

Lab Status / AEM Meeting Notes

Monday February 20, 2017

<https://indico.fnal.gov/conferenceDisplay.py?confId=13882>

Incidents:

- None reported.

Accelerator Operations:

- LINAC, Booster, MI & Recycler running well.
- NuMI: 1.64E19 POT, 625-650 kW with SY. Horn polarity switched today.
- BNB: 5.72E18 POT.
- SY120: 4.0 E16 POT, 68 hours to MTest, 68 hours to MCenter.
- Future schedule can be found: <http://www-ad.fnal.gov/ops/schedule.html>
- PIP-II Injector test: Fourth week of Shut down to install 30deg bend in LEBT.
- FAST: Shutdown for 300 MeV upgrade continues. Work progressing
- LCLSII prototype cryo module. Demonstrated nominal pCM voltage with all 8 cavities in GDR mode. Turn-off & warm up starts today.
- Feeder 47 (Ind. Bldg complex, FCC1, GCC) now on Master Substation.

MicroBooNE:

- 86.5% uptime, but with HV issues data is not for physics. Increase noise activity in drift HV power supply continues to be investigated. Trying to find voltage configuration that enables stable data taking. Several recent long periods when detector stable, but instability returned yesterday. Still investigating.

MINERvA: (Feb 9-15)

- 97.4% uptime (96.8% with MINOS ND).

NOvA:

- Running smoothly. 99.2% FD uptime. Happy that horn polarity was reversed today.

SeaQuest:

- Taking data with solid targets. 98% utilization of un-vetoed protons. Water chiller problem prevented filling cryogenic targets ... fill hopefully tomorrow.

Special Report: Upgrade of CMS pixel detector

- Deployment now motivated by excellent LHC luminosities resulting in detector downtime.
- Fermilab responsible for upgrade of forward pixel detector, which has an extra (3rd) layer.

- Pieces tested and assembled in SiDet, now shipped to CERN and all 4 half-cylinders tested at CERN. Installation in ~2 weeks. Expecting beam for physics in June.

PPD Operations:

- With assistance from SCD, DES is setting up a remote observing station in ROC-West to save on travel to Chile.
- Team is back from the South Pole having successfully deployed the SPT3G CMB experiment
- Paper by Lederman fellow YuanYuan Zhang was picked up as a featured paper by AAS
- CMS was able to run the installed HEP17 upgraded hadron calorimeter readout box with cosmics and find signals in the right time slot. All other installation is on or ahead of schedule
- Muon g-2
 - Magnet cool-down to start this week
 - Cornell colleagues in town again this week for another concentrated effort to push the kicker schedule ahead. The goal is to be pulsing a dummy load by the end of the week.
 - Will start closing up the storage ring vacuum (muon volume) to begin leak checking.
 - General installation work for all of the remaining subsystems will continue this week
- Mu2e continues to monitor the schedule for the PS and DS solenoids as General Atomics and their subcontractor modify the winding machine to wind the PS conductor.

ND Operations:

- MicroBooNE: Cosmic Ray Tagger top panel installation should start next week.
- Racks & electronics being installed in shielded room at DAB (for protoDUNE & SBND electronics).
- protoDUNE work continuing. DOE independent project review next week.
- SBN: Awaiting user agreement with CERN. Installation readiness review for warm vessel this week.

TD Operations:

- Resumed cryo plant operations. Initial indications are that the liquefaction rate is good. More detailed measurements are planned this week.
- The new compressor and purifier system has successfully completed acceptance testing. Documentation is in place to request a full ORC.
- Moving ILC cryomodule to storage to make room in ICB for the LCLS-II production effort ramping up.
- All the usual balls are still in the air. LCLS-II, LARP, g-2, Mu2e, PIP-II, accelerator operations, magnet and SRF R&D, multiple partnerships.

Computing Operations:

- CCD: Thurs 2/16: Missing files during DocDB upgrade. Files restored. Also unexpected 15min outage for onsite DNS due to all servers rebooting together.
- SCD: 2/16: VMS pix in tape library. 2/17: jobsub error affected NOvA. 2/18: fifemon elasticsearch outage. Note ... on 3/31/ GPCF/scratch disk going away.

Office of Communication:

- Registration open for June 7th anniversary celebration.
- Tuesday 10am there will be an annual test of the emergency alert system.
- PechaKucha night on Thursday was a success ... lots of people.

Directorate:

- No report.