

SPIRE (MSSL)	Monthly Report – January 2003	Date: 31/1/03
---------------------	--------------------------------------	----------------------

Work Package: Structure SPIRE-MSS-REP-001790

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 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 is continuing.		
2. Subsystem Progress This Month		
Production of Busbar is continuing. FEA of Busbar is still in progress along with the revised model for the instrument. The assembly drawings have been completed. The SCAL box has been completed. Spectrometer 2K Detector box and Optical Bench are still in production with B3 Technologies of Shalford. The optical bench is now due on 3 February. Spectrometer 2K detector box is due 31 January 2003. MSSL's workshop continues to finish all the smaller parts of the structure, like dowels and special washers. EIDP is in progress.		
3. Problem Areas		Remedial Action
<p>Also other subsystems have problems with them.</p> <ul style="list-style-type: none"> - Thermal busbar suspension has strong non-linear responses - Level 1 thermal strap interface with spacecraft still has been confirmed <p>Delivery date now 6 months late – due to loss of supplier for detector box and optical bench. Manufacturing problems with the optical bench have led to a 1 month delay.</p>		<ul style="list-style-type: none"> - Development team redefined the schedule for the project. Delivery date is mid-February - Have produced design for the thermal bus bar itself. Received MKIII units from Cardiff. Revisited the mechanical characterisation tests and completed the FEA. The supports have been deemed acceptable. - Production of the busbar is continuing. - Delta DDR is scheduled for 14 February <p>Constant monitoring of manufacturing progress and preplanning of follow on activities with RAL to minimise impact on whole project.</p>
4. Engineering Activities		
Redesign of the Level 0 straps and isolation joint form results of the TMM.		
5. Design Changes		
-		
6. PA/QA Activities		
Preparation of End Item Data Package is still continuing as well as revising PA documentation for Delta DDR of the Thermal bus bar		
7. Subsystem Management Issues		
-		
8. Actions Requiring Immediate Attention		
Trying to work progressively and methodological to get the structure to RAL.		
9. Status of Previous Actions		
-		
10. Activities Yet to be Achieved		
-		
11. Milestones		Status
February 2002	Interfaces defined and reported	Completed
13-08-2002	STM delivery to RAL	now 6 months February 03
01-02-2002	CQM FTB enclosure to RAL	On schedule
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	
13. Schedule Changes		
Due to liquidation of our main supplier, we are lagging 5 months behind on original schedule.		