

<b>SPIRE/PACS</b> (CEA-SBT)	<b>Monthly Report – May 2003</b>	<b>Date:</b> June 2 <sup>nd</sup> , 2003
--------------------------------	----------------------------------	--

**Work Package: Cooler**

**SPIRE-SBT-REP-001716**

<b>1. Subsystem Progress Since Project Inception</b>		
Detailed design of the coolers (CQM, STM, PFM & FS) done. Manufacturing of 2 CQM + 2 STM done. Manufacturing of new large test cryostat done (“standard” test cryostat available). Product Assurance plan implemented. STM units delivered. CQM units assembled.		
<b>2. Subsystem Progress This Month</b>		
<ul style="list-style-type: none"> <li>- CQM units : Both units disassembled for modification on heat switches interfaces (M3 becomes 4 mm thru hole with counter flange)</li> <li>- PACS CQM reassembled and re-tested (first “nominal” set of tests : cooling power curves at various orientation –90°/0°/+90°, hold time under 200 μW applied load). Analysis of recycling curves and power profile in progress</li> <li>- SPIRE CQM : final assembling in progress. Kevlar issues discussed.</li> <li>- Kevlar characterisation campaign and Tensiometer : On going.</li> </ul>		
<b>3. Problem Areas</b>		<b>Remedial Action</b>
Peculiar behaviour of Kevlar		Under investigation
<b>4. Engineering Activities</b>		
Tensiometer		
<b>5. Design Changes</b>		
<b>6. PA/QA Activities</b>		
General QA management.		
<b>7. Subsystem Management Issues</b>		
None		
<b>8. Actions Requiring Immediate Attention</b>		
SBT documents approval by SPIRE and PACS projects		
<b>9. Status of Previous Actions</b>		
None		
<b>10. Activities Yet to be Achieved</b>		
<b>11. Milestones</b>		
		<b>Status</b>
Winter 00-01	Coolers Detailed Design	Completed
May 17 <sup>th</sup> 2001	Coolers DDR (PACS & SPIRE)	Completed
June 26 <sup>th</sup> 2001	Subcontractor selection for machining	Completed
October 2001	Parts Delivery	Completed
Spring 2003	CQM Coolers assembling	Completed
Nov/Dec 2001	STM Coolers Assembling and Vtest	Completed
Nov. 2002	STM Coolers delivery	Completed
Spring 2003	CQM Coolers Qualification	In progress
Autumn 2003	CQM Coolers Delivery	TB
<b>12. Schedule Changes</b>		