Work Package: BSM

SPIRE-ATC-REP-001784

1. Subsystem Progress Since Project I	ncention		0.1			
	-	•		. 1 0' 1	•	
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						
	e tests comple	te. IBDR compl	ete. Developmen	t Model testing	5	
2. Subsystem Progress This Month	1		1 1		1	
STM delivered to RAL. DM-2 assembly complet 3. Problem Areas	Remedia		rness and sub-sys	stem wire ordere	d via Tekdata.	
					- d 4 4 - d	
 Full checks on repeatability/linearity in dewar to be achieved 	-	st further soon!	ection coating wir	ndow received an	nd tested warm.	
Launch Latch relocated on design	Change	e to proposed A7	C mounting in ha	and - will need t	o tie up with	
□ Tayco flexi-tape delayed 8wks by export	LAM.					
paperwork	 Investigated JPL route but determined would not help. Initiated procurement with ATC contracts office 					
Zeiss motor quotation above budget price	Initiate	ed procurement w	with ATC contract	ts office		
4. Engineering Activities						
Alignment of jiggle stage, wiring and check out of the		-				
Working to close control loop over full range of tra						
comparison to expected values. Discussions on the BSM.	e ICD with MI	MSL are in nand	- some confusion	over beam posi	tions on the	
5. Design Changes						
	aan has be	1000000	avalore 11	l and the J	ahanga:11 1	
Problem routing wiring for DM-2 jiggle frame sen			-	-	-	
documented for future models. Similarly a number						
from experience during assembly and test. An err						
2.53° of chop travel cannot be reached at full jiggle	e angle. A salva	age scheme will f	ix this for DM-2,	and the slot will	be expanded on	
subsequent models.						
6. PA/QA Activities						
A number of RID responses have been worked on	, primarily an	update to the BS	M SSSD. A few of	outstanding TBC	Cs on telemetry	
and optical spec are being closed out with RAL an	d LAM. Discu	ssions into perfo	rming a cold shak	e in December h	nave been	
started.		_	-			
7. Subsystem Management Issues						
Late delivery of flexi-tape. To minimize re-work c	osts, the rebui	ld of DM2 with	flexi tape will coi	ncide with salvag	ge scheme to	
extend chop travel, but as both these should prece	de a cold shak	e it puts US cust	oms on the critica	l path	-	
8. Actions Requiring Immediate Attent	ion					
SW11MAR02.02 IP Place contract for Zeiss n	notors ongoi	ing.				
9. Status of Previous Actions		*				
IP/D.Griffin : ATC PO placed with Tekdata	for central pro	curement of hari	ness. Complete			
10. Activities Yet to be Achieved	•		•			
Overall slippage of DM-2 assembly and test : imp	acts liaison wi	ith LAM and kno	ock on to COM de	eliverv (but with	in consortium	
requirements).						
Improvements to the drawing configuration data b	ase are being s	ought.				
11. Milestones		Status				
Milestone		Baseline	Scheduled	Actual	Change	
20K test dewar available		N/A	Nov.02		+6 months	
Integrate DM 2 at LAM		30 Mar 01	Nov.02			
DM release for manufacture		Oct.01	Nov.01	Dec.01		
DM release for manufacture 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	20.Dec.02		+ 3w eeks	
BSM STM del'y to RAL		01 Feb 00	5.Nov 02	5.Nov 02		
BSM CQM delivery to LAM		Jul.02	Feb03 TBC	1	TBC	
BSM CQM del'y to RAL		13 Mar 02	Apr.03 TBC			
BSM QM tests complete (flight design valid)		25.Apr.03	20.Jun.03			
BSM PFM delivery to LAM		03.Jun 03	04.Sep.03	}		
DOM FIN UCINCLY IO LAW		03.Juli 03	04.Sep.05			

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