

# **RAT** Réunion Avancement Travaux **SCT** in **UJ33**

## HARDWARE COMMISSIONING COORDINATION

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**NEXT RAT meeting**  
**Monday 26.03**  
**8:30 in CCC**  
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**March 21st, 2007, 8:30 in CCC**

Present: Boris Bellesia, Baptiste Lebeau, Alejandro Castaneda, David Nisbet, Jacques Toullieux, Ronaldus Suykerbuyk.

### **SCT in UJ33**

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#### ➤ HEAT RUNS:

- Jean Claude Guillaume has provided the table of the *facteur de utilisation* – attached excel file - of the cables to be used for the heat runs:
  - Two 8hr runs will be performed (2<sup>nd</sup> and 3<sup>rd</sup> of April) to have a good evaluation of the heat up of the UJ-UP33 before the 24hr run – Next week a detailed procedure will be given.
  - During the heat runs, Baptiste will check the cable temperature each 30min.
  - The 24hr run is foreseen for the week15.

#### ➤ AC: -

#### ➤ DC cables:

- ~~WorldFip cable in 600A EE racks will be replaced this afternoon (see WorldFip paragraph).~~ DONE
- A cable installation is foreseen in the tunnel for week 14th. On 28<sup>th</sup> of March Jean Claude and Emmanuel Paulat will be in the tunnel in order to evaluate the situation. A person from HCC is required.
- Jean Claude informed that the 13kA water cooled cables will be available from week 16th in the right part and from week 17th in the left one. Knud pointed out that it means a delay of 2 or 3 weeks.

#### ➤ Power converters:

- All the Power Converters have been tested.

- Polarity check will start from Thursday (29.03)
- PIC:
  - Interface test will be performed on Monday – Tuesday (26-27.03)
- Cooling and Ventilation: -
- WIFI: -
- WorldFIP: -
- Energy Extraction:
  - All 600A EE systems tested
  - 2 systems 13kA EE IST performed
  - ~~Re-fixing of the cables of the 13kA EE System in RA38 is ongoing.~~  
DONE
  - The equipment for the electro-Magnetic compatibility (13kA EE sys – rest of the equipments working in the tunnel) test will be available by the end of this week. The set up will be next week; in this case the tunnel (up to R37) should be closed for 1 hour. The test will be performed on Monday 2<sup>nd</sup> of April.
  - 13kA EE sys Interlock test will be performed after the 24hr run (after the 10.04). To power the DQS the possible solutions are:
    - ◆ Bring to the DQS zone one portable converter, in this case only 2000A could be reached;
    - ◆ Bring to the DQS zone two portable converters (Knud has one and David Nisbet the other one), in this case 4000A could be reached;
    - ◆ Extend the cables of the near circuits. Cables of two circuits can be extended from the DFBM (meaning about 40 m) but the other four cables should be extended for about 120m. Jean Claude pointed out that this solution is probably too complicated and too expensive.
    - ◆ From J.C. Guillaume:
      - Les distances entre la DFBAF et les aimants/DFBM sont les suivantes:
        - 1) DFBD: 60m
        - 2) MCBWV5: 150m
        - 3) RQT5.R3: 140m
      - La section utilisée est de 1x240mm<sup>2</sup>. Sans le coût du câbles, on arrive à 12KCHF (pause et dépose). Le coût évoluera selon le type de câble réellement installé.
      - Nous n'avons pas ce type de câble récupéré en stock.

- Further discussions will follow – Jean-Claude/Knud/David.
- Balisage: -
- Installation:
  - The installation team (Huber) will attend the first RAT meeting every week to inform about the activities:
    - Warm magnets are being transported and placed in the tunnel during week w11.
    - Works on the DSL line (leak tests & connection)
    - The DFBL will be installed TODAY 23.03
    - Installation of the ventilation door in UJ33 should be carried out w13. This issue will be confirmed by Hubert.

### Open Issues

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15.03	Too short WorldFip cables in 600A EE sys racks
15.03	Connection of the 13kA switches to power
13.03	Re-fixing of the cables of the 13kA EE System in RA38
13.03	Temperature sensors positioning in the ducts for the heat runs
08.03	13kA water cooled cables to be installed in W16
08.03	Definition of the powering strategy for the heat runs

### Closed Issues

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13.03	WorldFip QPS segments to be validated	15.03
08.03	Powering of the PIC racks (CYCIP01 - CYCIP02)	13.03
08.03	PIC system IP address verification	13.03
08.03	Grounding missing (DQR, DJRB box, Roese Station)	13.03
08.03	Missing cable: link between Roese Station and CCC	13.03
08.03	Cable 48 wires to be replaced on the DJPC	13.03

**Boris/Blanca/Matteo**



### Open Issues SCT in RR73 and UJ76

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- 01.03 Leakage in the two water cooled cables in RR73 (Baptiste)
- 01.03 Disconnections of the cables from the EE in RR73 (Baptiste)
- 01.03 AU unexpected during 24hr run. TS-EL investigating
- 22.02 ~~Polarity tests do not include the warm-magnets cables~~
- 22.02 ~~Verification of the EE water cooled cables of the odd points~~
- 22.02 ~~Wrong filter position in the PC cooling circuits~~
- 08.02 Temporary WIFI cable to be replaced by TS/EL – IT/DI

### Open Issues SCT in UA67 and UJ67

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- 13.02 ~~Report on the AUG~~
- 12.02 ~~PM generated but stacked in local~~
- 12.02 ~~Few labels missing for cables identification~~
- 05.02 Little ducts between UA and RA not closed during the 24hr
- 02.02 ~~RSF2-A67B1 and RSF2-A67B2 PIC cables to extend~~
- 02.02 NC opening on the bad connection of the “plages” on the 6kA racks
- 08.01 EE fan rotation problem – all ring