

PROJECT: SPIRE	MINUTES OF MEETING	Doc. No: SPIRE-RAL-MOM-000876 Date: 21-September-2001 No. of Sheets: 14
Subject: Progress Meeting With AS Scientific		
Meeting Place: AS Scientific - Abingdon Date/Time: 8-June-2001, 10:00 Agenda Dated: 20-Sept-2001	Chairman: D.L. Smith Secretary: D.L. Smith Close of Meeting: 12:45	
PARTICIPANTS		ADDITIONAL DISTRIBUTION
D.L.Smith (RAL) M.Harman (RAL) Colin Hilier (AS Scientific) Beth Evans (AS Scientific) Steve Dominic (AS Scientific)		
Agenda: 1. Contract Status 2. Schedule 3. Budgetary Quotation 4. Technical Issues 5. AOB		
Attachments:		

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Action / Comment Number	Short Title	Action (A), Recommendation (R), Decision (D), Observation (O)	Action / Ref. with:	Action Deadline
A-01	Contract Status	<p>Stainless MC have produced updated schedule – current delivery end February – will have ordered dished ends at time of meeting.</p> <p>Original estimate had 14wks from completion of detailed design, currently 21wks. Concession of 1wk to allow for Christmas. Main problem is workload at Stainless Metalcraft. Colin is reasonably confident that the current Stainless Metalcraft schedule is accurate.</p> <p>Colin to go back to SM to put in key milestones. RAL to be notified of these milestones. RAL would accompany AS to review progress on fabrication.</p>	B.E./C.H.	5-October
A-02		<p>Action: Richard Day to communicate priorities with Stainless Metalcraft.</p> <p>End of first week in Oct., GA drawings will be ready for approval. SM should ensure that outstanding design queries are cleared up before issuing.</p> <p>Colin should ensure that approval process is a few days.</p> <p>Once approval of GA drawings has been given, SM will complete detailed drawings. These must be approved by beginning of November. Any</p>	M.H./R.D.	5-October

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A-03		<p>changes RAL request must be in by 7th October.</p> <p>Some manufacture of the inner cryostat vessels can proceed in parallel to outer vacuum vessel. However, completion ultimately depends on delivery of tank.</p> <p>Would be possible to put together a test rig to assemble the 4K and 2K pots. However, any tests would be limited and would still be best performed with main vacuum vessel. Useful to try out assembly sequence – this would require the instrument frame to test connections. Could reduce pressure at the end of schedule, but may only save one or two weeks.</p> <p>Colin to evaluate the cost vs. benefit of having separate support frame for integration.</p>	C.H.	12-October
A-04		<p>Need schedule for the SPIRE support frame and baseplate.</p> <p>ASSP could start work now on inner cryostat vessels but would not want to proceed until closer to the delivery date from SM.</p> <p>RAL could provide vacuum system for testing to reduce overall cryostat</p>	D.S./M.H.	5-October

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A-05		<p>test schedule.</p> <p>RAL to provide backing pump for Lambda bath. ASSP need to provide spec for Lambda pump. If need to go 200m³hr⁻¹. E2M40 plus booster would do. Need to estimate conductance of pipe from cryostat, design-pumping line. Pumping speed at connection to cryostat. ISO-63 flange. Assumed 3m line 60mm.</p> <p>Beth to send Mark spreadsheet of pumping calculations.</p> <p>Current delivery for the cryostat is wk20 (13th May) – could be reduced if a support frame for integration is built.</p>	B.E.	28-September
	Contract Monitoring:	Need to have weekly meeting with ASSP. RAL to come down to Abingdon once a week to review progress and discuss technical issues. Mark to contact Beth each Thursday at 10:00am. If not Mark then Dave.		
	Technical.	<p>Stainless Metalcraft – considering small adjustment to the orientation of the cable ports to accommodate clamps. Lower port should not move.</p> <p>RAL to supply vacuum window and quartz filter for testing. Needed April</p>		

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		2002.		
A-06	Budgetary Quotation	<p>RAL will supply the temperature controllers and thermometers to ASSP.</p> <p>Access to install wiring would be extremely limited once cryostat has been assembled. One possible approach would be for AS to install wiring and provide connection points for thermistors. Sensors on end cans would need in-line connectors.</p>	D.S.	5-October
A-07		<p>RAL to identify which sensors can be retrofitted. Which sensors need to be recalibrated.</p> <p>1.7K and 4K sensors need calibration – these would be Cerenox. Because of calibration requirements need to be demountable.</p>	C.H.	12-October
A-08		Colin/Beth to redo quotation to manufacture harness and install thermometers.	C.H./B.E.	5-October

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		<p>50Ω heater to be installed – needs to be included on quotation.</p> <p>Filter mounts will need to include mounting point for thermistors.</p> <p>Only thermometers on main barrel of shrouds can be permanently installed.</p> <p>14 of the sensors are demountable.</p> <p>AS would install permanent sensors and provide wire and provide connectors for demountable sensors.</p>		
	Straylight	Low conductivity supports could be a source of straylight. Solution could be to wrap gap with Mylar foil.		