

<b>SPIRE/PACS</b> (CEA-SBT)	<b>Monthly Report – December 2002</b>	<b>Date:</b>	January 8 <sup>th</sup> , 2003
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**Work Package: Cooler**

<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.		
<b>2. Subsystem Progress This Month</b>		
<p>- CQM units : first unit mounted in test cryostat – filling and pre tests expected week 2 and 3. Second unit to follow. (note : all installations performed in clean room environment – cryostat has been cleaned up and prepared accordingly – thermal tests performed in the lab (cryostat closed)).</p> <p>- Heat switches : Subcontractor was not available week 49. Last FE soldering to be done week 2. Gold plating and filling to follow.</p> <p>- Structures : available – To be confirmed : minor modifications to be implemented following SAp demand (additionnal threaded holes for thermal shields mounting – might be done only on PACS structure).</p> <p>- STM units : both STMs have been delivered</p> <p>- Kevlar characterisation campaign and Tensiometer : in progress.</p>		
<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
Nov/Dec 2001	CQM Coolers assembling	Awaiting for heat switches final assembly
Nov/Dec 2001	STM Coolers Assembling and Vtest	Completed
Nov. 2002	STM Coolers delivery	Completed
Winter 02	CQM Coolers Qualification	Awaiting for heat switches final assembly
Early 2003	CQM Coolers Delivery	TBD
<b>12. Schedule Changes</b>		
See above – related to subcontractor problem with heat switches		