



NuMI Shutdown Summary - Week 16

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Things Completed Underground

Pre-Target • Target Hall • Decay Pipe Walkway • Absorber Hall

- Horn-1 module rebuild going well. Should be complete by end of next week.
 - Upstream lower assembly installed.
 - Upstream shaft and upper assembly will be installed today & module moved to hot cell.
- Q115 manifold leak was brazed on Wednesday; MI62 LCW system re-start in a couple weeks - thanks to MSD & TD.
- FESS Infrastructure tour of NuMI facility completed on Wednesday - in a nutshell things look good; report expected by Oct. 21.
- Clorica cleaned the Pre-target drains and power washed walls as needed.

Things Happening Outside the Target Hall

MI-8 • MI62 • MI12

- Casks for Horn-1 module components are being delivered to TSB today.
- PH1-05 ready for installation.
- Modification of horn-1 module down stream lower assembly plate. Expected for installation next week.

Shutdown Summary

Things completed so far in NuMI

- Upon returning to work in May/June techs & engineers built and tested procedures for rebuild the horn-1 module. This is part of the 1MW AIP.
- TA1-03 (used target retired 2019) was transferred from the MI65 morgue to long term storage at C0 in early July.
- PH2-02 (horn-2) was removed from service and retired to C0. The removal from service was done in August and the transfer to C0 was two weeks ago.
- About 175 feet of 12-inch HVAC spiral duct was installed inside the Target Hall for cooling of the horn-1 stripline. This is part of the 1MW AIP.
- PH1-03 (horn-1) was removed from service and placed into the MI65 morgue where it will rest for a year or two before being transferred to C0.
- Absorber Intermediate cooling skid had a new heat exchanger installed.
- Various preventative maintenance and tunnel/gutter cleaning has been done.

Remaining Shutdown Jobs

Above & below ground we are on schedule for end of October.

- Complete Horn-1 module renovation (by 9 Oct).
- Once the Horn-1 module is rebuilt we will install PH1-05 into the chase (by 16 Oct.).
- Once PH1-05 is installed:
 - Finish installation of 12-inch HVAC duct work inside the chase (2-3 days).
 - Metrology alignment of Horn-1 & Horn-2 (1-day).
 - Install stripline jumpers for both horns (1-day).
- Once the HVAC installation is complete we'll pull the existing target and rest it inside the hot cell so we can start the run with horn-scans (1-2 days).
- Finish remaining Clorixa cleaning (2 days).