

SPIRE (ATC)	Monthly Report – Sep 2002	Date: 30.Sep.02
--------------------	----------------------------------	------------------------

Work Package: BSM

SPIRE-ATC-REP-001441

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. Development Model testing				
2. Subsystem Progress This Month				
STM ADP issued 27.Sep.02. DM-2 assembly commenced. Investigations on options to reduce cost of Zeiss/PACS motor coils complete. Mating connectors and test boxes for LAM electronics completed.				
3. Problem Areas		Remedial Action		
<input type="checkbox"/> Full checks on repeatability/linearity in dewar to be achieved <input type="checkbox"/> Launch Latch relocated on design and problem noted with DM-2 motor wiring. <input type="checkbox"/> Zeiss motor quotation above budget price. <input type="checkbox"/> Wiring layout and specification TBC. <input type="checkbox"/> Cash flow (esp. allocations vs Zeiss purchase orders)		<input type="checkbox"/> high efficiency anti-reflection coating window received and tested warm. Will test further in conjunction with DM-2. <input type="checkbox"/> Change to proposed ATC mounting in hand - will need to tie up with LAM. <input type="checkbox"/> Will need to use fewer motor coils. <input type="checkbox"/> Discussions with RAL (D.Griffin) scheduled. <input type="checkbox"/> Discussions in hand with funding body		
4. Engineering Activities				
STM assembly with ballast mass completed. Investigated problem on thermometry (change of calibration on bake-out to BSM specification). Cross calibration scheme (via beam splitter) for laser metrology completed. Software checkout prior to for				
5. Design Changes				
Iterative assembly and balance check on DM-2 jiggle frame and wiring completed, and design modification introduced to trim balance.				
6. PA/QA Activities				
Drawing configuration scheme is being run manually due to problems with database scheme - PA is being maintained but it is labour intensive and improvements to the data base are being sought.				
7. Subsystem Management Issues				
Funding for motors.				
8. Actions Requiring Immediate Attention				
SW11MAR02.02 IP Place contract for Zeiss motors ... ongoing. Price received but > budget.				
9. Status of Previous Actions				
IP/D.Griffin : ATC Need MSSL definition of harness run and back-shells to procure harness via RAL. ... complete. Costs are higher than anticipated, but OK provided STM components are re-used for CQM, FSM.				
IP Configured Items Data List is required ... issued as SPIRE-ATC-PRJ-00105				
10. Activities Yet to be Achieved				
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	Oct.02		+ 6 months
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	Oct.02		+ 4 weeks
BSM STM del'y to RAL	01 Feb 00	10.Oct 02		+6 weeks
BSM CQM delivery to LAM	Jul.02	20.Dec.02		+8 weeks
BSM CQM del'y to RAL	13 Mar 02	Feb.03		+ 4 weeks
BSM QM tests complete (flight design valid)	25.Apr.03	20.Jun.03		+2 weeks
BSM PFM delivery to LAM	03.Jun 03	04.Sep.03		+2 weeks