

SBB1000 - SBD2310

FIRST

SBB1000	Project Office	R Holdaway	1	50,000
	Project Office Staff costs only	R J Emery	2	25,000
		K J King	(PRO) 3	15,000
		J A Long	7	500

SBB1200	Product Assurance FIRST	R Holdaway	1	50,000
	Not Used	R J Emery	2	25,000
		K J King	(PRO) 3	15,000

SBB2000 - SBB2310

FIRST SPIRE

SBB2000	SPIRE - Project Management	R Holdaway	1	50,000
	Project Manager/Development Manager Staff costs PA Manager Staff Costs Project Manager/Development Manager Travel PA Manager Travel PI Travel General Project recurrent	R J Emery	2	25,000
		K J King	(PRO) 3	15,000
		E C Sawyer	3	15,000
		J A Long	6	1,000

SBB2010	SPIRE - External Travel	R Holdaway	1	50,000
	Not Used	R J Emery	2	25,000
		K J King	(PRO) 3	15,000
		J A Long	6	1,000

SBB2030	SPIRE - Systems Engineering	R Holdaway	1	50,000
	System Engineers Staff Costs System Engineers Travel	R J Emery	2	25,000
		B M Swinyard	(PRO) 3	15,000
		K J King	3	15,000
		J Delderfield	4	8,000
		J A Long	6	1,000

SBB2100- SBB2220

SPIRE - AIV and Ground Calibration

SBB2100	SPIRE - AIV	R Holdaway	1	50,000
	Instrument Scientist Staff Costs Instrument Scientist Travel Calibration Scientist Staff Costs AIV Manager Staff Costs General AIV preparation and planning Calibration Planning and Preparation for tests	R J Emery	2	25,000
		B M Swinyard	(PRO) 3	15,000
		K J King	3	15,000
		J A Long	6	1,000

SBB2110	SPIRE - AIV Facility Build	R Holdaway	1	50,000
	Facility Infrastructure Building Costs Provision of Cryostat and Harness Provision of Test Equipment Provision of TFCS Integration and test of Facility, Cryostat, Test Equipment and TFCS Facility Infrastructure running costs (cleaning, laundry)	R J Emery	2	25,000
		B M Swinyard	(PRO) 3	15,000
		K J King	3	15,000
		D L Smith	4	2,000
		M Trower	5	500
		A Pearce	6	500
		J A Long	6	1,000

SBB2120	SPIRE - AIV EGSE	R Holdaway	1	50,000
	Prvision and installation of SCOS machines Provision of CDMS Simulators Provision of PSU Installation and Test of complete EGSE	R J Emery	2	25,000
		B M Swinyard	(PRO) 3	15,000
		K J King	3	15,000
		J Payne	4	8,000
		J A Long	6	1,000

SBB2130	SPIRE - AVM Testing	R Holdaway	1	50,000
<div style="border: 1px solid black; background-color: #ffffcc; padding: 2px;"> Preparation of DPU/OBS Acceptance Test Procedures and Databases Participation in DPU/OBS Acceptance Test Integration and Test of AVM at RAL Execution of OBS Testing at RAL Preparation of AVM Acceptance Test procedures and Databases Execution of AVM Acceptance Test and Delivery to Alenia Support to AVM Testing at Alenia </div>		R J Emery	2	25,000
		KJ King	3	15,000
		BM Swinyard	3	15,000
		DL Smith	4	8,000
		JA Long	6	1,000
		(PRO)		
SBB2140	SPIRE - STM Testing	R Holdaway	1	50,000
<div style="border: 1px solid black; background-color: #ffffcc; padding: 2px;"> Integration of STM at RAL (not including initial integration for MSSL) Warm Vibration Test at RAL Execution of STM Optical and Thermal Tests at RAL Cold Vibration Tests at CSL </div>		R J Emery	2	25,000
		KJ King	3	15,000
		BM Swinyard	3	15,000
		DL Smith	4	8,000
		JA Long	6	1,000
		(PRO)		
SBB2150	SPIRE - CQM Testing	R Holdaway	1	50,000
<div style="border: 1px solid black; background-color: #ffffcc; padding: 2px;"> Preparation of Warm Electronics Tests Procedures Execution of Warm Electronics Tests Preparation of CQM Test Procedures and Databases Integration of CQM Execution of CQM Tests CQM Acceptance Test and Delivery to Astrium Support to CQM Testing at Astrium </div>		R J Emery	2	25,000
		B M Swinyard	3	15,000
		K J King	3	15,000
		DL Smith	4	8,000
		J A Long	6	1,000
		(PRO)		
SBB2160	SPIRE - PFM Testing	R Holdaway	1	50,000
<div style="border: 1px solid black; background-color: #ffffcc; padding: 2px;"> Preparation of PFM Test and Calibration Procedures and Databases Integration and Testing of FM Warm Electronics Integration and Testing of PFM Calibration of PFM PFM Acceptance Test and Delivery to Astrium Support to PFM Testing at Astrium, ESTEC and Kourou </div>		R J Emery	2	25,000
		KJ King	3	15,000
		BM Swinyard	3	15,000
		DL Smith	4	8,000
		JA Long	6	1,000
		(PRO)		
SBB2170	SPIRE - FS Testing	R Holdaway	1	50,000
<div style="border: 1px solid black; background-color: #ffffcc; padding: 2px;"> Integration and Testing of Warm Electronics Integration and Testing of FS Calibration of FS FS Acceptance Test and Delivery to Astrium </div>		R J Emery	2	25,000
		KJ King	3	15,000
		BM Swinyard	3	15,000
		DL Smith	4	8,000
		JA Long	6	1,000
		(PRO)		
SBB2200	SPIRE - Optics Support	R Holdaway	1	50,000
<div style="border: 1px solid black; background-color: #ffffcc; padding: 2px;"> Completion of Straylight </div>		R J Emery	2	25,000
		B M Swinyard	3	15,000
		K J King	3	15,000
		A G Richards	4	8,000
		J A Long	6	1,000
		(PRO)		
SBB2210	SPIRE - Structure Support	R Holdaway	1	50,000
<div style="border: 1px solid black; background-color: #ffffcc; padding: 2px;"> Not Used - Thermal support suspended </div>		R J Emery	2	25,000
		B M Swinyard	3	15,000
		K J King	3	15,000
		J A Long	6	1,000
		(PRO)		
		SBB2220	SPIRE - Feedhorn Support	R Holdaway
<div style="border: 1px solid black; background-color: #ffffcc; padding: 2px;"> Not Used </div>		R J Emery	2	25,000
		B M Swinyard	3	15,000
		K J King	3	15,000
		J A Long	6	1,000
		(PRO)		

SBB2300 - SBB9999

SPIRE - ICC Operations Centre

SBB	Description	Personnel	Rate	Total
SBB2300	SPIRE - ICC Preparation Provision of QLA s/w Provision of QLA Machines Participation in EGSE integration Tests Maintenance of HCSS Software Definition of ICC Software	R Holdaway	1	50,000
		R J Emery	2	25,000
		T G Dimbylow	4	8,000
		K J King (PRO)	3	15,000
		S D Sidher	5	1,000
		J A Long	6	1,000
		M L Kendall	5	5,000
SBB2310	SPIRE - ICC Operations Not Used	R Holdaway	1	50,000
		R J Emery	2	25,000
		T G Dimbylow (PRO)	4	8,000
		K J King	3	15,000
		J A Long	6	1,000
SBB2400	SPIRE - STM Temperature Sensors Purchase of STM Temperature Sensors Invoice Subsystems This cost to be reclaimed from Subsystems	R Holdaway	1	50,000
		R J Emery	2	25,000
		K J King (PRO)	3	15,000
		EC Sawyer	3	15,000
		JA Long	6	1,000
SBB2410	SPIRE - FPU Harness Delivery of FPU Harness design to Tekdata Purchase of Harnesses Invoice Subsystems This cost to be reclaimed from Subsystems	R Holdaway	1	50,000
		R J Emery	2	25,000
		K J King (PRO)	3	15,000
		EC Sawyer	3	15,000
		JA Long	6	1,000
SBB2420	SPIRE - STM FET Box Manufacture of JFET Boxes Invoice MSSL This cost to be reclaimed from Subsystems	R Holdaway	1	50,000
		R J Emery	2	25,000
		K J King (PRO)	3	15,000
		EC Sawyer	3	15,000
		JA Long	6	1,000
SBB2430	SPIRE - CPP Temperature Sensors Purchase of Temperature Sensors for PFM through CPP Invoice Subsystems This cost to be reclaimed from Subsystems	R Holdaway	1	50,000
		R J Emery	2	25,000
		K J King (PRO)	3	15,000
		EC Sawyer	3	15,000
		JA Long	6	1,000
SBB9999	SPIRE - Misc	R Holdaway	1	50,000
		R J Emery (PRO)	2	25,000
		K J King	3	15,000
		J A Long	6	1,000

SBB2031	MIRI
SBB2040	SDL1000
SBB9999	SDL1200
SBB2180	SDL1300
SDR2600	SDL1400
	SDL1500
UKIDC	SDL1600
SDK6000	SDL1700
SDK6100	SDL1800
SDK6200	
SDK6300	
SDK9999	

SBB2031
SBB2040
SBB9999
SBB2180
SDR2600

UKIDC
SDK6000
SDK6100
SDK6200
SDK6300
SDK9999

MIRI
SDL1000
SDL1200
SDL1300
SDL1400
SDL1500
SDL1600
SDL1700
SDL1800