



SUBJECT: SPIRE Software Checklists

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Project Document

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Change Record

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Glossary

SSTD Space Science and Technology Department, Rutherford Appleton Laboratory



1. INTRODUCTION

1.1 Scope

This document includes the SPIRE software checklists (RD01) as required under the Software Engineering Standards (AD1) for all software developed or used by projects under SSTD control.

These checklists cover all software developed by SPIRE.

1.2 Documents

1.2.1 Applicable Documents

AD1 ISO SPAP SOFT 001

1.2.2 Reference Documents

RD01 ISO SPAP SOFT 002



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2. CHECKLISTS



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2.1 Test Facility Control System

Project Name/Title:	SPIRE		
Project Cost Code:	SBB2100	Date:	5 th August 2005
Project Manager:	Dave Smith	QA Manager:	Eric Clark
Start Date:	1 st April 2001	End Date:	30 th April 2002
Job Description:			
Development of SPIRE Test Facility Control System software			
Indicate by checking box which of the following documents will be written and where others are combined.			
Document title	Document No.	Usage √: if used C: if combined N/A: if not applicable	
Software project management plan	SPIRE-RAL-PRJ-000527 AIV Milestone List	MANDATORY	
Software development plan	SPIRE-RAL-PRJ-000477 Test Facility Development Plan	√	
Software configuration management plan			
Software verification and validation plan			
User Requirements Definition	SPIRE-RAL-DOC-001172	√	
Software requirements			
Architectural design			
Detailed design			
Test Procedure	SPIRE_RAL_DOC-002281	√	
Test Report			
Coding			
Configuration status list			
Software Users Manual	SPIRE-RAL-DOC-002486 TFCS Description	MANDATORY	
Acceptance Data Package			
Controlling PA/QA Plan	SPIRE-RAL-PRJ-000017		
Other Applicable Docs.	<i>(Attach supplementary sheets if necessary)</i>		
SPIRE-RAL-PRJ-001498 – TFCS Data ICD			



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2.2 CDMS Simulator

Project Name/Title:	SPIRE		
Project Cost Code:	SBB 2300	Date:	05/01/07
Project Manager:	Ken King	QA Manager:	Eric Clark
Start Date:	1/12/2000	End Date:	1/11/2002
Job Description:			
Development of CDMS Simulator software for the Herschel common instrument EGSE			
Indicate by checking box which of the following documents will be written and where others are combined.			
Document title	Document No.	Usage √: if used C: if combined N/A: if not applicable	
Software project management plan	SPIRE-RAL-DOC-002487 - SOW	MANDATORY	
Software quality assurance plan			
Software development plan			
Software configuration management plan			
Software verification and validation plan			
User Requirements Definition	SRON-U/HIFI/SP/2000-004	√	
Software requirements	SPIRE-RAL-DOC-002298 - SSD	C	
Architectural design	SPIRE-RAL-DOC-002298 - SSD	C	
Detailed design			
Test Procedure	SPIRE-RAL-PRJ-000733	√	
Test Report	SPIRE-RAL-DOC-002296 SPIRE-RAL-DOC-002297	√	
Coding			
Configuration status list			
Software Users Manual	SPIRE-RAL-PRJ-000807	MANDATORY	
Acceptance Data Package		N/A	
Controlling PA/QA Plan			
Other Applicable Docs.	<i>(Attach supplementary sheets if necessary)</i>		
SPIRE-RAI-DOC-001196 CDMS Simulator Data ICD			



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2.3 Quick-Look Analysis

Project Name/Title:	SPIRE		
Project Cost Code:	SBB 2300	Date:	05/01/07
Project Manager:	Ken King	QA Manager:	Eric Clark
Start Date:	1/12/2000	End Date:	31/12/2008
Job Description:			
Development of Herschel/SPIRE Quick Look Analysis software.			
Indicate by checking box which of the following documents will be written and where others are combined.			
Document title	Document No.	Usage	
		√: if used C: if combined N/A: if not applicable	
Software project management plan	SPIRE-RAL-PRJ-002790	MANDATORY	
Software quality assurance plan			
Software development plan			
Software configuration management plan	SPIRE-RAL-PRJ-001106	√	
Software verification and validation plan			
User Requirements Definition	SPIRE-PRJ-000999 SPIRE-SAP-DOC-001241 SPIRE-RAL-DOC-001652	√	
Software requirements			
Architectural design	SPIRE-RAL-DOC-002269	√	
Detailed design	Javadoc		
Test Procedure	TBW		
Test Report			
Coding	HSCDT/TN009	√	
Configuration status list	CVS tags		
Software Users Manual	SPIRE-RAL-DOC-002260	MANDATORY	
Acceptance Data Package		N/A	
Controlling PA/QA Plan			
Other Applicable Docs.	<i>(Attach supplementary sheets if necessary)</i>		



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2.4 Herschel Common Science System Contributions

Project Name/Title:	SPIRE		
Project Cost Code:	SBB 2300	Date:	05/01/07
Project Manager:	Ken King	QA Manager:	Eric Clark
Start Date:	1/12/2000	End Date:	31/12/2008
Job Description:			
Contribution to Herschel Common Science System software.			
Indicate by checking box which of the following documents will be written and where others are combined.			
Document title	Document No.	Usage	
		√: if used C: if combined N/A: if not applicable	
Software project management plan	SPIRE-RAL-PRJ-002790	MANDATORY	
Software quality assurance plan			
Software development plan			
Software configuration management plan	SPIRE-RAL-PRJ-001106		
Software verification and validation plan			
User Requirements Definition	FIRST/FSC/DOC/0115	√	
Software requirements	FIRST/FSC/DOC/0158	√	
Architectural design			
Detailed design	Javadoc		
Test Procedure			
Test Report			
Coding	HSCDT/TN009	√	
Configuration status list	CVS tags		
Software Users Manual	ftp://ftp.rssd.esa.int/pub/HERSCHEL/csdt/releases/doc/index.html HERSCHEL-HSC-DOC-0517	MANDATORY	
Acceptance Data Package		N/A	
Controlling PA/QA Plan			
Other Applicable Docs.	<i>(Attach supplementary sheets if necessary)</i>		



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2.5 Data Processing

Project Name/Title:	SPIRE		
Project Cost Code:	SBB 2300	Date:	05/01/07
Project Manager:	Ken King	QA Manager:	Eric Clark
Start Date:	1/1/2004	End Date:	31/12/2008
Job Description:			
Development of SPIRE data processing software. This includes pipeline processing, interactive analysis and data visualization tools.			
Indicate by checking box which of the following documents will be written and where others are combined.			
Document title	Document No.	Usage √: if used C: if combined N/A: if not applicable	
Software project management plan	SPIRE-RAL-PRJ-002790	MANDATORY	
Software quality assurance plan			
Software development plan			
Software configuration management plan	SPIRE-RAL-PRJ-001106	√	
Software verification and validation plan	TBW		
User Requirements Definition	SPIRE-RAL-DOC-002791	√	
Software requirements			
Architectural design	TBW		
Detailed design	Javadoc		
Test Procedure	TBW		
Test Report			
Coding	HSCDT/TN009		
Configuration status list	CVS tags		
Software Users Manual	TBW	MANDATORY	
Acceptance Data Package			
Controlling PA/QA Plan			
Other Applicable Docs.	<i>(Attach supplementary sheets if necessary)</i>		



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2.6 Calibration and Trend Analysis

Project Name/Title:	SPIRE		
Project Cost Code:	SBB 2300	Date:	05/01/07
Project Manager:	Ken King	QA Manager:	Eric Clark
Start Date:	1/12/2006	End Date:	31/12/2008
Job Description:			
Development of SPIRE calibration analysis and trend analysis software.			
Indicate by checking box which of the following documents will be written and where others are combined.			
Document title	Document No.	Usage	
		√: if used C: if combined N/A: if not applicable	
Software project management plan	SPIRE-RAL-PRJ-002790	MANDATORY	
Software quality assurance plan			
Software development plan			
Software configuration management plan	SPIRE-RAL-PRJ-001106	√	
Software verification and validation plan			
User Requirements Definition	TBW	√	
Software requirements			
Architectural design			
Detailed design			
Test Procedure			
Test Report			
Coding			
Configuration status list	CVS tags		
Software Users Manual	TBW	MANDATORY	
Acceptance Data Package		N/A	
Controlling PA/QA Plan			
Other Applicable Docs.	<i>(Attach supplementary sheets if necessary)</i>		



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2.7 Miscellaneous Tools

Project Name/Title:	SPIRE		
Project Cost Code:	SBB 2300	Date:	05/01/07
Project Manager:	Ken King	QA Manager:	Eric Clark
Start Date:	1/1/2004	End Date:	31/12/2008
Job Description:			
Development of miscellaneous tools that could not be foreseen at the beginning of the project.			
Indicate by checking box which of the following documents will be written and where others are combined.			
Document title	Document No.	Usage	
		√: if used C: if combined N/A: if not applicable	
Software project management plan	SPIRE-RAL-PRJ-002790	MANDATORY	
Software quality assurance plan			
Software development plan			
Software configuration management plan	SPIRE-RAL-PRJ-001106	√	
Software verification and validation plan			
User Requirements Definition	SCR system	√	
Software requirements			
Architectural design			
Detailed design			
Test Procedure			
Test Report			
Coding			
Configuration status list	CVS tags		
Software Users Manual	For individual tools	MANDATORY	
Acceptance Data Package		N/A	
Controlling PA/QA Plan			
Other Applicable Docs.	<i>(Attach supplementary sheets if necessary)</i>		