

| EADS Astrium GmbH | | Incoming Inspection | | Doc.-No.: HP-2-ASED-11-0177 | |
|---------------------------------------|--|-------------------------------|----|--|--|
| Item: SPIRE DCU. STM 2. | | Supplier: RAL. | | Issue: Date: 27/9/06. | |
| Drwg.-No.: SPIRE-RAL-PRC-002181 ISS 1 | | Model: QM 2. | | Sheet: 1 of 2 | |
| Serial-No.: | | Project: Herschel | | Received Date: 21/9/06 | |
| Subsystem: SPIRE | | | | | |
| No. | Item | Yes | No | Remarks | |
| 1 | Transportation Container, Outer Packing | | | | |
| | a Packing undamaged ? | ✓ | | | |
| | b Seals and straps intact ? | ✓ | | 1 EXTERNAL SHOCK INDICATOR. | |
| | c Correct Labelling ? | ✓ | | | |
| 2 | Transportation Container, Inner Packing | | | | |
| | a Correct Identification (see heading) ? | ✓ | | | |
| | b Equipment correctly and safely packed ? | | ✓ | SINGLE FOIL | |
| | 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 ? | ✓ | | | |
| 3 | Equipment | | | | |
| | a Identification correct ? | | ✓ | TO BE REMARKED BY RAL | |
| | b Screw sealings not broken ? | | ✓ | SINGLE FOIL COVER ONLY | |
| | c Surface finish undamaged and clean ? | | ✓ | TO BE CLEANED. | |
| | d Connector identification correct ? | | | SEE ATTACHED SHEET. | |
| | e Connector with protective caps ? | | | — 1. — | |
| | f Connector pins clean and undamaged ? | ✓ | | | |
| | g Mounting area clean and undamaged ? | | | SEE SHEET 2. | |
| | h Accessories ? Bonding points ? Covers ? | ✓ | | NO BONDING STRAP SUPPLIED | |
| 4 | Documentation | | | | |
| | 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 | | ✓ | | |
| 5 | Other notable defects ? | | | NONE | |
| 6 | Released for : | ✓ | | REPACK, CLEAN, MCHT INTEGRATION WITH RAL | |
| Remarks / Actions : SEE SHEET 2. | | | | | |
| Distribution : ESA, AAS-F, ASG, RAL | | Inspector ASED. D. Henning | | Date : 27/9/06. | |
| | | Department : | | ESA. P. | |

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|--------------------------|--|---|--|---|
| EADS Astrium GmbH | | Incoming Inspection (Checklist for hi-rel space-application HW) | | Doc.-No.: HP-2-ASE-11-0177 |
| | | | | Issue: Date: 27/9/06 |
| Item: SPIRE DCU. STM 2. | | | | Sheet: 2 of 2 Received Date: 21/9/06 |
| Supplier: RAL | | Model: STM 2. | | Project: Herschel |
| Drwg.-No.: 002181-1 | | Serial-No.: | | Subsystem: SPIRE |

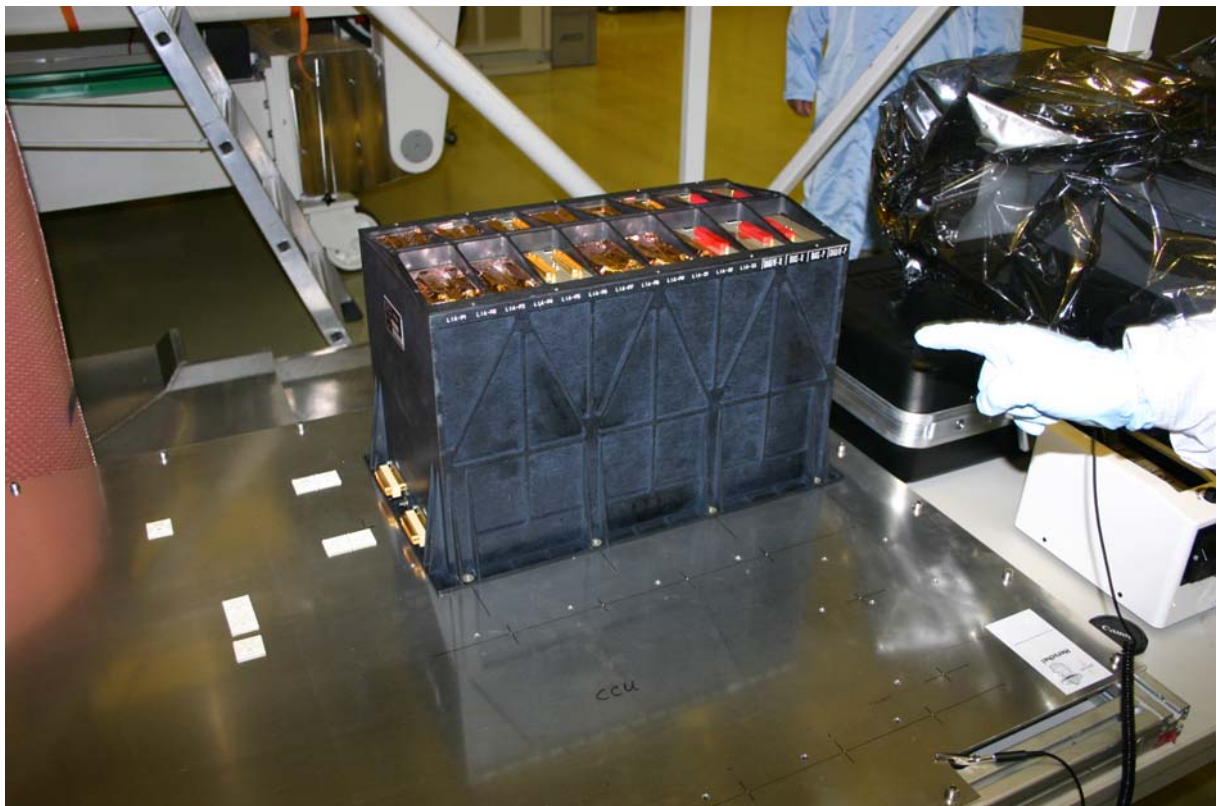
Continuation-Sheet :

- TRANSPORT CONTAINER BASE CONTAMINATION. PARTICLE
- INTERNAL SHOCK INDICATOR OK.
- * - UNIT LABEL NO IDENT FOUND.
TO BE REMARKED BY RAL.
- UNIT MOUNTING ON HANDLING FRAME
4 SCREWS NO WASHERS (1 WASHER).
- RED PLASTIC CAPS
J32, J28, J30, J29, J31, J01.
- NO IDENT FOR J31, J29, J1, J14, J16.
- OTHER CONNECTIONS COVERED WITH COPPER FOIL
- EXCEPT J3, J4 SHOULD FITTED BUT NO CAPS.
- PARTICLE CONTAMINATION ON BLACK SURFACE
OF UNIT. (TO BE CLEANED).
- FIT CHECK WITHOUT FIXATIONS OK.
- REPACKED.
- FURTHER ACTIVITIES TO BE PERFORMED WITH
RAL.

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 | | Instruments: | |
| | Hinger Jürgen | ASG22 | | MPE (PACS) | MPE |
| x | Hohn Rüdiger | AED65 | x | RAL (SPIRE) | RAL |
| | Hölzle 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 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 |