

Lab Status / AEM Meeting Notes

Monday January 23, 2017

<https://indico.fnal.gov/conferenceDisplay.py?confId=13658>

Incidents:

- ESH&Q: contractor slipped on ice and hit his head on the ground. Investigation pending.
- PPD: week before last, knife slipped while cutting cable tie resulting in 5 stiches in hand. DART case.
- FESS: tree work incident resulting in first aid.

Accelerator Operations:

- LINAC, Booster, MI & Recycler running well.
- NuMI at ~630 kW with SY120, 690kW w/o SY. Beam to SY when requested.
- Delivered $1.17E19$ POT to NuMI for Jan 9-16, $1.48E19$ for Jan 16-23.
- Delivered $8.39E18$ POT to BNB for Jan 9-16, $7.01E18$ for Jan 16-23.
- SY120 septa repaired. 41.2 hours of beam to SeaQuest, at their request for Jan 9-16, 77.8 hours for Jan 16-23.
- 21.9 hours of beam to MTest for Jan 9-16, 25.2 hours for Jan 16-23.
- Future schedule can be found: <http://www-ad.fnal.gov/ops/schedule.html>
- MI-12 Communication Duct. Hope to move to new cable in March ... will coordinate with Master SubStation outages.
- PIP-II Injector test: emittance measurements look good. Shutdown to install 30deg bend in LEBT.
- FAST: Shutdown for 300 MeV upgrade continues. Magnet stands installed and aligned. Magnet supports being added.
- LCLSII prototype cryo module: Slow cooldown in progress.
- ICW Reduction to establish new Casey's Pond water strainer vault completed successfully. Everyone impacted thanked.

MicroBooNE:

- 96.5% uptime.

MINERvA: (Jan 5-18)

- 98% uptime (MINOS ND livetime to be calculated). Config file bug caused MINERvA DAQ to use wrong timing. Can recover – no lost data. Measure taken to prevent this in the future.

NOvA:

- Running smoothly. 99% FD uptime.

SeaQuest:

- Taking data with solid targets. LH2 target empty due to mislabeled empty H2 bottle. Lost LD2 target fill Saturday night. Waiting for H2 & D2 gas.
- Main beam counter (G2SEM) broken, replacement in place.

PPD Operations:

- g-2. There is now a plan to fix vac. issue involving surgery on the cryostat to remove unwanted charcoal. Will start this week and take ~4 weeks. Should not impact overall schedule.
- LZ received CD-3.

ND Operations:

- SBN: All 3 collaborations had meetings last week.
- DUNE Collab meeting at CERN this week.
- pDUNE SP risk workshop Feb. 3rd.

TD Operations:

- The LCLS-II split quadrupole that was dropped before Christmas has been tested cold and is still good. It was to be shipped to J-Lab today. The HPI report is almost complete.
- The IB1 cryo plant efficiency has dropped dramatically in a way that is characteristic of frozen water contamination migrating to the cold box. There are a couple of urgent LCLS-II cavity tests that need to be done, so limping along this week. Will start warming up to 300 K next weekend. That's a two-week cycle before everything is cold again. During that period, big push to commission in-line gas purification system ... should reduce future vulnerability to the problem. The first production split quad for LCLS-II is next in line for urgent testing.
- LCLS-II cavity vendor issues continue.
- LCLS-II CM2 assembly continues, but microphonics problems in the prototype cryomodules have raised fears that the design may need to be modified, adding uncertainty to the schedule.
- Installation of the cryogenic distribution system for the Mu2e transport solenoid (TS) module test equipment at HAB is complete.
- The Mu2e splice test magnet is being installed in the Vertical Magnet Test Facility (VMTF).

Computing Operations:

- CCD: Thurs 1/19: MC-1 network outage when UPS exhausted during extended power outage.
- Note KCA service will turn off Tuesday 1/31.
- ReadyTalk will be replaced by Zoom on Feb. 1st. RT users will automatically get Zoom accounts. Training available. Also online instructions.
- SCD: Good week. 1/18: MicroBooNE slow controls database node disk failure.

Office of Communication:

- Fermilabs Greatest hits lecture by Chris Quigg this Friday is fully booked.

Directorate:

- Nigel is at the DUNE related meetings at CERN this week.