



NuMI-MINOS Status Report — Alec Habig

- FAR DETECTOR:

- 96.5% livetime last week (*wall clock*)
 - Down time from 9:00-15:00 Thursday 27 March. Minnesota Power repaired a lightning arrestor on the 4,800V power feed, detector came back up with only one blown fuse (VME card)
 - Accelerator took this opportunity to also fix stuff
 - Everything fixed and running before the accelerator complex came back up from its maintenance

- NEAR DETECTOR:

- Close to 100% live (*beam weighted*)
- Sump-side filter for LCW system clogged on Sunday. Coil down while filter cleaned out, but happened during MI vacuum problem downtime, so no beam lost



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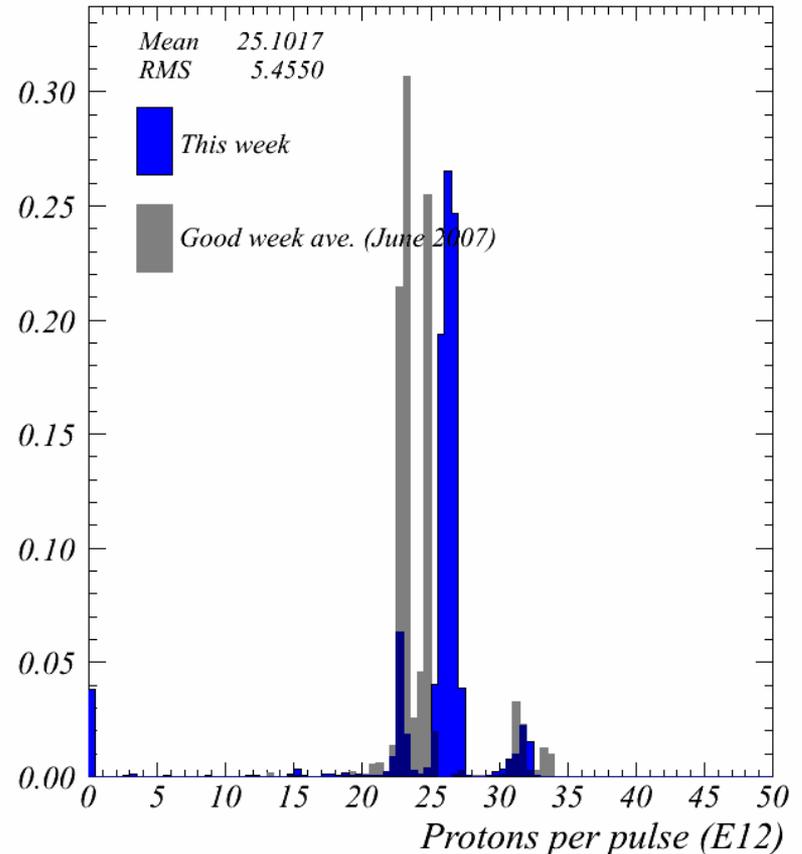
- Protons/pulse:

- $\sim 23 \times 10^{12}$: 2+9 6-turns mixed
- $\sim 26 \times 10^{12}$: 2+9 7-turns mixed
- $\sim 32 \times 10^{12}$: NuMI only (during pbar recycler transfers)

<2.51 E13 ppp>

Best week 2.59 E13

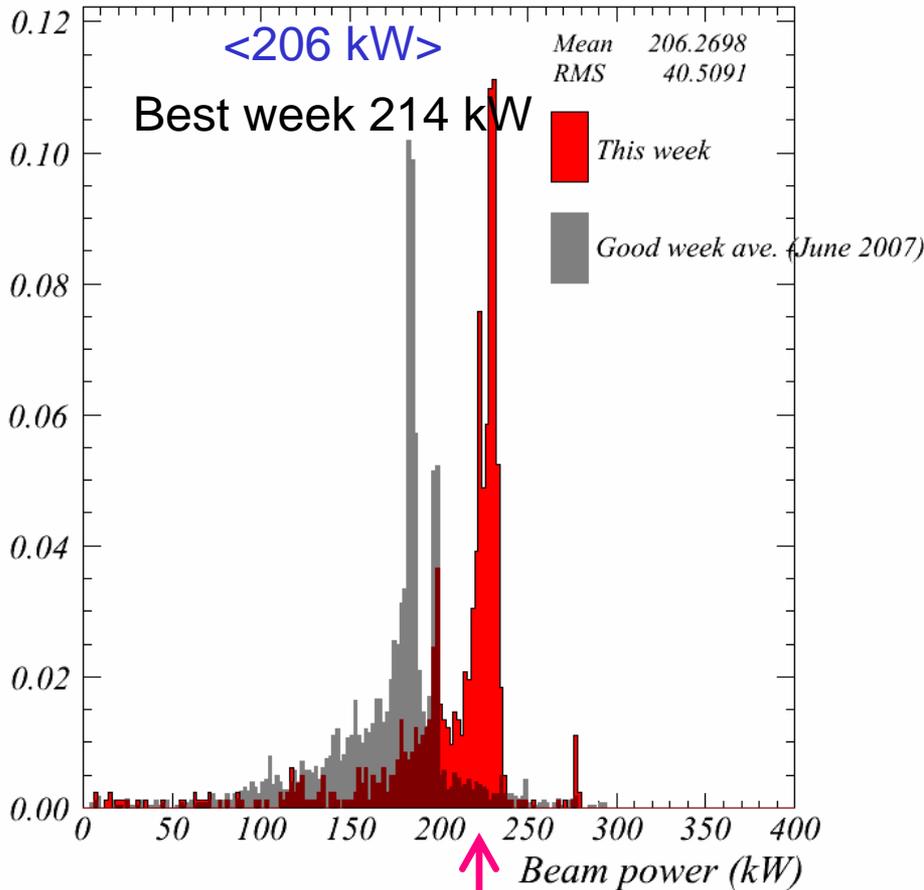
Week ending 00:00 Monday 31 March 2008





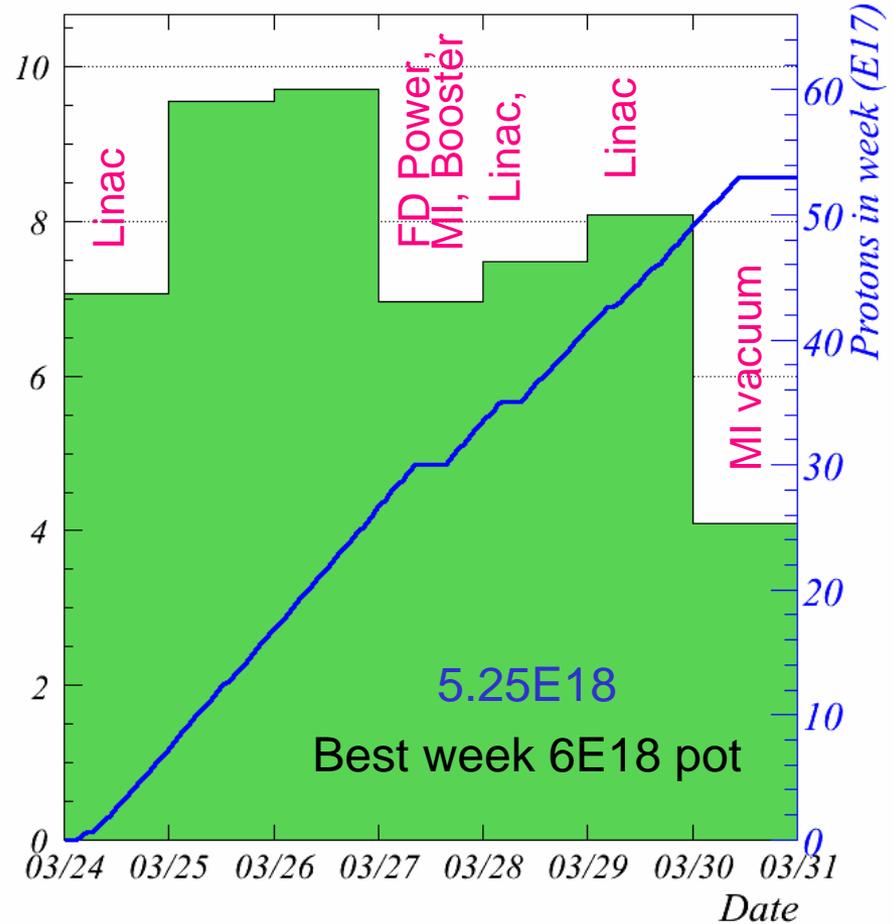
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Week ending 00:00 Monday 31 March 2008



~190kW with 6 turns,
~230kW with 7 turns,
~270kW in NuMI only
(no MTEST this week)

Week to 00:00 Monday 31 March 2008



No NuMI specific downtime for previous two weeks now, however...
(* see next slide!)



NuMI-MINOS Status Report

- QD111 has had a weeper leak for three months
 - In awkward location, no corresponding MI downtime opportunity, so not preemptively replaced
 - After cooling off during yesterday's MI vacuum problems, the quad wouldn't come back
 - Not the PS, but we won't know till tomorrow morning if it's an external, repairable short or a nasty internal one

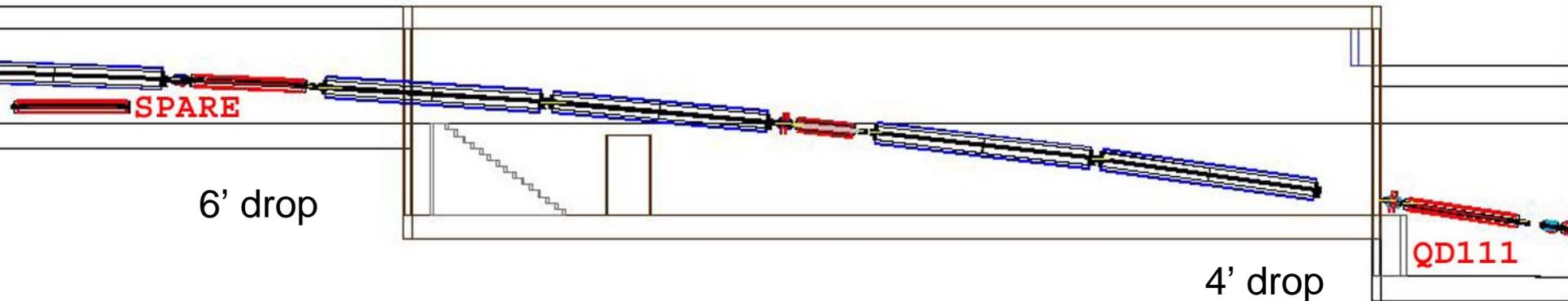




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- At the end of the NuMI stub
 - Essential to focus beam to NuMI carrier line, so can't run without it
- If replacement is needed:
 - Repairs take ~2.5 days, but can't run MI or RR during them
 - Lots of challenging rigging
 - Will start repairs tomorrow after the Tevatron gets a store

MI Level





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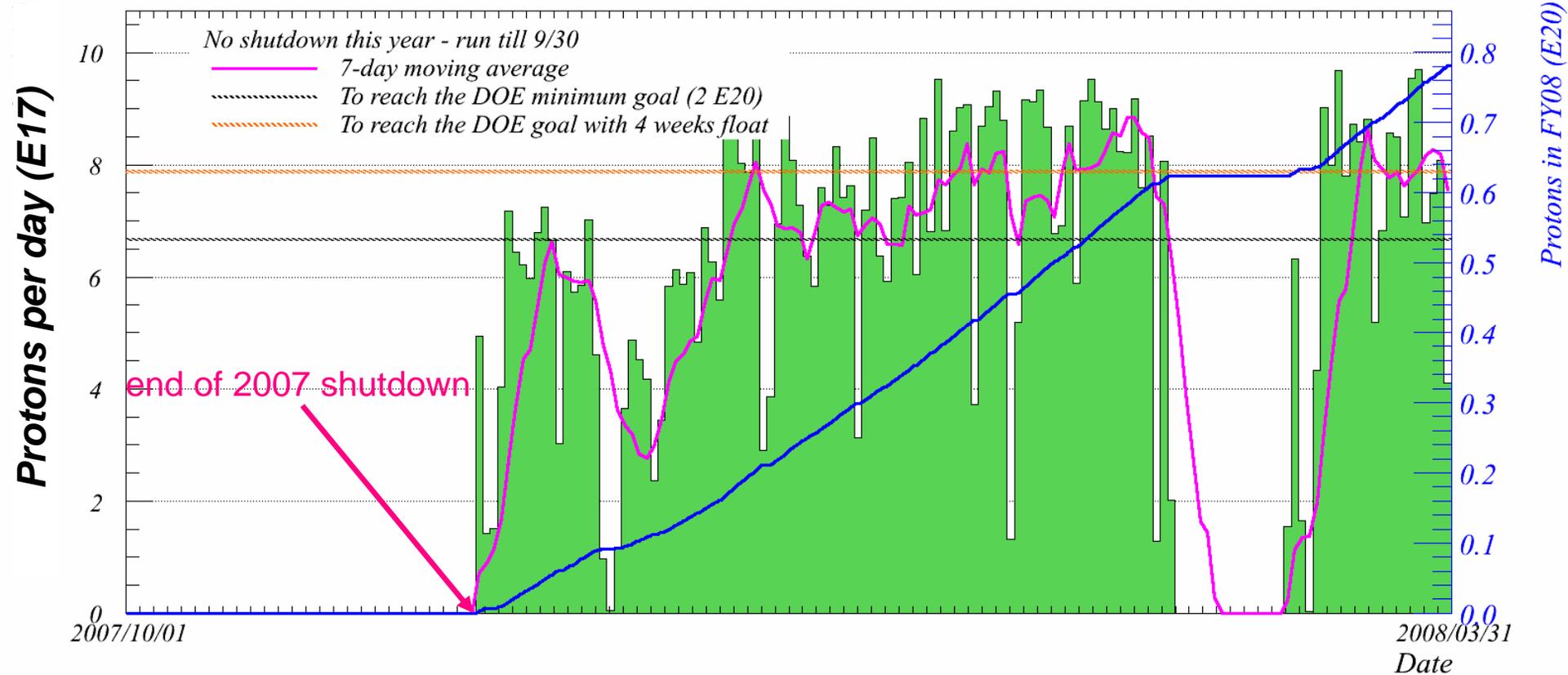
- A Gordon's Eye View of the scene:





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FY08 NuMI protons to 00:00 Monday 31 March 2008



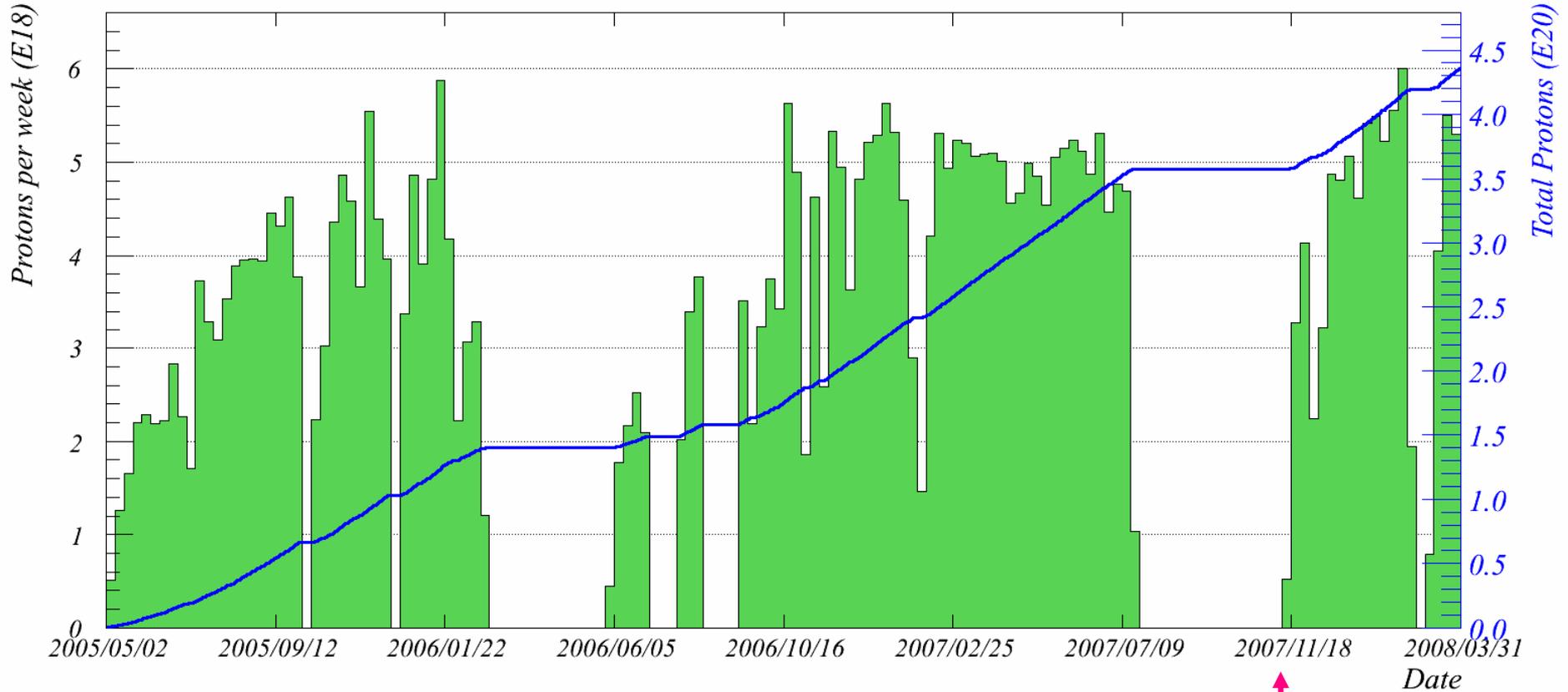
- Weekly Avg. needed to meet 2E20 pot by 30 September (*no shutdown!*)
- - - - - Same, but with 4-weeks float
- 7-day running average



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All Exp Mtg
Mar 31, 2008

Total NuMI protons to 00:00 Monday 31 March 2008



end of 2007
shutdown