

# -BOOSTER SHUTDOWN 2008/2009-

## *HARDWARE TESTS PROGRESS*

### PERIOD from 02/03/2009 to 15/03/2009:

1. Remaining tasks from Shutdown period: <https://edms.cern.ch/document/976116/>

#### Task n.14: VELO project:

- Programming new timing for synchronisation to Booster ejection → ended;
- Timing test (BEX.VELO) → next week.

#### Task n.62: Lift interlock: → no progress;

-We are waiting for an offer from the lift company to modify the automatism. If the lift is not ready for 30/03, then we will apply the temporary and compensatory measure: the lift condemnation (until the modification done).

Concerning the D18 forbidding the stairs use. It will be mechanically locked as before;

2. Hardware tests period (from 02/03/2009 to 23/03/2009) :

#### “Déconsignations Electrique”:

The Booster power supplies (magnets) are almost reconnected to the electrical network from 02/03; except the MPS → 16/03.

#### HV tests performed 03/03 on main magnets:

During these tests the Reference Magnet failed on two points:

- One of the insulator bracket supporting the busbar and water pipe smoked ;
- One of the demineralised-water hoses feeding the reference magnet leaked;

The decision has been taken to change the whole set of insulators and pipes feeding the magnets. The pipes have already been changed, last week. The new insulators are under construction and will be mounted in middle of next week.

Concerning the measures done (leakage current- magnets insulation):

The last measures have been done in 1997. Roughly, the result found after the measures were a little under the expectations (comparing with the ones done in 1997) but still in the tolerances. This result seems due to the demineralised water conductivity too high. The filtering cartridge was changed before the test but the conductivity remains high. This problem is monitored by EN/CV.

I am waiting conclusion from TE/MSC.

Septa, Kickers, Cavities were set in service during the 1<sup>st</sup> week, no problems to signal.

BDL, QCD and QCF test:

From yesterday until today, the tests of BDL, QCD and QCF were performed by TE/EPC. I am waiting for feedback (on Monday).

Conclusion:

Presently, there are no major problems found. The Reference magnet will be fully repaired (insulators) around Wednesday the 18/03. I am confident to deliver the machine on Monday the 23/03 as scheduled to start the Cold Checkout period.

Next week the Hardware Test will start their 3<sup>rd</sup> and last week, please consult the link:

[-HARDWARE TESTS PLANNING.](#)

**NB: for all tasks or events, please refer to e-logbook: CPS\_shutdown\_news/PSB: Shutdown.**