

# Accelerator Complex Status

## End week 4 (Monday 31 January 2022)

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### Technical Infrastructure (Jesper Nielsen):

Statistics:

- About 8'000 alarms.
- 860 phone calls (655 incoming, 205 outgoing).
- 99 ODM created.

Events worth mentioning:

- On Tue. 25.01, An emergency stop cable was cut by accident in EHN1. This button is planned for de-cabing at a later stage. No serious impact for the North Area.
- On Wed. 26.01, OP-Webtools server completely down, all TI webtools not working for 1 hour. A web server in IT was down.

Details: <https://wikis.cern.ch/display/TIOP/2022/01/31/TI+week+summary,+Week+4>

### LINAC 4 ()

Hardware commissioning started Wednesday 26.01. The gas injection valve of the source was replaced. Beam commissioning will start on Wednesday 02.02.

### PS Booster ():

YETS.

### ISOLDE (Emiliano Piselli):

We have performed few tests (using automatic scripts) to check the noise level of the faraday cups in the separators and in the low energy beamlines.

#### **BE-OP-ISO**

After exchange of the extraction electrodes last week, a target unit equipped with a laser power meter (#501) was installed on HRS. The laser transmission through the extraction electrode was documented and ability to also send lasers through the new holes at the side of the electrode for operation of a special ion source was confirmed.

The laser entrance window on the first HRS magnet was exchanged, as a previous test showed coating by deposited material on its inside. The same test was conducted on GPS and no hints for these deposits were seen. Initial measurements with the powermeter target on GPS confirmed identical transmission to the unit as on HRS, also confirming no transmission losses in the laser window.

After installation of RF supply infrastructure on the HRS frontend last week, the electrical coupling of the LIST target which requires this RF voltage for operation was confirmed. Thus, HRS has been shown to work with the LIST ion source in the future.

#### **BE-OP-ISO + Reinhard Heinke (SY-STI) on behalf of the RILIS team**

HRS separator magnets GPIB-ethernet controllers exchanged with new one's (EPROM damaged, issues with IP address persistency)

#### **BE-OP-ISO + Vincenzo Di Capua (TE-MSD).**

### PS (Marc Delrieux):

The HWC for the switchyard has officially started on Wednesday 26/01. Not much to report, only ABT equipment can be tested: KFA13, 21, 28, SMH16, 26, SEH23. All EPC power converters stay with a lockout until the beginning of the PS HWC, on Monday 07/02.

Joint DSO tests completed successfully on Monday 25/01 and Tuesday 26/01.

PS ring still in YETS.

[PS - East Area \(\):](#)

YETS.

[AD - ELENA \(\):](#)

YETS.

[SPS \(\):](#)

YETS.

[SPS North Area \(\):](#)

YETS.

[AWAKE \(\):](#)

YETS.

[LINAC 3 \(\):](#)

YETS.

[LEIR \(\):](#)

YETS .

[CLEAR \(\):](#)

YETS.

[LHC \(\):](#)

YETS.