

SPIRE

Minutes of meeting

L0 straps and warm units integration.

20/4/05

SPIRE-RAL-MOM-002414 issue 2 (updated 26/4/05)

Paul Mack Astrium

Eric Sawyer RAL

SPIRE staff present during all activities

- Alan Pearce
- Eric Sawyer
- John Coker (19/4/05 only)

Activities carried out:

Unpacking and inspection.

L0 straps

Warm electronics

Inspection, (Shock monitor tripped, see incoming inspection report. Discovered on return to RAL that these monitors were tripped before despatch to EADS)

Harness

Integration.

L0 straps.

Existing straps removed from FPU.

Replacement straps together with new light traps fitted. New straps did not fit the supports properly, at the request of SPIRE, Astrium modified the supports to accommodate the new straps.

Interface to cooler and detector box torqued to 2,2 Nm.

Straps connected to Spacecraft pods not torqued at this stage.

L1 straps

Straps fitted to FPU with 1 off M8 and 2 off M4 fasteners per strap together with associated isolation bushes and spreader plates. Not torqued or wire locked at this stage.

L3 straps

L3 straps connected to JFETS.

Fasteners not torqued at this stage.

Electrical isolation check carried out, all OK

FPU electrically connected to OBA chassis via grounding link after isolation test.

Red tag items. (remove before cryostat closure)

- Aperture cover.
- Grounding strap.
- Shorting plugs. These will be removed as the harness is integrated.

- Optical cube can be left on or removed according to activities being carried out.

Warm units.

DPU, FCU and DCU fitted to SVM panel.

Grounding strap manufactured and fitted.

Astrium will route the harness in a flight like configuration but leave connection until SPIRE are present just prior to warm unit testing.

Fitting of the external switch box was discussed, Astrium will fix box in a convenient location on the outside of the SVM panel and route the harness as necessary.

Fitting of the harness for the mechanisms power supply was discussed.

Open work.

Torque and Wire lock L1 interface.

Torque L0 and L3 interface fasteners.

AOB

Connector covers for unused connectors to be supplied by Astrium.

Containers

The warm units containers to remain at Astrium until return of the CQM.

Activities conducted after Eric and Alan left EADS (info by e-mail from Paul Mack)

- Applied Tightening torque at LO flex link I/F's 2, 1 Nm.
- Applied Tightening torque at L1 flex link I/F's 2, 1 Nm (M4) and 10.6 Nm (M8).
- Wire locking performed at L1 flex link fixation screws.
- Applied Tightening torque at L3 flex link I/F's 2, 1 Nm and temperature Sensors installed at (spectrometer and photometer).
- Warm units installed to SVM simulator side panel, grounding verification measurement all < 2.5 mOhm.