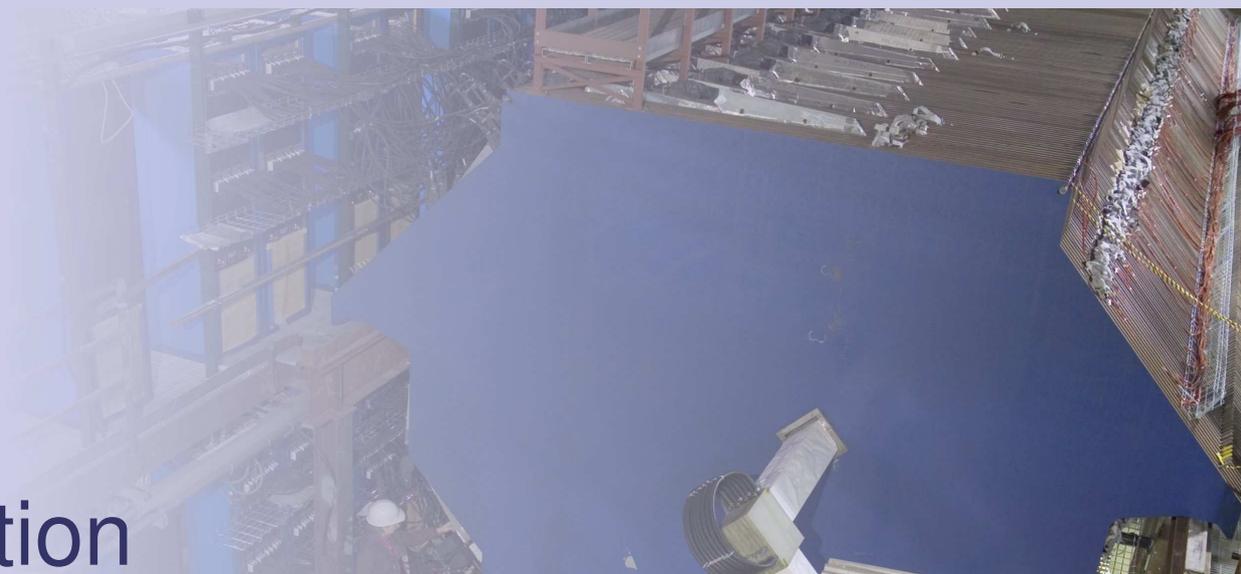
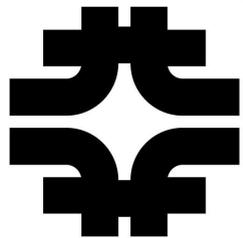


# NuMI-MINOS status report

Phil Adamson  
Fermilab Accelerator Division

for the  
MINOS collaboration





# The target moves!

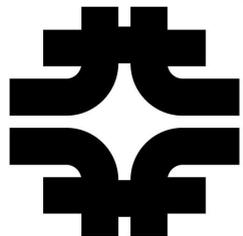
P. Adamson  
Accelerator Division  
Fermilab

- ▶ Target sits inside horn neck in LE position
- ▶ Z-drive would not retract target  
⇒ NT-01 rusted solid!
- ▶ Target removed with some very careful crane work
- ▶ Friday attempted to hand-crank target—moved easily
- ▶ Discovered carbon steel screw on coupling broken—looks like hydrogen embrittlement
- ▶ Replace with stainless screws
- ▶ This morning moved target with Z-drive and ACNET

- ▶ Collaboration decided not to use current target in ME position, but to install NT-03 in LE
- ▶ Now not necessary—continue running with the current target (NT-02)

## The plan:

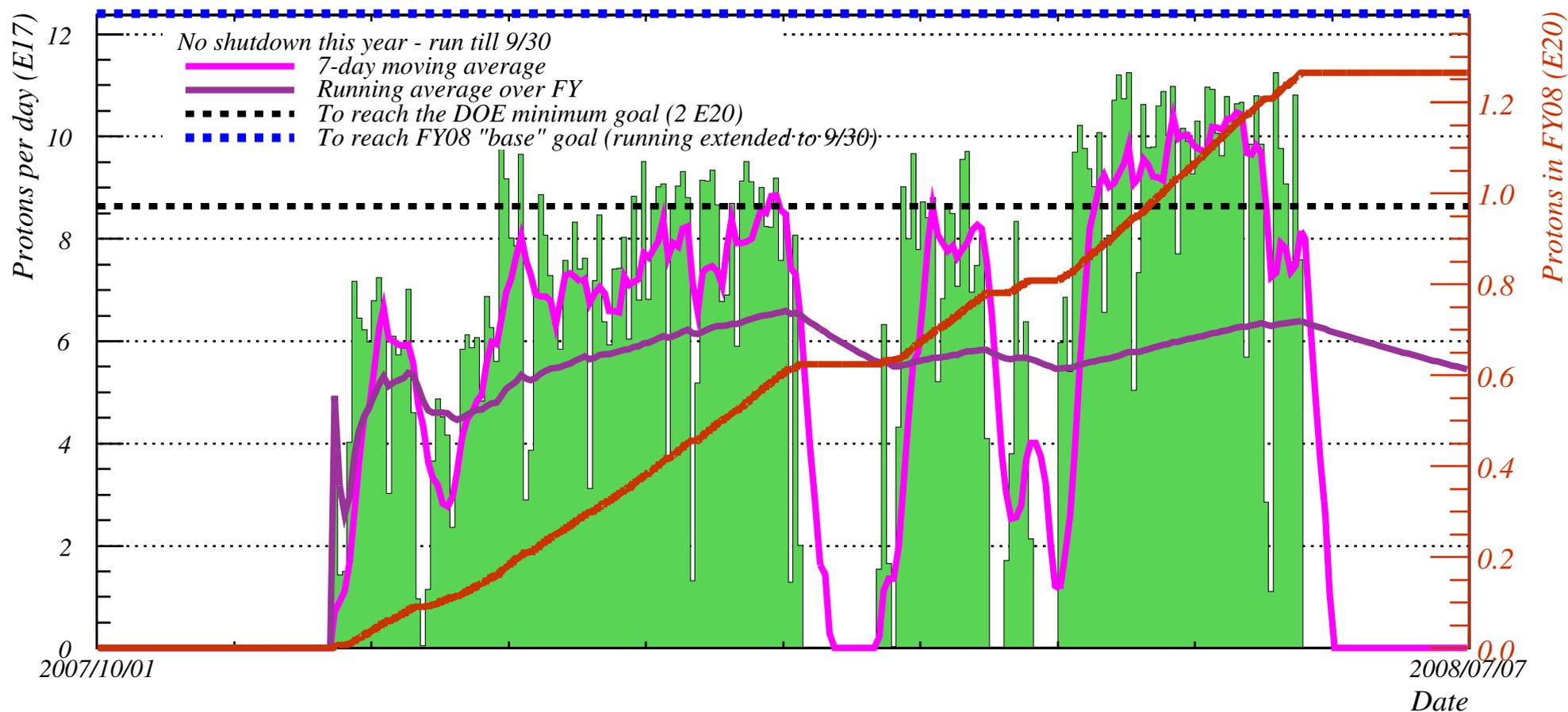
- ▶ Target back into chase today
- ▶ Horn to workcell tomorrow
- ▶ Smoke test to verify failure point in suction line on Thursday
- ▶ Then uncouple horn from module and prepare for the new horn
- ▶ Will do careful beam scans of new horn
- ▶ Back to normal running week of July 7?



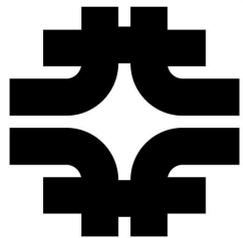
# FY 2008

P. Adamson  
Accelerator Division  
Fermilab

FY08 NuMI protons to 00:00 Monday 07 July 2008



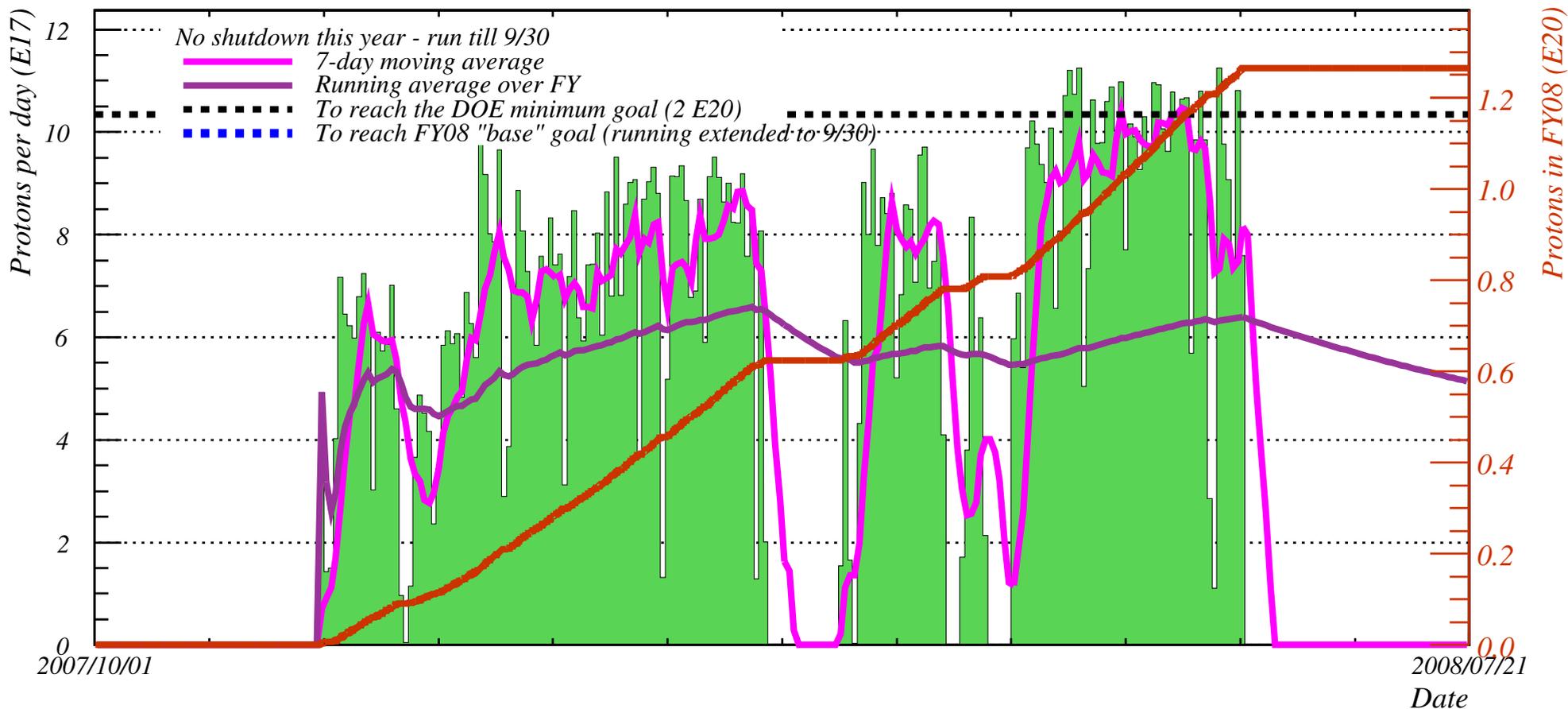
- ▷ This is where we'd be on July 7th. We might start up shortly after that
- ▷ The "blue line" was out of reach as soon as the horn failed



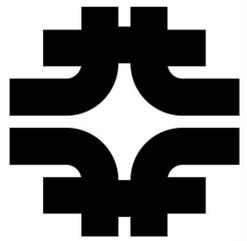
# FY 2008

P. Adamson  
Accelerator Division  
Fermilab

FY08 NuMI protons to 00:00 Monday 21 July 2008



- ▷ ...but there's a planned 10-day or so shutdown that will probably show up in August
- ▷ So add on a couple of weeks of downtime.



# The Pollyanna slide

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Accelerator Division  
Fermilab

- ▶ It looks like we still have a spare target
- ▶ When horn 1 is replaced, we won't have any of the weak ceramic breaks that have caused the majority of NuMI downtime to date
- ▶ There should be no more roadblocks in the way of integrating protons.
- ▶ The thing that counts is the number of protons you end up integrating. A smooth ride may be more comfortable than a bumpy one, but it ends up at the same destination