

Lab Status / AEM Meeting Notes

Monday February 26, 2018

<https://indico.fnal.gov/event/16544/>

Incidents:

- None reported.

Accelerator (Feb 19-26):

- NuMI: 1.80E19 POT. Running at >700kW (w/o switchyard).
- BNB: 1.02E19 POT.
- Muon: 13 hours.
- MTest: 86.1 hours.
- MCenter: 0 hours.
- Power glitch Sunday morning.
- Booster & MI tuning continues. Muon Campus: tuning & studies whilst g-2 fixing quad issues.
- PIP-II Injector test: starting up. Ran RFQ at full power for first time.
- FAST: IOTA installation under way.
- LCLSII Cryomodule F1.3-09 being installed for testing.
- Schedule: <http://www-ad.fnal.gov/ops/schedule.html>

MicroBooNE:

- POT weighted uptime 93.5%
- Power glitch resulted in temporarily losing TPC HV & CRV ... TPC recovered in 2-3 hours.

MINERvA (Feb 8-21):

- Uptimes: 94% (93.5% with MINOS ND).
- After power glitch, MINERvA came back quickly, MINOS ND took a little longer.

NOvA:

- Uptimes: ND/FD = 99.7%/98.3%

Muon g-2:

- Commissioning continues.
- Recovering from quad system failure last week. Broken standoffs replaced and inner plate straightened and reinstalled. Expect to reestablish beam Wednesday and quad HV final checkout Thursday before retuning to nominal beam conditions.
- Have identified low efficiency production computing issues ... to do with multi-threading. Investigating code fixes.

PPD:

- CMS: FPIX detectors reinstalled. Global cosmic run starts March 5.
- MU2e: Preparing first pre-production straw tracker panel. Extruded 1.2km of CRV scintillator.
- DES. Year 5 observing season ended. Record image quality on last two nights.
- EDIT school starts March 5.
- Test Beam: T1044, T1068, T1441, T1429 installed last week, started taking data.

ND:

- 35T ProtoDUNE-SP HV run III done & cryostat being emptied..
- protoDUNE. Winding of the 4th US APA is in process at University of Wisconsin, winding of the second wire plane (v-plane) in progress.
- Arapucas: A new cleaning protocol adopted.
- SBN: Aluminum extrusions for the ICARUS cold shields delayed in transit ... now expect to arrive end March.
- SBND: Collab meeting last week. Prototype TPC front-end mother board with commercial ADCs had initial test – performance good.

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 nearly completed.
- (iv) G-2: Inner coil winding of the inflector complete.
- (v) MDP 15-17 T dipole R&D - Coil fabrication for 15 T dipole continues.

• SRF:

- (i) R&D: Nitrogen infusion studies and Work on Nb3Sn coating and Plasma processing continues. Quantum computing cavity EP done.
- (ii) LCLS-II: Cavity production progressing. Problem found with BPM studs and nuts ... will need to be replaced insitu on CMs.
- (iii) PIP-II: Spoke cavity work continues.

Cryogenic Sector:

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

Computing Operations:

- CCD: Good week.
- SCD: Continued work with experiments to address inefficiencies by improving workflows.

Office of Communication:

- Nothing special.

Directorate:

- No report.

AOB:

- None