

Lab Status / AEM Meeting Notes

Monday April 10, 2017

<https://indico.fnal.gov/conferenceDisplay.py?confId=14199>

Incidents:

- None reported.

Accelerator Operations:

- LINAC, Booster, MI & Recycler running well.
- NuMI: 1.67E19 POT.
- BNB: 1.02E19 POT.
- SY120: Septa repaired. 126 hours of beam to SeaQuest, 66 hours to MTest, 107 hours to MCenter for LArIAT.
- Future schedule can be found: <http://www-ad.fnal.gov/ops/schedule.html>
- PIP-II Injector test: Beam studies ongoing.
- FAST: 300 MeV beamline construction continues.
- LCLSII: Cryo module schedule to be delivered Tuesday.
- Domestic water outage will affect many buildings on April 15.

MicroBooNE:

- Good week. Stable running. 98% uptime.

MINERvA: (March 30 – April 5)

- Good week. 97.8% uptime (95.8% with MINOS ND).

NOvA:

- Running smoothly. 99.2% FD uptime.

SeaQuest:

- Good week. Duty factor seen to improve a bit. 93% good proton utilization.

g-2:

- Muon Campus approved to run beam.
- Progress on many fronts.
- Preparations for mock run in May and real run in June.

CMS Monthly Report:

- Expect 49 fb⁻¹ to be delivered in 2017 (vs. 41 fb⁻¹ in 2016) .
- CMS Status: 2017 installations complete. All systems go. Major efforts from Fermilab on forward pixels, HF and HE.
- Cosmic runs for commissioning in progress.

PPD:

- Muon g-2: See above.
- CMS: See above.

- Last week hosted LSST / Dark Energy Science Collaboration “Hack Week.”

ND:

- DUNE: Annual report to CERN SPSC last week.
- protoDUNE: ProtoDUNE-SP TDR has been released for review, with a due date of April 14.
- LArIAT taking data.
- SBN: CERN-DOE neutrino protocol addendum in final stages of review for concurrence by OMB and the State Department. CERN has requested final signing simultaneous with the two addenda concerning LHC accelerator and detector work.

LBNF:

- Working towards first major contract for far site construction.

TD:

- R&D: towards higher accelerating gradient, higher Q, exploration of different frequencies
- LCLS-II: 4 cavities vertical tested, 5 cryomodules at different stages of production
- PIP-II: 650 MHz cavity was assembled, spoke cavity BCP processed, 650 MHz cavity vertical tested, spoke cavity horizontal tested (needs re-process).
- Completed initial phase of Cryogenic Expertize consolidation
- CMTF is getting ready for the LCLS-II CM2 testing
- NML is being prepared for cooldown
- LCLS CDS – initiated Surface Transferline contract
- PIP-II – preparing for the PMAC
- LCLS II : SPQA104 split-quad will be shipped Tuesday, SPQA105 in prep. for magnetic measurements. New top plate assembly in progress to double testing capabilities for LCLS II quads.
- LARP : 3 major coil fabrication phases in progress; winding (QXFA05), reaction (QXFA04), and impregnation (QXFA01). MQXFS1c test prep. in progress, test is expected at late April, starting disassembly of the feed box for long quadrupole testing stand. LARP Collaboration meeting on Apr. 24-2
- Accelerator Support: Coil winding completed for the Muon g-2 EDWA magnet. RKE kicker assembly started for LBNF. Assembly of refurbished MI IQB quadrupole in progress
- Mu2e: Making steady progress on the TS coil module test facility. All major components are in place. TS coil module prototype will be re-tested to commission the system. TS prototype magnet mounted, leads spliced to Dished Head A; finishing electrical check. Plan/hope to move into vacuum vessel next week. Completed instrumentation master list, working on point-to-point documentation.
- g-2: started preparation of winding table and tooling in IB2 for Inflector winding; finished fabrication of the NbTi SC shield material in Japan.

- 15T dipole R&D - Coil fabrication: winding of the layers 3 and 4 from the first coil is progress

Computing Operations:

- CCD: Engineering licenses – users (PPD, AD, TD) do not seem to be making enough use of off-site cycles. 13.8 hours lost last week waiting for licenses.
- SCD: CMS operations - monitoring degradation when probes were moved to a new machine and higher level applications not notified.

Office of Communication:

- Beginning preparations for ICARUS arrival.

Directorate:

- No report.