

Work Package: Structure SPIRE-MSS-REP-001445

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		
Thermal busbar development is continuing. Production drawings are still in progress. Received MKIII units and light baffle from Cardiff. Started the mechanical testing so that the FEA can be completed in early October. MGSE assembly is awaiting HOB simulator – This is due early October. Production of the photometer 2K box spine is still continuing, though the covers have been completed. The redesign of SCAL box is still being debated. Spectrometer 2K Detector box has been completed and is awaiting final inspection. The manufacture of the Optical Bench is continuing. Continuing to have integration team meetings with RAL, to address planning and integration issues. Released Issue 16 of the interface drawing. Redesigned main cone to avoid clash with PACS.		
3. Problem Areas		Remedial Action
Also other subsystems have problems with them. - Thermal busbar suspension has strong non-linear responses - Level 1 thermal strap interface with spacecraft still is not confirmed		- 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 . Received MKIII units from Cardiff. Stared mechanical characterisation tests before going on to FEA. - Production design has started
Problems within the SCAL baffle box, forseen by the Optical team (LAM and RAL), have led to some redesign of the SCAL BOX		Redesigned the SCAL box . Awaiting confirmation from LAM and RAL at the alignment meeting on 1 October.
Delivery date now 3 months late – due to additional work on thermal busbar and the scrapping of one set of optical benches.		Constant monitoring of manufacturing progress and preplanning of follow on activities with RAL to minimise impact on whole project.
4. Engineering Activities		
FEA on thermal busbar and new design of main cone.		
5. Design Changes		
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6. PA/QA Activities		
NCR now not necessary as part has been scrapped due to another manufacturing error		
7. Subsystem Management Issues		
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8. Actions Requiring Immediate Attention		
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9. Status of Previous Actions		
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10. Activities Yet to be Achieved		
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11. Milestones		Status
February 2002	Interfaces defined and reported	Completed
13-08-2002	STM delivery to RAL	now 3 months late-7-11-02
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		

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Due to the thermal busbar design, manufacturing problems, and optical bench checking we are lagging 3 months behind on original schedule.