

Monthly Report – August 2002

Date:

9/9/02

Work Package: Structure

SPIRE-MSS-REP-001415

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. Continuing to close interfaces with the various subsystems. Started with production drawings in February 2001. The concept of the suspension has been analysed and decided on implementation. Hardware produced and tested, meets specifications. Detailed design continuing and manufacture is continuing.

2. Subsystem Progress This Month

Subsystem interfaces for RF filters and SMEC are frozen by the structure. Thermal busbar development has started. Production drawings are still in progress. Awaiting Cardiff to send MKIII units for testing so that the FEA can be completed in early September. MGSE production has been completed and awaiting HOB simulator before assembly – This is due mid September. Production of the photometer 2K box spine and covers is still continuing, though the cover walls have been completed. The manufacture of the light traps have been completed. The redesign of SCAL box is still being debated. Spectrometer 2K Detector box is still in manufacture. Optical Bench drawing has been released and is in manufacture. Main FPU mounts and detector box mounts have been released and are in manufacture. Continuing to have integration team meetings with RAL, to address planning and integration issues. Analysis reports completed.

Analysis reports completed.		
3. Problem Area		Remedial Action
-Difficult to close	interface definitions.	-Most interfaces are closed. The outstanding ones include the
		RF filters, JFETS and the SMEC. MSSL has taken their
		interface to these items to be frozen.
- Thermal bush linear respons	al strap interface with spacecraft	 Development team has been set up to redefine design. Continuing to work to implement design without effecting the schedule. Have produced design for the thermal bus bar itself. Awaiting Cardiff to produce MKIII of its support in early September to finish testing and FEA work. Production design work will start on 24 September
		Design work on SCAL box completed and awaiting
Problems within the SCAL baffle box, forseen by the		confirmation from LAM and RAL.
-	I and RAL), have led to some	
redesign of the SCA	AL BOX	
4. Engineering Activities		
Analysis and alignment reports continuing. FEA on thermal busbar.		
5. Design Changes		
C DA/OA Astivities		
6. PA/QA Activities		
NCR raised on one of the one piece photometer cover walls – repair is in placed and NCR closed out on 29 August 2002		
7. Subsystem Management Issues		
O. Actions Descriping Immediate Attention		
8. Actions Requiring Immediate Attention		
O Otation of Description Actions		
9. Status of Previous Actions		
40. Activities Vet to be Ashioved		
10. Activities Yet to be Achieved		
11. Milestones		Status
February 2002	Interfaces defined and reported	On going
13-08-2002	STM delivery to RAL	On schedule - now 2 months late-15-
01-02-2002	CQM FTB enclosure to RAL	10-02
10-06-2003	PFM delivery to RAL	On schedule
01-10-2002	PFM FTB enclosure to RAL	On schedule
6-01-2004	FS delivery to RAL	On schedule



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13. Schedule Changes

Due to the thermal busbar design, manufacturing problems, and optical bench checking we are lagging 2.5 months behind on original schedule.