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| SPIRE/PACS (CEA-SBT) | Monthly Report – October 2002 | Date: November 4 th , 2002 |
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Work Package: Cooler

SPIRE-SBT-REP-001439

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| 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 : Wiring done. Gluing of last thermometers on thermal shunt in progress. CQM under cleanliness and contamination control. - Copper/Titanium brasing : Subcontractor selected – P.O issued - Heat switches : Assembly of heat switches in progress (1 for qualification, to be followed by 4). - Structures : available – To be confirmed : minor modifications to be implemented following SAp demand (additional threaded holes for thermal shields mounting – might be done only on PACS structure). - STM units : both STMs available – awaiting for cold vibration tests (expected middle of November) - Kevlar characterisation campaign and Tensiometer : new engineer + post doc have (partly) joined the project team – are working on the development of this tool and Kevlar characterisation. - Solution for the electrical isolation : new parts available; to be implemented during CQM final assembly | | |
| 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. STM EIDP in progress | | |
| 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 | TBD |
| 12. Schedule Changes | | |
| See above – related to subcontractor problem with heat switches | | |