

<b>SPIRE/PACS</b> (CEA-SBT)	<b>Monthly Report – June 2005</b>	<b>Date:</b> July 4 <sup>th</sup> , 2005	
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SPIRE-SBT-REP-002463

**Work Package: Cooler**

<b>1. Subsystem Progress Since Project Inception</b>		
FM SPIRE unit delivered. FM PACS unit : Second acceptance program carried out. Pending delivery		
<b>2. Subsystem Progress This Month</b>		
<ul style="list-style-type: none"> <li>- <b>FM1 (SPIRE)</b> : DRB held Nov. 18<sup>th</sup> 2004. No comments were provided on EIDP (is considered OK then).</li> <li>- <b>FM2 (PACS)</b> : Last set of thermal tests did not revealed any problem (for all set of tests, persistence of an extra couple microwatts. Unable to really discriminate if due to cooler or cryostat). Cooler has been removed from test cryostat and stored in its dedicated transportation box. EIDP is being build up. Delivery has been scheduled with SAp on week 34.</li> <li>- <b>Heat switches</b> : Production of new set in progress (5 “standard” and 5 with new brazing process)</li> <li>- <b>PACS – Level 0 Interface</b> : The heat switch has been verified and found to be OK (reminder : heat switch mounted in STM titanium with new level 0 interface. Underwent Vtest at MPE). Yet the Vespel parts have been mechanically reinforced (large displacement seen during MPE Vtests). In addition MPE and SBT are now in charge of the level 0 straps all the way to the pods. Various solutions have been studied, some of which include intermediate holders between the cooler and the pods. A draft technical proposal has been submitted to ESA. MPE has provided to SBT a strap made out of silver foils. In the coming weeks this strap along with a large strap made of flexible copper wires will be thermally characterized and compared.</li> <li>- <b>FS</b> : Instrumentation continues. PACS FS currently being charged with helium 3.</li> </ul>		
<b>3. Problem Areas</b>	<b>Remedial Action</b>	
Heat switch brazing process	New process to be validated. Plus current process slightly updated.	
<b>4. Engineering Activities</b>		
<b>5. Design Changes</b>		
Minor modifications on heat switch parts (play). New interface for level 0 strap : pending validation		
<b>6. PA/QA Activities</b>		
General QA management.		
<b>7. Subsystem Management Issues</b>		
None		
<b>8. Actions Requiring Immediate Attention</b>		
SBT documents approval by SPIRE and PACS projects		
<b>9. Status of Previous Actions</b>		
None		
<b>10. Activities Yet to be Achieved</b>		
<b>11. Milestones</b>		<b>Status</b>
Mid 2004	FM assembling	Completed
Fall 2004	FM Acceptance program	Completed
Fall 2004	FM1 SPIRE Delivery	Completed
Summer 2005	FM2 PACS Delivery	Scheduled August (week 34)
2005	FS program	
<b>12. Schedule Changes</b>		