LS2 planning meeting
A. Tauro
CERN is in Level 3 - Orange

• CERN’s COVID scale determining conditions for on-site access, telework and other measures based on a 4 levels scale

• CERN will be moving to level 2 – Yellow on Monday 7 March

• Applicable to all ages categories i.e. no more difference for the 65+

• Visits – see https://hse.cern/content/access-cern-covid-19

Main changes in going to Yellow as being:

• On-site working becomes the norm. Teleworking is possible according to OC7 with 40% of contractual hours telework permitted in any two-week period

• Physical meetings: limited to 200 indoors and outdoors (50 in Orange)

• Self test available also at P2

• You are encouraged to take a test at least once per week

• Registration via plamed (https://plamed.web.cern.ch/)
LHC schedule

Powering tests

Machine checkout

Today

4.3.2022
LS2 planning meeting
ALICE LS2 schedule

- Underground access ends on **Thursday 24th March 2022 PM**
  - Still **3 weeks** of access

- **ALICE shielding reinstalled** this week (March 2nd), **restart both magnets** next week (March 7th)

- **DSO test** on March 25th, followed by 2 weeks **machine checkout** & S23 powering (punctual access possible)

- **Machine commissioning with beam** expected to start on April 13th (Easter week)
L3 doors & shieldings

• **L3 doors** closed on February 14\textsuperscript{th} and **ventilation** reinstalled → access inside L3 possible with watcher

• **Miniframe shielding** reinstalled last week

• **PX24 shaft** closed this Tuesday → LS2 activities concluded!!!
ALICE magnets

- L3 water cooling already running; Dipole water cooling will be started this morning

- Search inside magnets, Miniframe and UX25 cavern this afternoon (Klaus + Philippe/Cedric + Andrea)

- L3 and Dipole will be restarted next Monday, March 7\textsuperscript{th}, at 9:00 (via the ARC)

- The magnets will be turned off from Wednesday March 16\textsuperscript{th} at 8:00 AM to Thursday March 17\textsuperscript{th} at 18:00 PM to carry out the following interventions requiring no B field:
  - MCH ST1 (work on remaining readout issues) – FASS
  - TOF (repair HV connectors on 3 TOF sectors) – L3
  - TPC (noise investigation on the A-side) – L3/Miniframe
  - TE-VSC: open beampipe manual valve (Thu 17 Mar) – Miniframe
Activities – detectors 1/2

- **TOF:**
  - All RO boards are on (no more cooling bottlenecks). Intervention to unclog crate 35 planned for the next YETS
  - EN-CV: cooling plant modification to decouple CPV from TOF/Dcal and allow operating the pump at 3.5 bar → done 2 March
  - DCDC replacement + crate inspection with Fabio → access inside L3 today around 16:00
  - Repair HV connectors on 3 TOF sectors → access inside L3 on 16-17 March

- **TRD:**
  - Some Wiener LVPS seem too warm, likely to replace them with spares

- **TPC:**
  - L3 air cooling T increased by 1C (18C instead of 17C) → will stay like this
  - 100% FEC working
  - Laser: one laser shows some problems and needs inspection → intervention planned 5-7 March (Borge)
  - Noise investigation on the A-side → additional tests to be done
Activities – detectors 2/2

• **ITS cooling plant:**
  - Installation of valves in the return lines postponed to YETS due to late delivery
  - PP1 filters replaced
    → flow through the detector significantly increased (6 m$^3$/h → 7 m$^3$/h with the same settings)
    - Verification of lines being finalized
    - Settings being optimised to arrive to a reasonable total flow

• **MID:**
  - Intervention on two RPCs: one needs a new HV connector and the other one has a broken gas inlet that has to be replaced. Both interventions will be done on the outside half planes and will require the nacelle → Mar 2-3
  - Install and connect P sensor (cable installation done last Monday (BE-EA) → Mar 2 (EP-DT)

• **MCH:**
  - See next slides
  - Cleanout C-side area → w11-12
  - Reinstall green fences (Philippe, Cedric) → Wed 23.3
MCH commissioning

- Station 1:
  - Week 11 (16-17/03): work on remaining readout issues, need magnets OFF

- Station 2: Work completed this week

- Stations 345:
  - Work on readout issues seen during pilot run
  - ST45 R done, ST3 and ST45 L ongoing (at least 2 weeks needed)
    - Priority this week on ST34 while magnets are OFF
    - Will continue at least up to the 17th of March
  - Next week: repair of two faulty LV cables on CH8 and CH9

- VTRx cooling:
  - Installation of manifolds completed
  - First test with ventilation unit ON very promising, more tests this morning and next week
# MCH Status and Plans

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Today:
- LS2 planning meeting
- Andrea
Other activities

- EN-EL: energize spare 66/18kV → 28 Feb
- EN-HE: maintenance UX25 crane on Thursday 3 March
- Install additional light miniframe (staircase) (Philippe/Cedric)
- EN-EL: test de l'alimentation électrique des équipements sécurité machine LHC S23 Fri March 4th at 9:00
  - 10 min. cuts → the cooling plants and the services généraux in the cavern will be affected (including light inside L3 etc.). Racks shall not be affected. Access to miniframe and L3/dipole should be avoided (no light there)
- STEM: thorough cleaning UX25 cavern: 4 March (ongoing)

- EN-ACE: modify CR5 fences between 7-11 March (week 10)
- HSE-RP + Klaus: install SAM next to the beampipe valve: Fri 11 Mar
- EN-HEM: maintenance UX25 lift (AS-724): Tue 15 March between 6:00 AM and 8:00 AM
- EP-DT: install gas chromatograph in CR5 MID rack → w14-15
- EN-CV: modification “coffret pompiers” outside SX2 → 12-13 April, 15’ stop UX25 ventilation + block UX25 access