

SPIRE/PACS (CEA-SBT)	Monthly Report –September 2001	Date: 01/10/01
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Work Package: Cooler **SPIRE-SBT-REP-000978**

1. Subsystem Progress Since Project Inception		
Detailed design of the coolers (CQM, STM, PFM & FS) done. Manufacturing of 2 CQM + 2 STM in progress. Detailed design of new large test cryostat done ("standard" test cryostat available). Product Assurance plan implemented.		
2. Subsystem Progress This Month		
<ul style="list-style-type: none"> - 2 CQM + 2 STM are being manufactured - Parts expected to be available end of October. - Almost all procedures related to cooler have been written. Most of these procedures are for SBT internal use only. - Cleanliness philosophy : SBT is awaiting more inputs to decide on what is required for the clean room. - Numerical modeling of overall cooler mechanical performance : expected to be done this coming month. - Kevlar characterisation campaign : in progress – fatigue test set up built - First experimental campaign on thermal straps done – new campaign to be initiated in the near future - Various tests on temperature stability and temperature regulation (using EM model) : in progress - ITT issued for large test cryostat 		
3. Problem Areas	Remedial Action	
4. Engineering Activities		
Tensiometer to be developed to check for Kevlar cord tension in situ - In progress (nothing done this month)		
5. Design Changes		
New tools (to be used during the soldering processes) designed and currently being manufactured.		
6. PA/QA Activities		
PA Plan implemented.		
7. Subsystem Management Issues		
None		
8. Actions Requiring Immediate Attention		
Cleanliness philosophy : more inputs needed		
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	On schedule
Nov/Dec 2001	CQM Coolers assembling	On schedule
Nov/Dec 2001	STM Coolers Assembling and Vtest	On schedule
Dec 2001	STM Coolers delivery	On schedule
Winter 01-02	CQM Coolers Qualification	On schedule
Spring 2002	CQM Coolers Delivery	On schedule
12. Schedule Changes		
None		

Document status

Each document is named following : "SPIRE & PACS SORPTION COOLERS, Title"

List of available Title to date :

* Title : "Development Plan"
HSO-SBT-PL-002 Issue : 3 - Revision : 0
modification : none

* Title : "Specifications"
HSO-SBT-PL-001 Issue : 3 - Revision : 0
modification : none

* Title : "Manufacturing, Assembly, Integration & Test (MAIV) Flow Chart"
HSO-SBT-FC-003 Issue : 1 - Revision : 0
modification : none

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- * Title : "Declared Material List (DML)"
HSO-SBT-LI-004 Issue : 0 - Revision : 0
modification : none

- * Title : "Declared Process List (DPL)"
HSO-SBT-LI-005 Issue : 0 - Revision : 0
modification : none

- * Title : "PA Plan (PAP)"
HSO-SBT-PL-006 Issue : 1 - Revision : 0
modification : none

- * Title : "H/W Tree / Drawing List"
HSO-SBT-LI-009 Issue : 0 - Revision : 0
modification : none

- * Title : "Configuration Item Data List (CIDL)"
HSO-SBT-LI-010 Issue : 0 - Revision : 0
modification : none

- * Title : "Critical Item List (CIL)"
HSO-SBT-LI-011 Issue : 0 - Revision : 0
modification : none

- * Title : "Interface Control Document (ICD)"
HSO-SBT-ICD-012 Issue : 1 - Revision : 2
modification : none

- * Title : "AIV Plan"
HSO-SBT-PL-013 Issue : 0 - Revision : 1
modification : none

- * Title : "Spécifications qualité appliquées à la fabrication"
HSO-SBT-PL-014 Issue : 1 - Revision : 1
modification : none

- * Title : "Drive Electronic Specifications"
HSO-SBT-SP-015 Issue : 0 - Revision : 0
modification : new document

- * Title : "Organigramme des soudures"
HSO-SBT-FC-023 Issue : 0 - Revision : 1
modification : new document

- * Title : "Mise en place du charbon actif"
HSO-SBT-PR-024 Issue : 0 - Revision : 0
modification : new document

- * Title : "Tests en pression"
HSO-SBT-PR-025 Issue : 0 - Revision : 0
modification : new document

- * Title : "Installation et réglages des suspentes Kevlar"
HSO-SBT-PR-028 Issue : 0 - Revision : 0
modification : new document

- * Title : "Remplissage du cooler"
HSO-SBT-PR-029 Issue : 0 - Revision : 0
modification : new document

- * Title : "Quesotage"
HSO-SBT-PR-030 Issue : 0 - Revision : 0
modification : new document

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* Title : "Health Check"

HSO-SBT-PR-031 Issue : 0 - Revision : 0
modification : new document

* Title : "Collage et thermalisation des composants"

HSO-SBT-PR-033 Issue : 0 - Revision : 0
modification : new document

* Title : "Réalisation des soudures des fils de mesure"

HSO-SBT-PR-034 Issue : 0 - Revision : 0
modification : new document

* Title : "Etuvage"

HSO-SBT-PR-035 Issue : 0 - Revision : 0
modification : new document

* Title : "Remplissage de l'interrupteur"

HSO-SBT-PR-036 Issue : 0 - Revision : 0
modification : new document

TECHNICAL NOTES SERIES

* Title : "Thermal coupling of the sorption pump to the cold heat sink. heat switch versus passive link"

TNS1 Issue : 1 - Revision : 1
modification : none

* Title : "Discussion on 4 liters versus 6 liters unit & ultimate temperature improvement"

TNS2 Issue : 1 - Revision : 0
modification : none

* Title : "Temperature regulation"

TNS3 Issue : 0 - Revision : 0
modification : none

* Title : "Experimental characterisation of Kevlar 29"

TNS4 Issue : 0 - Revision : 0
modification : in progress

* Title : "CQM refurbishment"

TNS5 Issue : 0 - Revision : 0
modification : in progress