

<b>SPIRE/PACS</b> (CEA-SBT)	<b>Monthly Report –May 2001</b>	<b>Date:</b> 01/06/01
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**Work Package: Cooler**

**SPIRE-SBT-REP-000722**

<b>1. Subsystem Progress Since Project Inception</b>		
Detailed design of the coolers (CQM, STM, PFM & FS) done. Detailed drawings available. Test cryostat available. Product Assurance plan implemented		
<b>2. Subsystem Progress This Month</b>		
<ul style="list-style-type: none"> <li>- Cooler DDR was held in Grenoble May 17<sup>th</sup> : OK to initiate manufacturing; some documents need to be reviewed (for instance all spec. not directly related to cooler must be removed from spec. doc.).</li> <li>- A Subcontractor preselection has been made for the manufacturing. Final selection : June 26<sup>th</sup>, noon.</li> <li>- Detailed drawings are being checked</li> <li>- Numerical modeling of mechanical performance : on going</li> <li>- Kevlar characterisation campaign : in progress</li> </ul>		
<b>3. Problem Areas</b>	<b>Remedial Action</b>	
<b>4. Engineering Activities</b>		
Tensiometer to be developed to check for Kevlar cord tension in situ - In progress – various company contacted. In house development : TBD.		
<b>5. Design Changes</b>		
N/A		
<b>6. PA/QA Activities</b>		
PA Plan implemented. Various documents are being reviewed following DDR		
<b>7. Subsystem Management Issues</b>		
Some points need clarification : approval of documents, responsibilities, etc...		
<b>8. Actions Requiring Immediate Attention</b>		
Cleanliness philosophy		
<b>9. Status of Previous Actions</b>		
None		
<b>10. Activities Yet to be Achieved</b>		
We need an update on the Vtest spec. (B. Winter) to review some of the documents (ICD for instance)		
<b>11. Milestones</b>		<b>Status</b>
Winter 00-01	Coolers Detailed Design	Completed
May 17 <sup>th</sup> 2001	Coolers DDR (PACS & SPIRE)	Completed
June 26 <sup>th</sup> 2001	Subcontractor selection for machining	On schedule
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
<b>12. Schedule Changes</b>		
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 : 2 - Revision : 4  
modification : revisited following cooler DDR

\* Title : "Specifications"

HSO-SBT-PL-001 Issue : 3 - Revision : 0  
modification : revisited following cooler DDR All specifications not directly related to cooler removed

\* Title : "Manufacturing, Assembly, Integration & Test (MAIV) Flow Chart"

HSO-SBT-FC-003 Issue : 0 - Revision : 0  
modification : new document - not issued yet

\* Title : "Declared Material List (DML)"

HSO-SBT-LI-004 Issue : 0 - Revision : 0

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modification : new document - not issued yet

\* Title : "Declared Process List (DPL)"  
HSO-SBT-LI-005 Issue : 0 - Revision : 0  
modification : new document - not issued yet

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HSO-SBT-LI-005 Issue : 0 - Revision : 0  
modification : new document - not issued yet

\* Title : "PA Plan (PAP)"  
HSO-SBT-PL-006 Issue : 0 - Revision : 0  
modification : new document - not issued yet

\* Title : "H/W Tree / Drawing List"  
HSO-SBT-LI-009 Issue : 0 - Revision : 0  
modification : new document - not issued yet

\* Title : "Configuration Item Data List (CIDL)"  
HSO-SBT-LI-010 Issue : 0 - Revision : 0  
modification : new document - not issued yet

\* Title : "Critical Item List (CIL)"  
HSO-SBT-LI-011 Issue : 0 - Revision : 0  
modification : new document - not issued yet

\* Title : "Interface Control Document (ICD)"  
HSO-SBT-ICD-012 Issue : 0 - Revision : 0  
modification : new document - not issued yet

\* Title : "AIV Plan"  
HSO-SBT-PL-013 Issue : 0 - Revision : 0  
modification : new document - not issued yet

\* Title : "Spécifications qualité appliquées à la fabrication"  
HSO-SBT-PL-014 Issue : 1 - Revision : 0  
modification : new document

\* Title : "Drive Electronic Specifications"  
HSO-SBT-PL-015 Issue : 1 - 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

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modification : in progress