



Document List for the SPIRE CDR

B. Swinyard

**System/Instrument Levels Documents**

We'll put the numbers in for these later

Name	Reference and current issue	Issue Date	Status
<b>Interfaces and Design Description</b>			
IID-B and interface drawings			
Instrument Requirements Document			
System Budget Report			
Harness Definition Document			
Optics Config Control Spreadsheets			
Thermal Config Control Document			
Qualification Requirements (Plan)			
Calibration Requirements			
Design Description			
Data ICD			
Operating Modes Document			
Operating the SPIRE Instrument			
<b>FMECA etc</b>			
System Interface FMECA			
HSIA Worksheets			
FDIR Procedure Definition			
<b>Test Plan/Procedures</b>			
CQM AIV Plan			
Alignment Procedures			
Vibration Procedures			
CQM Integration Procedure?			
CQM Master Test Procedure			
AVM Test Procedure			
PFM AIV Plan			
PFM1 Integration Procedure			
PFM1 Master Test Procedure			
<b>Test Reports</b>			
SM Vibration Report			
AM Alignment Reports			
CQM Functional Test Report			
CQM Performance Test Report			
CQM Vibration Test Report			
CQM Post Vibration Test Inspection Report			
Thermal Validation Report?			
Log books?			
AIV Facility Test Report(s)			
<b>Verification Matrices</b>			
SM Verification Matrix			
AM Verification Matrix			
CQM Verification Matrix(ces)			
<b>PA</b>			
Master NCR List			
Master RFD list			
<i>Anything else?</i>			



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## 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	To be updated DCU – see HR-SP-RAL-ECR-067 (JJB's BDA SSSD update) plus NCR close out SCU – see HR-SP-RAL-ECR-067 plus NCR close out MCU – NCR close out
DRCU ICD	SPIRE-SAP-PRJ-000451 1.0 (SAP-SPIRE-Cca-0075-02 1.0)	14/02/2003	To be updated – see SPIRE-RAL- MOM-001974
DRCU DPU ICD	SPIRE-SAP-PRJ-001364 1.0 (SAP-SPIRE-Cca-0076-02 1.0)	14/02/2003	?
DCU design document	SAP-SPIRE-FP-0063-02 0.3	18/02/2003	To be updated to reflect changes in design – NCR close out
Test plan DAQ IF	SAP-SPIRE-FP-0067-02 0.1	18/02/2003	No change?
Test plan BIAS	SAP-SPIRE-FP-0066-02 0.1	18/02/2003	To be updated – see HR-SP-RAL- ECR-067 - change to test of noise
Test plan LIA P	SAP-SPIRE-FP-0064-02 0.1	18/02/2003	<i>Ditto</i>
Test plan LIA S	SAP-SPIRE-FP-0065-02 0.1	18/02/2003	<i>Ditto</i>
SPIRE test configuration	SAP-SPIRE-LD-0015-01 3.0	08/2001	No change
FPU simulator specifications for DCU / SCU test	SIG-SPIRE-PdA-0030-01 3.0	14/02/2003	No change
SPIRE LTU specifications	SAP-SPIRE-FD-0071-02 1.0	22/04/2002	No change
DRCU AIV Plan	SAP-SPIRE-HT-0082-02 1.3	05/11/2002	?
SCU design document	SEDI-SCU-MM-2002-1 0.7	17/02/2003	Up date to reflect changes in design of PTC heater circuit; any changes from NCR close out and changes to interface from ICD pdate.
PSU SPIRE specification	SAP-SPIRE-DS-012-02 1.1	11/12/2002	No change?
MCU Design Description	LAM/ELE/SPI/000619		To be updated
SMEC/MCU Development Plan	LAM.PJT.SPI.NOT.200001		
MCU Test Reports	?		

### DPU Documents

Name	Reference and current issue	Issue Date	Status
DPU Specifications document	SPIRE-IFS-PRJ-000462 1.2	Nov 01	
SPIRE DPU ICD	SPIRE-IFS-PRJ-000650 1.4	March 03	
DPU design document	SPIRE-IFS-PRJ-001389		This is AVM only - to be updated to flight
DPU User Manual	SPIRE-IFS-PRJ-001390		<i>ditto</i>
AVM DPU EIDP	SPIRE-IFS-REP-001385		
DPU/ICU Spacecraft Interface Test Plan	CNR.IFSI.2001TR04 1.1	Sep 02	Version delivered with AVM – updates?
DPU AIV Plan	SPIRE-IFS-DOC-001028 1.1	Feb 02	<i>ditto</i>
DPU Design Verification Matrix	SPIRE-IFS-PRJ-001596 1.0	Apr 03	
AVM Test Reports Summary (not very useful!) 1553 Interface Test	SPIRE-IFS-REP-001394 1.0 SPIRE-IFS-REP-001385 1.0	Oct 02 Oct 02	Need RAL acceptance test reports as well?
NCR List	?		
DPU Qualification Plan	?		
Qualification Test Reports	?		
DPU Qualification Matrix	?		

Additionally a Project Plan giving the plan for recovery of the DPU programme, including delivery schedule (from CGS to you and you to us), test schedule etc. You have to convince the review



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board that the DPU can be delivered on time, having been tested and with a qualified design and that the work is fully specified, the testing to be carried out at CGS and IFSI is fully specified, and the documentation to be produced is fully specified and that the whole contract is being monitored regularly to be kept on track).

### 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			
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	?		
OBS Verification matrix	?		

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	Sep 03	Check issue number
SPIRE Sorption Cooler ICD	SPIRE-SBT-PRJ-000690	Sep 03	<i>ditto</i>
SPIRE Sorption Cooler AIV Plan	HSO-SBT-PL-0013	Sep 03	<i>ditto</i>
Cooler Development Plan	HSO-SBT-PL-002	Sep 03	<i>ditto</i>
Cooler Operating Manual	HSO-SBT-TN-086 draft	Aug 03	Needs issuing properly
Cooler CQM EIDP	<i>In france at the moment!</i>		
SPIRE Sorption Cooler Verification Procedures	<i>CQM EIDP</i>		
SPIRE Cooler Verification Matrix	<i>CQM EIDP</i>		
Cooler CQM Test Reports	<i>CQM EIDP</i>		
NCR List	<i>EIDP?</i>		
Cooler Qualification Test Reports	<i>CQM EIDP</i>		
Cooler Qualification Matrix	<i>CQM EIDP</i>		

### Beam Steering Mirror Documents

Name	Reference and current issue	Issue Date	Status
Beam Steering Mirror Specifications	SPIRE-ATC-PRJ-000460 3.7	Sep 03	
Beam Steering Mirror ICD	SPIRE-ATC-PRJ-001171 3.1	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		
BSM Qualification and Verification Matrix	In EIDP		
BSM DM/QM Test Reports	?		<i>Uses analogy with DM program to justify qualification status – need reports to back these up – do we have them?</i>
NCR List	In EIDP		
BSM Qualification Test Reports	?		<i>Uses analogy with DM program to justify qualification status – need reports to back these up – do we have them?</i>

### BDA/JFET/RF Filters Documents



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Name	Reference and current issue	Issue Date	Status
BDA Specifications	SPIRE-JPL-PRJ-000456 3.2	Jan 03	ECR outstanding
BDA ICD	SPIRE-JPL-PRJ-001181 1.0	Jun 03	Latest version?
JFET Test Plan	JPL D-20549		Covers all aspects of JPL deliverable verification
BDA Test Plan	JPL D-20549		Covers all aspects of JPL deliverable verification
Verification Matrix	JPL D-20549		Covers all aspects of JPL deliverable verification
CQM BDA PLW EIDP			Contains verification matrix and NCR list on CQM qualification
CQM JFET EIDP			<i>ditto</i>
RF Filter EIDP	SPIRE-JPL-DOC-002034 SPIRE-JPL-DOC-002032		Contains CofC and qualification tests for flight and flight spare components
JFET Back Harness EIDP	SPIRE-JPL-DOC-002036 SPIRE-JPL-DOC-002033		<i>ditto</i>
PFM SSW EIDP	<i>No number</i>		
PFM SSW Compliance Matrix	<i>No number</i>		<i>Status and issue number</i>
PFM SLW EIDP	<i>No number</i>		
PFM SLW Compliance Matrix	SPIRE-JPL-PRJ-001983		<i>Status and issue number?</i>
NCR List	See EIDPs		

## SMEC

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

## Optics

Name	Reference and current issue	Issue Date	Status
Specifications	LAM.PJT.SPI.SPT.200007 Ind 9	Sept 2001	EIDP Version
ICD (in EIDP)	Drawing SPL.MIR.00.DI.01.A in LAM.QUA.SPI.ADP.030040_10 Is 1 Rev 1	June 2004	
Optical design document	SPIRE-LAM-PRJ-000447 1.0	Dec 2000	
AIV/Qualification Plan	LAM.PJT.SPI.NOT.200006 Ind 3	Mar 2001	<i>Is this the latest version</i>
PFM Mirrors EIDP	LAM.QUA.SPI.ADP.030040_10 Is 1 Rev 1	June 2004	
Verification Procedures	?		<i>Not in EIDP</i>
Verification Matrix	?		<i>Not in EIDP</i>
CQM Test Reports	Written but not issued?		Kjetil needs to formally issue the AM/CQM test reports?
NCR List	See EIDP		



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Qualification Test Reports	?		<i>Not in EIDP?</i>
Qualification Matrix	?		<i>Not in EIDP CofC only</i>

## Structure

Name	Reference and current issue	Issue Date	Status
Structure Specification	SPIRE-MSS-PRJ-000427		
<i>Design Description?</i>			
ICD	SPIRE-MSS-PRJ-000617		
Structure Integration and Handling Procedure	MSSL/SPIRE/SP011.04	Jan 04	<i>Latest version – replaces the “Plan”</i>
STM Structure EIDP	MSSL/SPIRE/PA007.01		
PFM Structure EIDP	?		<i>Must have this</i>
Verification Procedures	<i>All below subsumed under instrument level procedures and matrices?</i>		
Verification Matrix			<i>CofC only in EIDPs</i>
CQM Test Reports			
NCR List			
Qualification Test Reports			
Qualification Matrix	<i>SM Matrix</i>		
<i>JFET Rack documents?</i>			<i>EIDPs in preparation</i>

## PCAL/SCAL

Name	Reference and current issue	Issue Date	Status
PCAL Specifications	SPIRE-QMW-PRJ-001101		
SCAL Specifications	SPIRE-QMW-PRJ-001105		
ICDs	SPIRE-UCF-PRJ-001149 SPIRE-UCF-PRJ-001150		
PCAL design document	HSO-CDF-DD-034		
SCAL design document	HSO-CDF-DD-033		
SCAL/PCAL Development Plans	HSO-CDF-PL-004 HSO-CDF-PL-006		
CQM PCAL EIDP	<i>Where is this?</i>		<i>Is there a PFM EIDP – do we have this?</i>
CQM SCAL EIDP	SPIRE-UCF-DOC-001938 1.0	Feb 04	
Qualification/Verification Matrix	SCAL PCAL In EIDP ?		<i>Qualification status for flight design?</i>
CQM Test Reports	SCAL PCAL Partly in EIDP ?		<i>Partly covered by Instrument CQM Test Report</i>
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		
ICD	SPIRE-UCF-PRJ-001151		
Filters Development Plan	HSO-CDF-PL-005		
CQM EIDP	HSO-CDF-EIDP-056 1.0	Oct 03	<i>Needs RAL number</i>
PFM EIDP for CFIL1 ,PFIL2,PFIL3,SFIL2,SFIL3S,SFIL3L	HSO-CDF-EIDP-059 1.0	Mar 04	<i>Ditto Dichroics and beam splitters not delivered yet.</i>
Qualification/Verification Matrix	See EIDPs		
CQM Test Reports	See EIDPs		
NCR List	See EIDPs		



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Qualification Test Reports	See EIDPs		
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### 300 mK System

Name	Reference and current issue	Issue Date	Status
300 mK System Specification	SPIRE-RAL-PRJ-001323		
ICDs	?		
300 mK supports design document	?		
300 mK supports EIDP	?		
PTC Design Drawings	<i>Doug has these</i>		
DM/CQM Test Reports	?		
NCR List	?		
Verification Test Reports	?		
Qualification Matrix	?		