NuMI

MINOS

NuMI/MINOS Status

Rob Plunkett

MINOS Run Coordinator

Fermilab All Experimenter's Meeting

9 May, 2005

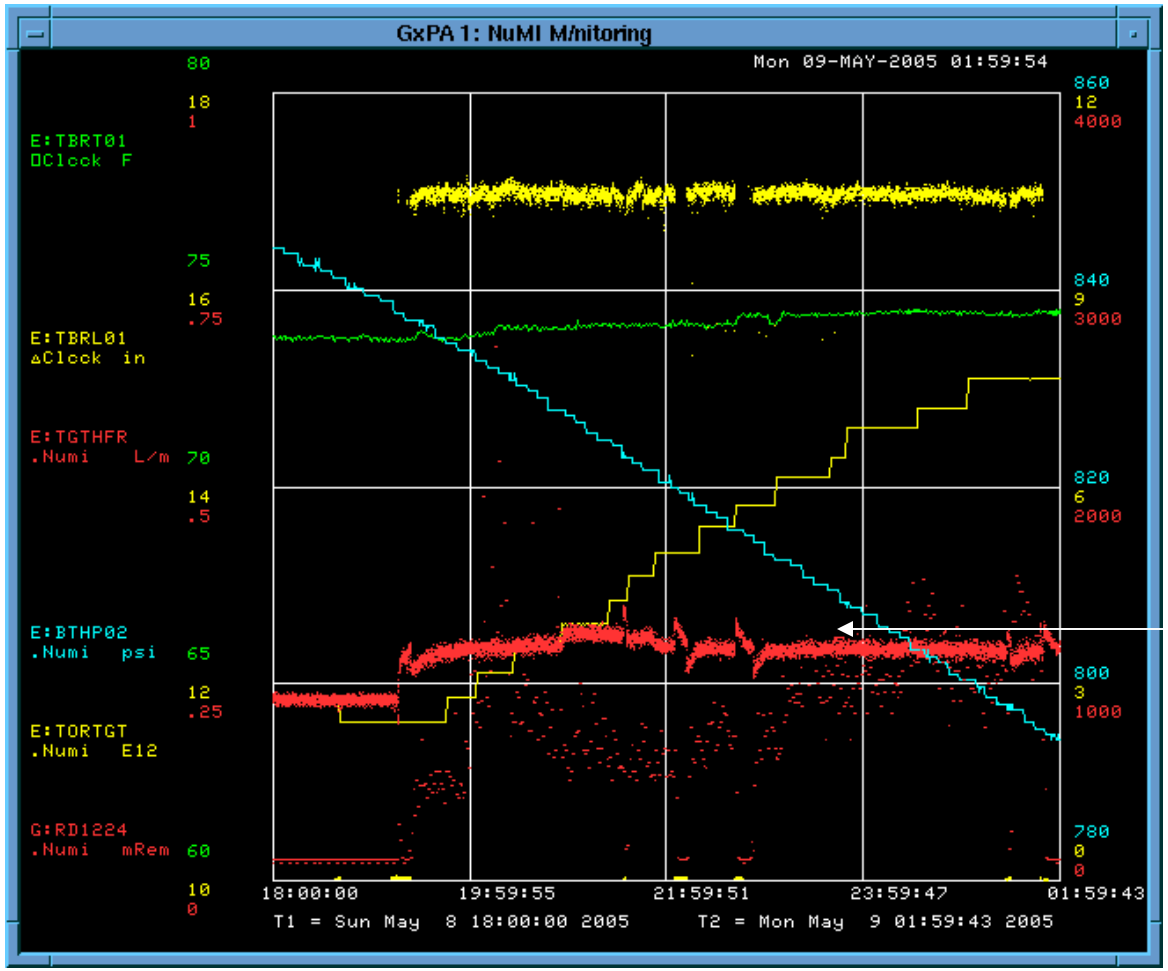
Target and Beam Status

R. Plunkett
Fermilab All Experimenters

- Target water leak has been stably operating under external He pressure
  - Repeated scans show no sign of water in target, only He in water. Direction of flow is inwards.
- Beam intensity has been stably operating at 1.0E13 per pulse, enabling MINOS dataset to be almost doubled in size.
- Instrumentation on He flow rates allows quick feedback on target status.
  - Occasional glitches may be related to He bubbles in water.
  - We have seen one occurrence of possible increase in leak size, which quickly stabilized, did not approach its limit.

Change in He Flow Rate

R. Plunkett
Fermilab All Experimenters



Helium flow rate

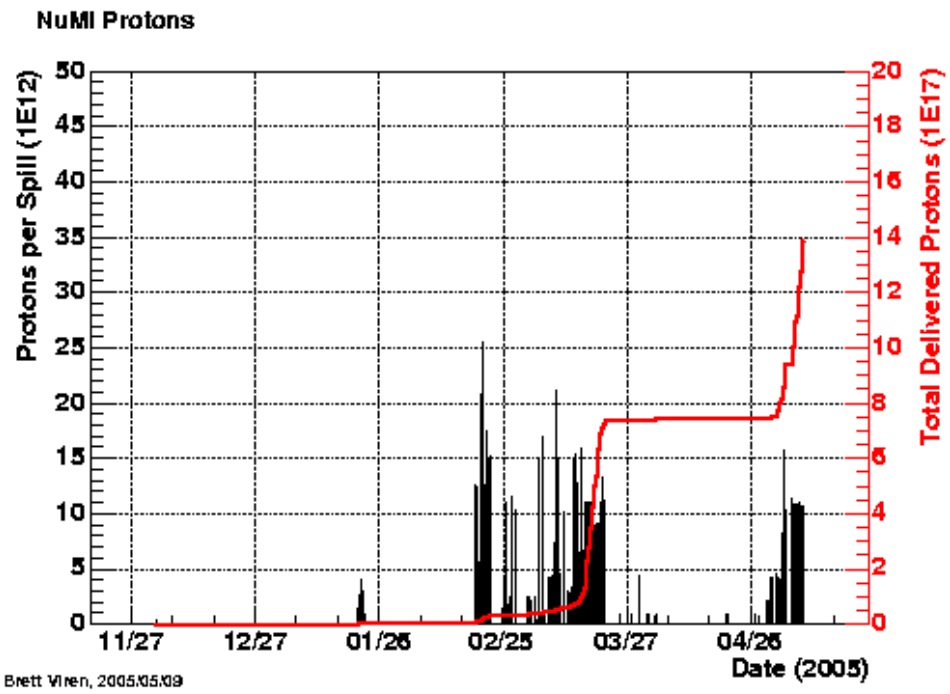
Detector Status

- Performed maintenance on detectors during safety system tests this week.
- Near Detector
  - Fixed nearly the last of residual electronics problems.
  - Began adding additional readout to magnet.
  - One HV problem – spontaneously tripped and reset normally.
- Far Detector
  - One power failure – fortunately during accelerator down time. UPS not entirely successful in keeping things going, required manual resetting of magnet, HV, DAQ.
- 509 visitors for annual open house over the weekend.

Delivered Protons to MINOS

R. Plunkett
Fermilab All Experimenters

Weekly POT 6.08 E17



Detector Efficiencies:

Far beam on ~99%
Far total 95%

Near beam on ~99%

Upcoming Plans

- Continue running with periodic target scans to check for water.
- Optimize target position for experimental program.
  - « Current data at medium energy – probably adequate.
  - « Probably will move to low energy next to begin accumulating data.
    - * But there may be reasons for some running at other positions.
- Always eager participants in intensity increases.
  - « Together with our sincere thanks for all the support.