



# SPIRE Technical Note

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Document List for the SPIRE CDR

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## System/Instrument Levels Documents

Name	Reference and current issue	Issue	Date	Status
<b>Interfaces and Design Description</b>				
IID-B	SCI-PT-IIDB-SPIRE-02124 SPIRE-ESA-DOC-000275	3.3		Being updated by Alcatel
Instrument Requirements Document	SPIRE-RAL-PRJ-00034	1.2	30/5/03	
System Budget Report	SPIRE-RAL-PRJ-000450	4	1/6/03	
Harness Definition Document	SPIRE-RAL-PRJ-000608	1.1	5/3/03	Update required
Optics Config Control Spreadsheets	SPIREConfig42.xls SPIRE-LAM-PRJ-000761	4.2	20/06/02	
<b>SPIRE Cryogenic Thermal Design Requirements</b>	<b>SPIRE-RAL-PRJ-002075</b>	<b>Draft B</b>		
SPIRE Thermal Configuration Control document :	SPIRE-RAL-PRJ-000560	Draft 11		
SPIRE Cryogenic Thermal Interface Control Document	SPIRE-RAL-PRJ-002076.	Draft A		
<b>Instrument development plan</b>				
Calibration Requirements	SPIRE-RAL-PRJ-001064	draft	3/1/02	
Design Description	SPIRE-RAL-PRJ-000620	2	15/5/03	
Data ICD	SPIRE-RAL-PRJ-001078			
Operating Modes Document	SPIRE-RAL-PRJ-000320			
Operating the SPIRE Instrument	SPIRE-RAL-DOC-000768			
<b>FMECA etc</b>				
System Interface FMECA	SPIRE-RAL-PRJ-001260	1	1/11/02	
HSIA Worksheets	SPIRE-RAL-NOT-001719			
FDIR Procedure Definition	SPIRE-RAL-PRJ-001978			
<b>Interface FMECA qualification status report for CDR</b>	<b>SPIRE-RAL-NOT-002087</b>	<b>1.0</b>	<b>12/07/04</b>	
<b>Test Plan/Procedures</b>				
<b>AIV Plan</b>	<b>SPIRE-RAL-PRJ-000410</b>	<b>3 Draft</b>	<b>25/5/03</b>	
Alignment Plan	SPIRE-LAM-PRJ-000445	1	1/11/02	
Alignment Procedure/Sequence	SPIRE-LAM-PRC-002089 LAM-OPT-SPI-PRC-031203 superseding "Alignment Sequence04.xls" LAM.PRJ.000637v4 (27/09/02)	1	18/5/04	
SM Vibration Test specification	SPIRE-MSS-PRJ-001841	2		
CQM cold vibration test plan	SPIRE-RAL-DOC-1955	1	4/6/04	
CQM cold vibration test procedure	SPIRE-RAL-PRC-001956	3	30/3/04	
SM/CQM Integration Procedure	SPIRE-MSS-PRJ-001650	3	22/5/03	
<b>CQM Instrument level Test Plan</b>	<b>SPIRE-RAL-DOC-001049</b>	<b>2.0</b>	<b>8/7/04</b>	
CQM Cold Verification 1 Master Procedure	SPIRE-RAL-DOC-001888	1	22/01/04	
<b>Integration and Handling Procedure</b>				
Integration and Handling Procedure	SPIRE-RAL-PRC-001923	1	20/5/04	
<b>PFM 1 Test Plan</b>	<b>SPIRE-RAL-DOC-002055</b>	<b>0.1</b>	<b>2/07/04</b>	
<b>Test Reports</b>				
SM Vibration Report	MSSL-TECHNOTE-SPIRE21 SPIRE-MSS-REP-001878	1	Oct 03	
<b>AM Alignment Reports:</b>	<b>SPIRE-LAM-REP-002090</b> <b>LAM.LOOM.SPI.NOT.031024</b>	<b>1.0</b>	<b>18/11/03</b>	



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General summary of all tests (ambient and cold for STM) in <i>Kjetil Dohlen, Alain Origne, Marc Ferlet, Optical alignment verification of the Herschel-SPIRE instrument</i>	SPIRE-LAM-PUB-0020911.0 <i>Proceedings of SPIE conference 5487 (Glasgow 2004)</i>	1.0	25/06/04	
CQM warm alignment verification: Summary of tests and results	SPIRE-RAL-NOT-001807	2.0	07/07/2004	
CQM Functional Test Report	SPIRE-RAL-REP-002084	1.0	12/07/04	
CQM Performance Test Report	SPIRE-RAL-REP-002083	Draft	14/07/04	Added 14/07/04
CQM Vibration Test Report	SPIRE-MSS-REP-002049	1.1	June 04	
CQM Post Vibration Test Inspection Report	SPIRE-RAL-REP-002007	1.2	13/07/04	Added 14/07/04
Thermal Validation Report	SPIRE-RAL-REP-002078	A Draft	15/07/04	Added 16/07/04
Log books?	Logbooks was maintained (handwritten) for all the ambient and cold STM alignment verification campaign + CQM extra modif/verify; on computer file for PFM (see Q: disc)			On going
<b>Verification Matrices</b>				
SM Verification Matrix	SPIRE-RAL-PRJ-001860	1	21/11/03	
AM Verification Matrix	SPIRE-RAL-PRJ-001861	1	21/11/03	
CQM 1 Verification Matrix Report	SPIRE-RAL-REP-002095	Draft	14/07/04	Added 14/07/04
<b>PA</b>				
Master NCR List	SPIRE-RAL-PRJ-001079	4	12/7/04	
Master RFW list	SPIRE-RAL-PRJ-001081	3	12/7/04	
Master ECR list	SPIRE-RAL-PRJ-001080	3	12/7/04	

## Sub System Documents

### DRCU Documents

Name	Reference and current issue	Issue Date	Status
DRCU Specifications document	SPIRE-SAP-PRJ-000461 1.0 (SAp-SPIRE-Cca-0025-00 1.0)	14/02/2003	
DRCU ICD	SPIRE-SAP-PRJ-000451 1.0 (SAp-SPIRE-Cca-0075-02 1.0)	14/02/2003	
DRCU/DPU ICD	SPIRE-SAP-PRJ-001364 1.1 (SAp-SPIRE-CCa-076-02)	25/6/04	
DCU EM/Test Report	SPIRE-SAP-REP-001942 1.0 Sap-SPIRE-CCa-0129-03	15/09/03	
SCU QM1 Test Report	SPIRE-SBT-REP-002092 0.4 SEDI-SCU-MM-2003-1	15/09/03	
DCU Cold Test with JPL Baccus Cryostat	SPIRE-SAP-REP-002093 1.0	17/11/03	
DCU design document	SAp-SPIRE-FP-0063-02 0.3 SPIRE-SAP-PRJ-001243	18/02/2003	
Test plan DAQ IF	SAp-SPIRE-FP-0067-02 0.1 SPIRE-SAP-PRJ-001603	18/02/2003	
Test plan BIAS	SAp-SPIRE-FP-0066-02 0.1	18/02/2003	



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	SPIRE-SAP-PRJ-001604		
Test plan LIA P	SAP-SPIRE-FP-0064-02 0.1 SPIRE-SAP-PRJ-001605	18/02/2003	
Test plan LIA S	SAP-SPIRE-FP-0065-02 0.1 SPIRE-SAP-PRJ-001606	18/02/2003	
SPIRE test configuration	SAP-SPIRE-LD-0015-01 3.0	08/2001	
FPU simulator specifications for DCU / SCU test	SIG-SPIRE-PdA-0030-01 3.0 SPIRE-SAP-PRJ-000638	14/02/2003	
SPIRE LTU specifications	SAP-SPIRE-FD-0071-02 1.0 SPIRE-SAP-DOC-001566	22/04/2002	
DRCU AIV Plan	SAP-SPIRE-HT-0082-02 1.3 SPIRE-SAP-PRJ-001569	05/11/2002	
SCU design document	SEDI-SCU-MM-2002-1 0.7 SPIRE-SAP-PRJ-001395	17/02/2003	
PSU SPIRE specification	SAP-SPIRE-DS-012-02 1.1 SPIRE-SAP-PRJ-001567	11/12/2002	
MCU Design Description	LAM/ELE/SPI/000619 SPIRE-LAM-PRJ-000647		
SMEC/MCU Development Plan	LAM.PJT.SPI.NOT.200001 SPIRE-LAM-PRJ-000476		
MCU Test Reports			

## DPU Documents

Name	Reference and current issue	Issue Date	Status
DPU Specifications document	SPIRE-IFS-PRJ-000462 1.2	26 Nov 01	
SPIRE DPU ICD	SPIRE-IFS-PRJ-000650 1.4	24 Mar 03	
DPU design document	SPIRE-IFS-PRJ-001389		This is AVM only - to be updated to flight
DPU User Manual	SPIRE-IFS-PRJ-001390		ditto
AVM DPU EIDP	SPIRE-IFS-REP-001385		
DPU/ICU Spacecraft Interface Test Plan	CNR.IFSI.2001TR04 1.1 SPIRE-IFS-PRJ-001756	Sep 02	
DPU AIV Plan	SPIRE-IFS-DOC-001028 1.1	Feb 02	
DPU Design Verification Matrix	SPIRE-IFS-PRJ-001596 1.0	Apr 03	
AVM Test Reports			
Summary (not very useful!)	SPIRE-IFS-REP-001394 1.0	Oct 02	
1553 Interface Test	SPIRE-IFS-REP-001385 1.0	Oct 02	
NCR List	?		
DPU Qualification Plan	?		
Qualification Test Reports	?		
DPU Qualification Matrix	?		

## On Board Software

Name	Reference and current issue	Issue Date	Status
User Requirements Document	SPIRE-IFS-PRJ-000444 1.2	May 03	
Autonomy Requirements Document	SPIRE-RAL-PRJ-001855		
Peak-up Mode Requirements	SPIRE-RAL-PRJ-001969 Draft 1	23/03/04	
Software Specification Document	SPIRE-IFS-PRJ-001036 1.0	Jun 03	
OBS User Manual	SPIRE-IFS-PRJ-001391		
OBS System Verification and Validation Plan	SPIRE-CGS-DOC-001776 4.0	Nov 03	
OBS Version 1 Test Report			
List of SPRs	SPIRE-RAL-DOC-002069 Draft 1	02/07/04	
OBS Verification matrix			



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Additionally the Project Plan needs to be updated to reflect the latest schedule for deliveries of versions 1.2 and 1.3, including updated/missing documentation and a resource plan.

## Cooler Documents

Name	Reference and current issue	Issue Date	Status
SPIRE Sorption Cooler Specifications	SPIRE-SBT-PRJ-000458 (3.6 HSO-SBT-SP-001)	18/03/04	3.7 to be issued
SPIRE Sorption Cooler ICD	SPIRE-SBT-PRJ-000690 (2.1 HSO-SBT-ICD-012)	March 04	
SPIRE Sorption Cooler AIV Plan	HSO-SBT-PL-0013 2.3 SPIRE-SBT-PRJ-001002	June 04	(2.4 to be issued (correction on verification matrix))
Cooler Development Plan	HSO-SBT-PL-002 4.1 SPIRE-SBT-PRJ-000468	Nov 03	
Cooler Operating Manual	HSO-SBT-TN-086 1.0 SPIRE-SBT-DOC-002073	June 04	
Cooler CQM EIDP	SPIRE-SBT-DOC-0002080		
SPIRE Sorption Cooler Verification Procedures	CQM EIDP		
SPIRE Cooler Verification Matrix	CQM EIDP		
Cooler CQM Test Reports	CQM EIDP		
NCR List	EIDP		
Cooler Qualification Test Reports	CQM EIDP		
Cooler Qualification Matrix	CQM EIDP		

## Beam Steering Mirror Documents

Name	Reference and current issue	Issue Date	Status
Beam Steering Mirror Specifications	SPIRE-ATC-PRJ-000460 3.7	11 Sep 03	
Beam Steering Mirror ICD	SPIRE-ATC-PRJ-001171 3.1	26 Nov 03	
BSM design description document	SPIRE-ATC-PRJ-000587 4.1	Feb 02	
BSM Development Plan	SPIRE-ATC-PRJ-0466 5.1	Jan 02	
BSM Test Plan	SPIRE-ATC-PRJ-000736 4.0	Nov 03	
BSM PFM EIDP	SPIRE-ATC-DOC-000738	Jun 04	
BSM Qualification and Verification Matrix	In EIDP		
BSM DM/QM Test Reports			
NCR List	In EIDP		
BSM Qualification Test Reports			

## BDA/JFET/RF Filters Documents

Name	Reference and current issue	Issue Date	Status
BDA Specifications	SPIRE-JPL-PRJ-000456 3.2	7 Jan 03	
BDA ICD	SPIRE-JPL-PRJ-001181 2.0 D-21995	26/02/02	Added 15/07/04
JFET Test Plan	JPL D-20549		
BDA Test Plan	JPL D-20549		
Verification Matrix	JPL D-20549 SPIRE-JPL-001718	May 02	
CQM BDA PLW EIDP			
CQM JFET EIDP	SPIRE-JPL-DOC-002039		
RF Filter EIDP	SPIRE-JPL-DOC-002034 SPIRE-JPL-DOC-002032		
JFET Back Harness EIDP	SPIRE-JPL-DOC-002036 SPIRE-JPL-DOC-002033		
PFM SSW EIDP			
PFM SSW Compliance Matrix	SPIRE-JPL-PRJ-002054	01/07/04	



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	Draft		
PFM SLW EIDP	SPIRE-JPL-DOC-002044		
PFM SLW Compliance Matrix	SPIRE-JPL-PRJ-001983	01/07/04	Draft
NCR List	See EIDPs		

## SMEC

Name	Reference and current issue	Issue Date	Status
SMEC Specifications	SPIRE-LAM-PRJ-000459 Ind 8	Oct 01	
SMEC ICD	SPIRE-LAM-PRJ-000944 1.0 (SPI.PFM.00.R1.01.A)	Oct 01	
SMEC design description document	LAM.PJT.SPI.NOT.200008 Ind 4 SPIRE-LAM-PRJ-000921	Oct 01	
SMEC/MCU Development Plan	LAM.PJT.SPI.NOT.200001 SPIRE-LAM-PRJ-000476		
Verification Procedures	?		
Verification Matrix	?		
CQM Test Reports	?		
NCR List	?		
Qualification Test Reports	?		
Qualification Matrix	?		

## Optics

Name	Reference and current issue	Issue Date	Status
Mirrors Specifications	LAM.PJT.SPI.SPT.200007 Ind 9 SPIRE-LAM-PRJ-000457	Sept 2001	
ICD (in Mirrors PFM EIDP)	Drawing SPI.MIR.00.DI.01.A in SPIRE-LAM-DOC-002079 LAM.QUA.SPI.ADP.030040_10 Is 1 Rev 1	June 2004	EIDP held by Project Office
Optical design document	SPIRE-LAM-PRJ-000447 1.0	Dec 2000	
AIV/Qualification Plan	LAM.PJT.SPI.NOT.200006 Ind 3	Mar 2001	
Mirrors & Alignment Tools Development Plan	SPIRE-LAM-PRJ-000474		
PFM Mirrors EIDP	LAM.QUA.SPI.ADP.030040_10 Is 1 Rev 1 SPIRE-LAM-DOC-002079	June 2004	
Verification Procedures	?		
Verification Matrix	?		
CQM Test Reports	Written but not issued?		
NCR List	See EIDP		
Qualification Test Reports	?		
Qualification Matrix	?		

## Structure

Name	Reference and current issue	Issue Date	Status
Structure Specification	SPIRE-MSS-PRJ-000427 2.0	29/11/02	
Structure Design and Development Plan	SPIRE-MSS-PRJ-000426 2.0	2/12/02	
ICD	SPIRE-MSS-PRJ-000617 3.0	Feb 2003	Issue 4.0 in draft form at moment
Structure Integration and Handling Procedure	MSSL/SPIRE/SP011.03	May 2003	Version 4 is in preparation
STM Structure EIDP	MSSL/SPIRE/PA007.01 SPIRE-MSS-DOC-002043		
PFM Structure EIDP	MSSL/SPIRE/PA012.01		In preparation
Verification Matrix			
NCR List	See EIDP		Will be in EIDP for PFM



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Qualification Matrix	SM Matrix		
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## PCAL/SCAL

Name	Reference and current issue	Issue Date	Status
PCAL Specifications	SPIRE-QMW-PRJ-001101 1.0	07/09/01	
SCAL Specifications	SPIRE-QMW-PRJ-001105 1.0	07/09/01	
ICDs SCAL PCAL	SPIRE-UCF-PRJ-001149 3.0 SPIRE-UCF-PRJ-001150 3.0	30/04/04 17/05/04	
PCAL design document	HSO-CDF-DD-034 SPIRE-QMW-PRJ-001100		
SCAL design document	HSO-CDF-DD-033 SPIRE-QMW-PRJ-001104		
SCAL/PCAL Development Plans	HSO-CDF-PL-004 HSO-CDF-PL-006		
CQM PCAL EIDP			
CQM SCAL EIDP	SPIRE-UCF-DOC-001938 1.0	Feb 04	
Qualification/Verification Matrix	SCAL PCAL In EIDP		
CQM Test Reports	SCAL PCAL in EIDP		
NCR List	SCAL PCAL In EIDP		
Qualification Test Reports	SCAL PCAL In EIDP		

## Optical Filters

Name	Reference and current issue	Issue Date	Status
Filter Specifications	SPIRE-QMW-PRJ-000454 2.0	07/09/01	
ICD	SPIRE-UCF-PRJ-001151 3.0	05/06/03	
Filters Development Plan	HSO-CDF-PL-005		
CQM EIDP	HSO-CDF-EIDP-056 1.0	Oct 03	
PFM EIDP for CFIL1 .PFIL2,PFIL3,SFIL2,SFIL3S,SFIL3L	HSO-CDF-EIDP-059 1.0	Mar 04	
Qualification/Verification Matrix	See EIDPs		
CQM Test Reports	See EIDPs		
NCR List	See EIDPs		
Qualification Test Reports	See EIDPs		

## 300 mK System

Name	Reference and current issue	Issue Date	Status
300 mK System Requirements	SPIRE-RAL-PRJ-001323 0.1 Draft	04/07/02	
ICDs			
300 mK supports design description	SPIRE-UCF-PRJ-001688 2.0		
300 mK supports EIDP			
PTC Design Drawings			
DM/CQM Test Reports			
NCR List			
Verification Test Reports			
Qualification Matrix			