Warm Magnets Commissioning in point 8

HARDWARE COMMISSIONING COORDINATION - WEEK 3

15 January 2007 Room 30/6-041

Present: AB/BT: J.Uythoven.
AB/CO: P.Dahlen.
AB/OP: F.Pirotte.
AB/PO: R.Genand, H.Thiesen.
AT/MEL: M.Karppinen.
TS/CV: J.Inigo-Golfin, F.Moro.
TS/EL: M.Condemine.
TS/HDO: M.Coccoli, A.Vergara.
TS/IC: E.Barbero.

Commissioning Preparation:

- The WEIQA for the Compensators and the Septa was delayed and the activities were rescheduled accordingly. The reasons of the delay were:
  - the water circuit that was not checked during the activity preparation and showed leakages in the filters (due to missing o-rings);
  - some DC cables were not connected.

  These are indications that should be followed by the Hardware commissioning team for the activity preparation.
- Grounding: the majority of magnets in the transfer line are not grounded. M.Karppinen has shown a plan with the work that still needs to be done to ensure the grounding (the description prepared by D.Smeckens is attached below). J.Pierlot has been contacted and ensured the proper grounding on all the warm magnets.
- A temporary cable need to be pulled to be able to perform the WIC tests. P.Dahlen will take care of this by Wed 17th Jan.

Commissioning:

- M.Karppinen commented the status report provided by D.Smekens and attached below (TI8 NC magnets status 15/01/07).
- The WEIQA of the TL magnets can be performed starting Wed 17th Jan after 5pm because the HV test is not compatible with installation works going on between Q3 and Q7. The agreed date is Thu 18th Jan.
- The 8h heat run tests will be performed without the current leads protective covers. The safety conditions during this test should be checked with J.Etheridge.

MTF:

- There is a MTF step for each line in the planning with a number; steps indicated with “n/a” are not MTF steps; a plan of the MTF structure is attached below the planning.

Planning:

- The planning was presented and discussed among the audience. The latest version updated on the day of release of this document is attached.
- The updated planning can be found at the following link http://hcc.web.cern.ch/hcc/schedule/WarmMagnets.pdf

Mirco Coccoli

TI8 NC magnets status 15/01/07

EARTHING:

earth cable missing on all MQI and MCIA magnets dowstream the TED:

MQIF87800
MCIAV87891
MQID87900
MQIF88000
MCIAH88004
MQID88100
MCIAV88104
triplet of MCIAV upstream MSIs

see file attached. Action required from TS/EL (earthing cables required)

INTERLOCK:

- **OK on all magnets at the connector level. Still need to be checked from magnet to converter by AB/CO**
- **Only 1 problem: MQIF87800 not interlocked (cable missing)**

COOLING:

- **water flow measurements verified by AT/MEL**
- **ok on all magnets (not measured on the MSIs)**

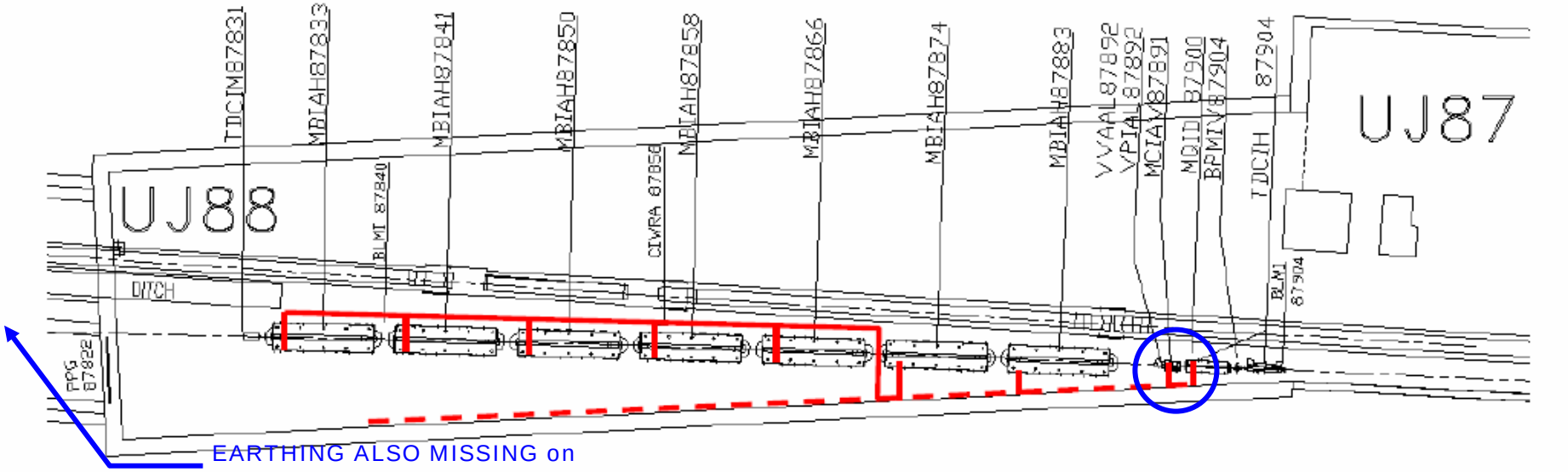
POWER CABLING:

- **All magnets cabled OK. (not checked at the converter level)**
- **MBIAH correctly cabled in series.**
- **polarity and current measurements and coherence converter/magnet still to be done in collaboration with AB/PO next week (R. Genand/Y Jacquemard)**

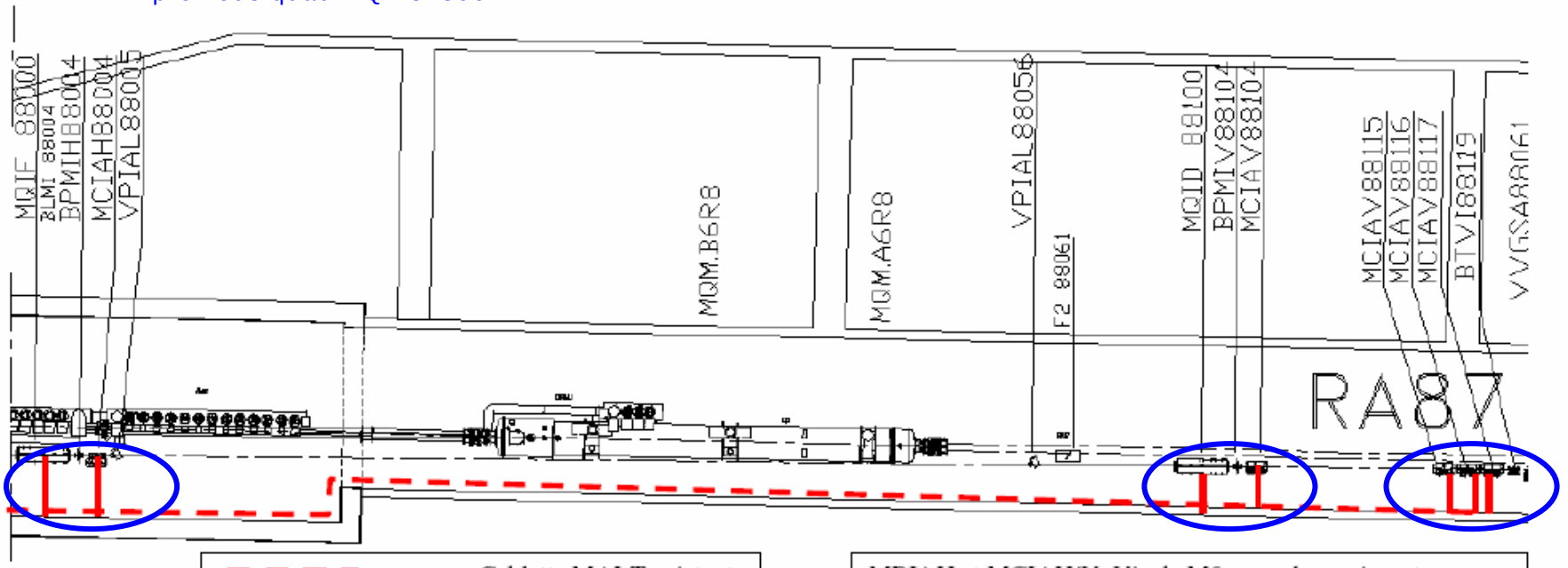
AOB:

Unacceptable dirt and mess in UJ88 for a so called commissionning and for powering tests: welding rods, stainless steel cables, metallic plugs, bolts, metallic chips and dust.
Jars of paint, bottles of water,....

IN BLUE :
EARTHING STILL MISSING



EARTHING ALSO MISSING on
previous quad MQIF87800



Cablette MALT existante
Cablette à tirer

MBIAH et MCIAH/V: Vis de M8 sur culasse aimant
MQI : Vis M10

Commissioning status 15/01/2007

	Time (hours)	MBXWS.1L8	MBXWH.1L8	MBXWS.1R8	MSIA.A6R8	MSIA.B6R8	MSIB.A6R8	MSIB.B6R8	MSIB.C6R8
Visual inspection	1	OK	OK	1h	OK	OK	OK	OK	OK
ELQA	1	OK	OK	1h	OK	OK	OK	OK	OK

Remarks

Balancing of cooling circuits will be done after heat runs by TS/CV once all cooling circuits are connected.

MBXWS.1L8 and MBXWH.L8: DC-cable from PC-terminal "A" connected to Terminal "B" on the magnet

MBXWS.1R8 DC-cables not connected

Power supplies in SR8 not labelled

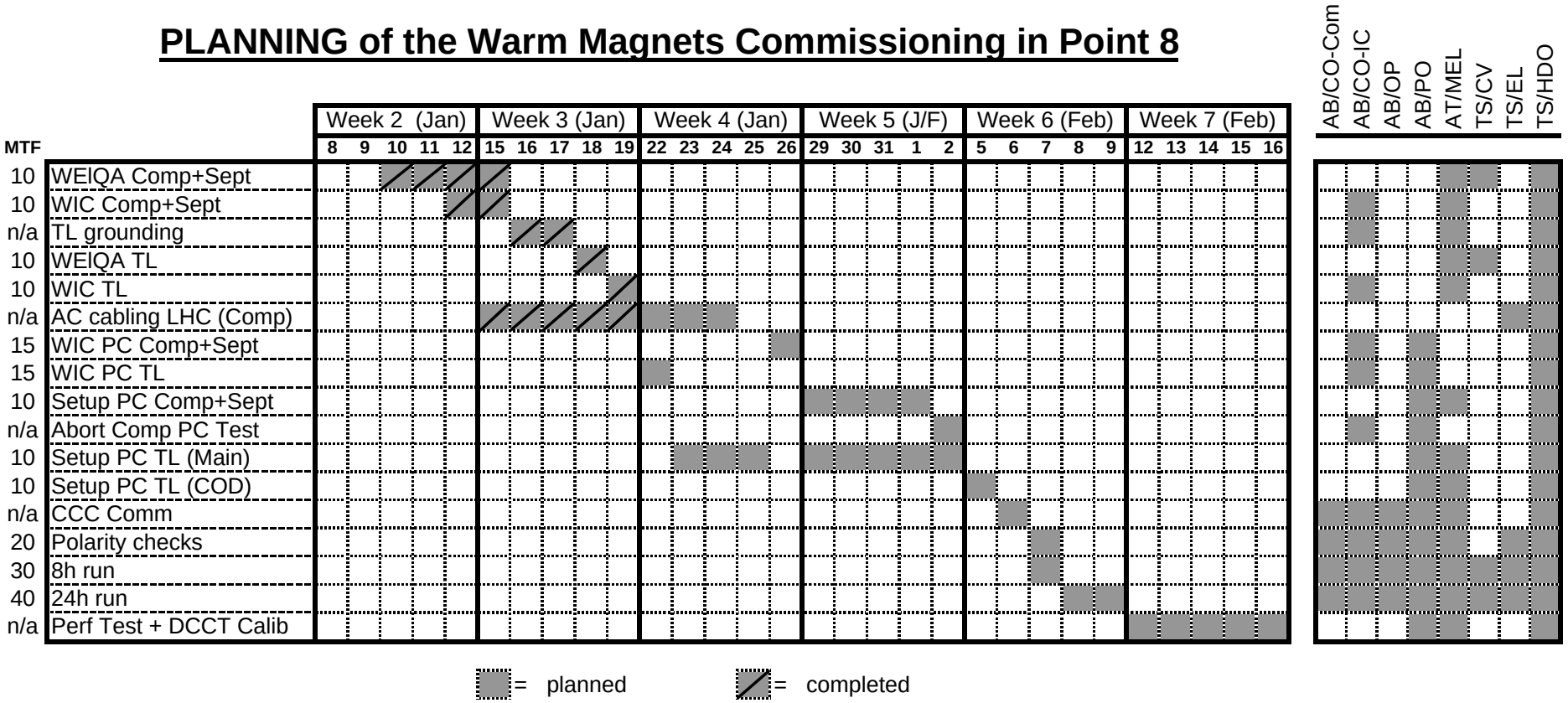
MSI-circuit inductance in database 127 mH (sum of measured L on individual magnets is 97 mH)

Inspection during heat run

Remove cover	1								
Visual check	0.5								
Power connections									
Water connections & valves									
Ground connection									
WIC connection									
Polarity	0.5								
Current Nominal		*780*	*750*	*780*	*950*	*950*	*950*	*950*	*950*
Measured									
Thermal camera images	1								
Replace magnet covers	1								

Total time **6** **hours**

PLANNING of the Warm Magnets Commissioning in Point 8



Pt8 Warm Magnets Commissioning: MTF Baseline Structure