

SPIRE/PACS (CEA-SBT)	Monthly Report – August 2002	Date: September 3 rd , 2002
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Work Package: Cooler

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 available (vibration tests performed).		
2. Subsystem Progress This Month		
<ul style="list-style-type: none"> - CQM units : Mounting of thermometers and heaters almost done. CQM under cleanliness and contamination control. - Heat switches : awaiting for subcontractor availability for heat switches assembly. - Structures : new solution for anchoring protecting tubes (guides for PACS screws) being studied – slight machining on structures probably needed. - Kevlar characterisation campaign : continue. Unexpected creep (?) detected during multiple cycles between room T and LN2 is still under investigation – new test set-up being designed. - Solution for the electrical isolation identified – being implemented in the design. New parts under manufacturing and modification of existing components in progress. 		
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
Dec 2001	STM Coolers delivery	When needed - Available
Winter 01-02	CQM Coolers Qualification	Awaiting for heat switches final assembly
Spring 2002	CQM Coolers Delivery	Expected before end of 2002
12. Schedule Changes		
See above – related to subcontractor problem with heat switches		