

Lab Status / AEM Meeting Notes

Monday February 12, 2018

<https://indico.fnal.gov/event/16410/>

Incidents:

- None reported.

Accelerator (Jan 22-29):

- NuMI: 1.99E19 POT. Running at ~725kW (w/o switchyard).
- BNB: 1.02E19 POT.
- Muon: 120.9 hours.
- MTest: 0 hours.
- MCenter: 0 hours.
- SY magnet replacement. Ready for operation Friday.
- PIP-II Injector test: 4 week shutdown continues.
- FAST: IOTA installation under way.
- LCLSII Cryomodule F1.3-07 testing complete.
- Schedule: <http://www-ad.fnal.gov/ops/schedule.html>

MicroBooNE:

- POT weighted uptime 97.7%
- Seeing benefits of Laser Notcher ... BNB now at 5Hz with NuMI running.
- MicroBooNE mini-retreat today & tomorrow.

MINERvA (Feb 1-7):

- Uptimes: 98.1% (97.6% with MINOS ND)

NOvA:

- Uptimes: ND/FD = 100%/98.7%

Muon g-2:

- Commissioning continues.
- Kicker & Quads. Increased HV from 55kV to 60kV for 25% increase in muon storage.
- This week will focus on cryo pump controls, clock blinding, plunge probe and trolley fixes.
- Planning to switch to production late Feb.

PPD:

- CMS: HL-LHC Upgrade: (i) HGCal. Cold testing with endcap calorimeter cassette mockup (ii) Management. Working on finishing documentation / project planning for the pre-CD-1 Director's review April 4-6.
- MU2e: (i) GA PS/DS model coil shell needed extra end flanges installed to maintain its shape for coil insertion (ii) GA continues to work on the faux-

DS8 long insertion demonstrator. VPI is scheduled to start this week (iii) ASG is scheduled to ship the TS first unit soon. (iv) Tracker. Completed stringing wires for the first pre-production straw tracker panel (v) CRV. Continuing to extrude at Lab 5.

- Astro: (i) SPT. Tomorrow (Feb. 13) is last day of austral summer season at the South Pole, before beginning the 8.5 month long winter season. The collaboration has defined a new 1500 sq. deg. survey area, which will be observed for the next 4-years. (ii) Axions. ADMX data taking for Run 1b is continuing at a scan rate of approximately 4 MHz per day. Communications office working on a press release to coincide with publication of first ADMX-G2 results. (iii) DESI. DOE Status Review held Feb 6-8 went well. (iv) LSST-DESC (Dark Energy Science Collaboration) held its semi-annual collaboration meeting at SLAC. (v) DES. 9 observing ½-nights left in Y5. Good weather this season.
- Test Beam: M3U-1 magnet repairs are ongoing. They expect to finish up work and send us beam by Friday (2/16). T1068, T1044, T1429 are sending equipment and arriving next week to install experiments.
- SiDet: Work for others. Completed mounting 9 sensors and 3 HDI on Plane # 3 for NNNSTec muon scanner prototype

ND:

- protoDUNE. All SP Cathode Plane Assemblies in cryostat. Beam plug has been delivered to CERN. Work on APAs progressing.
- SBN: Contract placed to upgrade crane to 35T.

LBNF:

- No report.

TD:

• **MAGNETS**

- (i) HL- LHC, AUP – Long coil fabrication in progress.
- (ii) LCLS II – test and qualification of the quadrupoles continues.
- (iii) Mu2e – solenoids progressing.
- (iv) G-2: Inner coil winding of the inflector will be finished soon.
- (v) IB1 Infrastructure - VMTF/VTS switchboard upgrade in progress.

• **SRF:**

- (i) Nitrogen infusion studies and Work on Nb3Sn coating and Plasma processing continues.
- (ii) LCLS-II: Cavity production progressing.
- (iii) PIP-II: Spoke cavity work continues.

Cryogenic Sector:

- (i) Cryogenic module test facility: PIP-II spoke cavity & LCLS-II work in progress.
- (ii) Engineering: PIP-II, LCLS-II and Mu2e procurements. HL-LHC AUP reviewing cryogenic designs.

Computing Operations:

- CCD: Monday 2/5. MFA environment not accessible- clients had old version of Citrix on desktops. Friday 2/9. Weather related network & phone issues in village. ESHQ web pages down due to bug in RedHat package.
- SCD: Continued work with experiments to address inefficiencies by improving workflows.

Office of Communication:

- Series of All-Hands meetings coming.
- PechaKucha night Thursday evening, Ramsey Auditorium.

Directorate:

- No report.

AOB:

- None