

## *Preparation of Cool-Down in Sector 78 RAT* Réunion Avancement Travaux

HARDWARE COMMISSIONING COORDINATION - WEEK 46

16 Novembre 2006 8 :30 2889-R-009

Present: D.Bozzini, S.Brown, H.Buret, P.Chambouvet, M.Coccoli, P.Cruikshank, J.Etheridge, S.Junker, F.Millet, B.Perea Solano, M.Pojer, R.Saban, A.Suraci, R.Schmidt, H.Thiesen, A.Vergara.

### **Preparation of the Cool-Down in Sector78**

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#### AC non-conformity:

- Simon informs about a meeting, this afternoon, between client, chief and contractor; 4 propositions are on the table. Tomorrow a solution will be proposed.

#### DC cabling:

- Jean-Claude will start this morning the positioning of the 600 A cables on DFBA and DFBM.
- Antonio V. informs that the positioning of 120 A cables will be completed today.
- Antonio V. informs that the visual inspection for the polarity test on DFBA is half done and it will be completed today.

#### Assembly:

- Paul announces that a certain number of BLMs' monitors (10?) should be removed for installation of pumping units.
- Esther had confirmed yesterday that no BLM can be installed in places to be opened for interconnection.

#### Vacuum:

- The leak in the arc will be probably left "as is". An opportunity to repair will be maybe after the pressure test.
- Paul informs that the bake-out of Q6-Q7 will be finished by the end of the day.

#### Cryogenics:

- Antonio S. informs that the cryo-valves manipulation on DFBMH, DFBAN and DFBAO will be finished by tomorrow evening.
- He also confirmed that the mini-crates arrived and they are under test.
- Steffen informs that the valves on WRL manifolds of the DFBs have to be connected to the compressor air supply.

#### DFB Commissioning:

- Pascal informs that the heaters test will soon start. He will meet John for the safety part. Pumping for insulation vacuum on current leads

will start next week. This will be carefully scheduled to prevent work superposition.

- The prototype galvanic insulation ("ad hoc" made) will be tested tomorrow. A re-scheduling of the installation on the current leads is necessary.
- TP4-A: Davide informs that the tests on DFBAO and DFBAN are being set up. If the DFBA is crowded, they can start with the DFBA.

#### Safety:

- As a general remark, John asks that every operation is announced in advance with a written communication; an e-mail should be sent to him, so that his team can understand if the intervention needs specific measures.
- John asks to monitor closely the number of people working at the same time around the DFBA (7-8 people foreseen on DFBA this Friday).
- John and François will meet next week for the cool down test safety procedures.
- Antonio V. announces a Powering Procedure Test (previously called Dry Run), previewed to test software. He will arrange with John for the safety procedure.

#### Preparation of Powering Procedure Test (previously called Dry Run):

- Antonio V. states that next week there will be water circulating in UA83 for the dry run and the filters need to be cleaned.

#### AOB:

- Pressure test in US85 after connection of He ring line (warm line) will be performed on Monday 20 at 19h.
- Flohe is replacing the injured operator. Priority has been given to point 5; when he will arrive at point 8 (not before next week), Antonio V. observes he should start working on cable positioning in DFBA.
- François points out a possible interference with transport on Saturday for his team (reference to the discussion with Katy) in sector 78.

### **Open Issues**

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- 13.11.06 Cryo. Valves manipulation on the DFBMH, DFBAN and DFBAO
- 13.11.06 Non-conformity of the mini-crates of cryo instrumentation
- 13.11.06 Cabling non-conformity affecting QPS and 60A Orbit Correctors IST
- 13.11.06 WRL DFBAO missing support LSS8L
- 13.11.06 3 x 600 A power cable positioning LSS8L
- 13.11.06 BPM connection in Q2, Q3, Q4, Q5, Q6, Q7
- 13.11.06 EIQA-TP4-A in the DFBAO, DFBAN, DFBA

- 13.11.06 LSS8L Q6-Q7 bake-out
- 13.11.06 120 A Cables connection in DFBMC, DFBMA and DFBX LSS8L
- 13.11.06 6 kA and 13 kA cables positioning at DFBMA and DFBMC
- 13.11.06 Quench protection continuity tests and cables assignment LLS7R (DFBMH, DFBAN) and LSS8L (DFBMC, DFBMA and DFBX)
- 13.11.06 DS7R and DS8L leak test
- 13.11.06 Leak in R7
- 13.11.06 Galvanic Insulation 600 A, 6 kA, 13 kA for LSS8L and LSS7R available
- 15.11.06 Leak in arc
- 15.11.06 Leak test to be performed after the replacement of bellows

### **Closed Issues**

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Current lead vacuum: man power and pumping groups availability	15.11.06
Hydraulic connection of the current leads	15.11.06
DFBX AT/MEL Transformers installation	14.11.06
WRL connection DFBMH LSS7R	14.11.06
ELQA-TP3 test of the sector 78	14.11.06
Polarity tests of the 600A and 120A cables for DFBAN and DFBMH (LSS7R)	14.11.06
QUI available	10.11.06
Pressure tests of QUI and DFBs safety valves finished	10.11.06
QRL valves available for all sector	09.11.06
QRL valve opening/cabling verification	13.11.06
Interconnections DFBAO, DFBMA and DFBMC.	13.11.06
WRL connection at DFBMC, DFBMA and DFBX	13.11.06
120A cables positioning at DFBAO, DFBMA and DFBMC	13.11.06
Q6-Q11L8 leak test envelope	13.11.06
Interconnections of DFBAN and DFBMH	13.11.06

### **Milestones: Test Schedule**

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Week 45	Interconnections
End week 46 [18.11.06]	Leak Test
End week 47 [24.11.06]	Pressure Test
Week 47-48	EE sensor tests in RR77

Week 48 & 49	Purge and filling
Week 49	Dry Run
Week 49	Short Circuit tests of 60 A
Week 49	Diesel Tests
Week 50	Flushing
Week 50 [15.12.06]	Giga PAQ
Week 51	Cool Down Sector 78



**Next RAT meeting**

**Friday, November 17th 8:30 @ P8 2889-R-009**

Mirko Pojer