

# TS1 preparatory meeting

A.Tauro



# General information

- LHC-TS1: Monday 18<sup>th</sup> June at 6:00 (beam off) to Thursday 21<sup>st</sup> June @17h00 (machine back to OP, ready for commissioning after TS). The final agreement from Atlas about the duration of the TS1 will come on Tuesday 19<sup>th</sup> June (LMC 30<sup>th</sup> May 2018)
  - Cavern access: from Mon 9:00 to Thu 16:30
- Magnets and RP search:
  - RP check: Mon 8:30 - 9:00 → Andre + Klaus
  - Magnets already off
  - L3 magnet converter test (request TE-EPC) Thu from 8:00 to 12:00 → 5kA
  - B field measurement (Klaus + AD) Thu 15:00 → 30kA
- Access mode: automatic restricted (with token)
- No visits allowed downstairs

# Access restrictions

- Due to the work on the diesel, UX access is limited to 'working hours' (~7:00 AM – 18:00 PM) only. **Access outside these hours is not possible**
- **Underground lift (AS-724) maintenance Wed 20<sup>th</sup> from 6:00 AM to 8:00 AM → no access underground**
- **L3 magnet powering test (low field) (request TE-EPC) Thu 21<sup>st</sup> from 8:00 to 12:00 → no access L3, Dipole**
- **L3 and Dipole magnets powering at full field (request AD) Thu 21<sup>st</sup> from 15:00 → no access L3, Dipole**
- **NO access to triplets area (ADC in LHC tunnel)**

# Detector activities 1/3

- TPC:
  - Inspect TPC gas bellow (L3, C-side) on Wed
- TPC (laser): try a new energy meter
- TPCU – miniframe:
  - Remove 2 OROC and 2 IROC and install 4 new OROC and 3 IROCs.
  - Mon-Tue ‘heavy’ work + Wed fine tuning
- SSD:
  - Replace board
- TOF:
  - Reworked A1395 LVPS to install (4+2/3 couples)
  - A1396 (DCDC converter) to replace on crate 39
  - HV module (SM12Mod2Pos) to fix

# Detector activities 2/3

- TRD:
  - Access to LVPS
- PHOS:
  - Maintenance of PHOS crystal cooling plant
- EMC:
  - Access needed
- MTR:
  - Test support for SOLAR crate (upgrade): need a nacelle
  - Check location of SOLAR crates for stations 1,2,3 : => magnets OFF
  - Check cables, LVPS
  - Setup DAQ test bench with new electronics to measure the noise
- MCH:
  - Prepare LS2 cabling

# Detector activities 3/3

- ZDC:
  - Assess the correct functioning of the ZDC lifting platform; perform some cycles of movements of the lifting units and have a visual checks

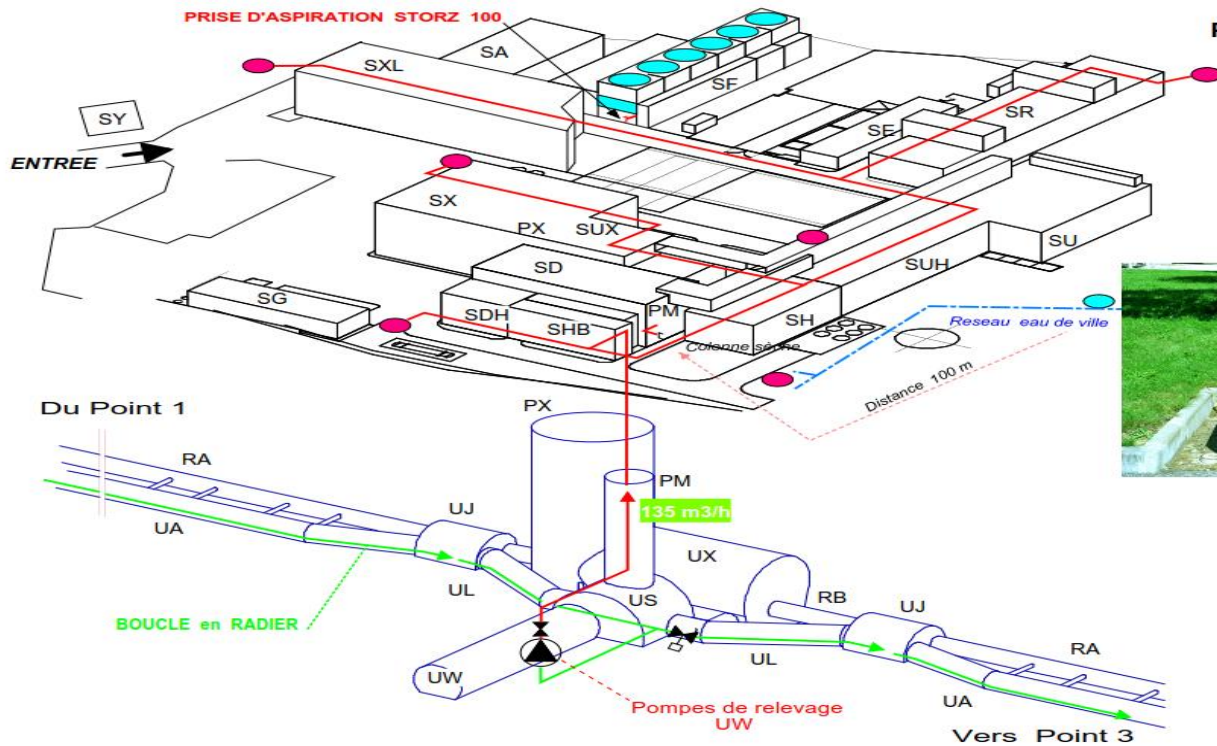
# Other activities

- Pieter + Philippe: removal BLS on Monday morning starting at 10:30
- TC:
  - PP0 ITS connectors – Mon 9:00
  - PP0 TPC cables to be kept/removed – Mon 10:00
  - Omega platforms, I-bars and other things – Tue 14:30
  - Visit to remove UP25 MAD – Wed 9:00
  - Visit for ITS/MFT inox pipes – Wed 9:00
  - Discuss TOF displacement (low-voltage cables) – Wed 10:30
- EN-EA: finalize LS2 cable lengths, cable trays and routing
- BE-ICS:
  - SNIFFER FW upgrade (Tue)
  - Maintenance SG2, CR5 and UX25 gas detection + SNIFFER (Thu)

# EN activities

- EN-EL:
  - Consolidation of P2 diesel PLC (3 days) → UX access limited to 'working hours' (~7:00 AM – 18:00 PM)
- EN-CV:
  - Mon: Maintenance MCH ST4-5 extractor
  - **Tue: stop P2 raw water** (eau-brute) (test to prepare the fire network loops consolidation during LS2). UX25 fire hoses switched over to surface tap water (via *colonne-seche*)
    - FB on site
    - no impact on access, cooling (cooling towers will be re-run with tap water)
  - CV-DC: RP sampling foreseen only on:
    - TOF/PHOS: to check the water quality
    - SSD/SDD: to fill the plant and work on the primary network





PRISE ASPIRATION Storz 100



POTEAU INCENDIE



RESEAU de SURFACE  
ALIM. depuis la boucle

POINT 2

- Poteau incendie interieur CERN
- Poteau incendie exterior CERN
- Boucle EAU BRUTE
- Reseau incendie de surface

STCV-98/4..V2- 2SURFAC.DSF FOLIO 06 A

# L3 access

Watcher in **bold**

	Mon	Tue	Wed	Thu	Fri
AM shift (8:00 – 12:30)	-	-	-	No access	/
PM shift (13:30 – 18:00)	-	-	-	- End TS1 16:30	/

- Usual maintenance and backup on the Monday morning (from 09:00 till 12:00, probably less if all goes well), no DCS available for that period.