

PFM build

As Built Configuration List

27-Mar-07

SPIRE-RAL-DOC-002326

Issue 2.11

Date	Issue	Sheet	Change	Reason for change
28/06/2004	0.1D	All		First draft
21/09/2004	2.0		column added for PFM1 reqd	
03/02/2005	2.1	all	updated for PFM1 test campaign	
17/08/2005	2.2	all	updated fpr PFM 2 test campaign	
09/11/2005	2.3	FPU	Updated for PFM Cryo-vibration test	
22/11/2005	2.4	FPU	SMEC was CQM now DM	Updated for the PFM cryo-vibration test
26/07/2006	2.5	FPU All	Black Tiles added to photometer cover Build std record included for each test replaced	Correction to CIDL for vibe test
26/07/2006	2.6	All	Updated for PFM-3 Campaign	
21/08/2006	2.7	All	SMEC Fitted Numbers for redundant SCAL thermometers added Flight thermometers for SMEC added	Updated for cryo-vibration test
21/08/2006	2.8	All	Updated for PFM-4 Campaign JFET modules changed	Updated for PFM-4 Campaign
28/02/2007	2.9	All		Updated for delivery

Subsystem	Unit	Item	Drawing/Ref	Supplier	
Structure	Optical Bench Panel	Optical bench panel	5264-302-4	MSSL	
		Photometer Cover	Photometer Cover Wall	5264-302-6	MSSL
			Photometer cover lid	5264-302-10	MSSL
			Photometer Seal- Top	5264-302-7	MSSL
			Photometer Seal- Bottom	5264-302-8	MSSL
		Spectrometer Cover	Spectrometer Cover Wall	5264-303-1	MSSL
			Spectrometer Cover Lid	5264-303-2	MSSL
			Spectrometer seals top	5264-303-4	MSSL
			Spectrometer seals bottom	5264-303-5	MSSL
		FPU Supports	A Frames Stainless steel	5264-302-1	MSSL
			A frames CFRP	B3MD-00.20.017	MSSL
			Fixed Mount Cone, stainless steel	5264-302-5	MSSL
			Fixed mount CFRP cone	B3MD-00.20.022	
			A Frame Support Plates and brackets (both sides)	5264-302-14	MSSL
				5264-302-15	MSSL
				5264-302-26	MSSL
			Insulating Bush	5264-302-2	MSSL
			Special Washer	5264-302-3	MSSL
			Dowel retaining Plate	5264-302-39	MSSL
			Tubular Dowels (8mm)	5264-302-40	MSSL
			Dowel - 'A' Frame support	5264-302-41	MSSL
			Dowel - 'A' Frame Top	5264-302-42	MSSL
			Special Washer - A Frame Brackets	5264-302-43	MSSL
Photometer Box	Photometer detector box		5264-306-1	MSSL	
			5264-306-2	MSSL	
			5264-306-3	MSSL	
			BDA Adapter Plate (5 off)	5264-911	MSSL
			Dichroic rings	5264-310-1	MSSL
				5264-310-2	MSSL
				5264-310-3	MSSL
				5264-311-1	MSSL
				5264-311-2	MSSL
			Detector Box support Cone	5264-312	MSSL
			Detector box support cone CFRP	B3MD-00.20.004	MSSL
			Photometer Detector Box A frames supports(2 per set)	5234-313	MSSL
			Detector box support frames CFRP	B3MD-00.20.009	MSSL
			Washer	5264-313-1	MSSL
			Bushes	5264-313-2	MSSL

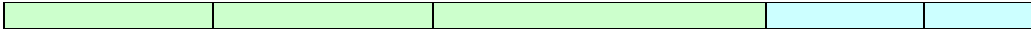
Spectrometer Box	Spectrometer detector box		5264-307-1	MSSL
		Filter mount	5264-307-2	MSSL
		Spectrometer Detector Box supports(3 per set)	5264-307-4	MSSL
		Spectrometer Detector Box supports CFRP (3 per set)	B3MD-00.20.014	MSSL
		BDA Adapter Plate	5264-911	MSSL
		Bushes	5264-307-5	MSSL
SCAL		Scal Box	5264-314-1	MSSL
		SCAI Cover	5264-314-2	MSSL
		SCAL Exit Baffle Ring	5264-314-3	MSSL
		SCAL Baffle Clamp	5264-314-4	MSSL
		SCAL source	PFMB-000	UWC
Mirror Mounts		Secondary optical Bench	5264-305-12	MSSL
		Support PM6	5264-305-13	MSSL
		PM6 Support Spare	5264-305-19	MSSL
		Support PM8	5264-305-14	MSSL
		PM10 Support	5264-305-17	MSSL
		Support SM6	5264-305-2	MSSL
		sm6 Support Spare	5264-305-18	MSSL
		Support SM7	5264-305-3	MSSL
		Bulkhead SM6 and SM7	5264-305-15	MSSL
		Support SM8a	5264-305-4	MSSL
		Support SM9-10a	5264-305-6	MSSL
		Support SM9-10b	5264-305-7	MSSL
		Support SM11a	5264-305-8	MSSL
		Support SM11b	5264-305-9	MSSL
		Support SM12a	5264-305-10	MSSL
		Support SM12b	5264-305-11	MSSL
Other Optics		SFIL2 Cold Stop	5264-305-22	MSSL
		Photometer Cold Stop Clamp PFI3	5264-306-4	MSSL
		Photometer Cold Stop PFI3	5264-306-5	MSSL
		CFIL1 Baffle Mount	5264-304-6	MSSL
		CFIL1 Baffle Clamp Ring	5264-304-7	MSSL
		PFIL2 Mount Back Plate	5264-302-12	MSSL
		PFIL2 Mount CLamp plate	5264-302-17	MSSL
		Filter Mounts - SFIL2	5264-305-20	MSSL
		Filter Mount - SFIL2 clamp ring	5264-305-21	MSSL
		SFIL2 dowels	5264-305-27	MSSL
		SBS 1and 2 Filter mount (2 per set)	5264-305-23	MSSL
		SBS 1and 2 Filter Clamp	5264-305-24	MSSL
		Clamp Plate SFIL -3	5264-307-3	MSSL

Optics	Mirrors	CM3	LAM		
		CM5	LAM		
		PM6	LAM		
		PM7	LAM		
		PM8	LAM		
		PM9	LAM		
		PM10	LAM		
		PM11	LAM		
		SM6	LAM		
		SM7	LAM		
		SM8A	LAM		
		SM9A	LAM		
		SM10A	LAM		
		SM11A	LAM		
		SM12A	LAM		
		SM8B	LAM		
		SM9B	LAM		
		SM10B	LAM		
		SM11B	LAM		
		SM12B	LAM		
		SCCA1	LAM		
		SCCA2	LAM		
		SCCB1	LAM		
		SCCB2	LAM		
			Filters	CFIL1	UWC
				PFIL-2	UWC
		PFIL-3		UWC	
		PDIC-1		UWC	
		PDIC-2		UWC	
		PFIL-4S		UWC	
		PFIL-5S		UWC	
		PFIL-4M		UWC	
		PFIL-5M		UWC	
		PFIL-4L		UWC	
		PFIL-5L		UWC	
		PFIL-6L		UWC	
	SBS1	UWC			
	SBS2	UWC			
	SFIL2	UWC			
	SFIL3S	UWC			
	SFIL3L	UWC			
	SFIL4S	UWC			
	SFIL5S	UWC			
	SFIL6S	UWC			
	SFIL4L	UWC			
	SFIL5L	UWC			
	SFIL6L	UWC			

Black Tiles		On Baffle near SM9A Mirror	BAFSM9A	RAL
		Photometer Cover -X Inner face	CMX-01	RAL
		Photometer Cover -Y Inner face	CMY-01	RAL
		Photometer Cover +Z Inner face	CPZ-01	RAL
		Below CM3 on Optical Sub-bench	OSB-01	RAL
		Below CM3 on Optical Sub-bench	OSB-02	RAL
		Phot Box Bottom Cover	PBB-01	RAL
		Phot Box Bottom Cover	PBB-02	RAL
		Phot Box Bottom Cover	PBB-03	RAL
		Photometer Box Bottom Cover	PBB-04	RAL
		Photometer Det. Box Bottom Cover	PBB-05	RAL
		Phot. Box Bottom Cover	PBB-06	RAL
		Phot. Box Lid	PBL-01	RAL
		Photometer Detector Box Spine	PBS-01	RAL
		Photometer Detector Box Spine	PBS-02	RAL
		Photometer Detector Box Spine	PBS-03	RAL
		Photometer Cold Stop	PCS	RAL
		S-Cal Box outer wall	SCB-01	RAL
		S-Cal Box inside wall	SCB-02	RAL
		S-Cal Box inside wall	SCB	RAL
		Det Box Level-0 Strat-Light Baffle	SLB	RAL
		SM 12A	SM12A	RAL
		SM12B	SM12B	RAL
		Inout Baffe Minus Y Face	SMY-01	RAL
		Inout Baffe Minus Y Face	SMY-02	RAL
		Inout Baffe Minus Y Face	SMY-03	RAL
		Inout Baffe Minus Y Face	SMY-04	RAL
		Input Baffle Minus Z face	SMZ-01	RAL
		Inout Baffe Plus Y Face	SPY-01	RAL
		Inout Baffe Plus Y Face	SPY-02	RAL
		Inout Baffe Plus Y Face	SPY-03	RAL
		Inout Baffe Plus Y Face	SPY-04	RAL
		Inout Baffe Plus Y Face	SPY-05	RAL
		Input Baffle Plus Z Face	SPZ-01	RAL
		Input Baffle Plus Z Face	SPZ-02	RAL
		Input Baffle Plus Z Face	SPZ-03	RAL
		Input Baffle Plus Z Face	SPZ-04	RAL
Beam steering mirror		Mechanism assembly	SPIRE-BSM-006-001	ATC
3He Cooler		Cooler s/n 1	2000-14B-000	SBT

300 mK thermal straps and supports		Bus Bar Upper	5264-306-7	MSSL
		Busbar Lower	5264-306-8	MSSL
		BDA-Busbar Flange	5264-306-9	MSSL
		Bus Connector PLW	5264-306-10	MSSL
		Bus Junction ans PMW Connector	5264-306-11	MSSL
		Bus Junction Clamp Plate	5264-306-12	MSSL
		Light Trap to Bus Junction	5264-306-13	MSSL
		Bus Connector PSW	5264-306-14	MSSL
		BDA-Busbar Flange	5264-306-15	MSSL
		PLW Bus Strap	5264-306-16	MSSL
		PMW Bus Strap	5264-306-17	MSSL
		PSW Bus Strap	5264-306-18	MSSL
		End stop Photometer Light Trap	5264-306-19	MSSL
		Light Trap Feed Through - Photometer	5264-306-20	MSSL
		Stop Bush -Bus Bar Mountings	5264-306-21	MSSL
		Light Trap Feedthrough spect.	5264-307-6	MSSL
		Light Baffle Junction	5264-307-7	MSSL
		SSW Spect. BDA to light trap strap (5N Cu not annealed)	5264-307-8	MSSL
		SLW Spect. BDA to Light Trap Strap (5N Cu not annealed)	5264-307-9	MSSL
		BDA Cold Interface Spectrometer	5264-307-10	MSSL
		Bush inner Spectrometer light trap	5264-307-11	MSSL
		Bush outer Spectrometer light trap	5264-307-12	MSSL
		Cold Strap Support	5264-307-13	MSSL
		Photometer Baffle	LTS PFM-300	UWC
		Spectrometer Baffle	LTS PFM-400	UWC
L0 Thermal Straps		Detector Box I/F	5264-309-02	MSSL
		Cooler Pump I/F	5264-309-02	MSSL
		Cooler Evap I/F	5264-309-02	MSSL
300 mK Thermal control system		PTC system s/n 2	10217660-1	JPL
BDA	Photometer LW array	10209800-1	s/n 14	JPL
	Photometer MW array	10209800-2	s/n 12	JPL
	Photometer SW array	10209800-3	s/n 13	JPL
	Spectrometer SW	10209800-5	s/n 09	JPL
	Spectrometer LW	10209800-4	s/n 08	JPL

SMEC	FM	LAM.SSP.SPI.ADP.041020		LAM
PCAL	FM	PCAL assembly	PCAL-PFM-000	UWC
FPU RF Filters	Box	RFI Filter Bracket Corner Bracket	A2/5264/302-27	MSSL
		Tempory RFI Bracket	A2/5264/302-28	MSSL
		RFI Filter Frame Edge Bracket	A2/5264/302-29	MSSL
	RF Filter Modules	RF-13	10209780-1	JPL
		RF-14	10209780-2	JPL
		RF-15	10209780-3	JPL
		RF-16	10209780-4	JPL
		RF-17	10209780-5	JPL
		RF-18	10209780-6	JPL
		RF-19	10209780-7	JPL
		RF-21	10209780-8	JPL
		RF-22	10209780-9	JPL
		RF-23	10209780-10	JPL
		RF-24	10209780-11	JPL
		RF-25	10209780-12	JPL
FPU internal harnesses		F1 PSW BDA J01 to HSJFP J29	relabled J31	Tekdata
		F2 PSW BDA J02 to HSJFP J30	relabled J32	Tekdata
		F3 PSW BDA J03 to HSJFP J31		Tekdata
		F4 PSW BDA J04 to HSJFP J32		Tekdata
		F5 PSW BDA J05 to HSJFP J33		Tekdata
		F6 PSW BDA J06 to HSJFP J34		Tekdata
		F7 PLW BDA J01 to HSJFP J35		Tekdata
		F8 PLW BDA J02 to HSJFP J36		Tekdata
		F9 PMW BDA J01 to HSJFP J37	relabled J39	Tekdata
		F10 PMW BDA J02 to HSJFP to J38	relabled J40	Tekdata
		F11 PMW BDA J03 to HSJFP to J39		Tekdata
		F12 PMW BDA J04 to HSJFP to J40		Tekdata
		F13 SSW BDA J05 to HSJFS J11		Tekdata
		F14 SSW BDA J06 to HSJFS J12		Tekdata
		F15 SLW BDA J01 to HSJFS J13 (plus PTC Cold harnessing – F28)		Tekdata
		F16 COOLER-P to FPU J19A		Tekdata
		F17 COOLER-R to FPU J20A		Tekdata
		F18 SCal-P to FPU J21A		Tekdata
		F19 SCal-R to FPU J22A		Tekdata
		F20 THERM-P to FPU J23A		Tekdata
		F21 THERM-R from FPU J24A		Tekdata
		F22 BSM-P to FPU J25A		Tekdata
		F23 BSM-R to FPU J26A		Tekdata
		F24 SMEC Launch (Prime) connected to FPU J27A		Tekdata
		F25 SMEC Control (Prime) connected to FPU J29A		Tekdata
		F26 SMEC Launch (Red.) connected to FPU J28A		Tekdata
		F27 SMEC Control (Red.) connected to FPU J30A		Tekdata



Thermometers				
Level 1	HSFPU Harness Filter Bracket	EMCFIL_1	CX-1030	RAL
		EMCFIL_2	CX-1030	RAL
	M3,5,7 Optical Sub Bench	T_SUB_1	CX-1030	RAL
		T_SUB_2	CX-1030	RAL
	Input Baffle	T_BAF_1	CX-1030	RAL
		T_BAF_2	CX-1030	RAL
	BSM/SOB I/F (SOB side)	T_BSMS_1	CX-1030	RAL
		T_BSMS_2	CX-1030	RAL
	SCAL Structure	T_SCST_1	CX-1030	Cardiff
		T_SCST_2	CX-1030	Cardiff
	SCAL 4%	T_SCL4_1	CX-1030	Cardiff
		T_SCL4_2	CX-1030	Cardiff
	SCAL 2%	T_SCL2_1	CX-1030	Cardiff
		T_SCL2_2	CX-1030	Cardiff
	BSM	T_BSMM_1	CX-1030	RAL
		T_BSMM_2	CX-1030	RAL
	SMEC	T_FTSM_1	CX-1030	LAM
		T_FTSM_2	CX-1030	LAM
	SMEC/SOB I/F	T_FTSS_1	CX-1030	LAM
		T_FTSS_2	CX-1030	LAM
Level 0	Cooler Pump	T_CPHP_1	CX-1030	CEA
		T_CPHP_2	CX-1030	CEA
	Cooler Shunt	T_CSHT_1	CX-1030	CEA
		T_CSHT_2	CX-1030	CEA
	Cooler Evap	T_CEV_1	CX-1030	CEA
		T_CEV_2	CX-1030	CEA
	Cooler Pump Heat Switch (sieve)	T_CPHS_1	CX-1030	CEA
		T_CPHS_2	CX-1030	CEA
	Cooler Evap Heat Switch (sieve)	T_CEHS_1	CX-1030	CEA
		T_CEHS_2	CX-1030	CEA
	Photometer Level 0 Enclosure	T_PL0_1	CX-1030	RAL
		T_PL0_2	CX-1030	RAL
	Spectrometer Level 0 Enclosure	T_SL0_1	CX-1030	RAL
		T_SL0_2	CX-1030	RAL

Unit	P No	Module s/n	Board s/n	Channel	Supplier
JFET Structure					RAL
JFET Modules 10209750-1	P1	19	42	PSW	JPL
	P2	20	50	PSW	JPL
	P3	19	44	PSW	JPL
	P4	20	51	PSW	JPL
	P5	16	40	PSW	JPL
	P6	16	45	PSW	JPL
	P7	17	43	PLW	JPL
	P8	17	41	PLW	JPL
	P9	15	35	PMW	JPL
	P10	12	22	PMW	JPL
	P11	15	34	PMW	JPL
	P12	12	23	PMW	JPL
JFET Structure					RAL
JFET Modules 10209750-1	S1	24	59	SSW	JPL
	S2	24	60	SSW	JPL
	S3	14	36	SLW	JPL
	T1	14	37	PTC	JPL

Warm Electronics

Subsystem	Serial No	Unit	Item	Drawing/Ref	Supplier
DCU	PFM	DCU			
			LIA P1		SAP
			LIA P2		SAP
			LIA P3		SAP
			LIA P4		SAP
			LIA P5		SAP
			LIA P6		SAP
			LIA P7		SAP
			LIA P8		SAP
			LIA P9		SAP
			LIA S1		SAP
			LIA S2		SAP
			LIA S3		SAP
			Data Acq - P		SAP
			Data Acq - R		SAP
			Bias - P		SAP
			Bias - R		SAP
FCU	PFM				
		PSU	PSU-P		SAP
			PSU-R		SAP
		SCU	SCU-P		SAP
			SCU-R		SAP
		MCU	MCU-P		LAM
			MCU-R		LAM
DPU		DPU	DPU-P		IFSI
			DPU-R		IFSI

OBSW		
Version	date	
2.2.G	16/01/2007	