

<b>SPIRE/PACS</b> (CEA-SBT)	<b>Monthly Report – November 2004</b>	<b>Date:</b>	November 30 <sup>th</sup> , 2004
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**Work Package: Cooler**

<b>1. Subsystem Progress Since Project Inception</b>		
FM SPIRE unit delivered. FM PACS unit acceptance program carried out		
<b>2. Subsystem Progress This Month</b>		
<ul style="list-style-type: none"> <li>- FM1 (SPIRE) : Acceptance program successfully carried out. Cooler performance as predicted. Cooler Delivery Review Board successfully held at SBT on November 18<sup>th</sup>. Cooler transported to RAL by D. Griffin. EIDP supplied as a paper version and as an electronic file (pdf); currently under review.</li> <li>- FM2 (PACS) : “Official” acceptance program carried out. Results in accordance with predictions. As delivery is not needed before January/February 2005, additional thermal tests are currently done (effect of T<sub>pump</sub> on autonomy and energies, etc...). In the mean time EIDP is being build up.</li> <li>- Heat switches : New batch of 4 currently being manufactured (for spares and as replacement for PACS FS (1 used for STM titanium)).</li> <li>- Titanium STM : Has undergone the cold Vtest at CSL with no apparent mechanical failure. To be sent back to SBT shortly</li> <li>- FS : program stopped - on hold : awaiting thermometers and heaters from SAP</li> </ul>		
<b>3. Problem Areas</b>	<b>Remedial Action</b>	
<b>4. Engineering Activities</b>		
<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 – Delivery by SAP of thermometers and heaters for flight spare units		
<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	Completed
Autumn 2003	CQM Coolers Delivery	Completed
Winter 2003	FM manufacturing	Completed
Spring /		
Summer 2004	FM assembling	Completed
Fall 2004	FM Acceptance program	Completed
Fall 2004	FM1 SPIRE Delivery	Completed
Spring 2005	FM2 PACS Delivery	Cooler available
Spring 2005	FS program	On hold (lacking heaters and thermometers)
<b>12. Schedule Changes</b>		