Present: Nena, Liz, Bruno, Shane, Bruce, Katy, Matt, Clay, Ashley, Steve

**EFOG Presence onsite: 7/26-8/1**

Mon-Fri FC1: Steve FC2:Wendy

Evenings: Katy

Weekend: Bruno (Sat); Shane (Sun)

Vacation/DORs:

John 7/26

Bruno 7/27, 7/29, 7/30

Shane 7/29,7/30

**Events from last week**

* Gas injection study 7/19
* 28-ID continuation of station mitigation completed. Optics commissioning over the weekend (ESAF ID#240812)
* Temperature instability issues at 11BM-B resolved by FAC. Station is steady at 22C, ~one-half a degree C lower than optimal, but BL staff approves. FAC does not know why setting another one-half degree higher produces such wild swings in temperature.
* 15:25 7/19 - Received multiple flow faults for 34-ID, 35-ID and 35-BM. After an investigation on EPICS, the MCR logs, and calls with the MCR it was determined that the cause for the faults was due to a water leak at sector 35. The leak took 25 min to fix and was caused by a faulty gasket to supply water fitting on S35A:Q4.

**Ongoing beamline issues/work on experimental floor**

* AES-MOM water to install new drop valves off main water header in 12-IDA on 7/26 and completed

**Work on experimental floor/LOMs**

* AC being added to 7-IDC hutch
* Robot at 7-ID-C tie into interlock safety system
* 6-ID-C sprinkler system: Alex Smith from FD to put a plan through Patti’s committee

**Things to look out for this week:**

* **Portable Oxygen monitors:** 5ID-A and 20ID-A Please check for normal O2 levels (20.9%) and battery level ~ 3 times per week for on-shift personnel and please report to Bruno if there is a problem.
* **Portable Ozone Monitor:** at 33-IDE to double check the wall mounted unit if it trips
* **Portable CO Monitor**: At 10-IDB
* **Eyewashes/LSI. Eyewashes** are due weekly and LSI are due at the end of the month.
* **Evening Shift reminder to send FC to MCR turnover email**
* **Prox Badges:** Staff and users must activate their prox badges by contacting the User Office (for users) or Ed Russel. The visitor office does not activate prox badges upon issuance. Contacted C.Vanni on the increase issuing of prox badges. She will discuss with VRC to make sure if during the day that the users contact the User Office to activate prox badges.

**28-ID IDEA Status**

* All door shielding checks have been completed, supplemental shielding has been installed (glued down and covered with temporary plastic). Covers for the lead are being made by Central Shops and expected to be completed within the week. Once covers are installed, type C surveys will be completed at all 3 doors at mitigated locations, RSS tags applied and CCCL updated with final supplemental shielding locations. One last check of the doors will occur on 8/2
* 28ID-A cryo-deck installation by Scheck underway when parts are available and beamline is not taking beam. No welding on 28ID-A roof will be done.

**25-ID ASL Status**

* Electrical contractor (Mead) onsite starting hutch utility installation
* Magnetic signs for the hutch doors are on order
* 25ID-A shielding verification tentatively scheduled for October 2021 (need electric, water/air and PSS installed first).
* 25 has marked out a space on the end of the E hutch that is the outline of a future laser control room moving from Sector 11. This will necessitate a shift of the egress aisle which has been approved. 25-ID laser control room scheduled to be done by the end of 2021

**LBB Updates**

* **Activities This Week:** Exterior vapor barrier work, metal sheeting, window installation. Mod C pad poured. Tank delivery TBD.
* **Items to Keep an Eye on:**  none
* **Looking Ahead:** Shutdown work-Mod C installation and pipe work. During pipe install, LNDS to 18-27 will be down (est. 7-8 days) starting 8/13. Interior Lab demo: Relocating Johnson control panel and rerouting utilities in chase at 436A 030. Possible other minor electrical work in 436A030. Parklot installation will start during mini shutdown.
* **Scheduling:** Typically contractors work from 7:00 a.m. - 3:30 p.m. LBB updates can be found at <https://www.aps.anl.gov/Machine-Status/Construction-Schedule/long-beamline-building-construction-schedule>

**437 lab build out**

* Power Construction awarded the contract
* Clay will work with ANL and contractor and be the POC for our group
* Procurement has issued Letter to Proceed. Contractor will begin site mobilization on Monday, 8/2, appx 1 week ahead of schedule.
* Contractor will use the 437 conference room as site office
* Work hours will be as per LBB – 0700 to 1530
* Scope of work (and financing) limited to a full build-out of the South labs (A and B pentagons) and rough shell of the North labs (D and E pentagons)
* Dean Haeffner and Robert Winarski to remove remaining items in 437 prior to contractor arrival. Shane may be called upon by Ed Russell to assist.
* Feb/Mar 2022 completion expected.
* Next meeting this Friday, 7/30. Schedule expected

**OPS/XSD GL/PSC Managers/Leader Meeting**:

Operations:

* Safety: no injuries last week. Filing ORPS to violation of LOTO in Bldg 382. Didn’t perform zero voltage verification.
* There was two faults in the past 7 days:-1.4 hrs and 30mins. RF trips. There were no beamline downtimes reported in the past 7 days. Two injector downtimes: 2hrs and 1.3hrs.
* John Chrzas will take over as PAC chair.
* SolarWinds Orion Malware Incident: Hardware rebuild expected to be completed this week as part of Phase 0 restoration of SolarWinds.
* Long Beamline Building (LBB): Capitalizing on power shutdowns to tie in electric and will look out in schedule for additional anticipated power shut downs related to LBB construction. During upcoming shutdown, some preliminary compacting will take place for the first layer of the parking lot and the driveway may be poured. Concrete pad for LN2 was poured on Friday.
* Power Shutdown for APS-U Super Door Concrete Upgrades: The 13.2 kV power will have to be shut down in 2 separate instances during the Aug/Sept shutdown period for demo/excavation work to upgrade the loading capability at the Super Doors for future APS-U module movement. Power shutdowns will be in two phases: Aug 5 will be first shutdown for work at Super Doors C and D; followed by power shutdown on Aug 10 for Super Door E. Contact J. Connolly, G. Pile, C. White, G. Markovich, G. Doktorczyk or D. Kazenko for more information since impacts are large to the Storage Ring and Experiment Hall.
* Liquid Nitrogen Distribution System (LNDS) Shutdown: LNDS shutdown is being planned to continue work for future tie-in for Module C replacement and valve replacement for isolation of B & C leaks. Dates adjusted to occur after the concrete power shutdown above and will occur on Aug 13-19. Start on Friday Aug 13 at 8am. Sector 21&24 will have dewars that MOM group will fill up each day and deposit in that area.
* LOM 437 lab space build out construction expected to start the week of August 2

**APS Shutdown Planning**:

**Key links in BOX for information concerning Shutdown for FCs**

[**QEW Walkthroughs**](https://anl.box.com/s/4qnjosgrkgketaa9zd8vyrh1y53s7r1w)

[**2021-2 Supplemental Time Shutdown CCWP and Start-Up**](https://anl.box.com/s/xw3g1xwlcuzl7hvulip3xdijqiu9qz9i)

[**2021-3 Commissioning ESAFs**](https://anl.box.com/s/8yxtxyzqo7fc9oacf541wfsqcsriuicv)

[**FC Post Run Checklist 2021**](https://anl.box.com/s/k5qqvvjxu8kf34yp9cj68p0uyb48szfl)

[**FC Pre Run Checklist 2021**](https://anl.box.com/s/vkgzjf77gpdmyfklcbmhrd47ja2zcm7k)

* Tunnels open Aug 4, close Aug 31
* Deferred: New gate valve and ion pump for 6ID BLEPS
* New gate valve and ion pump to be installed in 9BM BLEPS
* FEEPS upgrades scheduled for ID lines in sectors 16, 17, 18, 19, 20, and 21
* PSS validations planned for 4ID, 7BM, 12BM/ID, 17BM/ID, 19BM/ID, 21ID, 24ID, 30ID, 33BM/ID. SI will add those FCs who volunteered to assist to the schedule. Look for release.
* Focusing mirror installation at 9BM. Will begin after the tunnels close, with work proceeding through all of Sep. Mike Fisher is the supervising engineer.
* Improvements will be made to the 400 roadway, in concert with upgrades to the concrete pads outside superdoors D, E, and possibly C. These doors will be inaccessible after the end of July and through much of August. A power shutdown, similar to the recent Big Power Event, will be required, affecting sectors 12-35. See below for more info.
* A planned LNDS Module C shutdown will affect sectors 18-27, and involves a complete shutdown of the LN2 header. Proposed schedule is to start Aug 12th with LOTO, work on the system Aug 16-18, and leave Aug 19 for contingency. LN2 dewars will be delivered to 21 and 24 by MOM during this time.
* Network switches will be replaced in sectors 17, 29, and 33. Given the disruption this recently caused in sector 11, affected FCs are advised to coordinate this with Brian Pruitt and affected BL staff. Schedule TBA

**Power Shutdown**

1. 8/5/21 0430 hrs, conventional power switchgear X-4, X-5, and X-6 will be taken down. This affects **beamline sectors 12-23 and LOMs 434, 435, and 436**. conventional power in these areas will be down and all essential equipment must be transferred to emergency power circuits beforehand.

* If work is complete at superdoors C and D by 1600 on August 6th then power will be restored that day, as soon as possible after lifting LOTO on the 13.2kV lines. If completed after 1600, power will be restored the following morning, Aug 7th, at 0800.

1. 8/10/21 0430 hrs, conventional power switchgear X-7, X-8, and X-9 will be taken down. This affects **beamline sectors 24-35 and LOMs 437 and 438.**

* If work is complete at superdoor E by 1600 on August 11th then power will be restored that day, as soon as possible after lifting LOTO on the 13.2kV lines. If completed after 1600, power will be restored the following morning, Aug 12th, at 0800.
* Cord drops have begun at sector 35, working upstream. For now they are not live, but merely in place. Cords will go live on July 26th, and all cord drops will be in place by July 30th. Areas affected by the first shutdown should have all equipment on emergency power no later than COB Aug 4th. Areas affected by the 2nd shutdown should have all equipment on emergency power no later than COB Aug 9th.
* Other things to look out for:
  + ODH monitors are not on emergency power
  + Beamlines should inspected of LND valve and actuators
  + LN2 Dewar fill stations not on emergency power.
  + Turn off and cap gas bottles in gas cabinets
  + No fume hood work permitted during shutdown
  + Empty food from break room refrigerators
  + Power down personal computers and other electronics not critical
  + All non critical automatic starting/restarting equipment should be disabled

**Experiments of Note**

* Limited Operations + with approved ANL onsite users from divisions outside of PSC and some onsite external users with PSC ALD and DOE ASO approval.
* All risk level work allowed except for Radioactive, Explosive, and BSL2 samples unless the experiment is deemed mission critical or funding dependent, etc. Most experiments are mail-in or remote.
* No plans for change in operation status until after 2021-2 run.

ESAFs with onsite users from ANL divisions outside of PSC have been approved by DOE ASO. ESAFs with external (outside of ANL) onsite users have been approved by both PSC ALD and DOE ASO.

**Experiments Running 07/26/2021 – 08/03/2021**

**Special Experiments:**

* ESAF 243407 at 16-ID-B. Jae Klepeis and Hyunchae Cynn from LLNL onsite at APS. Start 7/27/2021. End 7/28/2021. **Radioactive Samples**
* ESAF 241187 at 13-ID-C. GSECARS staff onsite with LANL users participating remotely. Start 7/27/2021. End 7/29/2021. **Radioactive Samples**
* ESAF 243335 at 16-BM-D. Bruce Baer, Hyunchae Cynn, and Jae Klepeis from LLNL onsite at APS. Start 7/27/2021. End 8/1/2021. **Radioactive Samples**
* ESAF 244277 at 16-BM-D. HP-CAT staff onsite running samples for LLNL user. Start 8/2/2021. End 8/3/2021. **Radioactive Samples**
* Possible HE experiment at Sector 32. Users from Purdue 7/26/2021 to 8/2/2021.

**Long Duration Lab or No X-Ray ESAFs:**

* ESAF 239935 at Sector 7. Chris Otolski and Gilles Doumy from CSE onsite at APS. Start 5/4/2021. End 8/3/2021.
* ESAF 241851 at Sector 33. Hui Cao and Xi Yan from MSD onsite at APS. Start 6/7/2021. End 9/30/2021.

**Long Term Work Status - APS Upgrade and other APS projects: See EFOG Turnover notes from previous week for more information.**

**Round Table Discussion**

Nena

* **See EFOG Turnover notes (below) for further details on Ops, LBB, Shutdown work, general info, etc.**
* **Increasing EFOG presence on site:** if you are not on shift for the week please be on site at least **3** days a week.
* A folder has been created in EFOG Shared in Box entitled [Floor Coordinator Responsibilities and Information.](https://anl.app.box.com/folder/131729137561)
  + [FC ON Shift Responsibilities](https://anl.app.box.com/file/770704936353?s=qtmlutaaipmcs1v5zuth4f99x8qgrng8)
  + [FC Shift Exchange Template for MCR](https://anl.app.box.com/file/770699580232)
  + [Floor Coordinator Responsibilities for Three-Year Sector Safety Reviews](https://anl.app.box.com/file/776611770090)
  + [Troubling Shooting FC1/FC2 Paging System](https://anl.app.box.com/file/792938639787)
* EFO Group Training- Please take all expired training courses by the end of June
* EFO Group Procedures- Please complete all procedures that Kelly Jaje sent by the end of June. If you would like to be taken off a procedure please let me know and I will reassign.
* **Performance Appraisals will start Sept 1.**
* Interim GL for Survey and Alignment is Keith Knight. Route procedures to him but CCWPs should still go to responsible engineer/ Rolando

Shane

* Tim’s laptop has shipped
* HE material shipped offsite (from Baker at LANL)
* Possible HE experiment at 32-IDB later this week

Ashley

* 28-ID one last check of the doors next Monday, 7/26 around 9am
* Created shutdown spreadsheet in Box. See links above

Clay

* See power shutdown section. New items in Blue
* Peter Eng has an issue with e-power run to his cryo cooler on top of C station- John M. to touch base with Peter
* Temp Stability problem in 11-BM-B; tried to correct the temperature and the temp began to be erratic but reset temp to 22.5C and the issue corrected itself

Katy

* Nothing further to add: Katy on evening shift and Ashley will be her backup for issues.

Liz

* Reminder do not remove commissioning ESAFs when we enter machine studies on August 3rd; commissioning ESAFs to be left posted until 9/30/2021

Steve

* FYI for Nena: Thomas Gog would like to keep 437 C001 as a lab. Nena will touch base with Jonathan Lang
* CCWP at 12-ID work is completed; will touch base with Katy at shift change

Bruce

* Yu finished another part of email group 5
* SEM at GSECARS when into production
* Will update rad sample file during the shutdown

Bruno

* Nothing further to add

Matt

* Last week went well on evenings
* Finishing up e-power outlets at Sector 18; LOTO’d 2 panels; back on line now