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Work Package SCAL

1. Subsystem Progress Since Project Inception		
CQM design complete – passed DDR All STM and CQM components complete.		
2. Subsystem Progress This Month		
Mechanical test of spare source assembly – checked integrity of source attachment to Torlon strut. Terminated test at equivalent acceleration of 64000G!		
3. Problem Areas None	Remedial Action	
4. Subsystem Management Issues		
CPP parts will not arrive in time for STM manufacture.		
5. Engineering Activities		
Assembly of STM SCAL components		
6. Design Changes		
None		
7. PA/QA Activities		
PA database now in use		
8. Actions Requiring Immediate Attention		
9. Status of Previous Actions		
10. Activities Yet to be Achieved		
11. Budgets		
12. Milestones		
Status	Milestones	
5/12/00	QMW source review	Complete
22/05/01	Calibrators design review (internal)	Complete
18/12/02	SCAL STM delivery to RAL	Est. del. 29/11/02
20/06/02	CQM SCAL design review	Complete
13/01/03	CQM SCAL to RAL	Est. del. 13/01/03
18/10/02	PFM calibrators design review	Rescheduled for late January 2003
01/10/03	PFM SCAL to RAL	Late – due 09/12/03
03/01/05	FS SCAL to RAL	Due 03/08/04
13. Schedule Changes		

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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		
SPIRE STM CFIL1 still in manufacture – delay due to long lead-time obtaining new photolithographic masters for CFIL1. STM PDIC1 and PDIC2 rings & shims submitted for manufacture. STM PFIL2 and SFIL2 material ready for cutting to shape. 300mK filter clamps for all SPIRE models complete. Alignment marks added after request from RAL/LAM, and updated ICD accordingly. CQM 300mK PLW filters shipped to JPL.		
3. Problem Areas	Remedial Action	
4. Subsystem Management Issues		
5. Engineering Activities		
STM PDIC1 and PDIC2 rings & shims submitted for manufacture. 300mK filter clamps for all SPIRE models complete. Alignment marks added after request from RAL/LAM, and updated ICD accordingly.		
6. Design Changes		
Alignment marks added to 300mK filter clamps.		
7. PA/QA Activities		
PA database now in use		
8. Actions Requiring Immediate Attention		
9. Status of Previous Actions		
None		
10. Activities Yet to be Achieved		
11. Budgets		
12. Milestones		Status
18/09/01	Filters DDR	Complete
01/02/02	STM 300mK filters to JPL	Complete – delivered 25/03/02
01/07/02	STM input filters to RAL	Due 18/10/02
TBD	CQM 300mK filters to JPL	Complete – delivered 12/09/02
13/01/03	CQM filters to RAL	Due 13/01/03
03/02/03	PFM 300mK filters to JPL	Due 03/02/03
01/08/03	PFM filters to RAL	Due 01/08/03
03/02/03	FS 300mK filters to JPL	Due 22/08/03
10/01/05	FS filters to RAL	Due 29/12/03
13. Schedule Changes		
Delivery dates currently under negotiation with RAL and JPL		

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Work Package 300mK straps

1. Subsystem Progress Since Project Inception		
STM & CQM devices complete		
2. Subsystem Progress This Month		
Interface thermal tests continuing, including electrical isolation joint. MK3 (DM, STM & CQM) components complete. DM components assembled & sent to MSSL for mechanical characterisation. Light baffle passed SPIRE vibration load requirements – failed at higher level – full report in preparation by MSSL.		
3. Problem Areas	Remedial Action	
Evidence of wear on Kevlar in vicinity of radiused holes after vibration.	All components will have the radiused holes polished to remove any machining marks, which are the suspected cause of the wear.	
4. Subsystem Management Issues		
MSSL seem to have misread the ICD for the photometer box supports. They have drilled mounting holes for these components for 4-40 UNC bolts. The ICD, which they approved, shows that these bolts are 2-56 UNC. Therefore their clearance holes are the wrong diameter. MSSL are working on a resolution.		
5. Engineering Activities		
DM, STM & CQM components complete & DM components assembled		
6. Design Changes		
None		
7. PA/QA Activities		
None		
8. Actions Requiring Immediate Attention		
Resolution of interface problem with structure.		
9. Status of Previous Actions		
None		
10. Activities Yet to be Achieved		
11. Budgets		
12. Milestones		Status
7/6/02	300mK strap DDR	Date fixed
20/11/02 TBD	STM 300mK straps to RAL	Due 20/11/02 TBD
13. Schedule Changes		
Schedule under revision by RAL (managing 300mK programme)		

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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		
AIV filters submitted for manufacture Alternative supplier of large area photolithographic plates sourced (for filters), and order placed.		
3. Problem Areas	Remedial Action	
Delay in obtaining large photolithographic plates.		
4. Subsystem Management Issues		
Cardiff is no longer providing the AIV FTS		
5. Engineering Activities		
none		
6. Design Changes		
7. PA/QA Activities		
PA database now in use		
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	Due 31/01/03
31/5/02	AIV Filters to RAL	Due 29/11/02
TBD	Reference detector to RAL	Due 12/8/02
14. Schedule Changes		

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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 nearing completion – queue for FTS testing	
3. Problem Areas	Remedial Action
4. Subsystem Management Issues	
5. Engineering Activities	
Filters in production.	
6. Design Changes	
7. PA/QA Activities	
None	
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	
Cardiff schedule completely updated – current version is Cardiff_spire_4_0.mpp Milestones listed in section 12 updated to reflect current schedule	