

## Lab Status / AEM Meeting Notes

Monday December 5, 2016

<https://indico.fnal.gov/conferenceDisplay.py?confId=13440>

### Incidents:

None reported.

### Accelerator Operations:

- LINAC, Booster & BNB running well, Recycler in startup. NuMI at ~375 kW. Beam to SY when requested.
- Delivered  $9.43E18$  POT to NuMI.
- Delivered  $1.32E19$  POT to BNB for MicroBooNE.
- 18.9 hours of beam to SeaQuest, at their request.
- 43.7 hours of beam to MTest.
- Future schedule can be found: <http://www-ad.fnal.gov/ops/schedule.html>
- There will be an access Wednesday/Thursday to repair leaking magnet, which, to avoid increased cool-down times, must be done before re-commissioning slip stacking.
- MI-12 Communication Duct. Emergency repair plan in place. Hope to move to new cable in Jan/Feb ... hope to coordinate with Master SubStation outages.
- Work completed on repairing MS1 Bus.
- PIP-II Injector test: Low power operation for beam scans and studies.
- FAST: Shutdown for 300 MeV upgrade continues. Beginning magnet and stand installation, and on IOTA proton injector source.
- LCLSII prototype cryo module: Awaiting approvals for cryo cooldown.
- ICW Reduction: Needed to establish new Casey's Pond water strainer vault. Two-week reduction early in January. Measurements to assess impacts done today. Preliminary look at results is promising.

### MicroBooNE:

- Good week.  $1.30e19$  POT delivered. 97.5% uptime.

### MINERvA: (Nov 24-30)

- 98% uptime (97.5% with MINOS ND live). MINOS DAQ computer died this morning. Switch to hot spare in progress.

### NOvA:

- 47% FD uptime. Good efficiency after completing recovery from the effects of the partial power outage 3 weeks ago.
- ND running smoothly.

### SeaQuest:

- Target updates & DAQ commissioning still ongoing.

### **PPD Operations:**

- LHC 2016 run is complete. Highly successful heavy ion run finished this morning. CMS collected 185 nb-1 out of 193 delivered in Pb-p collisions. Extended Year-End Technical Stop now begins. CMS work includes installation of Forward Pixel detector and Hadron calorimeter Endcap electronics, both of which have important FNAL leadership and contributions.
- Mu2e got beneficial occupancy of the building last week. Mu2e hazard awareness training will be required for unescorted access. The contractor is still active so there are hybrid rules until their work is completed. Mu2e management had a productive site visit Friday to General Atomics in Tupelo, MS where the detector and production solenoids are being fabricated.
- g-2 is warming up. Rings are between 250-280K. Warmup will be complete by Thursday. NMR probe testing, vacuum chamber installation, calorimeter installation prep continues this week.
- Mechanical work on the shielded room at DAB is complete.

### **ND Operations:**

- ProtoDUNE: Trial assembly of components to be made at Ash River. DAB electronics test area preparation progressing ... should be ready in January.
- SBN: Beneficial occupancy walkthrough of Far detector building is scheduled for December 15. Completion of refurbishing of the first ICARUS TPC has been delayed due to a mechanical failure of components on the HV decoupling boards for the horizontal wire.

### **TD Operations:**

- LHe plant running well. Have started cooling down the new in-line purifiers, with start-up of new Mycom compressors to follow. This will increase our LN2 usage, but should reduce the LHe loss due to contamination and increase reliability of operations.
- All three vertical SRF test stands were active, with measurements for SRF R&D, LCLS-II R&D, and LCLS-II production. For the first time we put three LCLS-II cavities in a cryostat at the same time, allowing them to all be tested on the same thermal cycle, providing a significant increase in peak throughput.
- LARP model quad testing continued, still concentrating on the CERN quench protection system.
- The last IOTA quad was measured. Dipoles are next.
- Fourth LCLS-II split quad ready for measurements. Will ship to J-Lab in two weeks. First article quad from industry due in a week.
- First production LCLS-II string assembly is scheduled to move from MP9 to ICB this week.
- LARP long coil fabrication continues.
- HL LHC had a long and useful Cost & Schedule Risk Workshop. Preparation of CDR is in progress.
- Preparing to vacuum impregnate the first two coils for the first IQB rebuild.

- Platform components for the Mu2e Transport Solenoid module test cryostat at HAB are here and being assembled by the vendor.
- Mu2e vendor visit to General Atomics in Tupelo for production readiness review of the model solenoid.

**Computing Operations:**

- CCD: Good week.
- SCD: Good week. Computing systems in LCC being relocated; Wilson cluster off for 2 weeks.

**Office of Communication:**

- 350 people attended the December 2 Artist Reception for the 2016 Artist in Residence Ellen Sandor.

**Directorate:**

- No report.

**AOB:**

- ICW work: Area in front of A0 will be closed Thursday/Friday. Outbound Pine Street will also be closed Thursday/Friday.