

Booster HDW Commissioning - feedback from W32

MACHINE STATUS and TESTS

- **Monday 03/08 + Tuesday 04/08: Access allowed in the whole machine**
 - **TE-MSC+BE-OP:** All transfer lines Polarity Check: BI/BT/BTM lines done with some correction planned
 - **TE-EPC:** PowM1553 power converters in BTY line not ready and not possible to check
- **Tuesday 04/08:**
 - **EN-CV + EN-EL + TE-MPE + TE-MSC:** WCC (Water Cooled Cables) flow meters (4 ELETTA) changes from 15l/min to 35l/min (Online/On site meetings) → Finally EN-CV installed the 4 (2 in SS16 in the machine, 1 underneath the Old Reference Magnet, 1 underneath the false-flour in BPH).
 - **TE-EPC + BE-CO+ BE-OP:** BTY line power converters unlock out issue (no control from CCC)
 - **TE-MSC + TE-EPC+ BE-OP:** Re-tested BT.BHZ10 with the 2 power converters (2Q / 4Q) + Spare → tests succeeded
- **Wednesday 05/08: BDLs/Q-Strips/Trims unlock out**
 - **TE-EPC:** BDL commissioning continuation
 - **TE-MSC + TE-EPC + BE-OP:** Polarity Check in the Ring (BDLs, Q-Strips, BR.XNOHØ and BR.ONOHØ) → tests succeeded **BUT** few issues on the control pointed out (TE-EPC controls aware).
- **Thursday 06/08:**
 - **TE-MSC + TE-EPC + BE-OP:** Polarity Check in the Ring (Multipoles and Correctors) + re-test of inverted polarity in TL → tests succeeded.
 - **EN-EL: Electrical Power cut affecting the ME25. From TI, the power cut comes from the ME6 (PS) due to a bad manipulation (~2h delay)**
 - **BE-OP + BE-BI:** Dry run BCTDC 9L1 → Tests Ok. No problem found.
 - **BE-OP + BE-BI:** Dry run BCTTRIC + BCTFPS Transfer Lines (anticipated to test the WD BR/BI on Friday) → Tests Ok. No problem found.
- **Friday 07/08**
 - PSB machine inspected to prepare the DSO tests to qualify POPS-b.
 - **BE-OP + BE-BI:** Dry run watchdog between BRr.BCT8L1/BIr.BCT20 → Tests Ok. Couldn't test the BR.BCTWD.BI (global) for BIS interlock → Software Expert problem.
 - **BE-OP + BE-CO:** finally found the problem of no control of many Pow1553 in BTY. (TTL-BLO board breakdown on the pulse repeater crate) → Polarity finally performed: Tests ok.
 - **BE-OP + TE-MPE:** Dry-run WIC performed on all Ring/Transfer line power converters / magnets → Tests OK (except 1 BI.BSW + POPS-b not yet available → After DSO_T. 10/08)
 - **TE-MSC:** Main magnet grounding removal for POPS-b setting up on real load.

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MACHINE STATUS:

- The machine is electrically unlocked out with Main-Magnet covers OFF → **POPS-b tests started on Monday 10/08 PM**
- **No Access allowed in the Machine except for those owning the SPECIAL_PERMIT right**

TESTS PLANNED:

- **Monday 10/08 AM:**
 - SWY patrol for the PSB DSO tests preparation
 - **DSO tests: 12h to 14h → POPS-b integration**
 - **EN-CV + BE-OP + EN-ACE:** Booster bdg.361 BAT inspection for the low Cooling issue.
- **From Monday 10/08 AM → 17/08 PM (Monday in week n 34.):**
 - **POPS-b setting-up on the real load**

FORESEEN ACTIVITY IN THE COMING WEEKS:

- Week 34:
 - Main Magnet Heat Run → 18 – 19/08
 - Main-Magnet covers installation (POPS-b/Main Bus-Bars Lockout with grounding) → 20 - 21/08 (Access to Booster possible – to be confirmed)
- Week 35/36: Magnet cover consolidation

COMMUNICATION:

- Fell free to join the **Daily VIDYO chat room at 9:00** (L4-PSB-OP-DESK: <https://vidyoportal.cern.ch/join/pPOR2L2sFG>)