SPIRE	Monthly R January (SAp	y <b>99</b>	Subsystem: Date:	Warm Electronics 29/1/99
WPs Covered:		nics management nics system design.		
<ol> <li>Subsystem Pe</li> <li>The response to</li> </ol>	o AO is the baseline.			
<ul> <li>reliable instrum</li> <li>QA activity not</li> <li>Warm electroni detector techno</li> <li>DPU &amp; SPU de with very prelin requirement.</li> </ul>	view, baseline parameter & ent development schedule. started. cs design widely depends on	<ol> <li>Start it.</li> <li>No remedy till fin electronics design Caltech.</li> <li>Work on requiren close collaboratio</li> </ol>	n performed both at ments (system issue n with IFSI & IAC	n. Detector specific CEA, Goddard & at first). Establish a
<ul> <li>4. Engineering A</li> <li>1. A preliminary i</li> <li>2. Prototype simulary</li> </ul>	ctivities ssue of the overall warm electron lation under way. critical component list			
	AO is the baseline.			
6. PA/QA Activitie	9S			
<ul><li>7. Budgets</li><li>1. The response to</li></ul>	AO is the baseline.			
<b>8. Milestones</b> Jan. 2000 SF	PIRE detector selection		atus n schedule	
9. Schedule Char None	nges			

SPIRE		Monthly Report January 99	Subsystem:	CEA detectors
		(SAp)	Date:	29/1/99
WPs Covered	:	CEA Detector Evaluation		
1. Subsystem F	Performance			
1. 32 channels s	ystem.			
2. Problem Area	as	Remedial	Action	
1. None		1.		
	lanagement Issu			
	evaluation schedul nd control system d	e available. esign and development schedu	ıle available.	
	Activities ctronics started of long delay items			
<b>5. Design Chan</b> Original design.	ges			
6. PA/QA Activi	ties			
None				
7. Budgets				
Not relevant				
8. Milestones			Status	
		ll switchbox to QMW plete system to QMW	On schedule On schedule	
9. Schedule Ch None	anges			
INUILE				

SPIRE		Monthly	-		Subsystem:	DPU
	January 99 (IFSI)					
				Date:	29/1/99	
WPs Covered:		Parts Procuren DPU Design	nent for DPU			
	FSOBSA1000	On Board Soft	tware			
1. Subsystem Pe						
Actual baseline is b	ased on the DSP TS	SC21020E with	n EDAC circuitry fo	r a foresee	n speed of 10 M	IIPS
2. Problem Areas	5		Remedial Action	n		
	DH protocol not ye		1. None			
	the Italian Space A		2. In mid Feb the	ere will be	a meeting with	ASI.
	contract with indus					
3. Subsystem Ma	some DPU boards.					
None	inagement issue	5				
1,0110						
· - · · · ·						
4. Engineering A		ustana intanfa	a. I/E maating ash	dulad for	Dah	
			ces. I/F meeting sche nt structure complet		reb.	
2. Simulation pro-		and manugement	ni structure compret			
5. Design Change	es					
None						
6. PA/QA Activiti	es					
None						
7. Budgets						
We have been funde	ed for 1999					
See point two.	a 101 1777.					
r · · · ·						
			-			
8. Milestones			<b>D</b>	Status		
	Draft Instrument Specifications from Project					
	braft S/C interfaces from ESA					
9. Schedule Chai None	nges					

SPIRE	Monthly Januar (IA)	y 99	Subsystem: SPU Date: 29/1/99		
WPs Covered:	SPU Prototype	e development	I		
1. Subsystem Pe	rformance				
<b>2. Problem Areas</b> 1. 2. 3.		Remedial Action 1. 2. 3.			
3. Subsystem Ma	nagement Issues				
1. Preliminary def IEEE1355 stand	PACS-SPU and LFI-REBA proje	ate the EONIC Virt	tuoso O.S., the proposed DSP 21020, the		
5. Design Change	es				
6. PA/QA Activitie	25				
7. Budgets					
8. Milestones			Status		
<b>9. Schedule Char</b> Planned start date: 1	nges /2//99. Planned finish date: 31/12	2/99			

SPIRE	Monthly Januar		Subsystem:	FTS
		(LAŠ)		29/1/99
WPs Covered:	FTS Control e	lectronics		
1. Subsystem Pe	rformance			
1.				
2. Problem Areas	2. Problem AreasRemedia1. None1.			
<b>3. Subsystem Ma</b> 1.	nagement Issues			
<b>4. Engineering A</b> 1. Nothing to repo				
5. Design Change	<del>}S</del>			
6. PA/QA Activitie None	}S			
7. Budgets				
8. Milestones		5	Status	
9. Schedule Char None	iges			

SPIRE	Monthly Januar	·y 99	Subsystem: BACUS Date: 3/2/99			
	(QMW)					
WPs Covered:	BACUS Array	v evaluation unit				
1. Subsystem Pe	rformance / Progress					
<ol> <li>All hermetic co</li> <li>Fold mirror hou</li> <li>Blanking plates</li> <li>He-3 Fridge shi</li> <li>InSb chips bein</li> <li>Stray light anal</li> <li>Cryostat parts s February.</li> <li>Filtration schem</li> </ol>	received, mirrors for other 2 calib nnectors received and distributed using and illuminator mount desig and drive motors complete. elds complete. g tested for potential use as illum ysis in progress at RAL ent back to Precision Cryogenics ne defined (see Jan. QMW meetin scheme has been defined.	to array groups. ned and sent to QMW worksh ination sources. after gold plating at CALTEC	hop for manufacture. CH. Delivery expected mid-			
2. Problem Areas		Remedial Action				
<ol> <li>He-3 fridge has expected to coor it performs well increase the tur</li> <li>Parts sent to RA been sent to a s This could have</li> </ol>	<ul> <li>B. He-3 fridge has problems – taking longer than expected to cool from 300K to 4.2K. After this, it performs well, but this problem will greatly increase the turnaround time.</li> <li>C. Simon Chase is investigating the other 2 fridges for faults should have more information by WK2 Feb. He has replacement parts manufactured if necessary.</li> <li>A. None.</li> </ul>					
3. Subsystem Ma	nagement Issues	ress, and the array test progra	m is being developed, and should			
be in place by WK2						
<ol> <li>Final BACUS of</li> <li>Illumination so</li> <li>6.</li> </ol>	ponents in manufacture by RAL su components in manufacture at QM arces being investigated/develope	IW. Estimated completion 14	letion around 19 <sup>th</sup> February. <sup>h</sup> February.			
5. Design Change	es					
6. PA/QA Activitio	9S					
7. Budgets						
8. Milestones		Status				
9. Schedule Char None	nges	I				

SPIRE	Monthly Report January 99 (QMW/SAp)		Subsystem: Date:	CEA Detectors 03/02/99
WPs Covered:	CEA Array T	est Status		
Will now obtain ind	rformance ed on CEA array #1 – Calibratio ividual VIs for the bolometer and Il also perform optical tests using	d load resistor at diff	erent temperatures. Next ru	
2. Problem Areas 1. Long time to ge increased cycli	t He-3 fridge to 4.2K causes	Remedial Actio Simon Chase is in by WK2 Feb.	<b>n</b> vestigating problem. Shou	ld have resolution
<ol> <li>Control softwar</li> <li>Design Change</li> </ol>	nd interface box has been constru- e has been adapted by SAp for u	se with QMW system		
6. PA/QA Activitie	9S			
7. Budgets				
8. Milestones			Status	
9. Schedule Char None	nges			

SPIRE		Monthly Januar	ry 99		Subsystem:	System Engineering
		(AT			Date:	28/01/99
WPs Covered:		Systems Engir	neering			
1. Subsystem Pe	rformance					
N/A						
<ul> <li>2. Problem Areas</li> <li>1. Some problems with iteration to opto- mechanical design of the instrument, which are holding up work on the interface definitions</li> </ul>			Remedial Action Additional mechanical engineering resources being supplied by RAL			
<b>3. Subsystem Ma</b> Nothing to report	nagement Issu	es				
<ol> <li>4. Engineering Activities         <ol> <li>A new version of the interface matrix has been issued to all subsystem groups. Work continues to define a common internal interface control document (IICD) template. The key data for the identified IICDs, such as responsible people and priorities, have been entered into a database which will be available on the SPIRE Website.</li> <li>Negotiations with the subsystem groups continue, in order to update the IID-B prior to the next ESTEC technical meeting. The recent array meeting was used to emphasise to the array groups the importance of defining the key resource requirements for each option, with a deadline of the end of February set for completion of their interface documents. Particular emphasis was placed on minimising the mass of the focal plane unit and the consequent structural thermal loads, as well as defining practical cold wiring harnesses which again minimise thermal loads on the 2, 4 and 15K stages.</li> </ol> </li> </ol>						CDs, such as the SPIRE ESTEC technical defining the key n of their interface the consequent
5. Design Change Nothing to report	es					
6. PA/QA Activitie ATC SPIRE PA/QA		n appointed - D	avid Henry.			
<b>7. Budgets</b> Nothing to Report						
8. Milestones				Status		
9. Schedule Char None	nges					

SPIRE		Monthly Januar			Subsystem: Date:	Chopper 28/01/99
		( <b>ATC</b> )			Date.	20/01/77
WPs Covered:		Chopper Deve	elopment			
1. Subsystem Pe	rformance					
2. Problem Areas	5		Remedial Actio	n		
3. Subsystem Ma	anagement Issu	es				
<b>4. Engineering A</b> The design of the ch chopper written. An	hopper is on hold				and a revised s	pec. for the
5. Design Change	es					
Nothing to report						
6. PA/QA Activitie	es					
Nothing to report						
7. Budgets						
Nothing to Report						
8. Milestones				Status		
9. Schedule Char	nges			-		
None						

SPIRE	Monthly Januar (Calte	ry 99	Subsystem:         JPL Dete           Date:         01/02/99	
WPs Covered:	JPL detector d			
	_			
1. Subsystem Pe	rformance			
2. Problem Areas		Remedial Action	n	
3. Subsystem Ma	nagement Issues			
<ol> <li>Commercial data</li> <li>100 JFET pairs s</li> <li>Horn arrays for t</li> <li>NTD Ge chips ref</li> <li>NTD Ge chips at</li> <li>New hire at MDI</li> <li>Masks for protot</li> <li>flight system design</li> <li>instead. New JFET</li> </ol>	tys complete through In deposition acquisition system received (here ent to Sunbelt Micro for assembly estbed in manufacture, due end of aceived for arrays. tached to 151-element bolocam a 2 starts 2/1/99. ype JFET module submitted. The As of 12/98, Goddard may not p S require a redesign of the module to vibration issues. We have to pro- breadboarded.	e we are ahead of sc y into 4 25-channel f f March. rray. Ready or etch ese are for emonstrat provide JFETs. Disc e, but we can at leas	hedule). readout modules for the testbed.	onix
6. PA/QA Activitie	28			
Nothing to report				
<b>7. Budgets</b> Nothing to Report				
0 1				
8. Milestones			Status	
9. Schedule Char None	nges			