



ELENA Project

E. Harrouch



Installation follow-up
+ Hardware Commissioning

ELENA Magnets status w43

▶ 12 MCCAY H/V correctors status:

- ▶ **1-MCCAY03:** Installed in the RING, position LNR.MCCAY.0535.;
- ▶ **2-MCCAY04:** Installed in the RING, position LNR.MCCAY.0330.;
- ▶ **3-MCCAY05:** Installed in the RING, position LNR.MCCAY.0230.;
- ▶ **4-MCCAY06:** Installed in the RING, position LNR.MCCAY.0615.;
- ▶ **5-MCCAY07:** Installed in the RING, position LNR.MCCAY.0405.;
- ▶ **6-MCCAY09:** Installed in the RING, position LNR.MCCAY.0460.;
- ▶ **7-MCCAY08:** Certification is almost finished, Installation in the RING on **02.11.2016 (modification for BPM box :done)**;
- ▶ **8-MCCAY10:** Certification is almost finished, Installation in the RING on **02.11.2016 (modification for BPM box :done)**;

- ▶ *9-MCCAY11, delivery foreseen on week 44-45, for Installation **in TL** ;*
- ▶ *10-MCCAY12, delivery foreseen on week 44-45, for Installation **in TL**;*
- ▶ *11- MCCAY14, delivery foreseen on week 47, for E-cooler;*
- ▶ *12-MCCAY13 delivery foreseen on week 47, for E-cooler.*

27/10/2016

TE-MS/MNC



Vacuum advancement

Vacuum sector	Desc.	Bake-out	Pressure reached
LNI-LNE	Inject, from AD + Eject. To exp.	Done	-
LNS20	Source	New gate valve installed. Next step bake-out.	-
LNR10	Eject. to exp.	Done	1×10^{-12} mbars
LNR20	Inject. To ELENA	Done	<u>$1,4 \times 10^{-10}$ mbars</u>
LNR30	Eject. to GBar	Done	<u>2×10^{-12} mbars</u>
LNR40	E-Cooler Sect	Done	<u>1×10^{-10} mbars</u>
LNR50	Scrapers + RF	Done	<u>5×10^{-12} mbars</u>

REMINDER

Hardware tests

- ▶ Any tests performed on the machine should follow the same procedure :
 - ▶ Notify ~~François Butin~~ Erwan Harrouch and Jose Gascon by email with a description of the tests that you foresee.
 - ▶ ~~François~~ Erwan will then trigger a Visite d'Inspection Commune (VIC) if required
- ▶ Please notify to me all the tests/work that will be performed after the end of the bake-out so they will be integrated to the planning.
- ▶ Erwan Harrouch will replace Francois Butin from 20/10 to the 2/11 for this procedure.

Hardware tests Planning

- ▶ Cf Excel file attached to the Indico meeting
- ▶ Changes from last meeting :
 - ▶ Electrical inspection of BT installation will start on the 31/10




Access restriction


- ▶ **On W45 the access to ELENA will be restricted to authorized people (Powering tests)**
- ▶ For access :
 - ▶ EDH request for Bldg. 193 - Access to ELENA ring (0193-ELENA)
 - ▶ Impact : <https://impact.cern.ch/>

Facility*: ELENA

—Where—

Locations:

Location*: 193/S-J12 : ELENA Mach   Access points: 

YEAP-ADPPE9 

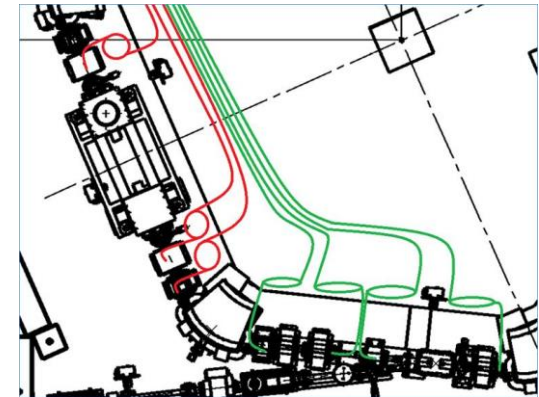
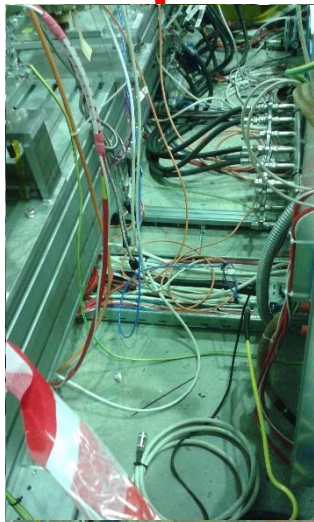
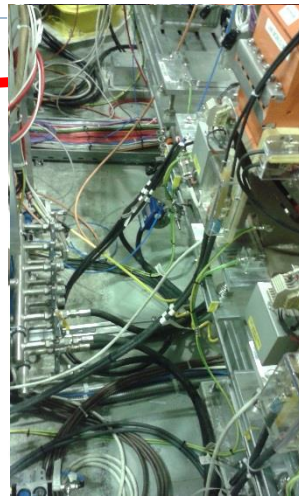
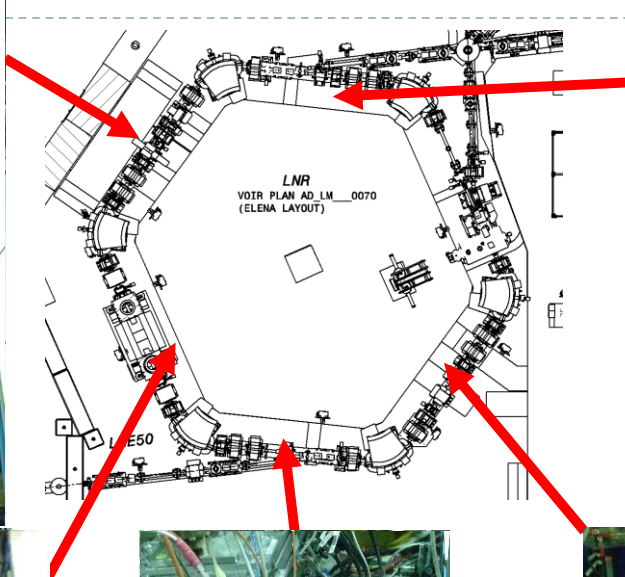
- ▶ Special access procedure during the power tests : [See Didier Chapuis/Boris Morand slides at the last IIC](#)

Summary of next week

- ▶ Alignment of the correctors (EN-ACE)
- ▶ Tests on LNS20 (TE-VSC)
- ▶ Installation of 2 corrector magnets (TE-MSD)
- ▶ Magnet initial tests (TE-MSD)
- ▶ Tune measurement tests (BE-BI)
- ▶ BPM Final assembly and tests (BE-BI)
- ▶ Scrapers tests (BE-BI)
- ▶ RF Cavity tests (BE-RF)
- ▶ Longitudinal Pick-up : Amplifier assembly + test (BE-RF)
- ▶ Kicker powering tests (TE-ABT)
- ▶ ZQNA and Ion Switch individual system test (TE-ABT)
- ▶ Electrical inspection (EN-EL-BT/HSE)
- ▶ **Cleaning of the area (Everyone)**

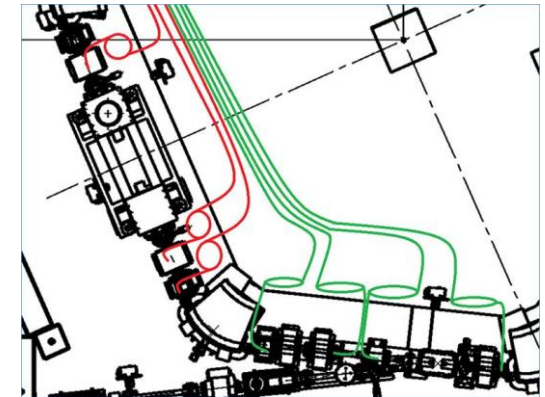
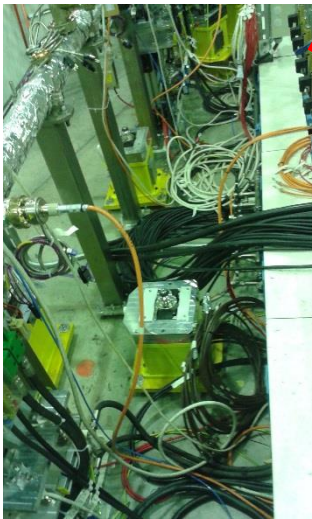
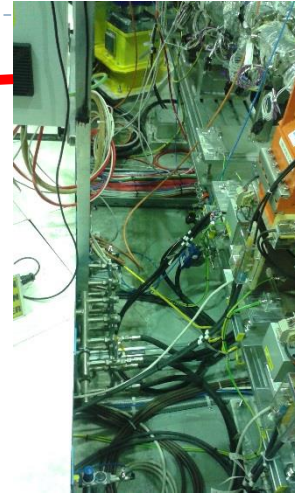
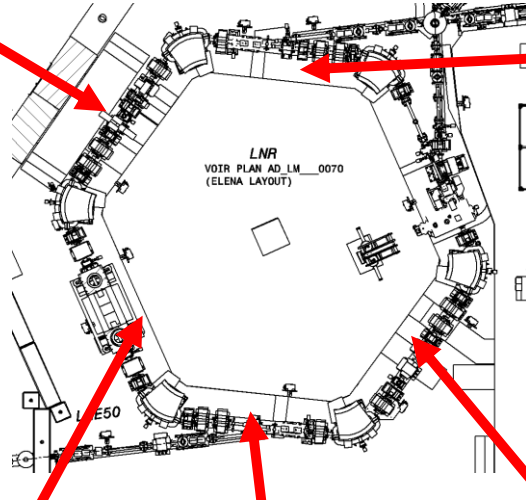
Spare slides

On the 21/09



Please put your cables in the green configuration

On the 13/10



Please put your cables in the green configuration

Lock-outs

REMINDER

- ▶ Racks sous la responsabilité de TE-EPC :
- ▶ Liste des Racks Convertisseurs se trouvant sur la plateforme :
 - ▶ RYE01 à RYE03 Powering Ring (Responsable équipement : [Kuczerowski, Nicolas](#))
 - ▶ RYE08 Ion Switch (Responsable équipement : [Machado Christophe](#))
 - ▶ RYE10 à RYE13 Transfert Line HV (Responsable équipement : [Machado Christophe](#))
 - ▶ RYE18 à RYE21 Electron Cooler Low Converters (Responsable équipement : [Yves Thurel, Ludovic Charnay](#))
- ▶ Liste des Racks Convertisseurs se trouvant en salle de puissance :
 - ▶ RA-K302 à RA-K307 ELENA Electron Cooler (Responsable équipement : [Ludovic Charnay](#))
 - ▶ RB300 et RB301 Convertisseurs APOLO + Spare (Responsable équipement : [Christophe Mutin](#))
- ▶ LNI bendings: Locked-out (C.Carli) + ground straps on magnets
- ▶ **La demande de consignation peut se faire via le service first line EPC 163668 ainsi qu'à Michal DUDEK ou un responsable d'équipement.**