ISOLDE Report FOM 2020/08/11 (Week from 08/04 to 08/10)

ISOLDE low energy hardware commissioning :

- **Electrostatic quads and steerers polarity tests:** all done except for
  - the 2 new front-end, not in place
  - the RBO line: damaged connectors – need to be changed

- **Vacuum systems** (J. Ferreira Somoza): progressing as planned
  - From Friday all Low energy lines are pumping. (too much outgassing in sector with the new tape station, and leak in CA10 sector)

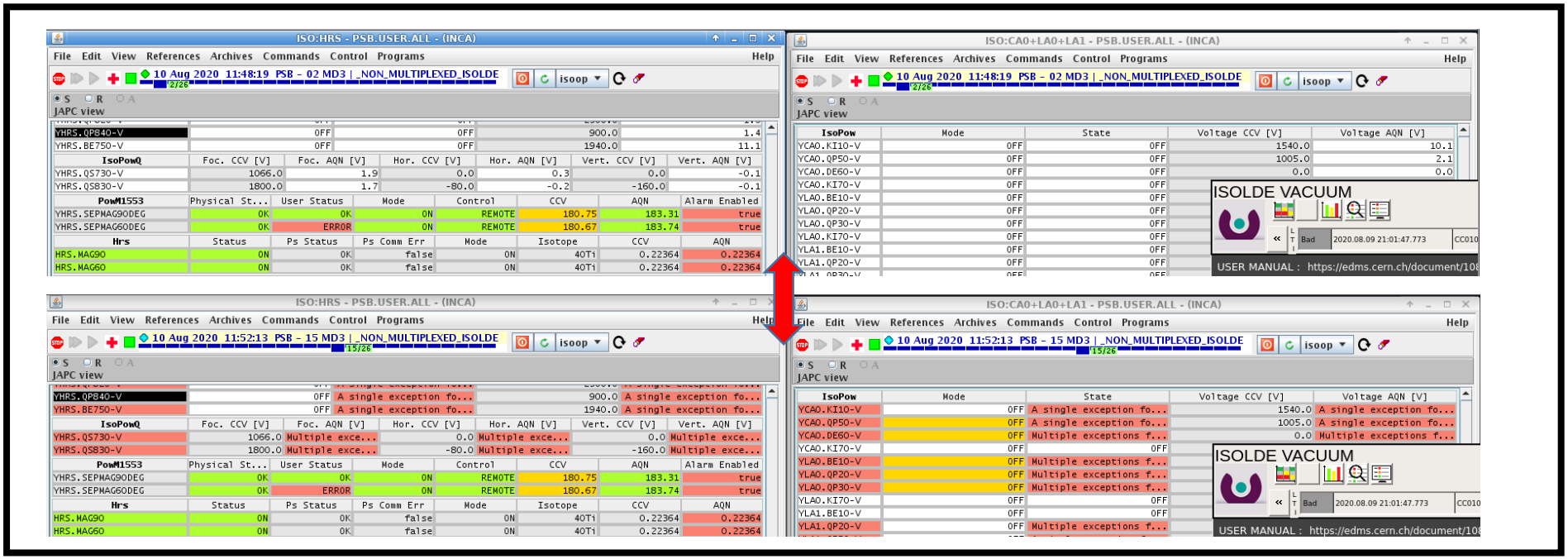
REX/HIE-ISOLDE hardware commissioning :

- **Beam instrumentation tests of:**
  - Voltage of the electron suppressor completed (All the FCs except for the three new ones)
  - Gain for all the FCs
  - Integration window
  - Movement tests.
  - **Pending issues:** Several devices don't respond to the movement requests. E. Bravin, S. Sadovich working on the problem.

- **Cryogenics and SRF** (W. Venturini, D. Valuch): progressing as planned
  - The tunnel was opened on Thursday morning to carry out on CM4 for the installation of the solenoid leads (heaters and thermostats).
  - Cool down of SC cavities continued

- **REXEBIS** (Fredrik Wenander, Gunn Khatri, M. Lozano Benito): progressing
  - Optimization of the beam charge breeding in the REX-EBIS after injection from the REX-TRAP local ion source. Trap, BTS, EBIS and Separator tuned for 39K10+ and 208 mA electron beam.
  - Several mass-scans of REXEBIS contaminants done to investigate the reason of poor efficiency.
  - **Pending issues**. (Oasis support)
    TOF functionality (BTS.BO30 and RFQ.BO30) _ XBTS.BO30-TOF-CH signal seems just noise

Pending issues Reported on July 28th



Intermittent glitches in the control system. All controls freeze for around five seconds.
Observed from time to time but less of last week.