



Minutes of Meeting

Date: 13.09.06

Herschel

Doc.-No.: HP-2-ASED-MN-1257

Meeting place: ESTEC

Chairman: R.Hohn

Date/Time:

Secretary D.Hendry

Agenda dated: Agenda on pg. 2

Close of Meeting:

Subject: SPIRE EMC and Stray Light Preparation

Participants: F.Pedersen ESA
C.Scharmberg ESA
D. Griffin RAL
R.Hohn ASED
D.Hendry ASED

Additional ESA,
Distribution: ASP

[Handwritten signatures and notes: "A. Scharberg", "D. Griffin", "D. Hendry"]

Page: 1 of Page(s)

Brief-Minutes (except following sheets)

Summary of Results of Sheets 2 till

Summary and Conclusion :

See text hereafter



| Reference | Results | Remarks |
|-----------|---|-----------------|
| | <p>Agenda :</p> <p>Working Meeting no specific agenda</p> <p>1. Introduction The SPIRE RAL representative together with ESA EMC engineering were to assess the positioning and fitting of external filters on the SIH CVV external harness and the SIH SVM harness and to discuss the preparations for the forthcoming EMC and staylight tests.</p> <p>2.Measurement of harness bundles and fit check of the sample external filter.</p> <p>The filter is intended to be fitted around the harness bundles and is a split cylinder held and clamped by a plastic case. The internal diameter of the Filter was sufficient for the CVV external bundles but not for the SVM bundles. A bigger diameter filter is needed and will be procured by RAL.</p> <p>The SVM bundles were measured as follows:- SIH-SS-01= 16.6 mm 03= 16mm 06=15mm 10=12.5 mm 11=12.8 mm</p> | <p>Note RAL</p> |



| Reference | Results | Remarks |
|-----------|--|--|
| | <p>3.Filters Materials and processes. The materials and process for the Filter will need to be provided (for FM configuration and if the filters are to remain fitted for STM2 TV).</p> <p>4. Positioning and fixation of the Filters RAL and ESA should provide details of the positioning and fixation of the filters for the STM2 EMC test.</p> <p>5:EQM SVM SIM Panel For the WU configuration RAL advise that the I/F of DCU and FCU intended for the STM2 testing are to the FM ICD IID B Issue 4, whereas the units used for EQM testing had a different I/F and foot print , this means that the EQM SVM SIM Panel will need to be modified prior to fit check and mechanical integration of the units. A fit check of the EQM SVM SIM panel will be performed and again improved access is required.</p> <p>6. EMC Test set up and Access. The present Cryostat set up is within the Herschel filling and working platform which is also used to support the transfer lines and dewars for flushing. This configuration will need to be changed to allow access for the EMC test setup and supporting test equipment. ESA and SPIRE asked ASED to partially remove the working platform during EMC tests, at least at the side where the SPIRE WU,s are mounted, in order to minimize potential reflection during radiated susceptibility tests. The Cryostat will also have to be tilted for cooler recycling, RAL advise that for the testing the cryostat can stay in the tilted configuration (-y LOU windows looking down).</p> <p>7. Cryo cover flushing The set up for the cryo cover flushing will also need to be installed and supported.</p> | <p>Note RAL</p> <p>Note RAL</p> <p>Note ASED</p> <p>Note ASED</p> <p>Note ASED</p> <p>Note RAL</p> |



| Reference | Results | Remarks |
|-----------|--|---------------------------------|
| | <p>8. WU Delivery ASED request that the WU are delivered together with the supporting documentation and procedures on or before 19.09.06 (See attached e- mail)</p> <p>9. IEGSE and Test equipment. ASED request that the IEGSE and all necessary test equipment from RAL should be delivered together with the WUs.</p> <p>10. 1553 link This will need to be approx 20 m long</p> <p>11. Hand over meeting The WU hand over meeting and incoming inspection should be supported by all levels and can be held at ETS, date and time to be confirmed.</p> | <p>Note RAL</p> <p>Note All</p> |

Meeting:
Title:
Date:

Action Item List

Herschel

| No.: | Description: | Due Date | Originator Comp./Pers. | Actionee Comp./Pers. | Source | Completion |
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| | Name | Dep./Comp. | | Name | Dep./Comp. |
|---|-------------------------|------------|---|---------------------------------------|------------|
| X | 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 |
| X | Fricke Wolfgang Dr. | AED 65 | | Wietbrock Walter | AET12 |
| | Geiger Hermann | ASA42 | | Wöhler Hans | ASG22 |
| | 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 | | Instruments: | |
| | Hinger Jürgen | ASG22 | | MPE (PACS) | MPE |
| X | Hohn Rüdiger | AED65 | X | RAL (SPIRE) | RAL |
| | Hözl Edgar Dr. | AED32 | | SRON (HIFI) | SRON |
| | Huber Johann | ASA42 | | Subcontractors: | |
| | Hund Walter | ASE252 | | Air Liquide, Space Department | AIR |
| X | Idler Siegmund | AED312 | | Air Liquide, Space Department | AIRS |
| | Ilse Stijn | Terma | | Air Liquide, Orbital System | AIRT |
| | Ivány von Andrés | 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 |
| X | Koelle Markus | ASA43 | | Dutch Space Solar Arrays | DSSA |
| | Koppe Axel | AED312 | | EADS Astrium Sub-Subsyst. & Equipment | ASSE |
| X | Kroeker Jürgen | AED65 | | EADS CASA Espacio | CASA |
| X | 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, 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 |
| X | Schlosser Christian | OTN/ASA44 | | Stöhr, Königsbrunn | STOE |
| | Schmidt Rudolf | FAE12 | | Terma A/S, Herlev | TER |