



NuMI - down for horn replacement

NuMI/MINOS Status
All Exp. Mtg.
December 1, 2008
Jim Hylan/FNAL
Page 1

Progress pretty well tracking schedule developed last week;
estimate ready for beam ~ Dec 11.

Main tasks completed so far:

- Extra shielded storage for stripline blocks & extra fixturing
- Pre-removal alignment survey
- Move old horn to work cell

Work being done in parallel:

- Maintenance/repair of target pile dehumidifiers (motors replaced)
- Progress installing tritium-mitigation dehumidification in absorber area



MINOS detector status

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Page 2

FAR DETECTOR:

- No problems. 99.52% uptime taking cosmic rays

NEAR DETECTOR:

- Failure of Wiener power supplies fixed Thanksgiving morning. This has been a recurring problem since the October power outages. Minor maintenance will continue until beam returns.

Other:

- Beam Data machine moved to FCC for better reliability.
- Control room making room for new neutrino experiments (MINERvA * ArgoNueT)



Getting ready for the next replacement

Have now replaced 1 target, 1 horn-1, 1 horn-2, and stripline block for each horn

Target:

- Have 1 completed spare, 2nd spare under construction (ready spring 2009)
- Have space in target hall morgue to store a dead target
- Significant likelihood of wanting to replace target during June 2009 shutdown

Horn-1:

- Have no completed spare; Est. next horn-1 spare ready ~ April/May 2009
- Have no space in morgue for next dead horn;
 need to finish planning and equipment construction (coffin)
 for removal of old horn to long term storage in upgraded CO building
- Have no completed stripline block; spare under construction (ready Jan 2009)

Horn-2

- Have no completed spare; Est. next horn-2 ready ~ Nov/Dec 2009
- Have no space in morgue; (as for Horn-1 above)
- Have no completed stripline block; interchangeable with horn 1 stripline block
 spare under construction, but should start another spare



Backup - the horn stripline failure



New horn strip-line



As seen 11/19/08