

<b>SPIRE (MSSL)</b>	<b>Monthly Report – August 2001</b>	<b>Date:</b> 11/09/01
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**Work Package: Structure SPIRE-MSS-REP-000860**

<b>1. Subsystem Progress Since Project Inception</b>		
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 busy closing 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.		
<b>2. Subsystem Progress This Month</b>		
Continued solving the random vibration problem. Updated the FEM and performed parameter studies. Agreed upon spec with JPL wrt sine and random. This for the BDA, JFET and RF-filter boxes. Still need to receive confirmation from Alcatel on the proposed notch strategy. Issued a technote on the notching.		
<b>3. Problem Areas</b>		<b>Remedial Action</b>
<ul style="list-style-type: none"> <li>-Difficult to close interface definition, lagging behind about 6 months now.</li> <li>-Identified a serious problem with the random vibration loads, JPL has a problem with the levels. Also other subsystems have problems with them.</li> <li>- Thermal busbar suspension has strong non-linear responses</li> </ul>		<ul style="list-style-type: none"> <li>-getting there slowly.. have gone through an other iteration of the optics...</li> <li>- Solved, left with design solution on instrument level to allow for reduction random loads for BDA.</li> <li>- pushing eigenfrequencies as high as possible, above 300 Hz, alternatively could opt for more flexible suspension with end stops to prevent excessive movement of busbar.</li> </ul>
<b>4. Engineering Activities</b>		
Nothing special		
<b>5. Design Changes</b>		
Design of JFET box suspension is now in the hands of RAL.		
<b>6. PA/QA Activities</b>		
DDR postponed till later in October/November.		
<b>7. Subsystem Management Issues</b>		
Employed a mechanical engineer, starts working for us on August the 13 <sup>th</sup>		
<b>8. Actions Requiring Immediate Attention</b>		
Rework schedule to implement latest shift in activities (some brought forward others moved backwards)		
<b>9. Status of Previous Actions</b>		
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<b>10. Activities Yet to be Achieved</b>		
Close the I/F with JPL. Hopefully this month (again). Close out interface with SMEC, waiting input from LAM. Close out interface with SCAL Closes out interface with BSM (effectively frozen now, need to define harness routing).		
<b>11. Milestones</b>		<b>Status</b>
February 2001	Interfaces defined and reported	On going
29-07-2002	STM delivery to RAL	On schedule/no margin left
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	
<b>13. Schedule Changes</b>		
Due to the fire-fighting (optical and random vibration) we are lagging 2 months behind on schedule.		