Numi/Minos Status

Fermilab All-Experimenters' Meeting
10/31/05

Rob Plunkett

NuMI Beam Status

- Began week with repair of Target Pile Air Compressor
- Reduced intensity running during installation
  - « Useful for systematics.
- Smooth running – interleaved when possible.
- Spare target entering final alignment stage.

NuMI Target Pile Air System Chiller Compressor Update

Air system re-circulates air through target pile, controlling temperature and humidity

After NuMI Horn 2 ground fault fix on
Oct. 12 compressor did not turn on

Target pile has large thermal mass
~ 6000 tons steel, OK for air system
to be down a couple weeks

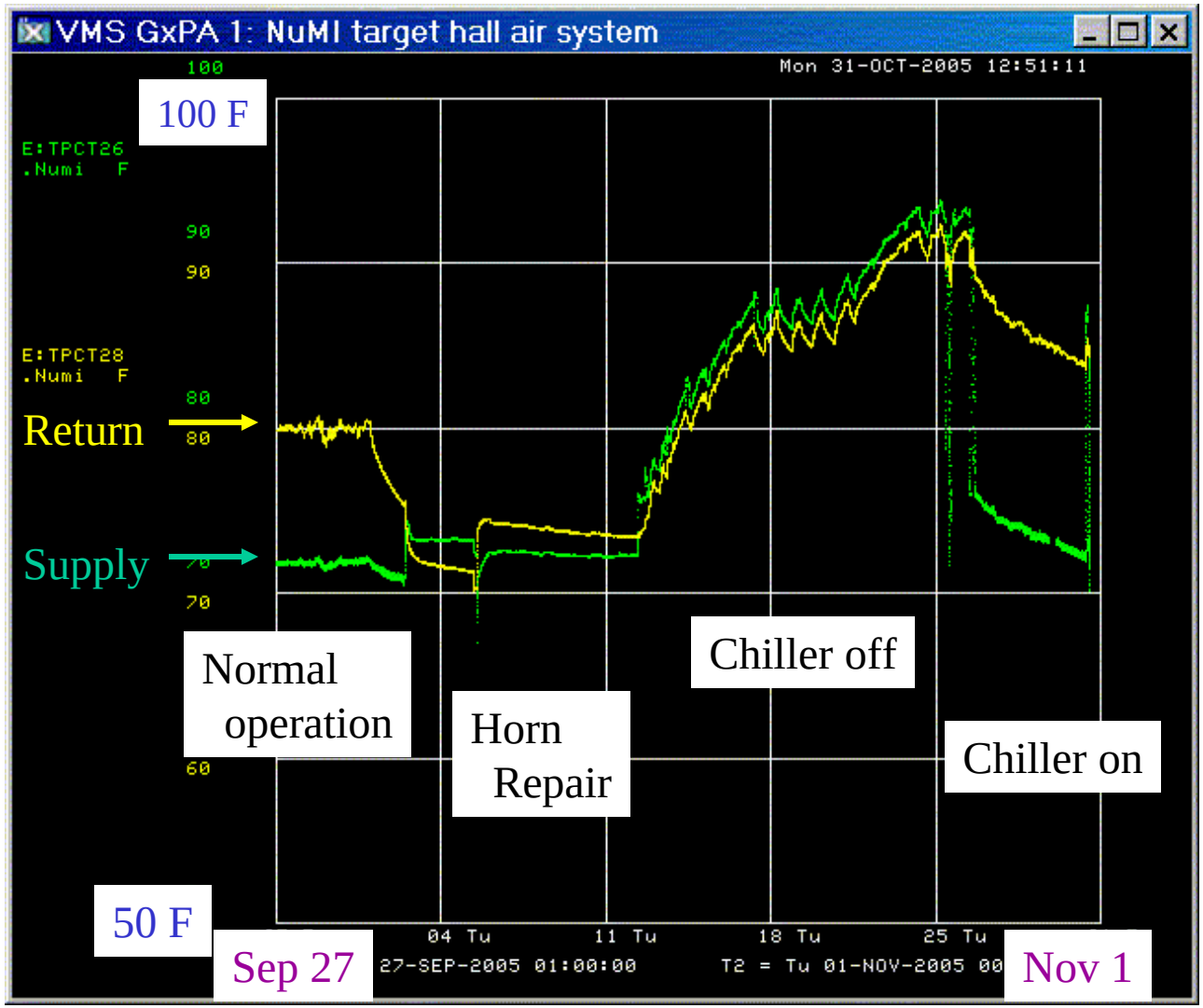
New compressor installed, turned on Oct. 25.
Tripped that evening on low oil float level
(one of sensors added for extra compressor protection).
Re-adjusted system Oct. 26; ran until 9AM Oct 31, tripped; reset and running now.

System is running at half-capacity, matching current beam conditions
System may need some modification to allow reliable running
at full power, needed when NuMI goes to full slip-stacking in a year or two.

Do not have autopsy of old compressor yet.

NuMI Target Pile Air Temperature

past 5 weeks

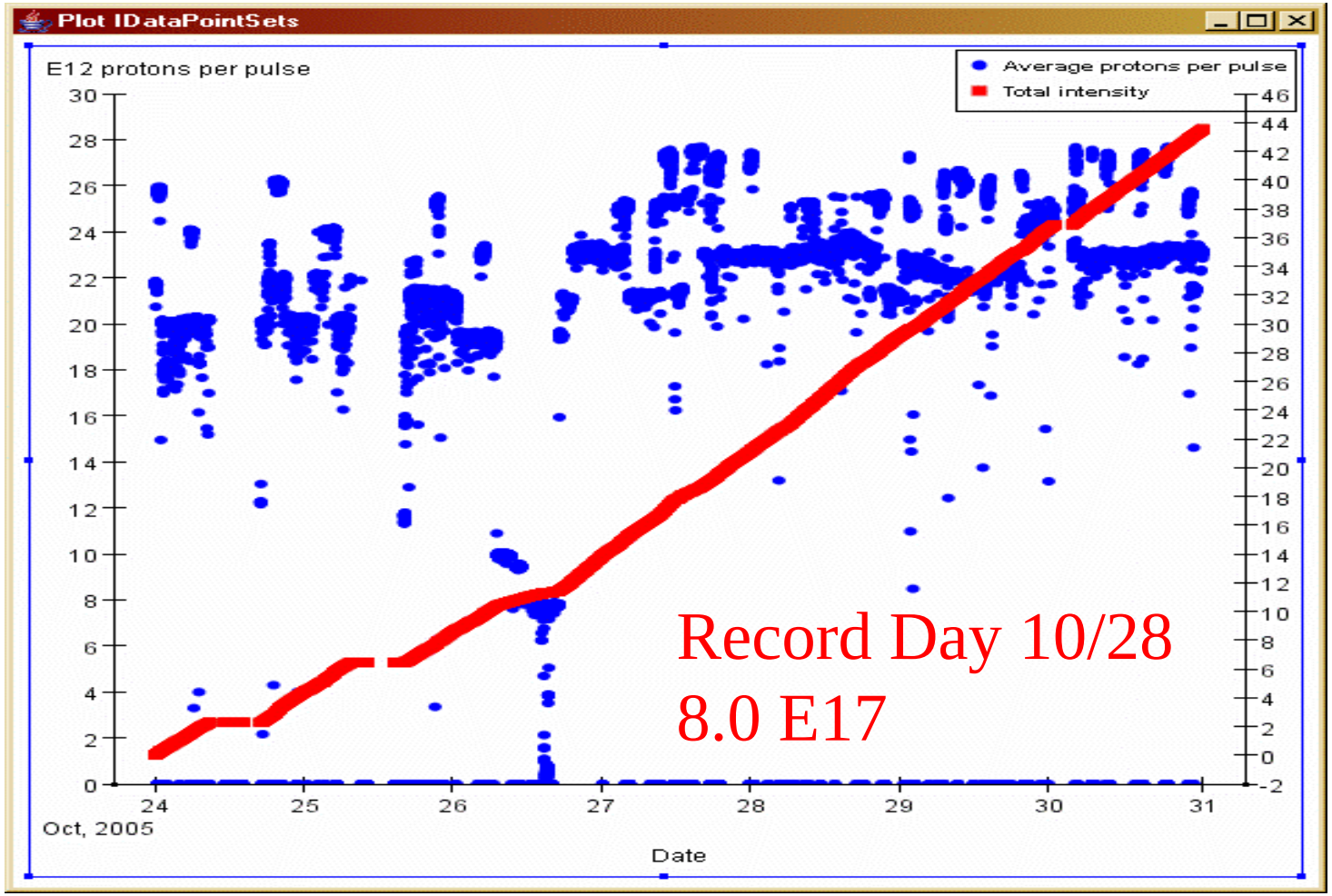


Target pile is nearly back to normal temperature

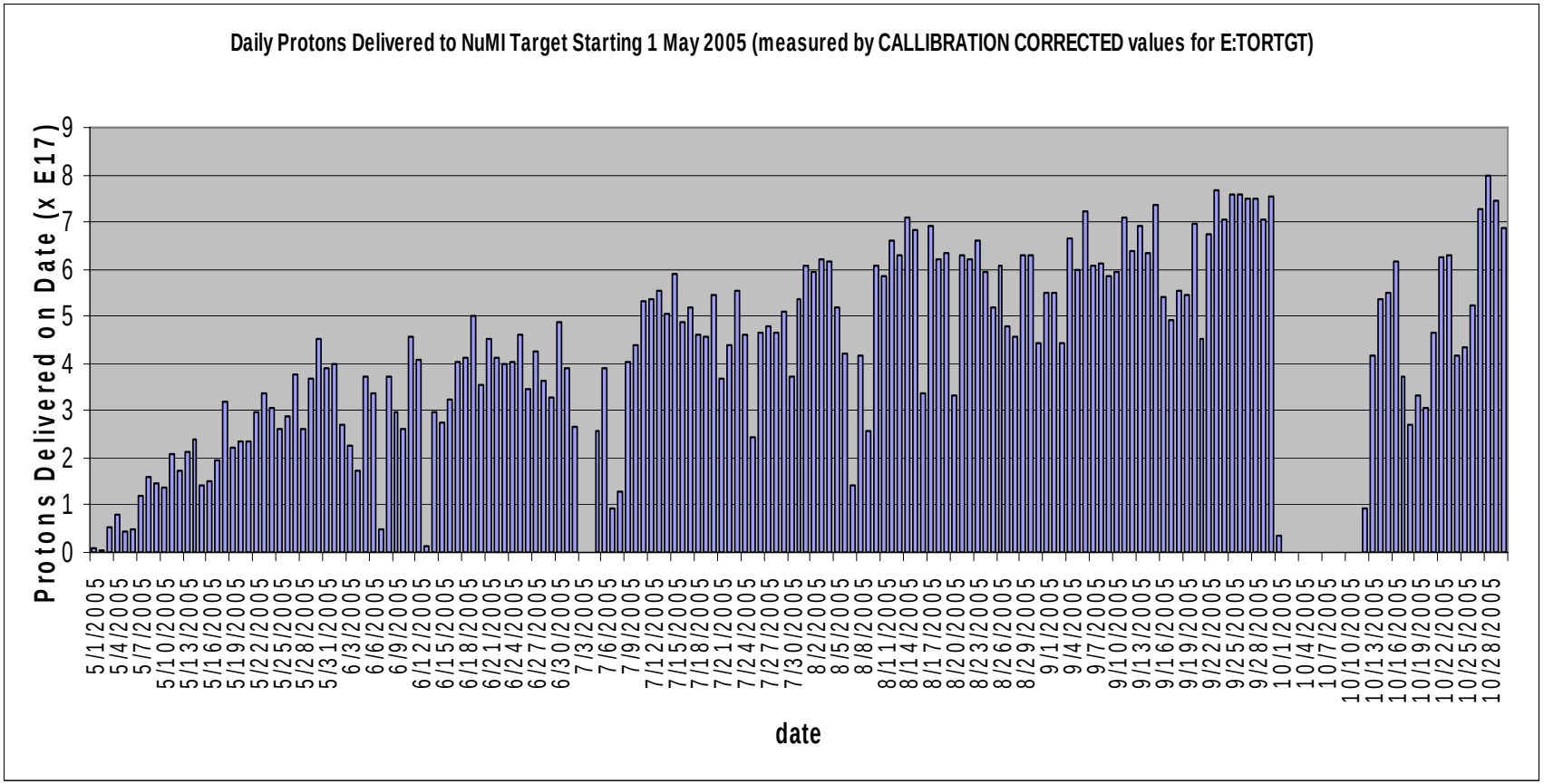
Minos Status

- Detector downtime small.
- “10-minute” network service at Soudan became 6 hours
  - No lost data, local cache.
- Replaced 4 ND frontend electronic boards
- Mild chaos during time change
  - Monitoring software
  - Beam data stream from AD interrupted for 3 hours.

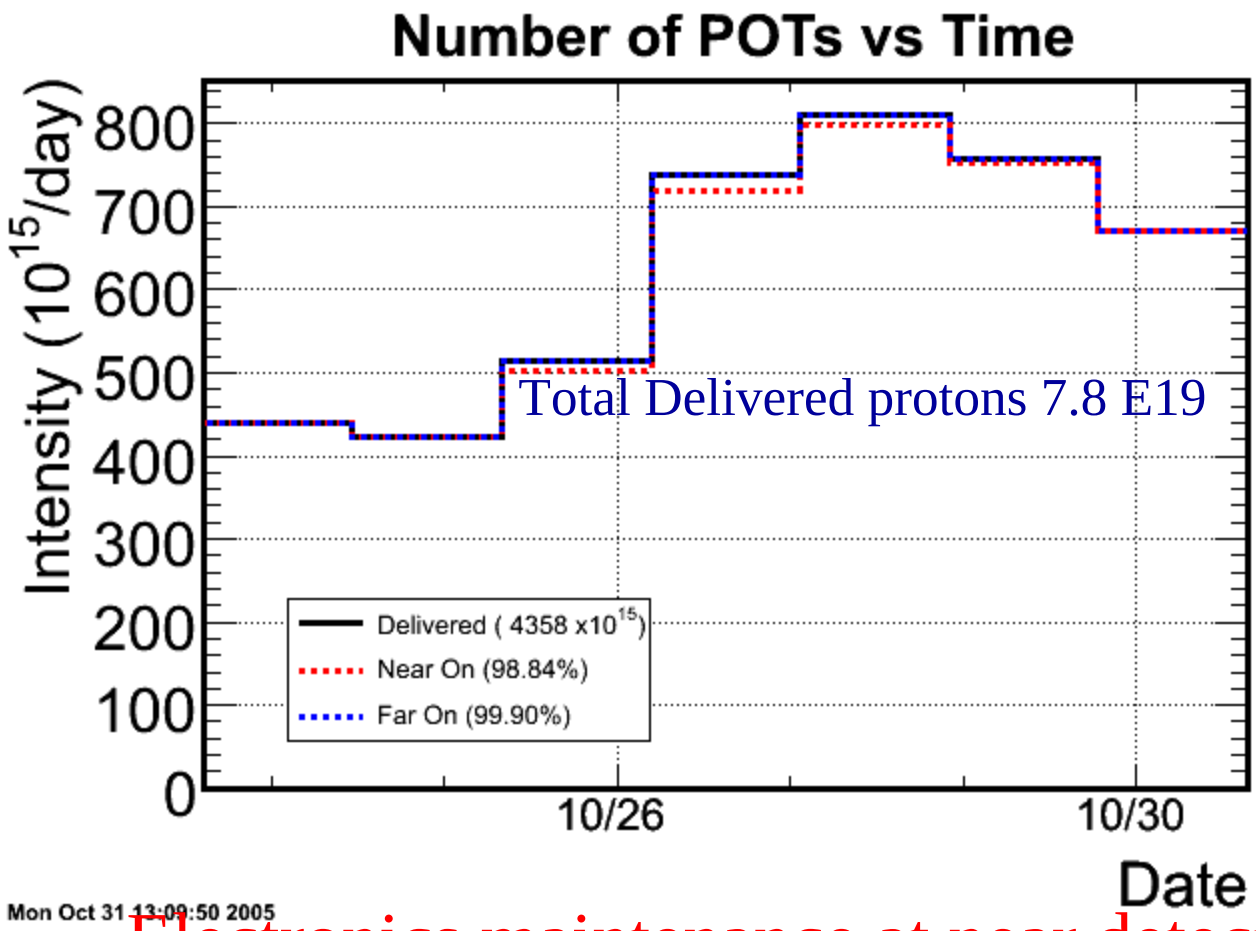
Protons Delivered in Last Week



Protons per Day since 1 May



Detector Performance



Electronics maintenance at near detector

Far detector ~100% uptime.