

Lab Status / AEM Meeting Notes

Monday April 9, 2018

<https://indico.fnal.gov/event/16844/>

Incidents:

- PPD: Fire Dept called to Sci Det ... but it turned out to be OK.

Accelerator (April 2 - 9):

- NuMI: 1.79E19 POT. Running at >720kW (w/o switchyard).
- BNB: 1.00E19 POT.
- Muon: 1.88E18 POT.
- MTest: 124.7 hours.
- MCenter: 0 hours.
- Booster & MI tuning continues.
- Muon g-2; Li Lens failure on Friday. Replacement in progress.
- PIP-II Injector test: starting up. Up to 5mA, 1.2ms 120Hz.
- FAST: IOTA installation under way.
- LCLSII Cryomodule F1.3-09 testing completed.
- Schedule: <http://www-ad.fnal.gov/ops/schedule.html>

MicroBooNE:

- POT weighted uptime 97%

MINERvA (March 29- April 4):

- Uptimes: 97.7% (94.8% with MINOS ND).

NOvA:

- Uptimes: ND/FD = 100%/94.1%

Muon g-2:

- Li Lens being repaired. Expect to reestablish data taking Tuesday.
- Uptime: 89%

PPD:

- CMS: Directors review for CD-1 last week generally favorable.
- Mu2e Solenoids: PS/DS: General Atomics completed presented updated schedule for coil clod test, DS1 winding & faux-DS8 long insertion test. Progress on TS continues.
- Mu2e Detector: Progress continues on CRV and Calorimeter.
- Astro: (i) First ADMX-G2 results published in PRL. (ii) LSST-DESI: preparing to ramp up data challenge 2. (iii) DESI: Installation of new parts begun on Mayall telescope at Kitt.

- Test Beam: CMS Timing (T1409) continues data taking. ATLAS Pixels (T1224) will take data during breaks with CMS timing. Preparing for NOvA at MC7.

ND:

- DUNE: The 4th US Anode Plane Assembly, 6th and final for ProtoDUNE, arrived at CERN
- Photon Detectors and Cold Electronics boxes have been integrated onto ProtoDUNE APA5. End wall #3 is being assembled & tested before it is moved into the cryostat.
- SBN: DOE hold on welding the doors and rigging the ICARUS cold vessels still in place. Assembly procedures are being completed for the ICARUS cold shields. The first assembly steps will start this week.

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 – Warm tests of first TS production module proceeding.
- (iv) G-2: outer winding for new inflector in progress.
- (v) MDP 15-17 T dipole R&D - Coil fabrication for 15 T dipole continues.
- (vi) Accelerator Support – Both coils for spare MLAW magnet potted.

- **SRF**

- (i) R&D: Quantum Computing measurement. High Q studies and Plasma processing continues. The 5GHz EP cavity achieved 25MV/m with good Q0.
- (ii) LCLS-II: New BPM procedure approved & being implemented. Progress with CM02-CM13.
- (iii) PIP-II: Spoke cavity work continues.

- **Cryogenic Sector**

- (i) PIP-II, LCLS-II and Mu2e procurements.
- (ii) HL-LHC AUP: working on stand 4 upgrade tasks.
- (iii) Various sub-kelvin cryogenic activities for SuperCDMS, ADMX, Nexus & Quantum Lab.
- (iv) CMTF Cryo plant heat exchanger failure update: New heat exchanger will take 4-6 months. Short-term solution likely to be to cut out heat exchanger.

Computing Operations:

- CCD: Sunday 4/8. Extended outage of payroll system due to expired password.
- SCD: Sunday 4/8. Computing security scans shut down dcache for 5 hours.

Office of Communication:

- Nothing to report.

Directorate:

- No report.

AOB:

- None