESA) B. Collaudin (ASP) C. Schlosser (ASED) D. Hendry (ASED) S. Idler (ASED)	Additional Distribution: ESA ASP
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<input type="checkbox"/> Brief-Minutes (except following sheets)	<input type="checkbox"/> Summary of Results of Sheets 2 till
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Conclusion:

Agreement reached on the way to remove the warm units and when the warm units will be sent back to instruments.



Reference	Results	Remarks
	<p><b>Agenda</b></p> <ol style="list-style-type: none"> <li>1. Steps to Remove Warm Units - ESD Constraints</li> <li>2. Schedule</li> <li>3. AOB</li> </ol> <p><b>1. Steps to Remove Warm Units - ESD Constraints</b></p> <p>Instrument needs on warm units:</p> <p>SPIRE:</p> <ul style="list-style-type: none"> <li>- No warm units needed before removal of FPU -&gt; keep the warm units installed</li> </ul> <p>HIFI:</p> <ul style="list-style-type: none"> <li>- HIFI needs LSU simulator, warm units and LOU as soon as possible -&gt; HIFI will provide a disconnection and de-integration procedure        As a consequence HIFI cannot monitor the warming up process</li> </ul> <p>PACS:</p> <ul style="list-style-type: none"> <li>- No warm units needed before removal of FPU -&gt; keep the warm units installed</li> </ul> <p>SPIRE and PACS will provide as well a disconnection and de-integration procedure (or will confirm that the procedure has already been provided).</p> <p>As long as the FPU's are not accessible it is not possible to disconnect the SIH by simply doing the connection-steps in reverse direction.</p> <p>The following possibility to remove the HIFI warm units as soon as possible have been discussed:</p> <ul style="list-style-type: none"> <li>- Disconnect the SVM part of the SIH from the external SIH at the SVM I/F bracket and install ESD caps on the external SIH to secure the FPU's (ASED task)</li> <li>- Disconnect EGSE harness (power, 1553 bus, time synchronisation) at the SVM panel interfaces (ASED task)</li> </ul>	<p>AI 01: HIFI (09.12.05)</p>



Reference	Results	Remarks														
	<ul style="list-style-type: none"> <li>- Loose the SVM SIH fixations on the SVM upper closure panel (ASED task)</li> <li>- Remove the SVM instrument panels (ASED task)</li> <li>- Disconnect EGSE harness from warm units (ASED task)</li> <li>- Disconnect SIH from warm units (instrument task)</li> <li>- Remove warm units (instrument task)</li> <li>- Packing and transport of warm units (instrument task)</li> </ul> <p>The HIFI LSU simulator has to be removed from HIFI before ASED can remove the HIFI panels.</p> <p>For above activities the PLM/SVM has to be removed from the test dolly.</p> <p>The instruments agree to above version a). The ESD constraints are sufficiently fulfilled by the ESD caps. Standard ESD constraints (e.g. wrist straps or adequate ESD cloths) will be regarded during all disconnection and connection activities.</p> <p><b>2. Schedule</b></p> <p>The near term schedule is as follows:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">12.12.05 - 14.12.05</td> <td>EMC test completion</td> </tr> <tr> <td>14.12.05 (15.12.05)</td> <td>warm up to He I temperatures</td> </tr> <tr> <td>14.12.05 (15.12.05)</td> <td>Instrument SFTs at He I</td> </tr> <tr> <td>15.12.05</td> <td>earliest start of warm up</td> </tr> <tr> <td>15.12.05 - 23.12.05</td> <td>Removal of PLM/SVM from test dolly and set-up on ground, preparation of instrument panel removal,</td> </tr> <tr> <td>09.01.06</td> <td>Start disconnect warm unit and remove instrument panels from SVM simulator</td> </tr> <tr> <td>10.01.06</td> <td>LOU removal, HIFI panel removal</td> </tr> </table>	12.12.05 - 14.12.05	EMC test completion	14.12.05 (15.12.05)	warm up to He I temperatures	14.12.05 (15.12.05)	Instrument SFTs at He I	15.12.05	earliest start of warm up	15.12.05 - 23.12.05	Removal of PLM/SVM from test dolly and set-up on ground, preparation of instrument panel removal,	09.01.06	Start disconnect warm unit and remove instrument panels from SVM simulator	10.01.06	LOU removal, HIFI panel removal	
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	<p>Because of this schedule, HIFI prefers to get the LSU simulator back as soon as possible. LSU simulator is not needed for the straylight tests and for the SPIRE EMC test. ASED will check whether the LSU simulator can be dismantled after completing HIFI test. It is proposed to do that early next week.</p> <p>ASED will provide the planning details for FPU disconnection and removal from the EQM.</p> <p>I-EGSE will be packed by PACS and shall be sent to AAS-I Turin (2 units) and to FM testing at ESTEC or ASED-FN (3 units) mid January 2006.</p> <p>AAS-F will clarify where and when the CCS light and the PLM EGSE shall be sent to.</p> <p><b>3. AOB</b></p> <p>Remove panels on +z-side, remove working platform, remove SPIRE EGSE, tilt PLM/SVM back to vertical, prepare PLM hoisting, remove shielding for EMC tests</p> <p>Connect PLM hoisting, remove Y0601 line, hoist PLM/SVM, remove test dolly, put PLM/SVM on ground, re-connect Y0601, disconnect PLM EGSE</p> <p>disconnect SIH at SVM brackets (install ESD caps), remove SIH fixations on SVM upper plate</p>	<p>AI 02: ASED</p> <p>AI 03: AAS-F</p>



### Action Items List

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