

SPIRE (Cardiff)	Monthly Report –March 2002	Date: 22/05/02
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Work Package SCAL

1. Subsystem Progress Since Project Inception		
Components submitted for manufacture		
2. Subsystem Progress This Month		
SCAL STM and CQM components still in manufacture. Delayed due to workshop refurbishment.		
3. Problem Areas	Remedial Action	
None		
4. Subsystem Management Issues		
CPP parts will not arrive in time for STM manufacture. We need these components within 12 weeks if CQM testing is not to be compromised.		
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 now in use		
8. Actions Requiring Immediate Attention		
9. Status of Previous Actions		
10. Activities Yet to be Achieved		
11. Budgets		
12. Milestones		Status
5/12/00	QMW source review	Complete
22/05/01	Calibrators design review (internal)	Complete
01/08/02	SCAL STM delivery to RAL	Due 25/07/02
20/06/02	CQM SCAL design review	On schedule
13/01/03	CQM SCAL to RAL	Due 10/01/03
18/10/02	PFM calibrators design review	On schedule
01/10/03	PFM SCAL to RAL	Late – due 27/11/03
03/01/05	FS SCAL to RAL	Due 28/09/04
13. Schedule Changes		
Milestones listed in section 12 updated to reflect current schedule (Cardiff_spire_3_0.mpp)		

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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	
Filters for JPL tests dewars (BoDAC 1 & 2) nearing completion	
3. Problem Areas	Remedial Action
4. Subsystem Management Issues	
5. Engineering Activities	
6. Design Changes	
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
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 MK2 device selected as baseline support design concept		
2. Subsystem Progress This Month		
Mk3 design complete and interface agreed with MSSL Cardiff light baffle design nearing completion		
3. Problem Areas	Remedial Action	
4. Subsystem Management Issues		
Interfaces with the 2K boxes should be agreed by 13/04/02		
5. Engineering Activities		
6. Design Changes		
Design modifications to improve robustness & reliability		
7. PA/QA Activities		
None		
8. Actions Requiring Immediate Attention		
Resolution of interfaces with structure		
9. Status of Previous Actions		
None		
10. Activities Yet to be Achieved		
11. Budgets		
12. Milestones		Status
Mon 28/01/02	STM design review - CSDR2	Need to re-schedule
Tue 23/04/02	STM/CQM straps ready for integration	Need to re-define plan
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		
Prototype stepper motors purchased for flip mirror mechanism. Will be tested cryogenically by 13/04/02		
3. Problem Areas		Remedial Action
An IGES or STEP file of the test cryostat would greatly assist our design – this is proving difficult for RAL to produce		.We have 2-D drawings to fall back on.
4. Subsystem Management Issues		
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	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 nearing completion. 300mK filters for BoDAC tests shipped. These will be replaced for CQM tests.	
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	
None	