

SPIRE/PACS (CEA-SBT)	Monthly Report –July 2001	Date: 31/07/01
--------------------------------	----------------------------------	-----------------------

Work Package: Cooler SPIRE-SBT-REP-000784

1. Subsystem Progress Since Project Inception		
Detailed design of the coolers (CQM, STM, PFM & FS) done. Detailed drawings available. Test cryostat available. Product Assurance plan implemented. Manufacturing of 2 CQM + 2 STM initiated		
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. - Meetings have been held with each subcontractor (manufacturing - Brasing and TIG welding – EB welding) to discuss our PA requirements + technical aspects - Cleanliness philosophy : SBT is thinking of getting a dedicated room : main area in Class 10 000 or 100 000, and one section in class 100 for cooler integration. See PA Plan. In any case the cooler will be kept clean. - Numerical modeling of mechanical performance : • heat switches done. Overall cooler : almost done. - Kevlar characterisation campaign : in progress - General design of a new test cryostat (larger unit – for long term performance) done. Detailed drawings available. Manufacturing to be subcontracted this fall. 		
3. Problem Areas	Remedial Action	
4. Engineering Activities		
Tensiometer to be developed to check for Kevlar cord tension in situ - In progress – Will probably be an in house development.		
5. Design Changes		
N/A		
6. PA/QA Activities		
PA Plan implemented.		
7. Subsystem Management Issues		
None		
8. Actions Requiring Immediate Attention		
None		
9. Status of Previous Actions		
None		
10. Activities Yet to be Achieved		
Preliminary update on the Vtest spec. (B. Winter) has been supplied. Awaiting further confirmation. For now will be used as input for numerical modeling		
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 : updated

* 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

SPIRE/PACS (CEA-SBT)	Monthly Report –July 2001	Date: 31/07/01
---------------------------------------	----------------------------------	-----------------------

modification : revisited to take into account cleanliness philosophy

* 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 : cleanliness philosophy revisited

* 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 : updated

* Title : "AIV Plan"
HSO-SBT-PL-013 Issue : 0 - Revision : 1
modification : Vtest and baking tasks switched

* Title : "Spécifications qualité appliquées à la fabrication"
HSO-SBT-PL-014 Issue : 1 - Revision : 1
modification : couple pages modified

* Title : "Drive Electronic Specifications"
HSO-SBT-SP-015 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"

SPIRE/PACS (CEA-SBT)	Monthly Report –July 2001	Date: 31/07/01
---------------------------------------	----------------------------------	-----------------------

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