

ELENA ELECTROSTATIC ELEMENT READINESS FOR LS2

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ZQNA, ZDS, ZDFA tanks

- ZQNA: 6 units remain to be validated by VSC – already enough validated for installation
- ZDS: all ready for installation
- ZDF: all 7 TL tanks remain to be validated by VSC
- HW commissioning:
 - Installation by VSC
 - Electrical connection and validation by ABT (measurement of capacitances)
 - Currently 2 weeks in planning foreseen
 - Need 4 weeks
 - April 2020 looks good
 - Project engineer: Antoine Prost

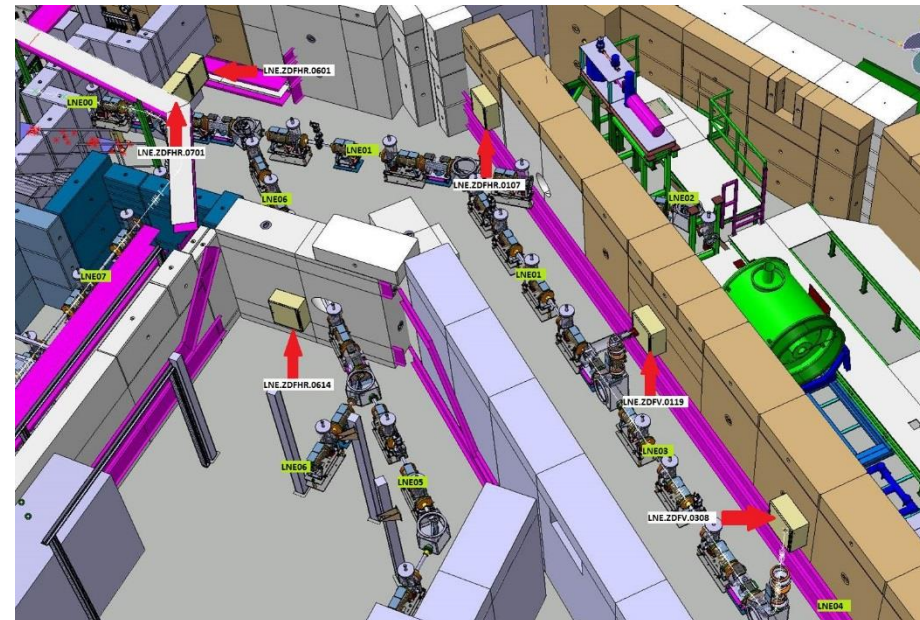
ZDFA Power and controls Installation

- Install 7 generators cubicals as defined in the transfer lines
- Install power and control racks on the platform
 - PCU, HVPS, EIS, NI Control crates, Analog interfaces
- After EN-EL cabling campaign:
 - Mount special connectors
 - Inter-racks cabling (timing and controls)
 - Cabling verification
 - Control software deployment

5 days start week 2 2020
3 days start week 6 2020

4 days start week 15 2020
4 days start week 7 2020
2 days start week 16 2020
5 days start week 7 2020

Project engineer: Nicolas Voumard



ZDFA Local and Remote Tests

- Check all hardware interlocks and control 5 days start week 17 2020
- HSE Inspection 1 day start week 16 2020
- Test of all the EIS-b interfaces to ZDFA 2 days start week 18 2020
 - During EIS tests, the whole area will be closed to works...
- Local tests to be performed on each generator (9x) 10 days start week 18 2020
 - Test to be performed with autorisation of HSE and with adequate markup asit was done for the ring FD.
 - Put high voltage up to $\pm 7\text{kV}$
 - High Voltage pulse using local timing
 - Adjust analog pickups to transmission lines.
- Remote tests 10 days start week 20 2020
 - Check control via the KNOB in remote.
 - Check and adjust timing for each ZDFA.

The foreseen start dates above are subject to change due to FSU coordination planning. The priority is given to LIU first.

According to actual ELENA installation planning, we may be late for the commisionning.