

**Telecon minutes.**  
**SMEC Launch Power Unit**  
**29/08/07**

**SPIRE-RAL-MOM-002959**

**Attendance:**

Doug Griffin  
Kevin Goodey  
Karine Mercier  
Dominique Pouliquen  
Guy Doubrovik,  
Bob Hibberd,  
Jurgen Lang  
Carsten Scharmberg  
Jan Rautokoski  
Matt Griffin (part time)  
Siegmond Idler  
Axel Koppe  
Eric Sawyer  
Christophe Cara  
Jean Fontignie  
Henri Triou  
Yvan Blanc  
Phillipe Clavel  
Jean Louis Augerres

**Actions from design review and previous telecons.**

**Today's Updates in Red**

Exact location of heat source in the model. Node number. To be supplied to Alcatel.	RAL	Node 806 in the interface model. Node 3200 in the DTMM.
Astrium to inform SPIRE and ESA if any information is missing, that may be preventing the start of harness manufacture	Astrium	Closed ref e-mail. From Axel 20/7/07. Connectors are being traced. Now been located at Thales and will be sent to Astrium.
RAL to manufacture shorting plug.	RAL	30/7/07 in manufacture. Short plug is ready and will be hand carried to Astrium next week. Action can be closed
Generate an RFW to omit a shock test.	LAM/CNES	Open, discussed with ESTEC, an RFW will be written later but verbal agreement has been given dependant on orientation of relays. The chosen relays are robust. Experts at ESA have been contacted and discussion is continuing, agreement in principal.  12/09 still in progress.

		<p>Technical discussion ongoing between ESTEC and CNES. Ared is in copy of the emails.</p> <p>There is no shock test on the FM Spacecraft</p>
Produce the analysis of the predicted temperature when switched on.	LAM	Circulated on 19/7/07
New interface document to be issued	LAM	Circulated on 19/7/07
Arrange a visit by LAM to Astrium before bonding	LAM/Astrium	<p>Open, not before September To be arranged next week</p> <p>12/09: SVM is now closed, so we have lost this opportunity!! The next opening will be ~ 1 week prior to LPU integration. The cryoharness will have to be modified</p>

#### Actions from 19/7/07 telecon

Drawing showing assembly of components in the box to be produced.	LAM	<p>Electrical design doc sent to Astrium. Including a 3D CAD drawing for review. Electrical design document LAM.PJT.SPI.SPT.070724_01 Issue 1 Rev 1 Sent on 26/7/07 No response from Astrium. Action closed</p>
Investigate if a structural analysis can be done at CEA.	CEA	<p>Closed ref e-mail 25/7/07 from Jean-Louis. A hand calculation has been performed that indicates little effect on the FCU boards. A document N070730_CEA_FCU-LPU Modal analysis, was distributed on 30/7/07 by CEA</p>
Confirm the earliest start date for the wiring	LAM	<p>Earliest date for QM is 16/8/07, early September for FM. Action closed</p>
Supply to Alcatel, scheme, parts list and data sheets,	LAM	<p>24/7/07 circulated by Dominique immediately after this telecon. Action closed</p>
Give formal go ahead to Astrium for removal of anodise	RAL	<p>Closed ref e-mail 19/7/07 from Eric, response received from Axel 20/7/07</p>

Actions from 12/09/07 telecon

Get feedback from ASED on the compatibility of the LPU and spacecraft AIT activities	Axel	
Circulate LPU integration procedure for comment	Dominique	
Circulate electrical integration procedure for comment	Doug	

**Dominique update:**

- Have glued QM onto the mech I/F last week
- LAM is allowing one week for cure
- Vibe tomorrow
- Thermal vac next week for cycling
  
- The internal harnesses for FM have been delivered
- FM Harness integration will happen next week
- Acceptance vibe next week
- FM Thermal vac the week after this
- In theory it should be deliverable CW 41 (starting 8/10/07) !
- DRB provisionally booked to be held at LAM 8/10/07 13:00 start to allow for morning travel
- Document status (Gerard is on the case) - first documents to be issued next week
  
- Email sent last week to Axel regarding abrading and gluing operations
  - The abrading needs to happen immediately prior to gluing to prevent build-up of an oxide layer.
  
- Action on Axel to coordinate LPU integration activities with ASED (tomorrow)
  
- Gluing procedure to be circulated at the end of this week. (LAM materials listed)  
Dominiques procedure finishes with the bonding strap verification
  
- DKG to circulate the electrical one
  
- Tentative DRB date 8/10/07 13:00 start
- RAL to provide the details for the ftp site for the DRB documentation
- EIDP mainly complete the end of next week. The test results will be available at the time of the review

**Next Telecon**

- 28<sup>th</sup> Sept. same 14:00UK:15:00CET (Carsten may have to chair if Eric and Doug are not available)

