| CARLO GAVAZZI SPACE SpA | RELAZIONE DI RIUNIONE/VISITA<br>MINUTES OF MEETING/VISIT | N° |
|---|---|---|
| | | FOGLIO 1 DI 2<br>*SHEET* *OF* |

| DATA – *DATE* | LOCALITA' – *LOCATION* | COMMESSA – *JOB* | RIF. - *REF*. |
|---|---|---|---|
| 15/11/01 | CERN | AMS02- thermal control | |

| | | |
|---|---|---|
| IMPIANTO<br>PROJECT | **DESCRIZIONE**<br>***DESCRIPTION*** AMS02- Thermal control<br>Mechanical design and integration workshop | **CLIENTE**<br>***CUSTOMER*** CERN |
| | **LOCALITA'**<br>***LOCATION*** GENEVA - CERN | **ORDINE**<br>***CONTRACT*** |
| SCOPO RIUNIONE<br>PURPOSE OF MEETING | RAM AND WAKE RADIATOR | **REDATTO – *WRITTEN BY***<br>M. MOLINA<br>***DISTRIBUTION*** |

| | |
|---|---|
| CAB in CGS thermal model is facing wake with a cut out in the radiator.<br>R. Becker assumes the CAB is shielded by the WAKE radiator.<br>The best solution is to have the CAB mechanically attached to USS.<br>A cut-out in the radiator is not preferred because it interrupts the heat pipes. | |
| CGS to investigate about CAB operational modes. | AI 15 CGS<br>24 november 2001 |
| LMSO available data<br>400 W x 2 hrs when charging the magnet<br>10-30 W average<br>(from Paul Nemeth) | |
| To improve access during ground operations, a solution will be investigated which uses crate racks for integration which should withstand ground operation loads as a minimum.<br>Then radiators are attached for the launch. | |
| 15/12/01 Robert delivers envelope for the crates | AI 16<br>R. Becker 15/12/01 |
| 31/1/02 CGS provides mechanical design and strucural analysis of the rails, the brackets, used to attach the radiator | AI 17<br>CGS 31/1/02 |

(1) INDICARE IL NOMINATIVO RESPONSABILE DELL'AZIONE E DATA DI COMPLETAMENTO

| CARLO GAVAZZI SPACE SpA | RELAZIONE DI RIUNIONE/VISITA<br>MINUTES OF MEETING/VISIT | N° |
|---|---|---|
| | | FOGLIO 2 DI 2<br>*SHEET* *OF* |

| DATA – *DATE* | LOCALITA' – *LOCATION* | COMMESSA – *JOB* | RIF. - *REF*. |
|---|---|---|---|
| 15/11/01 | GENEVA | AMS _ Thermal Control | |

| PUNTI *ITEMS* | ARGOMENTI DISCUSSI – *DESCRIPTION OF DISCUSSION* | AZIONE A CURA (1) *ACTION BY (1)* |
|---|---|---|

Factors affecting Y position for the radiator:

Keep out zone for the magnet flanges.
The Y position for the inside of the radiator 1780 mm (TBC)
Minimum cable length, so minimum Y position;
Area is enough from the thermal point of view
Tracker doesn't want a radiator with a tilting angle far from 45°.

WARNING: There is a vent valve of the helium wake direction bottom

Debris shielding is another design parameter to be considered: it is possible to increase the thickness of honeycomb skin.
Assessment will be done by OHB about the radiator layout together with the mechanical accommodation of the radiator.

More boxes:

-GSCB general slow control box to supply the heaters (H.P. von Gunten)

ECAL and RICH crates:

CGS will provide area and Z coordinate for upper edge to LMSO for RICH and ECAL crates radiators.

LMSO to provide available area position, compliant with EVA

Robert to enlarge pocket in the radiator for the strut mounting

87" static envelope to be respected anyway.

AI 18
CGS to check with Mike capell up-to-date boxes configuration 23/11/01

AI 19
CGS 23/11/01

AI 20
LMSO 25/12/01

AI 21
R. becker, 15/12/01