SPIRE/PACS
(CEA-SBT)

Cooler Work Package: 1. Subsystem Progress Since Project Inception FM / FS units assembling in progress 2. Subsystem Progress This Month - Kevlar characterisation campaign : tensioning procedure performed on both STM (SPIRE and PACS) : results satisfactory (tension remains around 100 N at end of procedure after several bake out) - FM/FS manufacturing : All parts available and checked - Laser marking : done - FM/FS assembling Structures (4): EB welding done, last machining phase done (removal of extra thickness left for EB welding process). Cleaning to follow. Cooler heart and heat switches : First EB welding phase done. Brasing phase to follow. - Titanium STM : manufacturing almost done. - Assembly of spare heat switch from CQM program completed (two extra already available) : the design of the miniature sorption pump for this 3rd one is slightly different, however the active part (thin wall titanium tube) is nominal (thus can be used if necessary to characterise STM unit – see below) - New thermal characterisation of these 3 heat switches on going. Selection of best one to be used with titanium STM (switch will be mounted on STM with new strap. Plan is then to build a test set-up using a lab 3He stage to characterize the STM + switch before and after STM Vtest). 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 Winter 00-01 Coolers Detailed Design Completed May 17th 2001 June 26th 2001 Coolers DDR (PACS & SPIRE) Completed Subcontractor selection for machining Completed October 2001 Parts Deliverv Completed Spring 2003 COM Coolers assembling Completed Nov/Dec 2001 STM Coolers Assembling and Vtest Completed Nov. 2002 STM Coolers delivery Completed Spring 2003 COM Coolers Qualification Completed CQM Coolers Delivery Autumn 2003 Completed Winter 2003 FM manufacturing Completed Spring 2004 FM assembling In progress 12. Schedule Changes