Nork Pack	age PCAL		SPIRE-UCF-REP-001345
1. Subsyste	em Progress Since Project Ince	ption	
Haller-Beema	an source identified which meets SPII	E requirements	
PCAL enclos	sure design nearing completion		
2. Subsyste	em Progress This Month		
PCal internal	structure re-modelled following reco	nmendations from HFSS n	nodelling.
Final design	nearing completion		
3. Problem	Problem Areas Remedial Action		
4. Subsyst	em Management Issues		
5. Enginee	ring Activities		
none			
<u>6. Design (</u>	Changes		
Internal desi	gn modifications only. No change to	outer volume envelope.	
7. PA/QA A	ctivities		
PA database	now in use		
8. Actions	Requiring Immediate Attention		
9. Status of	f Previous Actions		
10. Activiti	es Yet to be Achieved		
11. Budaet	S		
j	-		
12. Milesto	nes	5	Status
5/12/00	OMW source review	(	Complete
21/09/01	Prototype source testing comp	ete 7	Fests continuing – not driving schedule
19/09/01	Final interface definition from A	TC (	Complete
22/05/01	Calibrators design review (inter	nal)	Complete
10/6/02*	STM (DM) PCAL delivery to A	TC F	Estimated del 5/7/02
30/01/02	COM PCAL design review (inte	rnal)	Complete
3/9/02*	COM PCAL to ATC	F	Estimated del 3/9/02
18/10/02	PEM calibrators design review	f	In schedule
26/5/02*	PEM PCAL to ATC	T	Estimated del 21/5/03
20/3/03 · 7/1/0/*		т т	Estimated dol: 12/0/03
// 1/04 *			25timated del. 12/9/05
13. Schedu	lle Changes		
Cardiff schee	dule completely updated - current ve	sion is Cardiff_spire_4_0.	mpp
Milestones li	isted in section 12 updated to reflect	current schedule	
*PCAL deliv	very dates to ATC have changed as s	hown above, and have nov	w been agreed with ATC

\*PCAL delivery dates to ATC have changed as shown above, and have now been agreed with ATC

Work Packa	Nork Package SCAL		
1. Subsyste	m Progress Since Project Inception	วท	
CQM design of	complete – passed DDR		
Components s	submitted for manufacture		
2. Subsyste	m Progress This Month		
Acceptance c	hecks of SCAL CQM and STM compon	ients complete	
Cardiff "black	" qualification in progress – see separat	e report	
Spare sources	s assembled ready for mechanical tests (	(test to failure)	
Vibration test	mount complete		
3. Problem	Areas	<b>Remedial Action</b>	۱
None			
4. Subsyste	m Management Issues		
CPP parts will	l not arrive in time for STM manufacture	. We need these comp	ponents within 12 weeks if CQM testing is
not to be com	promised.		
5. Engineer	ing Activities		
6. Design C	hanges		
None			
7. PA/QA A	ctivities		
PA database	now in use		
8. Actions F	Requiring Immediate Attention		
9. Status of Previous Actions			
10. Activities Yet to be Achieved			
11. Budgets	;		
12. Mileston	les		Status
5/12/00	QMW source review		Complete
22/05/01	Calibrators design review (internal)		Complete
01/08/02	SCAL STM delivery to RAL		Est. del. 29/7/02
20/06/02	CQM SCAL design review		On schedule
13/01/03	CQM SCAL to RAL		Est. del. 25/11/02
18/10/02	PFM calibrators design review		On schedule
01/10/03	PFM SCAL to RAL		Late – due 09/12/03
03/01/05	FS SCAL to RAL		Due 03/08/04
13. Schedu	le Changes		
Milestones lis	sted in section 12 updated to reflect curr	rent schedule	
Note – PFM S	SCAL late due to late CDR		

Work Package Filters				
1. Subsystem	1. Subsystem Progress Since Project Inception			
SPIRE filtering	scheme finalised. Prototyping in progr	ess.		
Filter SSSD upda	ated for DDR. Slight change of MW ba	and for commonality	with HFI band.	
2. Subsystem	Progress This Month			
SPIRE STM filte	rs (CFIL1, PFIL2, SFIL2) in manufactu	re		
CQM 300mK filt	ters in manufacture (SSW, SLW, PLW	)		
Manufacturing o	rder placed for 300mK filter clamps fo	r all SPIRE models the	rough to FS.	
3. Problem Ar	3. Problem Areas Remedial Action			
4. Subsystem	Management Issues			
5. Engineering	g Activities			
300mK filter cla	mps in manufacture, including flight n	nodel & flight spare co	omponents.	
6. Design Cha	inges			
7. PA/QA Acti	vities			
PA database nov	w in use			
8. Actions Re	quiring Immediate Attention			
9. Status of Pr	revious Actions			
None	Vot to be Ashieved			
TO. ACTIVITIES	fet to be Achieved			
11. Budgets				
<b>-------</b> -				
12. Milestones Status			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 20/06/02	
TBD	CQM 300mK filters to JPL	]	Due 18/06/02	
13/01/03	CQM filters to RAL	]	Due 15/10/02	
03/02/03	PFM 300mK filters to JPL	]	Due 15/01/03	
01/08/03	PFM filters to RAL	]	Due 22/05/03	
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				
Cardiff schedule completely updated – current version is Cardiff_spire_4_0.mpp				
Milestones listed in section 12 updated to reflect current schedule				

Work Package 300mK straps			
1. Subsystem Progress Since Project Inception			
Thermal test dew	var ready		
Thermal interfac	e tests in progress		
MK2 device sele	ected as baseline support design conc	ept	
2. Subsystem	Progress This Month		
Interface therma	l tests in progress		
Mk3 support con	nponents drawings complete – submi	tted for manufacture	29/5/02
Mk3 light baffle	component drawings in progress		
DDR documenta	ition in progress		
Integration plan	in progress		
All interfaces wi	th structure frozen		
3. Problem Are	eas	Remedial Action	<u>n</u>
A Cubauatam	Managantia		
4. Subsystem	Management issues		
5. Engineering	Activities		
6. Design Cha	nges		
Design modifica	tions to improve robustness & reliabil	lity	
7. PA/QA Activities			
None			
8. Actions Red	quiring Immediate Attention		
Resolution of int	erfaces 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
01/07/02	STM 300mK straps to RAL		Due 08/07/02
13 Schedule Changes			
Cardiff schedule completely updated – current version is Cardiff spire 4.0 mpp			
Milestones listed in section 12 updated to reflect current schedule			
DDR date now fixed			

Work Package AIV participation			
1. Subsystem Progress Since Project Inception			
Cryogenic black	body & flip mirror/shutter concept pr	roduced – approved at AIV review	
Conceptual desig	gn presented at AIV DDR.		
2. Subsystem	Progress This Month		
Cryo-modificatio	on of stepper motors successful. Cryc	ogenic testing in progress	
AIV filters subm	itted for manufacture		
3D CAD model of	of test cryostat in vicinity of CBB rece	eived from RAL	
Alternative supp	lier of large area photolithographic pl	lates sourced (for filters), and order placed	
3. Problem Are	eas	Remedial Action	
4. Subsystem	Management Issues		
C. Cumina anim			
5. Engineering	Activities		
none			
6. Design Cha	nges		
7. PA/QA Activ	vities		
PA database now in use			
9. Actions Requiring Immediate Attention			
	· · · · · ·		
10. Status of F	Previous Actions		
None			
11. Activities Yet to be Achieved			
Production of CB	B & flip mirror module.		
Provision of refe	rence detector		
Provision of FTS			
12. Budgets			
13. Milestones		Status	
31/5/02	CBB to RAL	Due 28/8/02	
31/5/02	AIV Filters to RAL	Due 18/7/02	
TBD	FIS to RAL	Due 14/10/02	
IBD	Reference detector to RAL	Due 12/8/02	
14. Schedule Changes			
Cardiff schedule	completely updated – current version	n is Cardin_spire_4_0.mpp	
withestones listed	$\mu$ m section 12 updated to reflect curr		

Work Package JPL BDA test support		
1. Subsystem Performance Progress Since P	roject 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 to	esting	
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 undated to reflect curr	ent schedule	-o-mbb
milestones listed in Section 12 updated to reflect cult	ent seneaule	