

SPIRE (JPL)	Monthly Report –For Dec 2001	Date: 15/02/022
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Work Package: Detectors and Cold Electronics SPIRE-JPL-REP-001163

1. Subsystem Progress Since Project Inception		
Subsystem has progressed through the CDR stage successfully this summer. We have received approval for moving forward into the implementation phase. Action items from the CDR will be addressed individually and closed out thorough memos distributed to the originators and the project files.		
2. Subsystem Progress This Month		
EM Load resistors fabricated with 80% yield. Contact engineering wafer shows robust results. SLW masks designed and fabricated. JFET & Load resistors designed and fabricated. Assembled 2 EM JFET membranes for Qual testing. Assembled 1 load resistor substrate for Qual testing. Started assembling 4 BDA suspension assemblies. Successfully tested pi-filter connectors in qualification run. Successfully tested load resistor modules in qualification program. Thermal cycle dewar mounting hardware fabricated. BoDAC BDA mount design completed and fabricated. DAS cable loom designed.		
3. Problem Areas		Remedial Action
We have devised a method for mounting the bolometer chips in a more reliable fashion after encountering some difficulty last month. Testing will be completed in January. Timely delivery of STM hardware is at risk by lack of an agreed wiring harness ICD.		Plans for remedial testing are in place and fabrication is nearly completed. John Delderfield pledges to complete at earliest stage possible.
4. Engineering Activities		
5. Design Changes		
Some design changes to the JFET webs and the BDA bolometer hardware (as mentioned earlier) have been completed and are scheduled to undergo tests in January to determine compliance with design requirements.		
6. PA/QA Activities		
All MDL QA process documentation (called AIDS and Procedures) are finished and signed off. The BDA metal assembly QA documentation is being written in preparation for assembly. Inspection Reports (IR's) are being written against parts that are being received against controlled "x" level drawings. These will be closed soon by the release of the drawings and inspection against the controlled documentation.		
7. Subsystem Management Issues		
None		
8. Actions Requiring Immediate Attention		
ICD for wiring harness is critical.		
9. Status of Previous Actions		
None		
10. Activities Yet to be Achieved		
Achieved all that were planned for the month.		
11. Milestones		Status
March 1, 02	QM BDA Assembled	
13. Schedule Changes		
Pending with objective being no changes to delivery schedule.		