

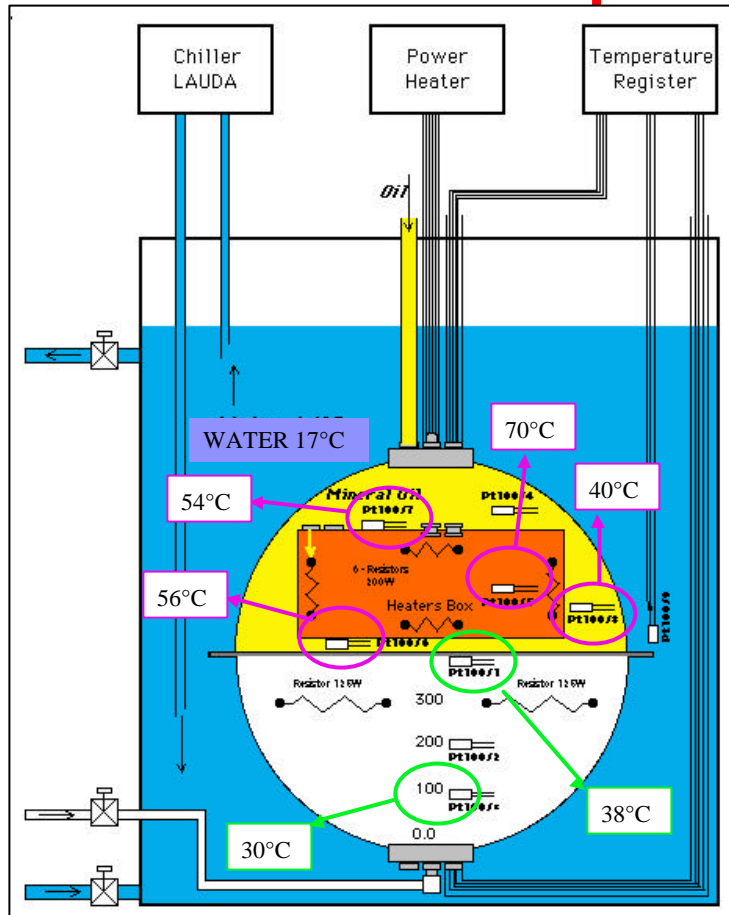
JUNCTION BOX STATUS

Strasbourg, July 11th 2000

S. Cuneo

I.N.F.N. Genova

Heat dissipation measurements



TEST CONDITIONS

- power in the oil compartment: 1200 W
- power in the electronic compartment: 250 W
- transformer: copper box, filled with oil
- no gas volume in the oil compartment
- atmospheric air in the electronic compartment

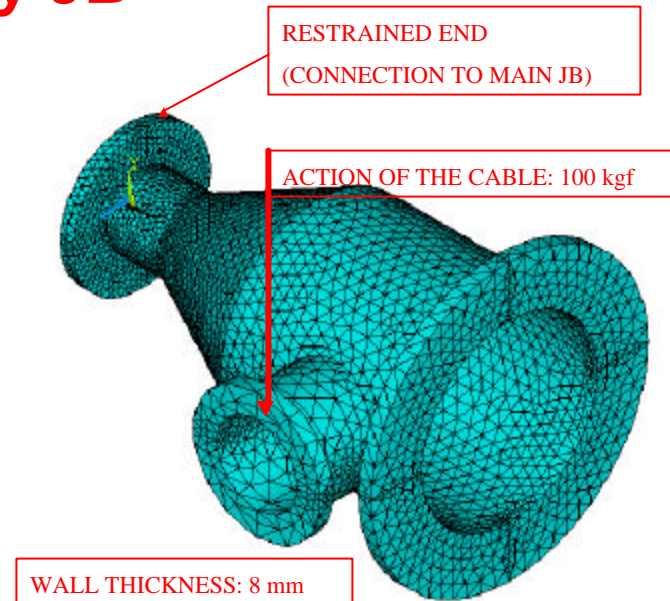
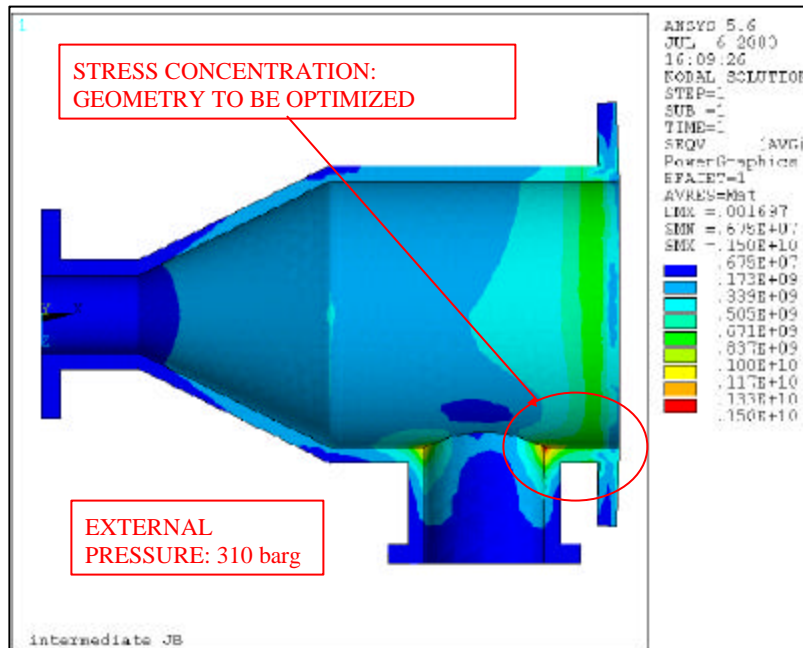
RESULTS

- 70°C should be a good operating temperature for the transformer
- 30°C is cool enough for the opto-electronic components?
- as sea water temperature is expected to be 13°C, it should be reasonable to shift down the results of 4°C

REMARKS

- the tests in the opposite configuration (transformer under the electronics) showed no changes in the oil side temperature, but a noticeable increase (temp. range 44-55°C) on the other side
- Helium @ 1 bar abs instead of air allows to reduce the above temperatures of around 7-8°C

Auxiliary JB



REMARKS

- structural analysis is **going on**: geometry optimisation and buckling analysis
- detailed design is at a **dead point**, due to lack of information about the main electro-optical cable termination and the seal at its end
- **no interference** with main JB schedule: IFREMÉR agreed to separately test the main and the auxiliary JB

JB: vessel status



LOTARIOS

A TIMET COMPANY

PIANO DI CONTROLLO

- Quality Control Plan

QCP -

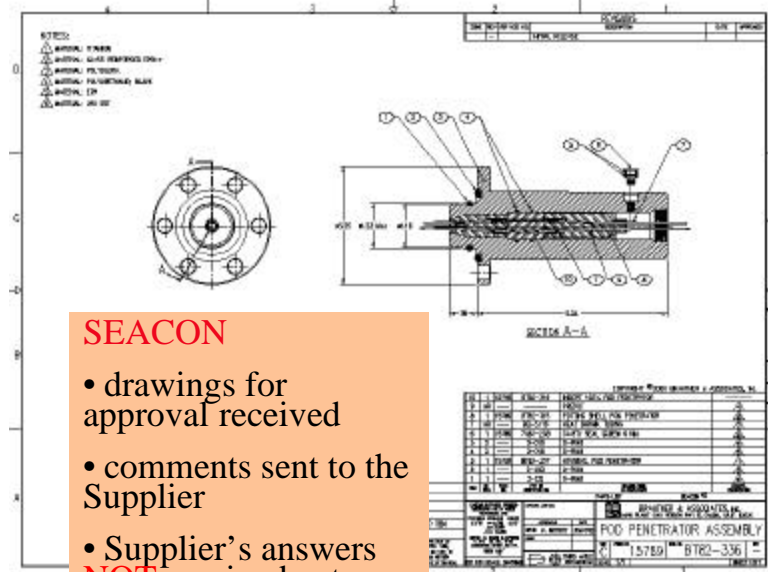
H0100

STANDARD DI FABBRICAZIONE - Fabrication Standard				TITANIUM GR. 5			COLLAUDO - Inspection					
POS	DESCRIZIONE Description	%	DOCUM. APPLICABILI Applic. Documents		CRITERI DI ACCETTAZ. Acceptance Criteria		LUGGO ISP. Inspect. Place	ENTI ISPETTIVI - Inspection Agency				NOTE - Notes
			CSBICE - Code	LOT PROC.	CSBICE - Code	LOT PROC.		<input checked="" type="checkbox"/> LOTARIOS QC	<input type="checkbox"/> CLIENTE Customer	<input type="checkbox"/> AG. INDIP. T.P.I.		
1	IDENTIFICAZIONE MATERIALI Material Identification	100		PRT-007		PRT-007	LOT	H/C			R	
2	VERIFICA CERTIFICATI D'ORIGINE Mat. Test Certificates Review	100	SPC-MAT Material Spec.		SPC-MAT Material Spec.		LOT	H/C			R	UNI EN 10204 - 3.1B
3	TRASFERIMENTO MARCATURE Transfer of Markings	100		PRT-001		PRT-001	LOT	H	W		H	
4	FORGIATURA Forging	100		PRT-001		PRT-001	FORNITORE	H	W		W	
5	T. TERMICO DI RICOTTURA Annealing/Heat Treatment	100		PRT-005		PRT-005	FORNITORE	C	W		W/R	
6	PRELIEVO PROVE MECCANICHE Mechanical Test Sampling	100		PRT-009		PRT-009	FORNITORE	H	W		H	(STACCARE DUE PROVINI, 1 PER IL CLIENTE)
7	PROVE MECCANICHE Mechanical Test	100	ASTM B381-97A	PRT-009	ASTM B381-97A	PRT-009	FORNITORE	C	R		R	
8	ESAME MICROGRAFICO Micrographic Test	100	ASTM E 112				FORNITORE	C	R		R	
9	CONTROLLO CON ULTRASUONI (UT) Ultrasonic Test (UT)	100	ASME SA 388	PRT-020	ASME SA 388	PRT-020	FORNITORE	C	R		H	
10	CONTROLLO FORMATURA (VD) Forming Check (VD)	100		PRT-013		PRT-013	LOT	H				
11	PROVA IDRAULICA TENUTA OR (HT) Hydrostatic Test (HT)	100		PRT-019		PRT-019	LOT	C	H			310 BAR - DURATA 90 MINUTI O-RING FORNITI DAL CLIENTE
12	CONTR. VISIVO E DIMENS. FINALE (VD) Final Visual and Dimensional Check (VD)	100	DWG.	PRT-033	DWG.	PRT-033	LOT	C	H			
13	MARCATURA E CERTIFICAZIONE Marking and Certification	100		PRT-002		PRT-002	LOT	C	R			UNI EN 10204 - 3.1B
14	CONTROLLO IMBALLAGGIO Packing Check	100		PRT-026		PRT-026	LOT	H				

REMARKS

- around 30% of the operations completed: forging and annealing performed last Friday
- hard to comply with the schedule (delivery @ beginning of August): delay of sub-suppliers (screws and nuts)
- hydrostatic test: order placed, probably will be shifted to **MID OCTOBER 2000**

JB: penetrators & accessories status



SEACON

- drawings for approval received
- comments sent to the Supplier
- Supplier's answers **NOT** received yet

OTHER ACCESSORIES

- **feed-through**: type selected, we're waiting for the offer
- **test and internal penetrator**: type selected, we're waiting for the offer

OCEAN DESIGN

- drawings for approval received
- comments sent to the Supplier
- Supplier's answers received
- OK for the manufacturing

