

SPIRE/PACS (CEA-SBT)	Monthly Report – November 2002	Date: December 2 nd , 2002
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Work Package: Cooler **SPIRE-SBT-REP-001468**

1. Subsystem Progress Since Project Inception		
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.		
2. Subsystem Progress This Month		
<p>- CQM units : first unit ready for initial testing (filling, etc...) – initial testing expected week 50. Second unit will be ready by end of week 49.</p> <p>- Heat switches : Assembly of 5 heat switches almost done. Should be available by end of week 49.</p> <p>- Structures : available – To be confirmed : minor modifications to be implemented following SAp demand (additional threaded holes for thermal shields mounting – might be done only on PACS structure).</p> <p>- STM units : both STMs have been cold vibration tested at RAL (≈ 85 K). Successfully passed but unexpected decrease in the resonant frequencies by 23% for the largest shift. Under investigation. STM S/N1 delivered to RAL. STM S/N2 to be delivered by RAL to SAp in the coming weeks</p> <p>- Kevlar characterisation campaign and Tensiometer : strong focus on this matter. New tests being done.</p>		
3. Problem Areas	Remedial Action	
Peculiar behaviour of Kevlar	Under investigation	
4. Engineering Activities		
Tensiometer		
5. Design Changes		
6. PA/QA Activities		
General QA management.		
7. Subsystem Management Issues		
None		
8. Actions Requiring Immediate Attention		
SBT documents approval by SPIRE and PACS projects		
9. Status of Previous Actions		
None		
10. Activities Yet to be Achieved		
11. Milestones		
	Status	
Winter 00-01	Coolers Detailed Design	Completed
May 17 th 2001	Coolers DDR (PACS & SPIRE)	Completed
June 26 th 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
12. Schedule Changes		
See above – related to subcontractor problem with heat switches		