

SPIRE/PACS (CEA-SBT)	Monthly Report – February 2003	Date: March 3 rd , 2003
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Work Package: Cooler

SPIRE-SBT-REP-001571

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 : Both CQM successfully filled with ³He, pre-tested and crimped. Awaiting for heat switches for final integration</p> <p>- Heat switches : completed. Thermal tests in progress.</p> <p>- Structures : available (minor modifications following SAp demand have been implemented on both structure to qualify a single design for future FM (additionnal threaded holes for thermal shields mounting)).</p> <p>- STM units : both STMs delivered</p> <p>- Kevlar characterisation campaign and Tensiometer : First tensiometer prototype validated. Mock up of suspension system (pump side) available : will vibration tested in the course of March, and will be used to characterize / validate various Kevlar aspects.</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	In progress
Nov/Dec 2001	STM Coolers Assembling and Vtest	Completed
Nov. 2002	STM Coolers delivery	Completed
Winter 02	CQM Coolers Qualification	In progress
Early 2003	CQM Coolers Delivery	TBD
12. Schedule Changes		