

SPIRE/PACS (CEA-SBT)	Monthly Report – November 2005	Date:	December 19 th , 2005
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SPIRE-SBT-REP-002600

Work Package: Cooler

1. Subsystem Progress Since Project Inception		
FM SPIRE and PACS delivered.		
2. Subsystem Progress This Month		
<ul style="list-style-type: none"> - <i>FM1 (SPIRE) and FM2 (PACS)</i> : Delivered. Undergoing tests (RAL and SAp). - <i>Heat switches</i> : 9 heat switches have been finally assembled (first one made is not usable). Out of these 9, one may be thermally OK but won't be used as a cooler part (switch tube is not fully fitted). All 9 switches have been charged with helium gas and will be thermally characterized early 2006 (random Vtest also included). - <i>PACS – Level 0 Interface</i> : Production of large level 0 straps (between Vespel intermediate holders and pods) in progress. Note that the thermal conductance of a braided copper strap has been measured before and after a vibration test : no difference seen in conductance (no signature of copper hardening). - <i>PACS FM</i> : A problem was spotted at SAp while using the redundant circuit to cycle the cooler. After investigation the problem has been identified and solved. It was due to the temperature profil along the heater drive wires, which raised the temperature of the wires routed to the pump switch and eventually slightly turned on the switch. The problem, its analysis and the solution are described in the Technical Note Series TN6 (sent to both project PACS and SPIRE). This problem does not apply to the SPIRE cooler. - <i>FS PACS and SPIRE</i>: Awaiting availability of heat switches for final integration. 		
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		
9. Status of Previous Actions		
None		
10. Activities Yet to be Achieved		
11. Milestones		Status
Mid 2004	FM assembling	Completed
Fall 2004	FM Acceptance program	Completed
Fall 2004	FM1 SPIRE Delivery	Completed
Summer 2005	FM2 PACS Delivery	Completed
2005/2006 (?)	FS program	On going
12. Schedule Changes		