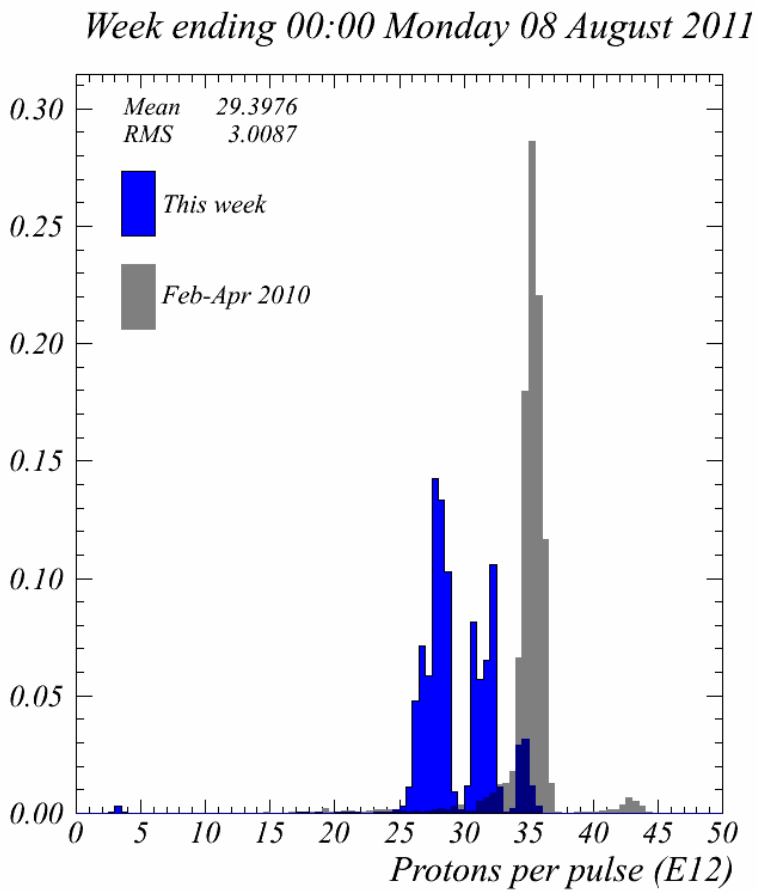
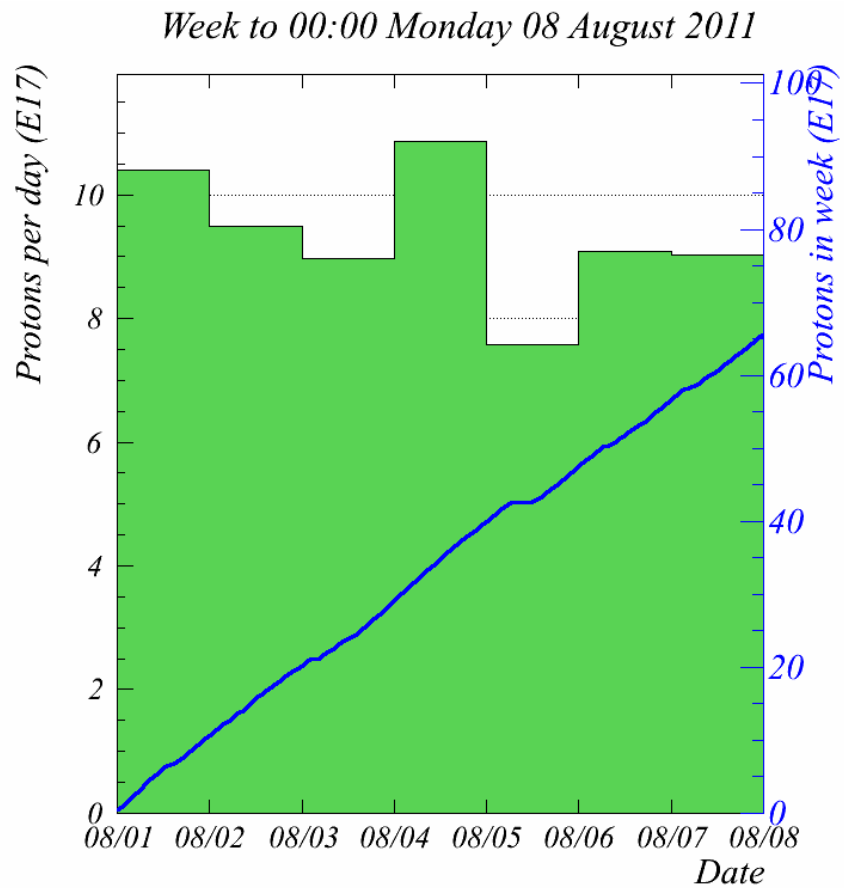
NuMI-MINOS Status Report – Benton Pahlka

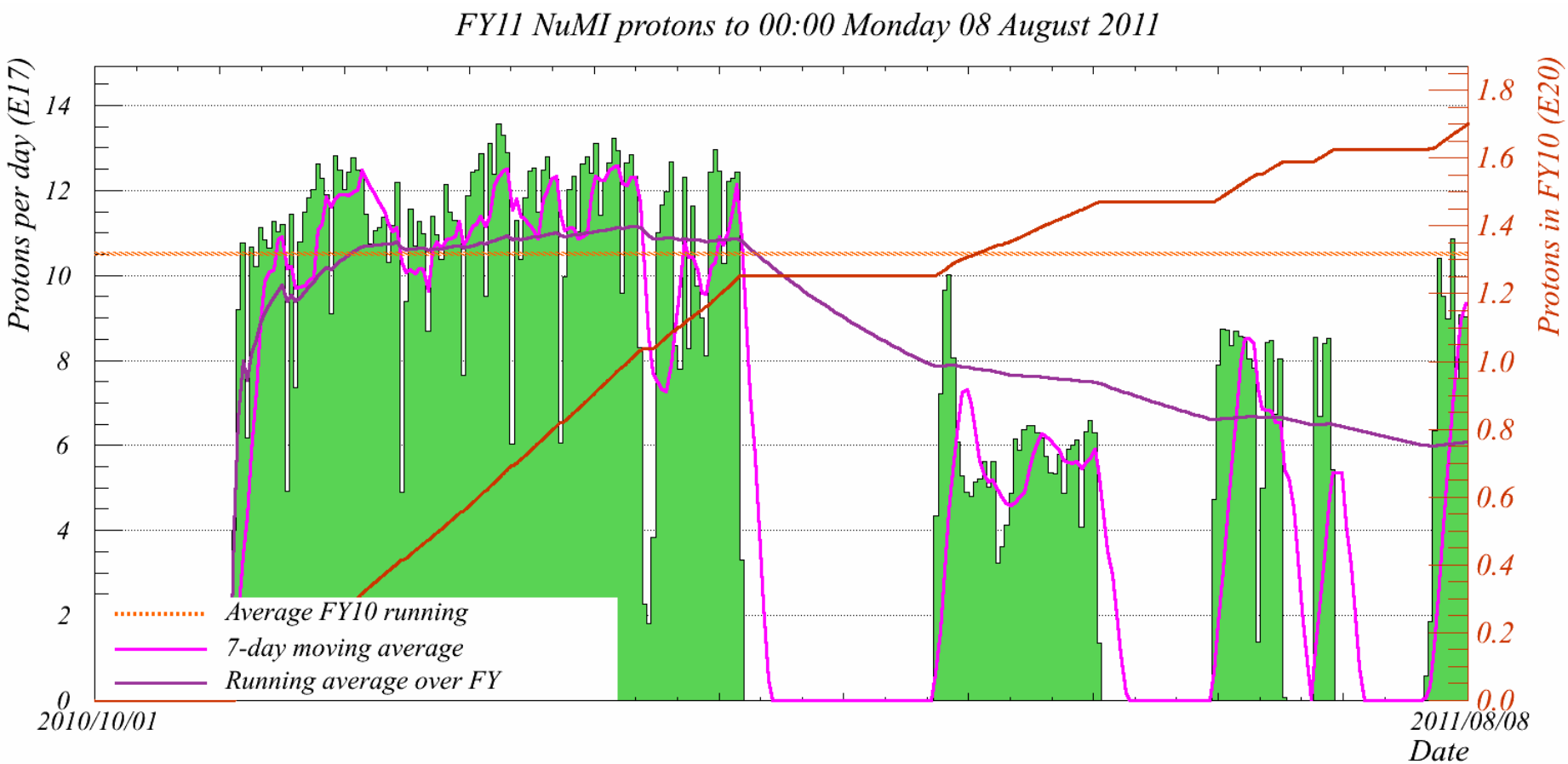
- Intensity slightly lower than normal: ~30 × 10^{12}
- 65 × 10^{17} POT taken last week in reverse horn current (anti-neutrino) mode.





NuMI-MINOS Status Report

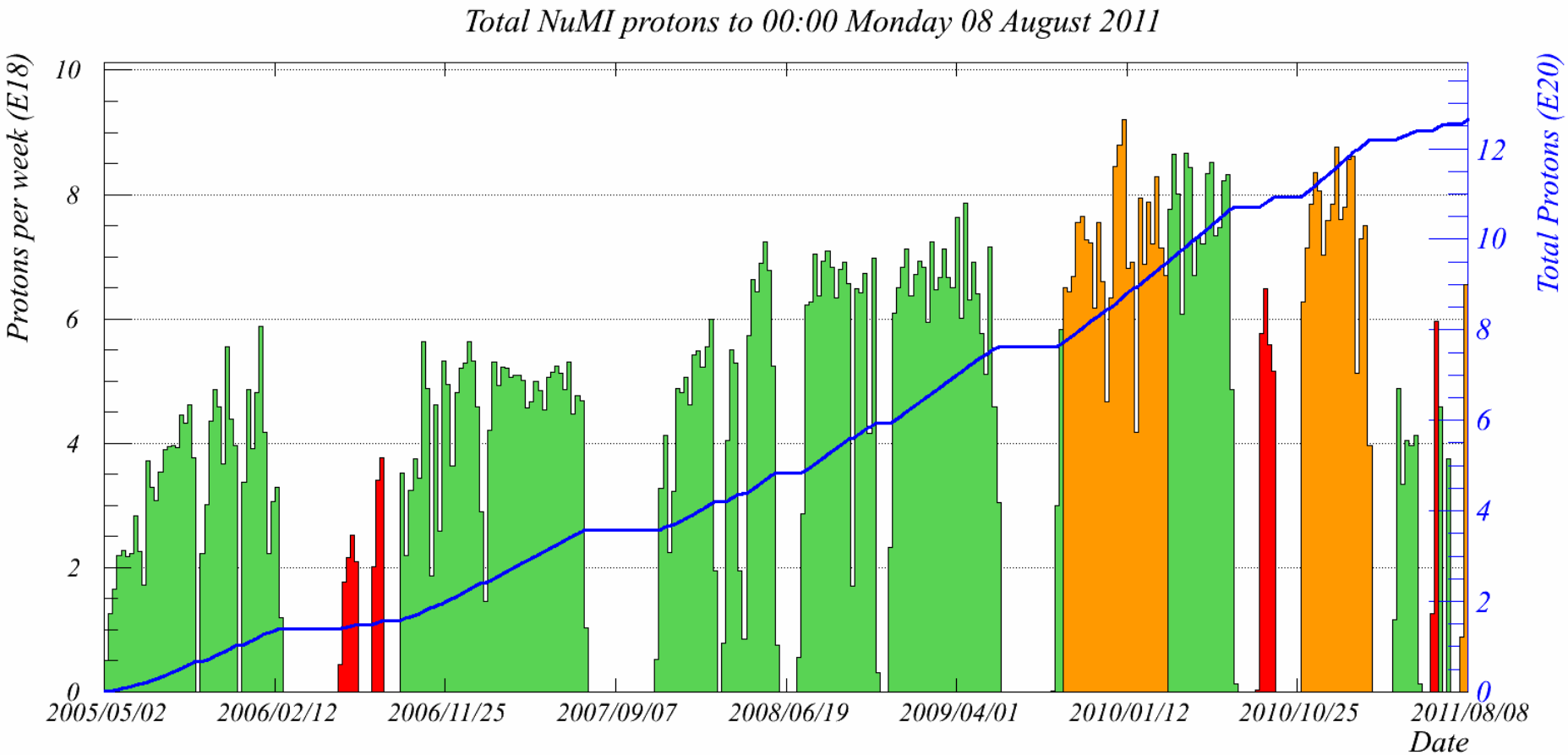
- FY11: 1.7×10^{20} POT



NuMI-MINOS Status Report

Protons on Target (since 2005)

- Total Protons: ~12.5 × 10^{20}



NuMI-MINOS Status Report

Live Time: 98.5% good physics data

POT Fraction: 98.3% good physics data

- Timing problem in crate 0
- Two crates each have a hot channel
- Need to replace one board
- Need to re-initialize one crate
- Should happen today

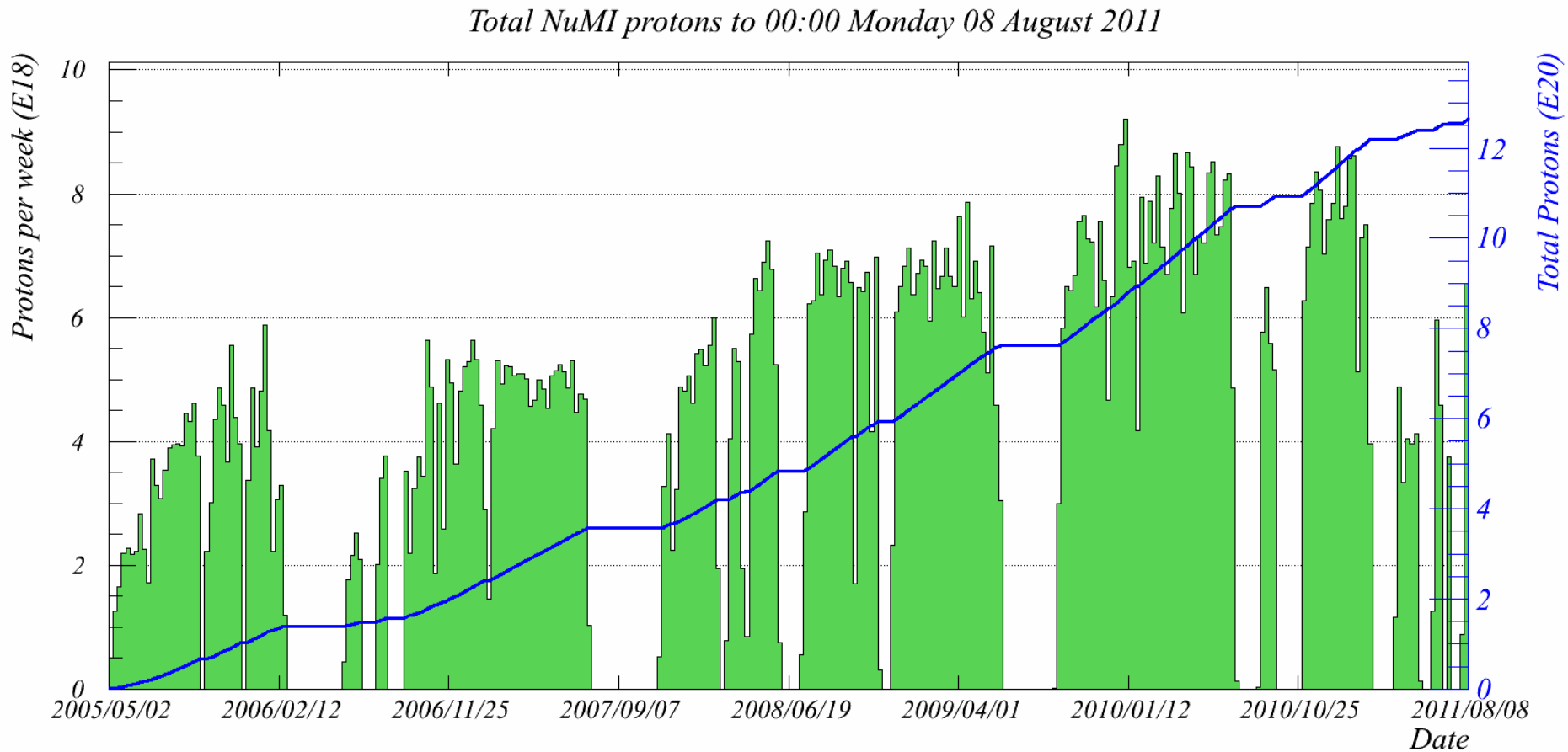
NuMI-MINOS Status Report

Live Time: 94.0% good physics data
POT Fraction: 93.7% good physics data

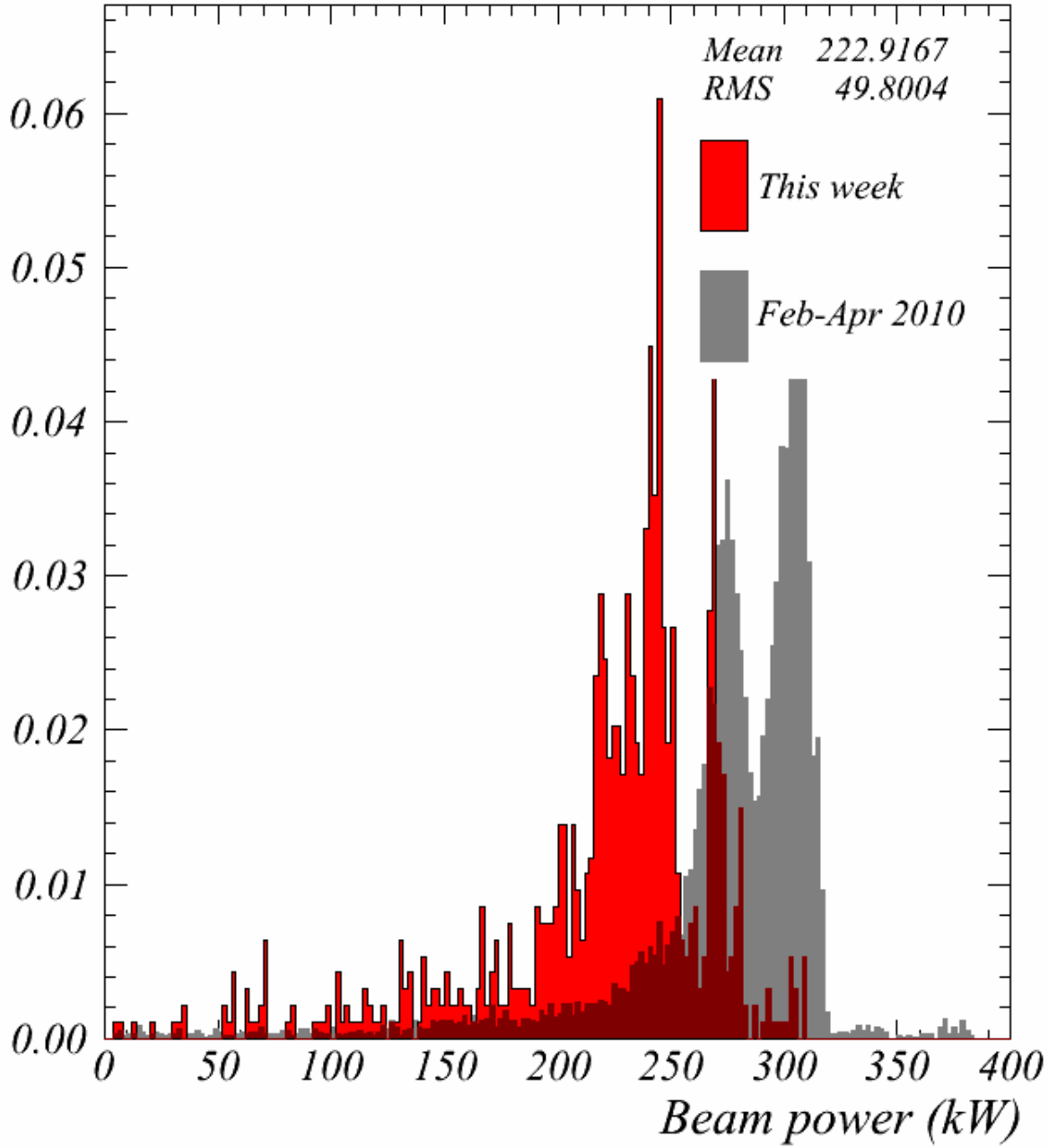
- Power outage from 8 second power blip
- Storms in Minnesota the likely cause
- Far Detector now running

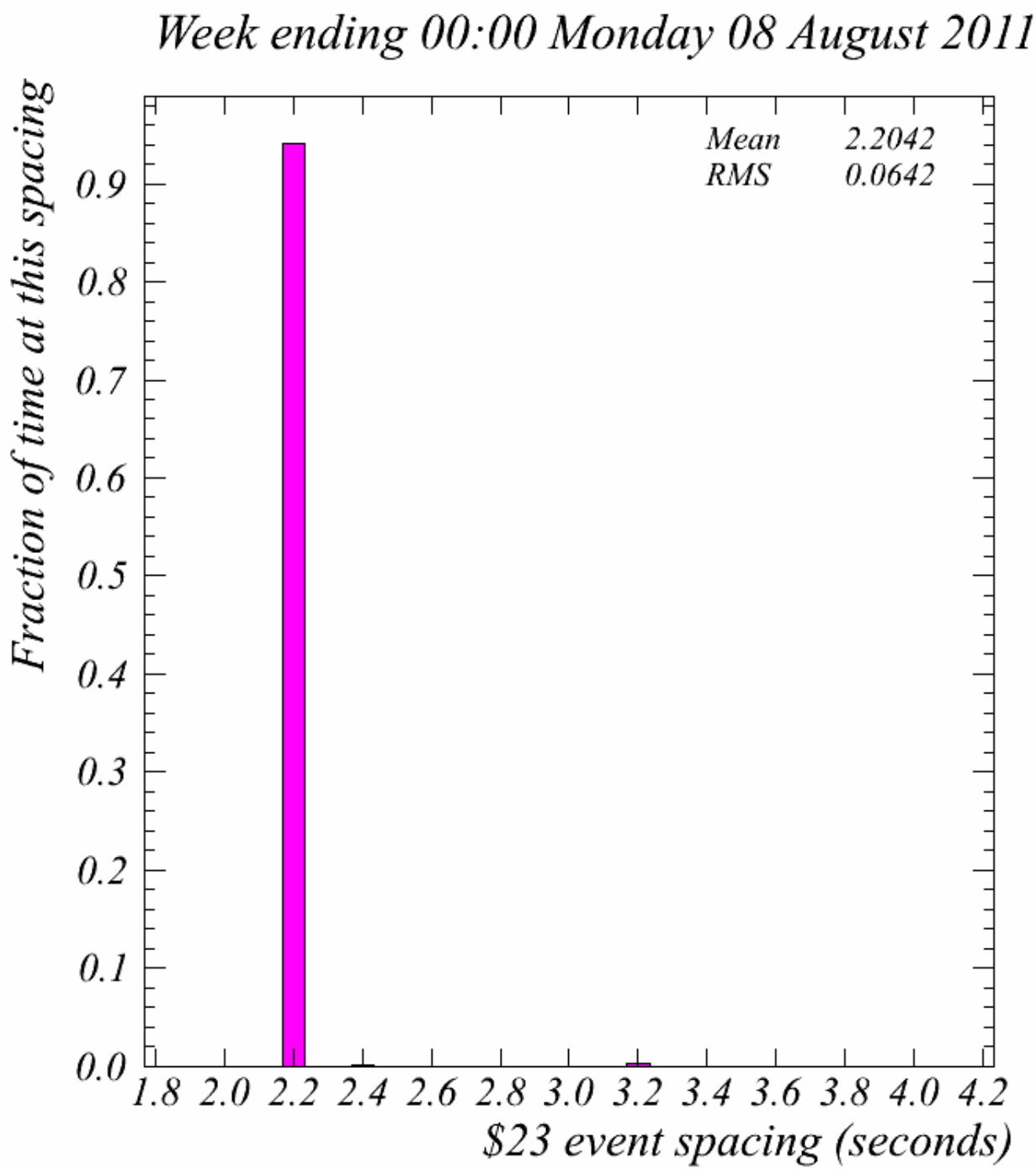
Question: Can the MCR inform either the MINOS shifter or Run Coordinator if there is expected beam downtime?

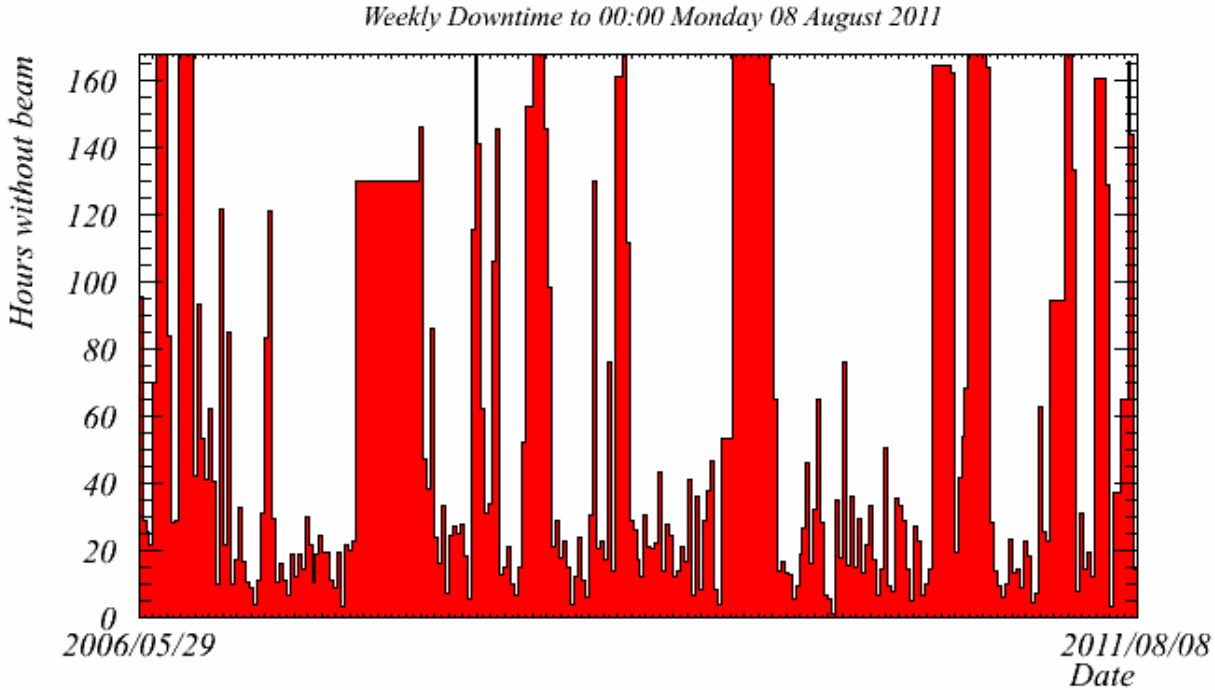
Backup

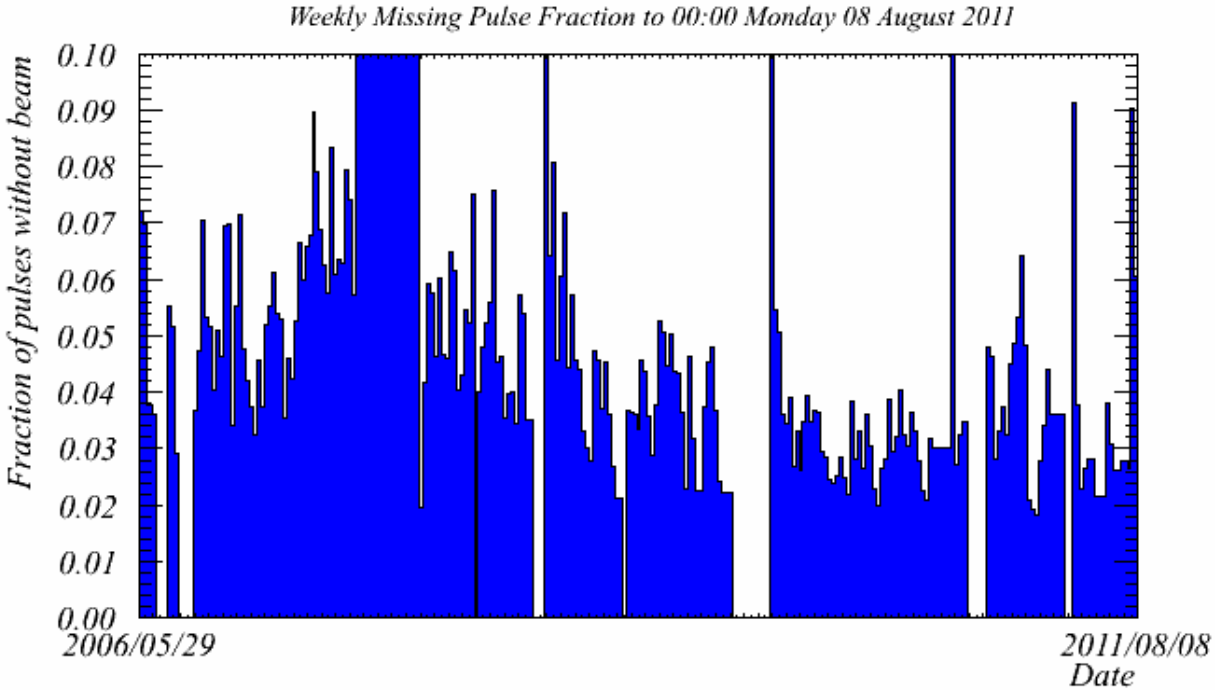

Total NuMI protons to 00:00 Monday 08 August 2011
Protons per week (E18)
Total Protons (E20)
Date
0
2
4
6
8
10
12
2005/05/02
2006/02/12
2006/11/25
2007/09/07
2008/06/19
2009/04/01
2010/01/12
2010/10/25
2011/08/08

Week ending 00:00 Monday 08 August 2011




Week ending 00:00 Monday 08 August 2011
Mean 2.2042
RMS 0.0642
Fraction of time at this spacing
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2
$23 event spacing (seconds)


Weekly Downtime to 00:00 Monday 08 August 2011
Hours without beam
160
140
120
100
80
60
40
20
0
2006/05/29
2011/08/08
Date


Weekly Missing Pulse Fraction to 00:00 Monday 08 August 2011
Fraction of pulses without beam
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
2006/05/29
2011/08/08
Date