

## Lab Status / AEM Meeting Notes

Monday February 6, 2017

<https://indico.fnal.gov/conferenceDisplay.py?confId=13791>

### Incidents:

- None reported.

### Accelerator Operations:

- LINAC, Booster, MI & Recycler running well.
- NuMI: 1.79E19 POT.
- BNB: 6.23E18 POT.
- SY120: 1.99 E15 POT, 122 hours to MTest.
- Future schedule can be found: <http://www-ad.fnal.gov/ops/schedule.html>
- PIP-II Injector test: Third week of Shut down to install 30deg bend in LEBT.
- FAST: Shutdown for 300 MeV upgrade continues.
- LCLSII prototype cryo module. Various systems tests & microphonics measurements.

### MicroBooNE:

- 90.5% uptime, but with HV issues data is not for physics. Increase noise activity in drift HV power supply being diagnosed. Cause not yet identified, but appears to be on the cold side of the system.

### MINERvA: (Jan 26- Feb 1)

- 98.1% uptime (97.8% with MINOS ND).

### NOvA:

- Running smoothly. 98.6% FD uptime.

### SeaQuest:

- Taking data with solid targets. 92% good proton utilization. H2 & D2 target filling will begin Wednesday.

### PPD Operations:

- Muon g-2
  - All charcoal is out. Expect to weld flanges on Wednesday and close up.
  - Cryo shifts start Monday with cool down starting a few days later.
  - All other warm-up activities complete. Tuning cryo system in preparation for restart.
  - Work continuing on calorimeters, NMR probes, vacuum systems this week.
- Mu2e: Collaboration meeting starts Wednesday
- CMS
  - At the Chamonix meeting to discuss LHC operations, it was announced that emittance and crossing angle won't change. Expect to add bunches and

increase protons per bunch. Commissioning starting 5/1. Stable beams 6/12. Only 18 weeks of pp running. If all goes well, can expect  $\sim 45 \text{ fb}^{-1}$

-- Installation of HCAL Forward Front-End proceeding as planned. Now 75% complete.

-- Installation of Forward Pixel detector proceeding as planned. 3 or 4 Half Cylinders fully checked out after transport to experiment. BPIX is expected at CERN this week. Last half cylinder kept at Tracker Integration Facility (TIF) to allow further control/software development. Installation of FPIX in first week of March.

-- Installation of HCAL Endcap Front-End deferred. Diminished benefit of installation vis a vis Light degradation main reason for being prudent about not installing during this technical stop. Now considering risk-benefit of a partial installation to gain operational experience, and deliberating on installation next winter stop.

### **ND Operations:**

- DUNE: There was a risk workshop on Friday.
- SBN: ND building walk through next week. ICARUS warm vessel steel delivered.

### **TD Operations:**

- Started cryo plant cold box warm up to 300K; cooldown planned for immediately after 2/15 TD-Industrial Complex power outage.
- Completed successful start-up of Mycom compressor and tuning of pressure control loops, cool-down of purifiers, and preparation of controls / instrumentation for integrated operation of compressor and purifiers; continuing with test plan.
- Squeezed in tests of 10 SRF cavities, mostly LCLS-II production.
- Completed tests on first production LCLS-II split quad; preparing for 2<sup>nd</sup> quad.
- Prepared to change preload on the LARP model quad. Berkeley expert here this week.
- There has been enough progress on the LCLS-II microphonics issue that assembly has resumed on the first production cryomodules.
- Additional testing of LCLS-II cavities from the vendor that has been having trouble making specifications increased statistics from two cavities to four with a new process. Success rate went from  $\frac{1}{2}$  to  $\frac{2}{4}$ .

### **Computing Operations:**

- CCD: ReadyTalk transition to Zoom Feb-Mar. VoIP being upgraded this week. Feb 7<sup>th</sup>: end-user phone disruption 6-9PM. Feb 8<sup>th</sup>: service desk phone disruption 6-9PM.
- SCD: Short outages: 2/3 LPC interactive nodes; 2/4 Public dCache NFS service.

### **Office of Communication:**

- Family Open House, Sunday 12 Feb starting at 1pm

- Daughters & Sons to Work (DASTOW) day on June 9<sup>th</sup>.

**Directorate:**

- No report.

**AOB**

- Reminder to be careful not to use Fermilab/DOE equipment, Fermilab/DOE logos etc when engaging as individuals with outside activities.