The SPS scrubbing run is foreseen to start in week 12 (as of 21.3). The scrubbing was also discussed at the SPS MPC meeting on 2.3. with presentations from Chiara and Lotta. The scrubbing is planned to proceed as follows:

**Recover performance of LHC beam**
- **Week 1:** Scrubbing at flat bottom
  - Condition the newly installed kicker MKDV1
  - 4×72 bunches at end of long flat bottom
  - Mon am – Thu am: dedicated scrubbing,
    - From Thu: scrubbing at night: 20:00-8:00, or more, as determined by MKP-L (stress test)
  - MKP-L stress test likely towards the end of the week
- **Week 2:** Scrubbing on the ramp
  - 4×72 bunches at 450 GeV/c (not reached in 2021)
  - May require continued conditioning of the MKDH
  - Scrubbing at night, 20:00-8:00, or less, as determined by MKP-L
- **Initial bunch intensity of 1.3×10^{11}, gradually move to 1.5×10^{11} as the scrubbing allows**

**Prepare for LIU 2022 intensity goal**
- **Weeks 3 and 4:** Scrubbing at flat bottom with high intensity
  - 4×72 bunches with 2×10^{11} p/b injected, at end of long flat bottom
  - Gradually increase the intensity from 1.5×10^{11} p/b, in steps of 0.1 – 0.2×10^{11} p/b
  - Scrubbing at night: 20:00-8:00, or less, as determined by MKP-L

**Discussion and actions:**

Carlo and Elena, as well as Hannes and Ingrid will join the scrubbing team and are available for shifts in the CCC.

PyJapcScout scripts: Start testing reliability of scripts with heavy applications like FBCT and check with Davide to understand if improvements/fixes can be made on the PyJapcScout side. (Hannes, Kevin)

E-cloud monitors: Holger confirmed that the e-cloud monitors are set up as they were in 2021. Still some work to be done on the analysis tools for the .sdds data and some issues running the tools on Windows. (Lotta, Holger)

COLDEX: The weekend of the first week of scrubbing was identified as the most promising window for potential COLDEX data taking. Still to be confirmed if COLDEX will be ready at this point. (Vincent, Kevin)
Crab cavities: The crab cavities should go in at the beginning of the scrubbing, to take advantage of the gradual intensity ramp up, to avoid slowing down the scrubbing at a later stage. Pending confirmation on their side.

MKD interlocks: As told by Chiara at the SPS MPC on 2.3, interlock levels for MKDs are set to $3e^{-7}$ mbar (SW) (?). Last year we had $1e^{-6}$ mbar at flat bottom, do we need this again? Looking at the pressures from scrubbing last year, it could be helpful during the first part with dedicated scrubbing. (Lotta, Chiara, Kevin)

AOB:

It appears that there is interest to continue more regular e-cloud meetings, e.g. for scrubbing follow-up and for continued discussions with vacuum and surface team.