

Lab Status / AEM Meeting Notes
Monday March 19, 2018

<https://indico.fnal.gov/event/16681/>

Incidents:

- CCD employee tripped on steps.

Accelerator (March 12-19):

- NuMI: 1.91E19 POT. Running at >710kW (w/o switchyard).
- BNB: 1.21E19 POT.
- Muon: 114.8 hours.
- MTest: 109.6 hours.
- MCenter: 12.9 hours.
- Booster & MI tuning continues. Muon Campus: tuning & studies + g-2 ops.
- Next scheduled downtime March 20-21.
- PIP-II Injector test: starting up. Beam established to dump.
- FAST: IOTA installation under way.
- LCLSII Cryomodule F1.3-09 testing.
- Schedule: <http://www-ad.fnal.gov/ops/schedule.html>

MicroBooNE:

- POT weighted uptime 95.4%

MINERvA (March 8-14):

- Uptimes: 97.6% (97.1% with MINOS ND).

NOvA:

- Uptimes: ND/FD = 99.9%/98.6%

Muon g-2:

- Beam tuning Friday.
- Trolley run results good.
- Steady data taking over weekend.
- Would like to switch from 8 pulses to 16 pulses Thursday/Friday this week.

PPD:

- CMS: 12 plenary talks at Moriond. HE electronics upgrade installed, detector buttoned up and running cosmics. Phase 1 upgrade – launching production efforts for front-end readout cards for HCAL Barrel.
- Mu2e: ASG sent first production TS unit to FNAL last week. Unit unpacked. Calorimeter – finished measuring 1st batch of crystals from St. Gobain.
- Test Beam: sPHENIX tests (T1439 and T1441) finished data taking. T1429 also finished. T1044 (sPHENIX calorimetry tests) continues.
- EDIT school a success with 50 students from around the World.

- Custom Detector Technologies: Progress with thin films for protoDUNE R&D.

ND:

- DUNE: LBNF/DOE IPR this week.
- protoDUNE: Five APA's at CERN. Winding 4th U.S. APA in progress. Installation of first drift complete including beam plug.
- Arapucas: Completed test of WLS coating stability in LAr.
- SBN: DOE hold on welding the doors and rigging the ICARUS cold vessels still in place. Wire winding for the first APA frame is progressing.

TD:

• **MAGNETS**

- (i) HL- LHC, AUP – Coil fabrication for LHC inner triplet quads continues.
- (ii) LCLS II – test and qualification of the quadrupoles continues.
- (iii) Mu2e – First Transport Solenoid production module in-house.
- (iv) G-2: Baking the spare MSE core is planned for this week.
- (v) MDP 15-17 T dipole R&D - Work on the mechanical model resumed.
- (vi) Accelerator Support - Nova M1 dipole thermal tests performed, started integral field measurements. Measured FMI quadrupole 7346.

• **SRF**

- (i) R&D: Nb3Sn continues cavity preparation and coating. One cavity had a very nice coating appearance. Initial test showed improved Q-slope, however it was not as good as Cornell's best cavity which had little Q-slope.
- (ii) LCLS-II: New BPM assembly procedure & hardware continues to be successful following thermal cycle. Quality Assurance Audit this week.
- (iii) PIP-II: Spoke cavity work continues.

• **Cryogenic Sector**

- (i) PIP-II, LCLS-II and Mu2e procurements.
- (ii) HL-LHC AUP resource loaded schedule submitted.
- (iii) Meson Controls Project underway.
- (iv) Various sub-kelvin cryogenic activities for SuperCDMS, ADMX, Nexus & Quantum Lab.

Computing Operations:

- CCD: Sunday 3/19. NOvA network connectivity issues. NOvA data saturating last link interfering with monitoring data. Also OmniPop hub saturated with CMS traffic – ESNNet working to reconfigure. Monday 3/20: All 3 NOvA network links down at Far Detector.
- SCD: Poor efficiencies during week. SCD would like to know if collaborations are unable to get work done due to these inefficiencies. Needed to block MicroBooNE production because of unintentional DOS attach on dCache. Was

off hour – working on communication path to the experiments when that happens.

Office of Communication:

- Artist in residence at Fermilab this week.
- Community Advisory Board meeting Thursday.

Directorate:

- Expecting to see what's in Omnibus budget soon.

AOB:

- None