



NuMI-MINOS Status Report – Azizur Rahaman

- FAR DETECTOR:

- Far detector was up 95.1% this week (wall clock)
- Downtime was mainly due to power outage caused by thunderstorm last Monday night. It lasted long enough that some UPS ran down and shut down the DAQ. Mine crew called in due to the resulting cryo problems at CDMS and were able to power things back on
- No damage of equipment
- No protons lost (beam was down at the time)
- Work in progress for a second GPS system installation
- Front End chip swapped to fix lone problem channel

- NEAR DETECTOR:

- Up 99.78% of the time (POT weighted)
- ND ran very smoothly – previous week's phototube work held up and detector response is very uniform



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NuMI Beam Summary (Sam Childress)

- NuMI Beam re-start Sunday 0600 – first beam since June 2
 - ~ 2300 have permit trip from Horn 1 RAW expansion tank level. Air leak in water suction return line from the newly installed horn
 - Down for ~ 2 ½ days to replace suction line & check valve at top of horn shield module (these were still original ones)
Problem then fixed!
- Restart Wednesday evening but trip ~0200 with target water flow
 - Clogged De-Ionization bottle filter
 - Lose 4 hrs of beam before scheduled M&D period.
 - Rebalancing of target skid water flows & permit trip levels
Looks good now!

Running well since Friday morning

Many thanks to everyone who worked so hard over the last six weeks to replace Horn 1 and bring back the NuMI beam!



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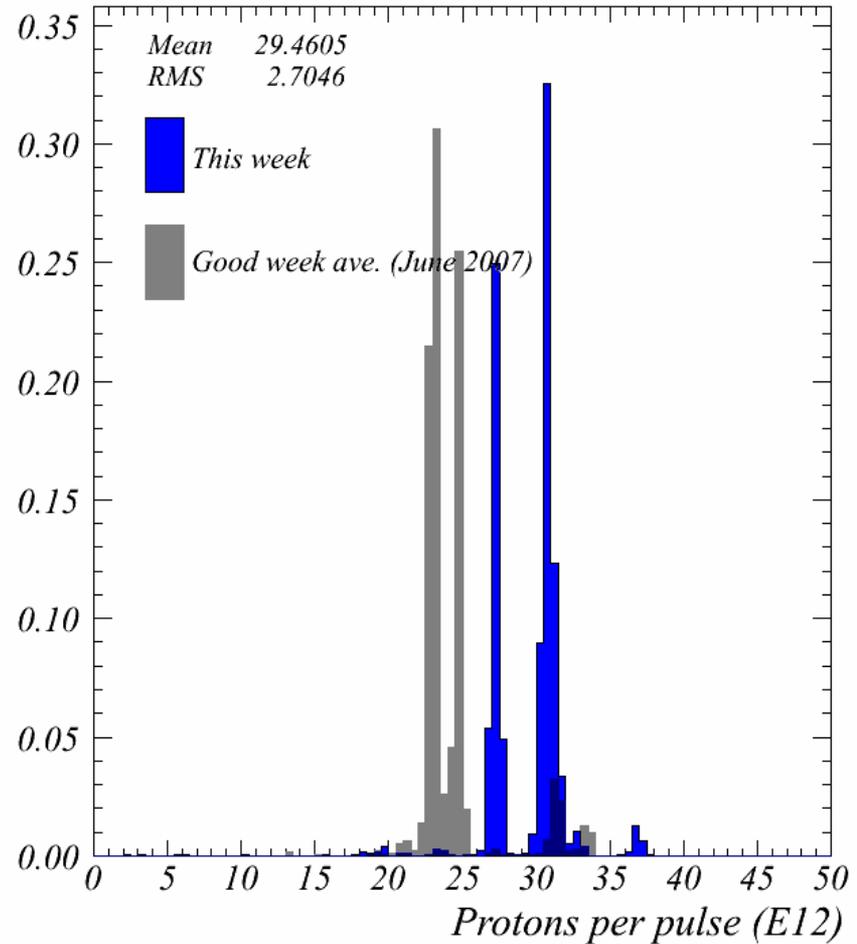
• Protons/pulse:

- $\sim 27 \times 10^{12}$: 2+9 7-turns mixed
- $\sim 31 \times 10^{12}$: 2+9 8-turns mixed
- $\sim 33 \times 10^{12}$: NuMI only (7-turns)
- $\sim 38 \times 10^{12}$: NuMI only (8-turns)

<2.95 e 13 ppp>

Best week <3.08 e13>

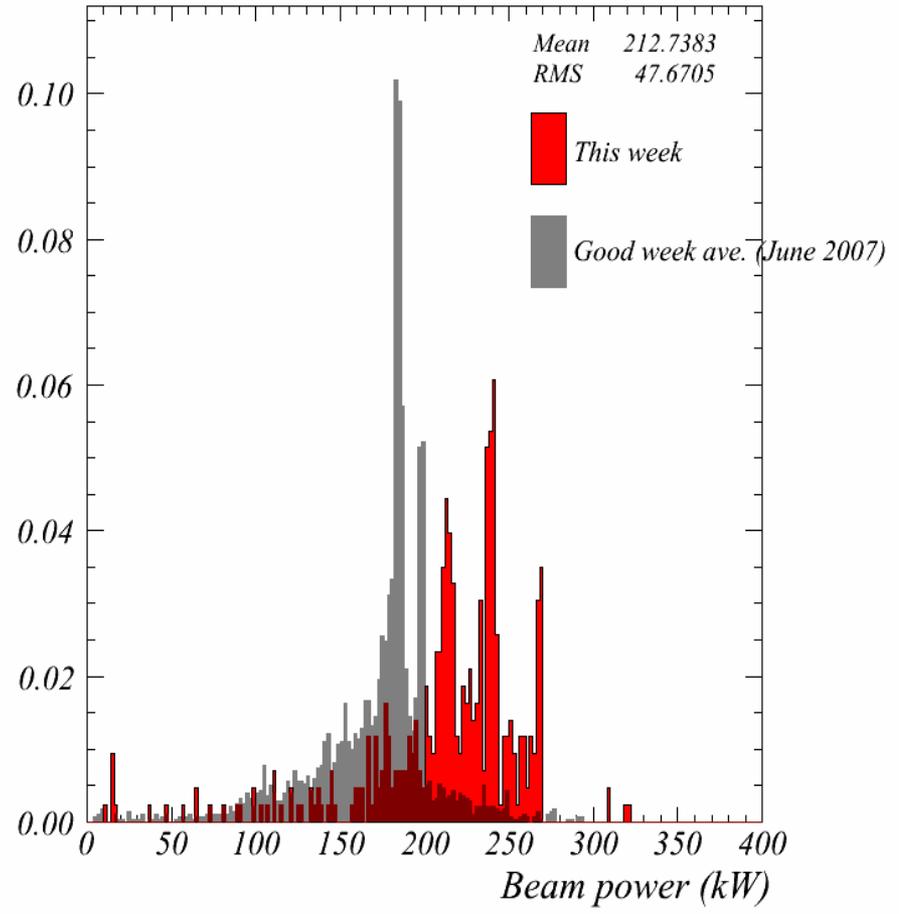
Week ending 00:00 Monday 21 July 2008





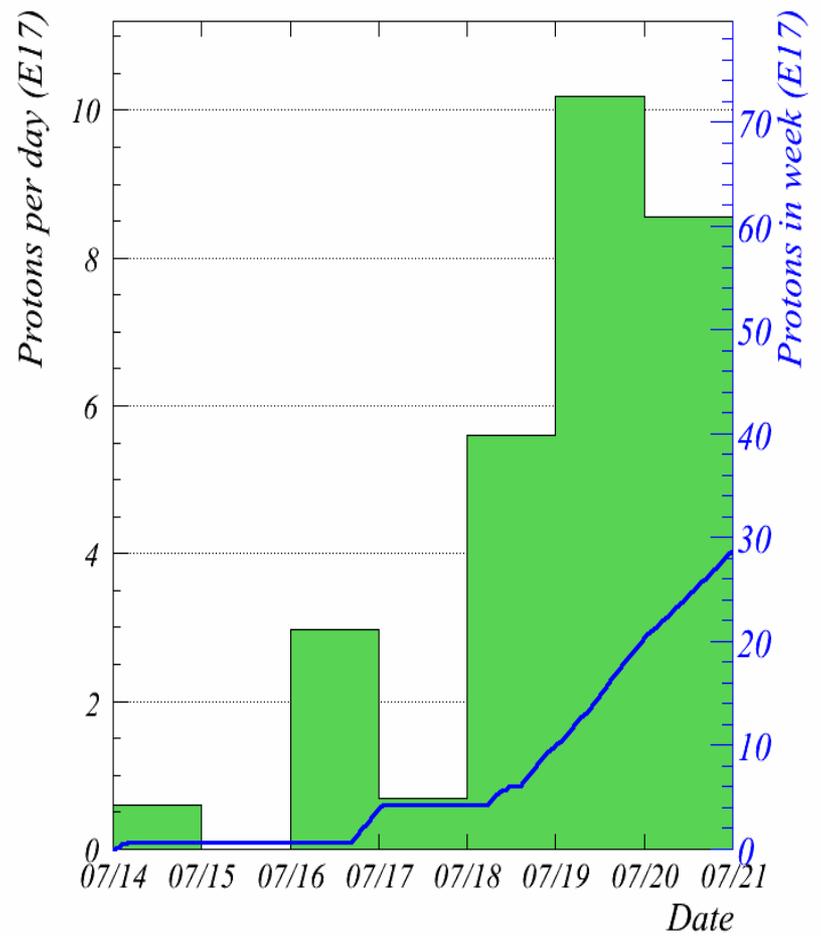
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Week ending 00:00 Monday 21 July 2008



Beam Power <212.7kW>
(Best week – 240.6kW)

Week to 00:00 Monday 21 July 2008

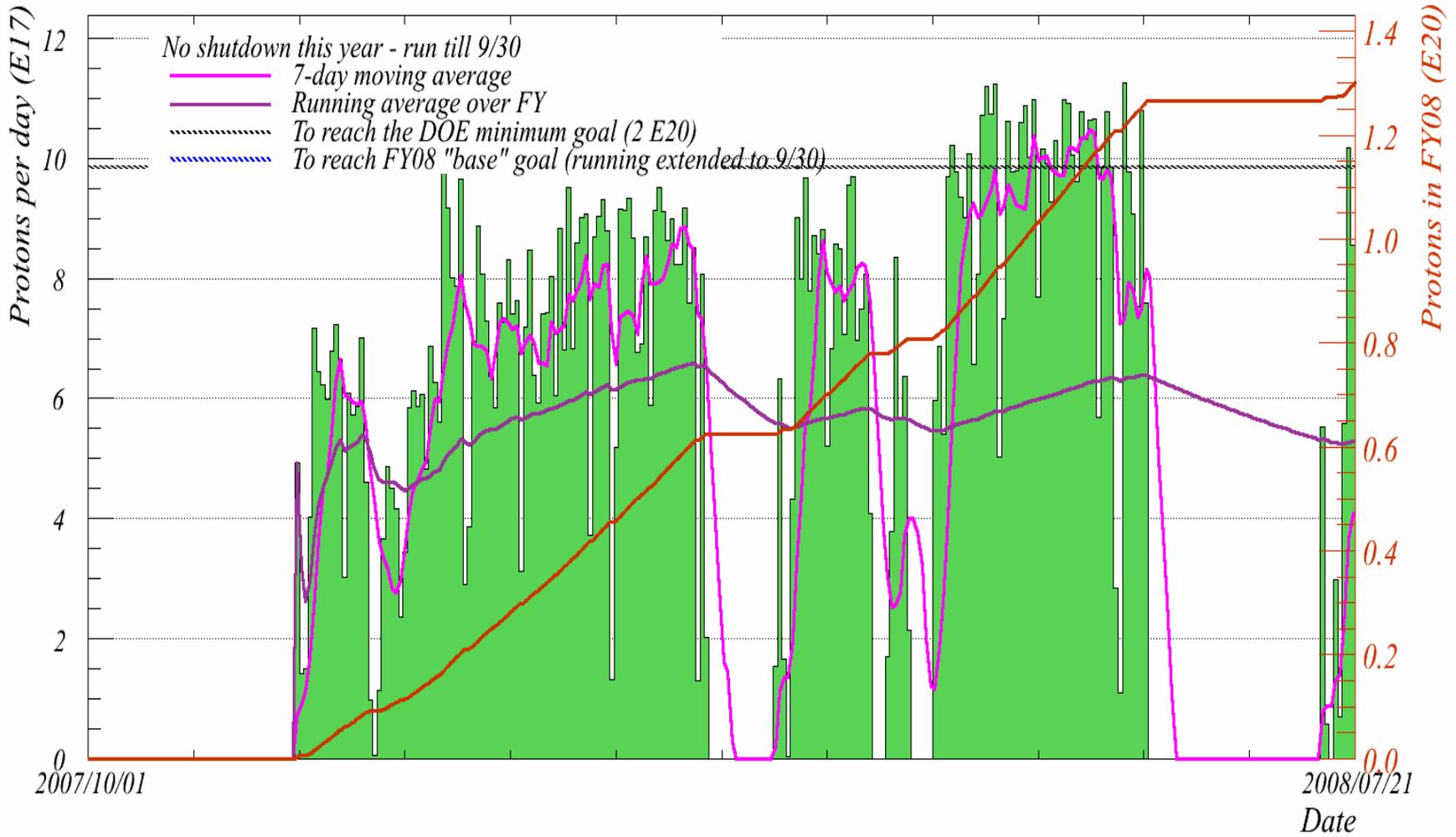


Protons Per Day



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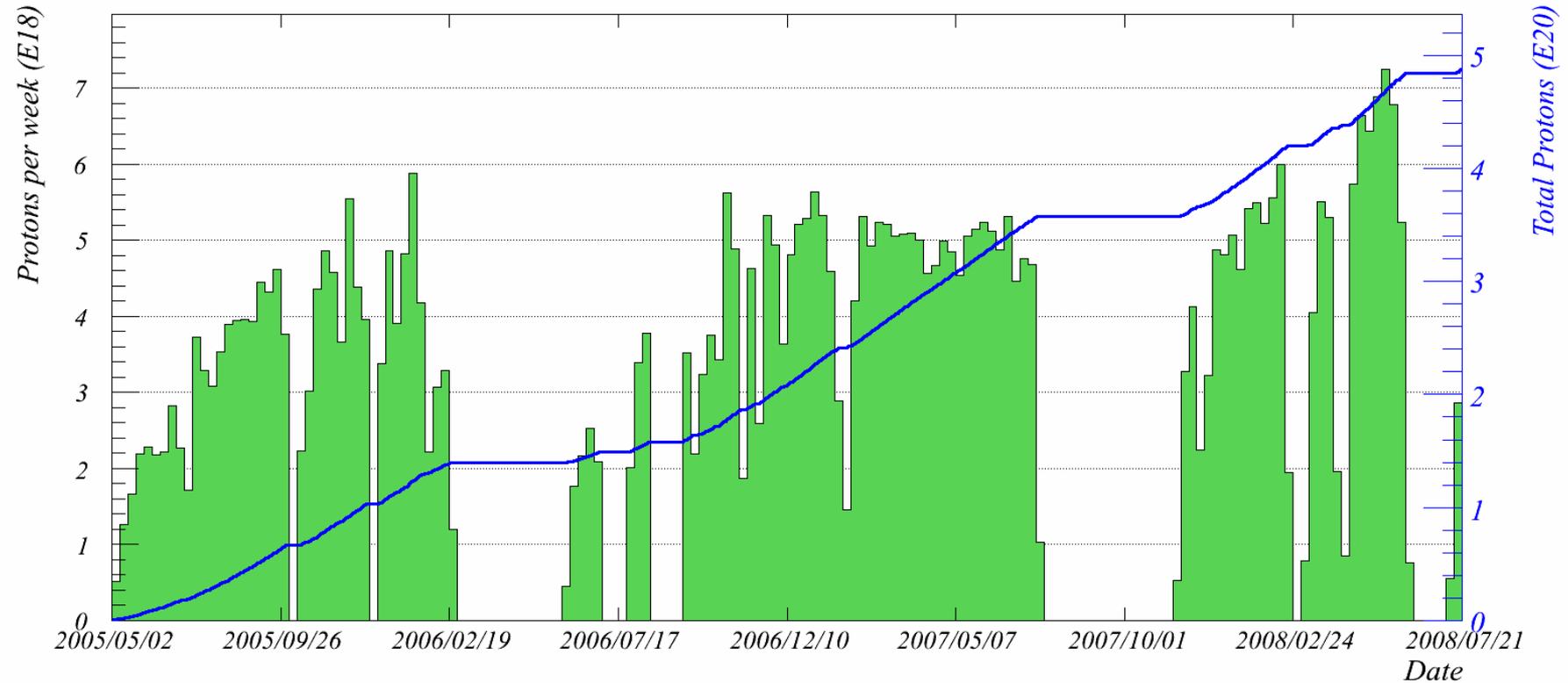
FY08 NuMI protons to 00:00 Monday 21 July 2008





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Total NuMI protons to 00:00 Monday 21 July 2008



4.82 e20 total POT to NuMI

↑
end of 2007
shutdown