CARLO GAVAZZI CARLO GAVAZZI SPACE SpA	RICH SYSTEM

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Titolo : *Title :*	ECAL TCS CIDL/ABCL				

	Nome & Funzione *Name & Function*	Firma *Signature*	Data *Date*
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REGISTRAZIONE DELLE MODIFICHE / *CHANGE RECORD*			
EDIZIONE *ISSUE*	DATA *DATE*	AUTORIZZAZIONE *CHANGE AUTHORITY*	OGGETTO DELLA MODIFICA E SEZIONI AFFETTE *REASON FOR CHANGE AND AFFECTED SECTIONS*
1	18/05/07		First issue

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1. SCOPE

The Configuration Item Data List / As Built Configuration data List (CIDL/ABCL), establishes the configuration status of the RICH ECAL TCS ASSY p/n: N.A. C.I. ECAL-TCS FM01 s/n: 01.

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2. APPLICABILITY

This document shall be continuously updated, and applicable during all phases of activity concerning the a m. item, activities undertaken by CGS.

2.1 APPLICABLE DOCUMENTS

The following documents, in the valid latest issue formally agreed with the Agency, form a part of this document to the extent specified herein Documents referenced in the following specifications, standards, publications and procedures are also a part of this document and are applicable to the extent specified in the text to meet the specifications of this document.

AD #	Doc Number	Issue	Date	Rev	Title
01	RICSYS-SP-CGS-001	3	16/05/07		Ecal FM thermal hardware procurement specification
03	RICSYS-PT-CGS-003	1	14/05/07		Rich System ECAL TCS Product Tree

2.2 REFERENCE DOCUMENTS

RD#	Doc Number	Issue	Date	Rev	Title
1	GD-PL-CGS-001	3	17/03/99	n/a	Product Assurance & RAMS Plan
2	GD-PL-CGS-002	3	19-02-99		Configuration and Data Management Plan
3	ECSS-Q-70-36A	n/a	20/01/98	n/a	Space product assurance - Material selection for controlling stress-corrosion cracking

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3. PRODUCT TREE

At the beginning of RICH SYSTEM program, a product tree has been prepared to identify and describe the basic design composition at system level and kept updated.
Product tree for RICH ECAL TCS ASSY shall be kept updated to describe the C.I composition at lower levels, for clarification see AD03

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3.1 DRAWINGS LIST

All the released drawings have been recorded in a drawing index and status list reporting:

- Drawing sequential number
- Drawing identification Number
- Drawing title
- Issue status(first issue of the drawing indicated as / , followed by A, B, etc)
- N° of sheets
- Size of drawings
- Alterations (approved change authority)

While usually issued as a separated document, the Parts List in case of simple drawings can be part of the first drawing sheet, especially at the lower levels.

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4. CONFIGURATION ITEM DATA LIST (CIDL)

The CIDL ,as in the annexed list, is a tabulation of the engineering documentation comprising drawings, specifications, part list and procedures required to manufacture, assembly and test a configuration item
Its content will progressively increase as the design progresses.
Beginning with the design/performance requirements, interface control documents and, as the design is devoted, released manufacturing drawings, until at acceptance it provides the complete engineering "as designed" description configuration.
The CIDL will be mainly divided into two functional sections.

4.1 FIRST SECTION (DOCUMENTS SECTION)

It lists all documents applicable to the design, manufacturing, acceptance, testing relevant to the subjected CI, if any, with their proper issue status/date and any approved but not yet included change.

These documents are the following:

- Performance requirements
- Design and support specifications
- I/F documents
- Parts and materials lists
- Test procedures
- Handling, loading and transport procedures
- List of applicable waivers
- Operations and maintenance manual

These documents shall be subdivided into subsections for clarification

4.2 SECOND SECTION (DRAWINGS SECTION)

It lists all drawings providing the engineering definition of the CI from the top level assembly down to detail drawings.
The list shall be prepared as described in § 3 1 moreover showing level identification of all the drawings and used quantity of each item.

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5. AS DESIGNED/AS BUILT CONFIGURATION LIST

The CIDL/ABCL compare the current "as designed" configuration with the "as built" configuration, which consists of a list of drawings with their issue/revision index, as they have been applied at manufacturing time.
The "as built" configuration must also identify all manufacturing and test step, equipment items, failure and non conformance documents and all pertinent engineering documentation.
Reconciliation between "as designed" and "as built" status is documented in the ABCL section/columns and all differences will be:

- Non Conformance Reports (NCR)
- Waivers granted

The ABCL section/columns shall be filled in only during manufacturing activity of the Project.

5.1 ANNEX A: (ECAL TCS ASSY CIDL/ABCL)

The above mentioned list follows hereafter.

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CIDL/ABCL

Doc.N°. : Annex A to RICSYS-LI-CGS-002
Date: 18/05/07 DRD N°: PA14
Issue: 1 Page:

CONTRACTOR: ASI
PART DESIGNATION: ECAL TCS Assy

MODEL: FM

PART N°/C.I.N°: N.A. / ECAL-TCS FM01
SERIAL NUMBER: 01

ITEM id. LEVEL	DWG/DOC seq NUM	DRAWING/DOC./ITEM IDENTIFICATION NUMBER	TITLE/NOMENCLATURE	AS DESIGNED ISSUE	DATE	REMARKS/ECO	AS BUILT CONFIGURATION LIST Q.ty	NCR	REMARKS
DOCUMENTS SECTION									
		C.I. INPUT REQUIREMENTS SECTION Applicable documents							
		ASI / CGSI / 020 / 03 / 0	RICH SYSTEM Contract						
		ECSS-Q-70B	Materials, mechanical parts and processes	B	14 December 2004				
		Product Specification							
		GD-PL-CGS-001	Product Assurance & RAMS Plan	3	17/03/1999				
		GD-PL-CGS-002	Configuration and Data Management Plan	3	12/02/1999				
		RICSYS-SP-CGS-001	Ecal FM thermal hardware procurement specification	3	16/05/2007				
		Design Definition							
		RICSYS-IC-CGS-001	ECAL Thermal Control System Interface Control Document	i	04/05/2007				
		RICSYS-SB-CGS-006	ECAL Trasys/Sinda Mathematical Models	2	16/01/2007				
		RICSYS-TN-CGS-004	ECAL HEATERS AND THERMOSTATS INTEGRATION DESCRIPTION	i	14/05/2007				
		RICSYS-MA-CGS-003	ECAL TCS Handling, Storage, Operation and Maintenance Manual	i	16/05/2007				
		Test & Verification							
		RICSYS-PR-CGS-008	ECAL Thermal test procedure	3	31/08/2006				
		RICSYS-RP-CGS-015	Ecal Thermal Analysis Report	2	07/03/2005				
		RICSYS-RP-CGS-019	ECAL THERMAL VACUUM TEST REPORT	i	12/10/06				
		RICSYS-RP-CGS-020	ECAL Thermal Control System Design report	i	15/01/07				
		Product Tree							
		RICSYS-PT-CGS-003	Rich System ECAL TCS Product Tree	i	14/05/2007				
DRAWINGS SECTION									
		ECAL TCS ASSY C.I. ECAL-TCS FM01 s/n : 01 p/n : N.A.							
A		7015-01A0011/3/3/7	Thermostat				8		

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CARLO GAVAZZI

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CIDL/ABCL

CONTRACTOR: ASI
PART DESIGNATION: ECAL TCS Assy

MODEL: FM

Doc.N°. : Annex A to RICSYS-LI-CGS-002
Date: 18/05/07 DRD N°: PA14
Issue: 1 Page:
PART N°/C.I.N°: N.A. / ECAL-TCS FM01
SERIAL NUMBER: 01

ITEM Id. LEVEL	DWG/DOC seq NUM	DRAWING/DOC./ITEM IDENTIFICATION NUMBER	TITLE/NOMENCLATURE	AS DESIGNED ISSUE	AS DESIGNED DATE	AS DESIGNED REMARKS/ECO	AS BUILT CONFIGURATION LIST Q.ty	AS BUILT CONFIGURATION LIST NCR	AS BUILT CONFIGURATION LIST REMARKS
		R0632	Heater				16		See Shipping note N° 144 dated 03/04/06 Delivered to LAPP France (Q.ty 8)
		TBD	MLI Blanket						
		167149-001	Radiator tape - Embossed Teflon						
		62-10-0909-A274	Thermal filler				16		See Shipping note N° 288 dated 23/09/04 Delivered to INFN Pisa (Q.ty 16)
		DELIVERED LOOSE ITEMS (Spare Parts)							
		7015-01A0011/3/3/7	Thermostat				4		
		R0632	Heater				4		

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