

SPIRE/PACS (CEA-SBT)	Monthly Report – December 2003	Date:	December 23 rd , 2003
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Work Package: Cooler

1. Subsystem Progress Since Project Inception		
Product Assurance plan implemented. STM and CQM units delivered to SPIRE and PACS. FM units manufacturing in progress		
2. Subsystem Progress This Month		
<p>- CQM SPIRE : after Kevlar strings replacement and investigation/correction on (again) strap problem, last thermal checks prior to delivery successfully carried out – new ultra flexible strap used. As for PACS extra parasitic of 8 μW has disappeared. 251 mK ultimate temperature. Hold time under 10 μW load and 1.7 K / 4 K conditions expected to be over 60 hours. Cooler delivered to RAL on Dec 15th.</p> <p>- Kevlar characterisation campaign : New tensioning procedure available (may need some refinement)</p> <p>- FM manufacturing in progress (to the exception of the heat switches)</p>		
3. Problem Areas	Remedial Action	
4. Engineering Activities		
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 – main documents currently updated following FM phase review : will sent again when completed.		
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
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	In progress
12. Schedule Changes		