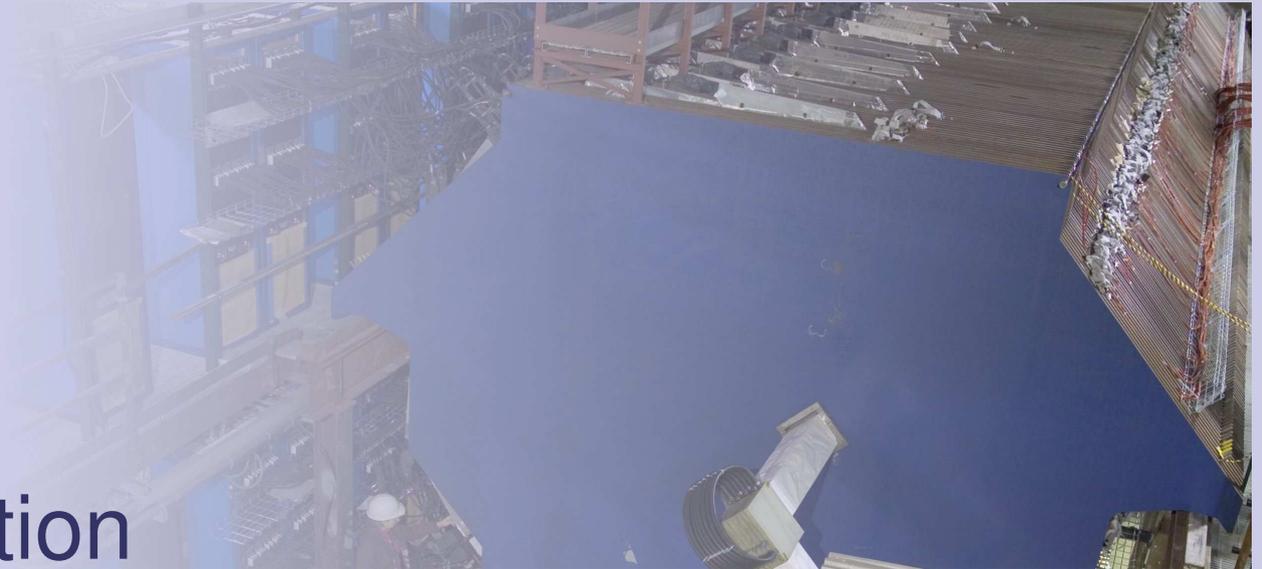
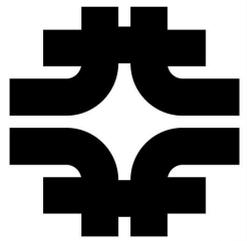


NuMI-MINOS status report

Phil Adamson
Fermilab Accelerator Division

for the
MINOS collaboration

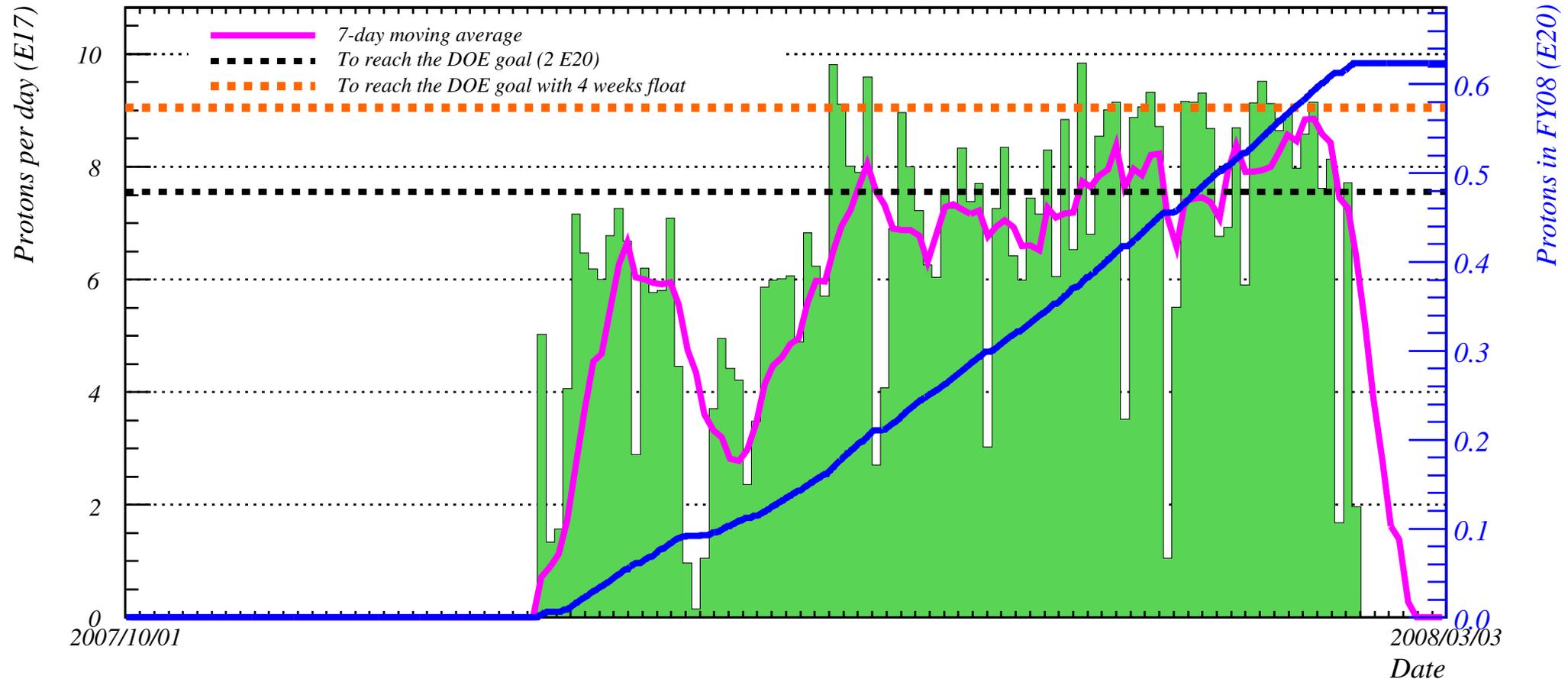




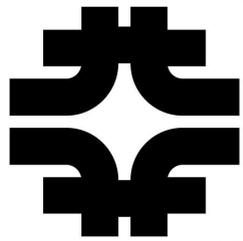
No beam this week

P. Adamson
Accelerator Division
Fermilab

FY08 NuMI protons to 00:00 Monday 03 March 2008



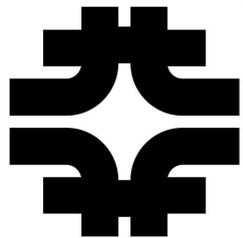
- ▶ Black and orange lines show average needed to reach DOE goal by Labor Day
- ▶ Fermilab “base” and “design” goals are higher



Horn repair

P. Adamson
Accelerator Division
Fermilab

- ▶ Metal pipes for horn cooling water have ceramic breaks
 - ⇒ Horn 2 has a total of 4, Horn 1 has 5 (in water lines)
 - ▶ The current leak is the fourth failure of a ceramic break
 - ▶ New design of ceramic break has much more structural strength
 - ▶ In the current access, we are replacing all three old-style ceramics on horn 2 (one was replaced a year or so ago.)
 - ▶ There are possible signs that one of the other two old-style ceramics is starting to fail
- Job progress:
- ▶ The leaking ceramic (on beam left) was replaced on Friday
 - ⇒ Total dose to repair crew: 69 person mrem (10% lower than estimate)
 - ⇒ Great job by all involved
 - ▶ Workcell shielding reconfigured to allow access to beam right
 - ▶ First replacement this afternoon (half day ahead of schedule)
 - ▶ Second replacement tomorrow, then return horn to target chase and button up by weekend
 - ▶ Munters here Mon/Tues next week to replace the dehumidifier
 - ▶ Beam on again next Tuesday evening



Other Status

P. Adamson
Accelerator Division
Fermilab

Far Detector

- ▶ Detector has been on and running for cosmics all week. No downtimes.
- ▶ Freezing rain on Sunday caused problems with the mine headframe—mine crew an hour late underground.
- ▶ Chiller 2 lost power at the weekend—electrician on the case

Near Detector

- ▶ ND is off for the next few days for LCW repairs (can't run coil or electronics)
- ▶ Replacing steel pipe with PVC. Will repair LCW leak in the process
 - ⇒ LCW system currently needs topping up once a week
- ▶ Back on well before beam

Lake Pre-Target

- ▶ Drain under target hall had blocked, causing standing water in the pre-target area by the shield wall
- ▶ New sump/drain installed
- ▶ Target hall humidity immediately dropped from 53% to 40%, then 35% when the lake was drained
- ▶ Should now keep the target hall nice and dry