

Work Package SCAL

1. Subsystem Progress Since Project Inception	
SCAL Design complete Components submitted for manufacture	
2. Subsystem Progress This Month	
Updating ICD New drawings for prototype components submitted for manufacture SCAL STM and CQM components in manufacture	
3. Problem Areas	Remedial Action
None	
4. Subsystem Management Issues	
None	
5. Engineering Activities	
New thermal/mechanical prototypes in manufacture SCAL STM and CQM components in manufacture	
6. Design Changes	
7. PA/QA Activities	
PA database under development.	
8. Actions Requiring Immediate Attention	
Completion of ICD Agreement on revised electrical interface.	
9. Status of Previous Actions	
10. Activities Yet to be Achieved	
11. Budgets	
12. Milestones	Status
Tue 05/12/00 QMW Source Design review	Complete
Tue 03/04/01 Prototype source testing complete	Tests continuing – not driving schedule
Tue 22/05/01 Calibrators design review (Internal)	Complete
Wed 27/03/02 SCAL STM delivery to RAL	On schedule
Thu 20/06/02 CQM SCAL design review	On schedule
Fri 22/03/02 CQM SCAL to RAL	On schedule
Fri 18/10/02 PFM calibrators design review	On schedule
Wed 14/05/03 PFM SCAL to RAL	On schedule
Wed 03/09/03 FS SCAL to RAL	On schedule
13. Schedule Changes	
None	

SPIRE (Cardiff)	Monthly Report –January 2002	Date: 15/03/02
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Work Package Filters

1. Subsystem Progress Since Project Inception	
SPIRE filtering scheme finalised. Prototyping in progress. Filter SSSD updated for DDR. Slight change of MW band for commonality with HFI band.	
2. Subsystem Progress This Month	
Prototyping of dichroics and beam dividers 300mK filter interface components complete 300mK filter tests in progress (frame with representative material) 300mK filter material in manufacture	
3. Problem Areas	Remedial Action
4. Subsystem Management Issues	
5. Engineering Activities	
6. Design Changes	
7. PA/QA Activities	
PA database under development.	
8. Actions Requiring Immediate Attention	
9. Status of Previous Actions	
None	
10. Activities Yet to be Achieved	
11. Budgets	
12. Milestones	Status
Wed 21/11/01 STM filters to RAL	Late – need to re-work schedule with MSSL and RAL
Wed 19/06/02 CQM Delivery to RAL	On schedule
Tue 14/10/03 PFM delivery to RAL	On schedule
Wed 15/09/04 FS delivery to RAL	On schedule
TBD 300mK CQM filters to JPL	Need info. From JPL
TBD 300mK PFM filters to JPL	Need info. From JPL
TBD 300mK FS filters to JPL	Need info. From JPL
13. Schedule Changes	
STM filters to RAL – due 21/11/01 - need to re-work schedule with MSSL and RAL	

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Work Package 300mK straps

1. Subsystem Progress Since Project Inception		
Thermal test dewar ready Thermal interface tests in progress		
2. Subsystem Progress This Month		
Thermal conductivity and thermal interface tests continuing. Mark 2 support in manufacture. MK1 support complete		
3. Problem Areas	Remedial Action	
Had problems with engineering effort	Using contractor for manufacturing all schedule critical items	
4. Subsystem Management Issues		
This system has the full attention of the Cardiff SPIRE team, and will be treated as the highest priority work package		
5. Engineering Activities		
Mark 2 support in manufacture – expected completion 1 week		
6. Design Changes		
7. PA/QA Activities		
None		
8. Actions Requiring Immediate Attention		
9. Status of Previous Actions		
None		
10. Activities Yet to be Achieved		
11. Budgets		
12. Milestones		Status
Mon 12/02/01	He-7 fridge shield ready	Complete
Thu 25/01/01	GRTs from Lakeshore	Complete
Tue 27/02/01	Test dewar ready	Complete
Wed 09/05/01	Interface study complete	Late
Wed 28/02/01	Design Review - LBDR1	Development plan to be re-defined (see above)
Thu 12/04/01	LBP1 to QMW (2 off)	Development plan to be re-defined (see above)
Tue 29/05/01	Design Review - LBDR2	Development plan to be re-defined (see above)
Wed 11/07/01	LBP2 to Cardiff (2 off)	Development plan to be re-defined (see above)
Thu 02/08/01	Design report	Development plan to be re-defined (see above)
Thu 23/08/01	Light baffle design complete	Development plan to be re-defined (see above)
Thu 23/08/01	Prototype light baffle design	Development plan to be re-defined (see above)
Fri 24/08/01	Design Review - CSDR1	Development plan to be re-defined (see above)
Mon 10/12/01	Cold strap prototypes - Test Report	On schedule
Mon 28/01/02	STM design review - CSDR2	On schedule
Tue 23/04/02	STM/CQM straps ready for integration	On schedule
Wed 03/09/03	PFM straps ready for integration	On schedule
Wed 29/10/03	FS straps ready for integration	On schedule
13. Schedule Changes		
Development plan to be re-defined		

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Work Package AIV participation

1. Subsystem Progress Since Project Inception		
Cryogenic black body & flip mirror/shutter concept produced – approved at AIV review Conceptual design presented at AIV DDR.		
2. Subsystem Progress This Month		
Filter prototyping		
3. Problem Areas	Remedial Action	
None	.	
4. Subsystem Management Issues		
5. Engineering Activities		
none		
6. Design Changes		
7. PA/QA Activities		
None		
8. Outside Agency Interfaces		
RAL for design changes & interface definition.		
9. Actions Requiring Immediate Attention		
10. Status of Previous Actions		
None		
11. Activities Yet to be Achieved		
Production of CBB & flip mirror module. Provision of reference detector Provision of FTS		
12. Budgets		
13. Milestones		Status
31/5/02	CBB to RAL	On schedule
31/5/02	AIV Filters to RAL	On schedule
TBD	FTS to RAL	
TBD	Reference detector to RAL	
14. Schedule Changes		
None		

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Work Package JPL BDA test support

1. Subsystem Performance Progress Since Project Inception	
Optics modules designed manufactured Test cryostats at JPL Fridge #1 at JPL Fridge #2 at JPL Optics modules shipped	
2. Subsystem Progress This Month	
Cryostat filters in production. Additional components (baffles) complete – ready for shipping	
3. Problem Areas	Remedial Action
4. Subsystem Management Issues	
5. Engineering Activities	
Filters in production.	
6. Design Changes	
7. PA/QA Activities	
None	
8. Outside Agency Interfaces	
Janis Cryogenics for test dewars. Chase research for fridges. Tekdata for wiring harnesses. Symons mirror technology for mirrors. Deteronics (TBC) for connectors (hermetic). TMC for machining work (optics module)	
9. Actions Requiring Immediate Attention	
10. Status of Previous Actions	
None	
11. Activities Yet to be Achieved	
To be defined	
12. Budgets	
13. Milestones	Status
14. Schedule Changes	
None	