

SPIRE (ATC)	Monthly Report – May 2002	Date: 30.May.02
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Work Package: BSM

SPIRE-ATC-REP-001347

1. Subsystem Progress Since Project Inception				
Baseline design accepted at Delta-PDR, including digital electronics control by MCU. CPP parts requested. Single axis prototyping complete. DDR held. 2 axis prototype tests complete. IBDR complete (report pending). Development Model testing				
2. Subsystem Progress This Month				
Reviewed schedule and model philosophy. Agreed to re-work DM-1 as the STM and OGSE. Manufacture of DM-2 progressed in workshop, but impacted by staff holidays. New test engineer (David McNeill) has started work and ramping up to speed				
3. Problem Areas		Remedial Action		
<ul style="list-style-type: none"> Full checks on repeatability/linearity in dewar not possible due to problem with multiple reflections on cryostat window 		<ul style="list-style-type: none"> high efficiency anti-reflection coating window received and tested warm. Will test further in conjunction with DM-2. 		
4. Engineering Activities				
Launch Latch relocated on design and problem noted with DM-2 motor wiring. Change to proposed ATC mounting in hand - will need to tie up with LAM. Re-test of sensor linearity and commencement of a check out of proposed life-test protocols as part of training for new test engineer. Work on sensor gain tests with DM-2 type cores and flight type electronics started.				
5. Design Changes				
Flexi-tape design complete, will place order shortly. Design for refurbishment of DM-1 as STM starting.				
6. PA/QA Activities				
Working through CTD's and NCR's, but progress slowed by other priority activities. General lab cleanliness being monitored daily with several procedural changes being made to improve particle count. BeCu pivots received and inspected. Some variability in braze fillet profiles will need check out as part of up-screen.				
7. Subsystem Management Issues				
Re-costing complete and indicates all deliverables can still be met on a success-oriented schedule.				
8. Actions Requiring Immediate Attention				
IP/D.Griffin : ATC Need MSSSL definition of harness run and back-shells to procure harness. (critical path STM). IP Configured Items Data List is required SW11MAR02.02 (IP) Place contract for Zeiss motors				
9. Status of Previous Actions				
No change				
10. Activities Yet to be Achieved				
STM specific ICD is required.				
11. Milestones		Status		
Milestone	Baseline	Scheduled	Actual	Change
20K test dewar available	N/A	May.02		
Integrate Prototype (in place of DM 2) to LAM	30 Mar 01	Apr.02		
DM release for manufacture	Oct.01	Nov.01	Dec.01	
DM-2 release for manufacture	N/A	Apr.02	Apr.02	
2 axis prototyping at ATC complete	N/A	Mar.02	Apr.02	
SPIRE IBDR	N/A	Mar.02	Mar.02	
DM-2 tests complete	30.Apr 02	End Jun.02		+1 month
BSM STM del'y to RAL	01 Feb 00	01 Jul 02		
BSM CQM delivery to LAM	Jul.02	Sep.02		
BSM CQM del'y to RAL	13 Mar 02	Jan.03		