

Monthly Report – June 2003

Date:

3/7/03

Work Package: Structure

SPIRE-MSS-REP-001795

1. Subsystem Progress Since Project Inception

Several concepts evaluated for the structure. Base line design decided upon in June 2000. Working on the system implications and implementation since first half of 2001. Closed interfaces with the all subsystems. Started with production drawings in February 2001 and were finished in January 2003. The concept of the suspension has been analysed and decided on implementation. Hardware produced and tested, meets specifications. Detailed design has been completed and manufacture of the CQm is completed. Manufacture of trh PFM is continuing. The structure integration has been completed. First warm vibration has been completed. The design of the MK2 Level 0 Thermal straps is in progress. Design of instrument and detector box mounts is in progress.

2. Subsystem Progress This Month

Production of MK1 level 0 Thermal Straps has been completed and it is currently with the goldplaters. Spine of the Photometer 2K Detector box is still in production and will be completed by Mid July. Photometer cover wall is in production and is set to be completed by the end of August. MSSL's workshop continues to finish all the smaller mechanical parts for the harness and the last remaining bits for the flight hardware. Awating quotes from Edwards for the remanufactiure of mirror mounts SM7 and SM8.

3. Problem Areas	Remedial Action
Also other subsystems have problems with them.	- Awaiting new light baffle from Cardiff so that MSSL can
- Thermal busbar suspension has strong non-	run some unit tests.
linear responses	
 Level 1 thermal strap interface with spacecraft 	
still has been confirmed	
	The thermal test of the 99.999% pure Aluminium wire has been
Redesign of the Level 0 Thermal Straps	completed. The design of the MK2 strap has stalled until
	some analysis work can be performed.
4. Engineering Activities	
Redesign of the Level 0 straps and isolation joint from results of the TMM.	
5. Design Changes	
<u>-</u>	
6. PA/QA Activities	
None None	
7. Subsystem Management Issues	
<u>-</u>	
8. Actions Requiring Immediate Attention	
-	
9. Status of Previous Actions	
<u>-</u>	
10. Activities Yet to be Achieved	
11. Milestones	Status
February 2002 Interfaces defined and reported	<pre>Completed</pre>
13-08-2002 STM delivery to RAL	Completed
01-02-2002 CQM FTB enclosure to RAL	N/A
1-10-2003 PFM delivery to RAL	On schedule
6-01-2004 FS delivery to RAL	On schedule
13. Schedule Changes	

On schedule