

SPIRE (RAL)	Monthly Report – Nov 2001	Date: 28-11-01
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Work Package: SPIRE AIV Facilities SPIRE-RAL-REP-001208

1. Subsystem Progress Since Project Inception	
<p>Cryostat preliminary design completed – August 2001 Building work on cryolab completed – End June 2001 Cryolab clean room completed – 03-Aug-2001 AIV Facilities DDR held on 6th-September-2001 Cryostat outer-vacuum vessel manufacture started – Nov 2001 Cryoharness ordered – Nov 2001</p>	
2. Subsystem Progress This Month	
<p>Cryolab: All decoration work on the laboratory has been completed. Two 3-phase power supply points have been installed for the cryostat vacuum system.</p> <p>Cryostat: The detailed engineering drawings for the outer vacuum vessel have been approved and manufacture has started. Detailed drawings for the cryogenic vessels have been produced and have been reviewed. A few minor corrections are required but should not affect the procurement of parts.</p> <p>A design of the HOB simulator and support frame has been produced and is under review. A thermal analysis of the cryostat to so that the design of the HOB simulator can be optimised.</p> <p>Drawings for the filter mounts have been produced and manufacturers are being approached.</p> <p>The cryostat vacuum system has been delivered.</p> <p>Cryoharness: A requisition order has been raised for the cryoharness manufacture to ensure delivery by next August. The 128 way vacuum feedthroughs and connectors have been ordered for delivery in March 2002.</p> <p>Telescope Simulator: The telescope-imaging mirror has been delivered to RAL and is currently undergoing 3D metrology.</p> <p>Laser: The laser has been moved back into the clean-room and the services have been reconnected and checked out. Damaged and worn components have been replaced. The wiring for the laser interlock system has been moved and an additional door switch has been included.</p> <p>TFCS: A draft version of the User Requirements Document has been produced. Thermometer monitoring units have been ordered from Lakeshore and should be available by mid December.</p>	
3. Problem Areas	Remedial Action
4. Subsystem Management Issues	
<p>A revised milestone list was issued for approval on 17th October and is awaiting formal approval by the Project Team.</p>	
5. Activities to be achieved in next reporting period.	

Cryolab: Specify furniture for the control room.

Cryostat: Materials for cryostat should be arriving at Stainless Metalcraft and AS Scientific. Identify manufacturer and costs for instrument support frame and HOB simulator. Order external vacuum window.

Cryoharness: Contract placed with harness supplier.

Telescope Simulator: Final components for focus control ordered. Optical benches delivered.

Laser: Laser commissioned.

TFCS: URD Completed. Prototyping for cryostat monitoring system started.

6. Design Changes

An additional port for a vacuum gauge head on the cryostat has been requested.

7. PA/QA Activities

None at present.

8. Actions Requiring Immediate Attention

Respond to DDR report.

9. Status of Previous Actions

Some action items have been addressed.

10. Budgets

12. Milestones		Status
08/01/01	Cryostat Design Complete	Completed 08-Jan-2001
01/11/01	Cryostat Manufactured	Delayed 5 months to 15/05/02
30/01/02	Cryostat Integrated	Delayed 4 months to 04/06/02
01/04/02	Cryostat Commissioned	Delayed 4 months to 27/07/02
01/03/02	Cryoharness Delivered	Aug-2002
01/07/01	Cryolab Available	Completed 03-Aug-2001
21/12/01	Telescope Simulator Delivered	Feb-2002
31/12/01	TFCS Cryostat Monitoring	April-2002
30/04/02	TFCS Complete	Aug-2002
01/09/02	FTS Delivered	Jan-2003
02/12/01	Cold BB Delivered	May 2001 (TBC)
30/10/01	Reference Detector	No change
01/03/02	Hot BB Delivered	No change
08/06/01	FIR Laser	Delayed to Early December 2001
01/03/02	Beam Monitor	No change
13. Schedule Changes		
Laser is expected to be on-line by early December.		