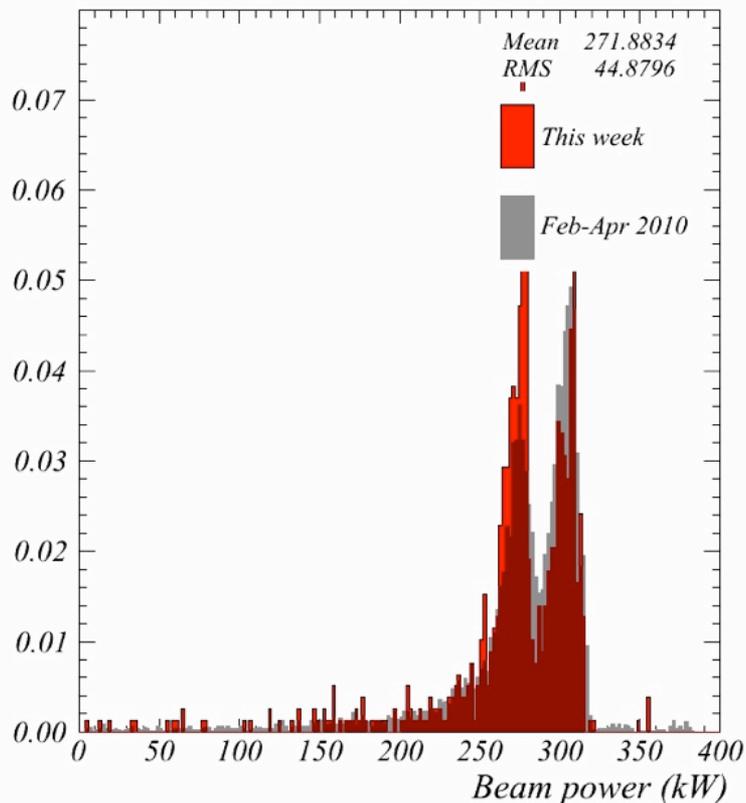


NuMI-MINOS Status Report - Christopher White

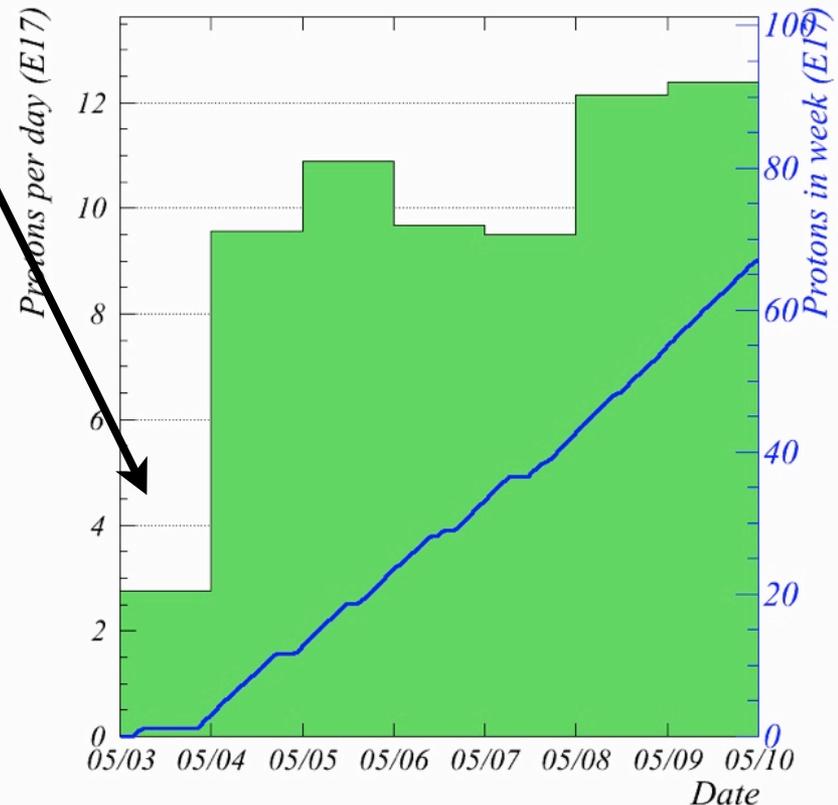
NuMI: A reasonable week for POTs, but a bad week for the NuMI target...

Kicker problems on and off for a while...

Week ending 00:00 Monday 10 May 2010



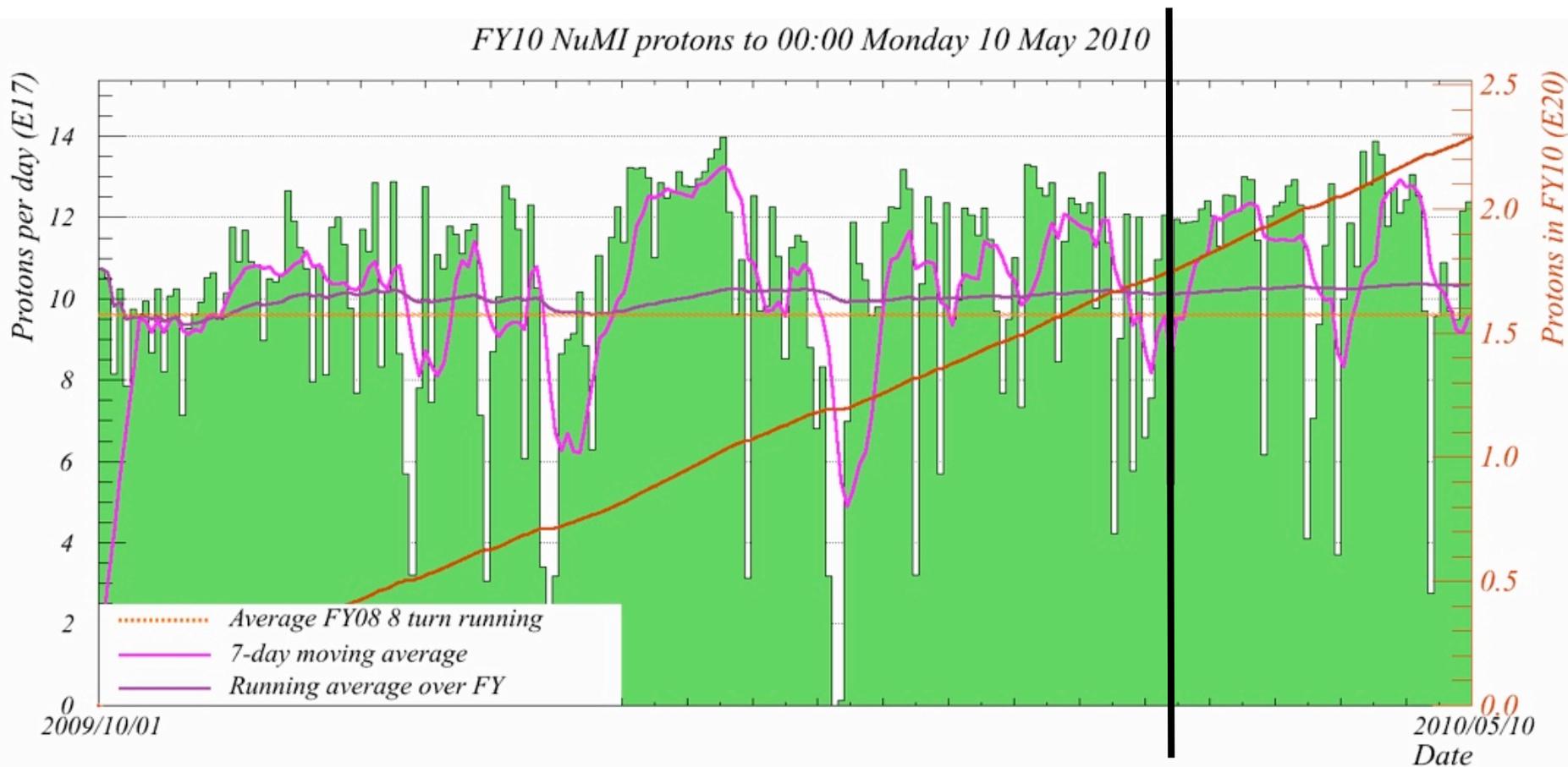
Week to 00:00 Monday 10 May 2010



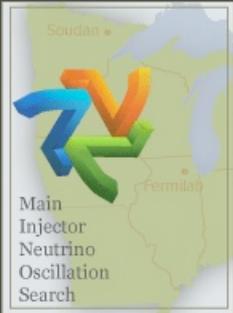
Protons on Target for FY10

RHC: 1.74×10^{20} POT
FHC: 0.54×10^{20} POT

FY09: 2.18×10^{20} POT

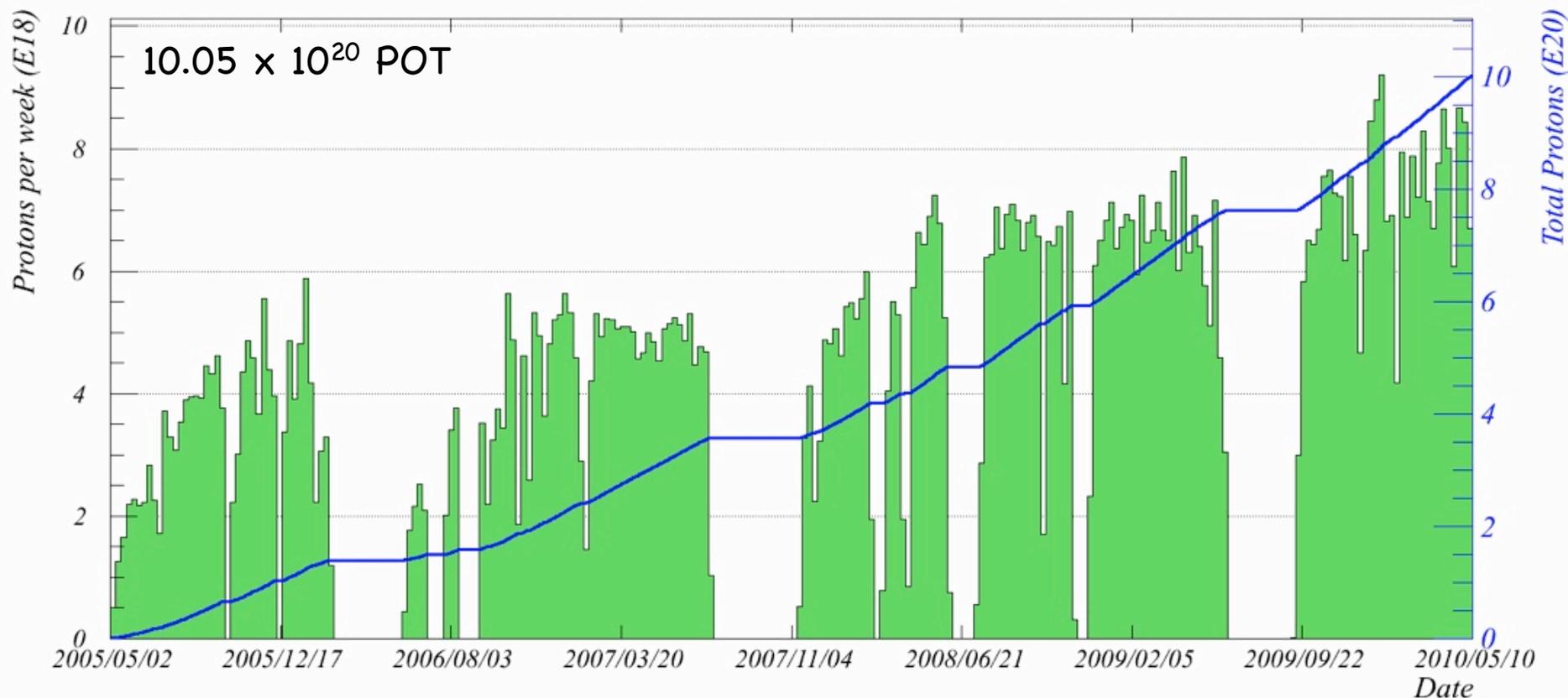


NuMI-MINOS Status Report - Christopher White

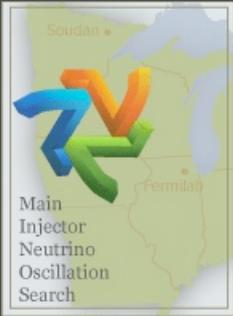


Protons on Target (since 2005)

Total NuMI protons to 00:00 Monday 10 May 2010

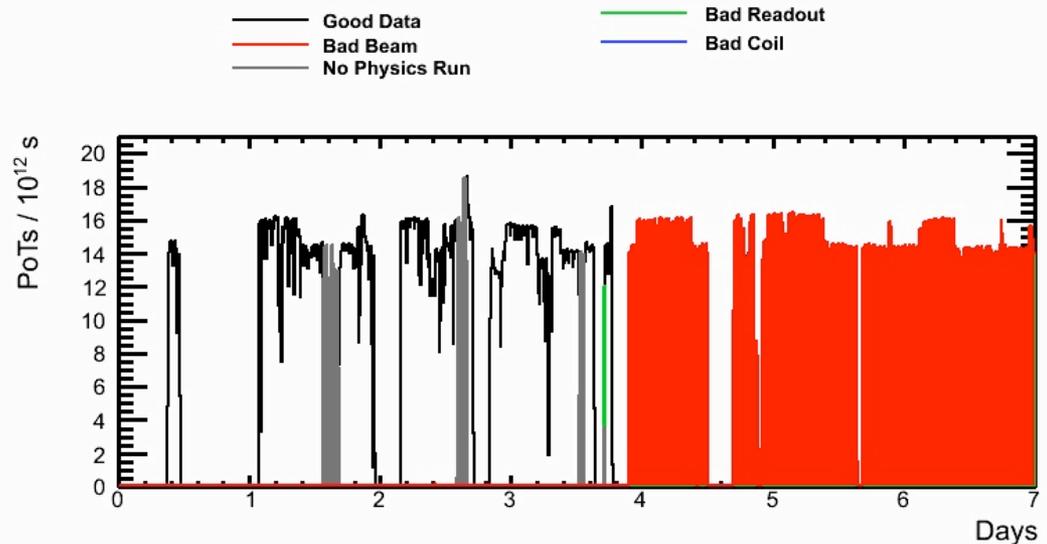


NuMI-MINOS Status Report - Christopher White



Near Detector
95.5% live

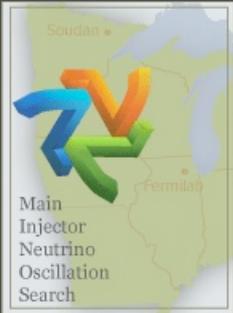
Start: Mon, 03 May 2010 00:00:00 End: Mon, 10 May 2010 00:00:00



Scheduled DAQ training in the UK during the AM hours at FNAL last week.
Joint MINOS/Minerva/FNAL effort to increase local DAQ expertise.

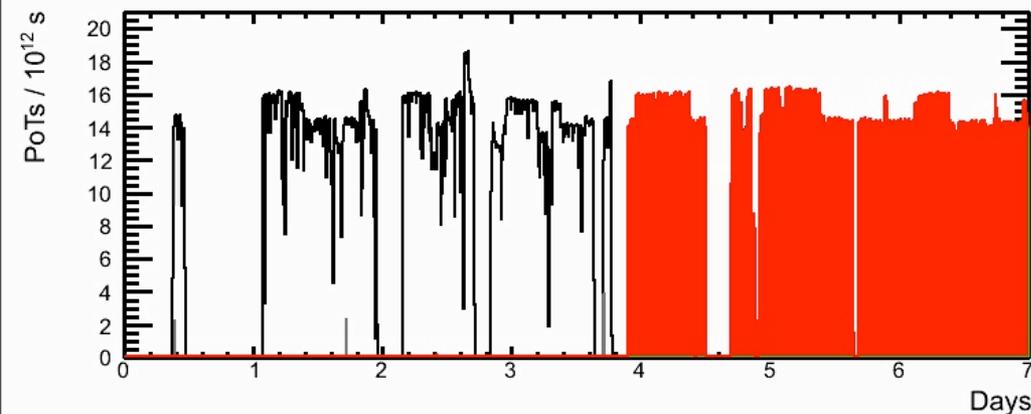
Assortment of hot and noisy channels that were reset and re-calibrated (normal).

NuMI-MINOS Status Report - Christopher White



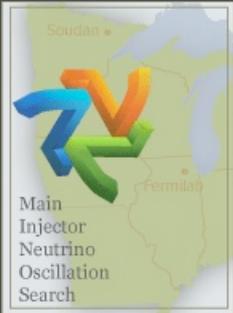
Start: Mon, 03 May 2010 00:00:00 End: Mon, 10 May 2010 00:00:00

— Good Data
— Bad Beam
— No Physics Run
— Bad Readout
— Bad HV/Coil
— Bad GPS



Far Detector
99.5% live

Intermittent network problems persist... An annoyance for now but could be serious trouble at any moment. An upgrade has been in the works for years. We sincerely hope to secure funds, procure equipment, and complete the upgrade before the end of the summer shutdown.



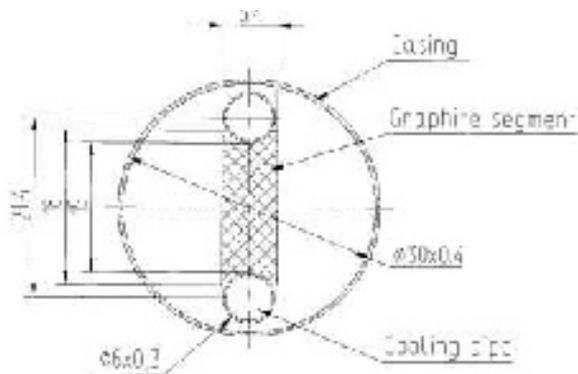
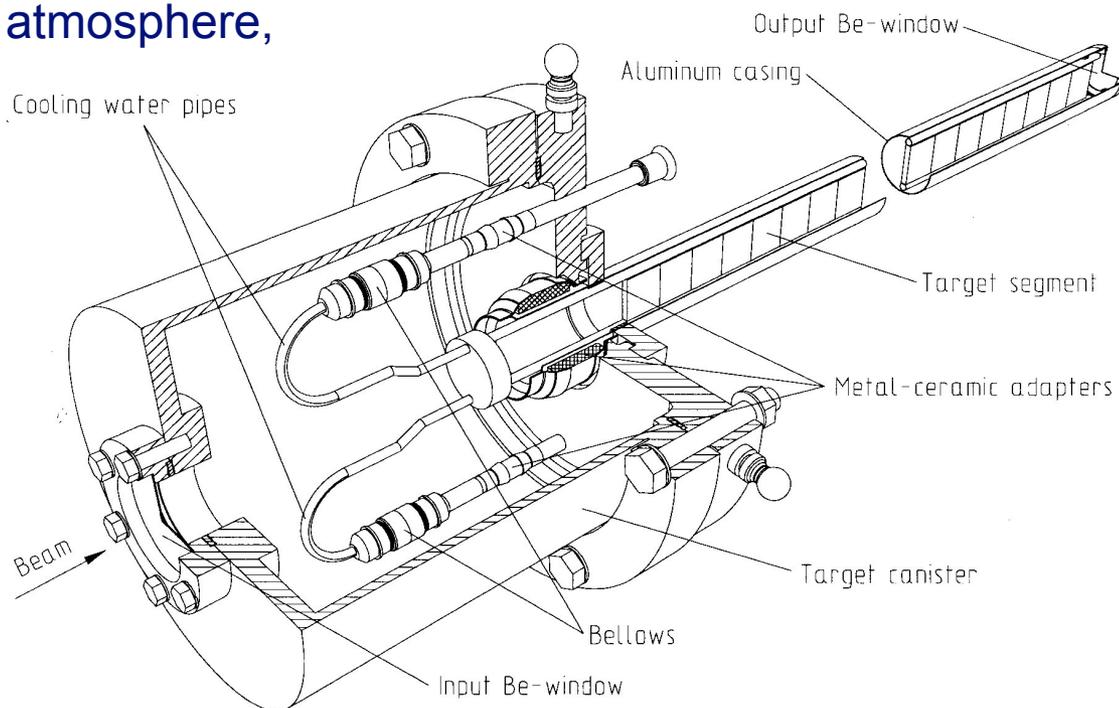
NuMI-Target

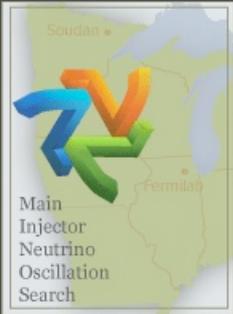
Graphite Fin Core
(6.4 mm x 15 mm x 20 mm) x 47 segments

Water cooling tube also provides mech. support
(steel soldered to graphite)

0.4 mm thick Aluminum tube (He atmosphere,
Be windows at U.S. and D.S. ends)

Ceramic electrical isolation





NuMI-Target Problems

May 1st it was noticed that a He leak had developed. Beam-permit trip late on May 4th

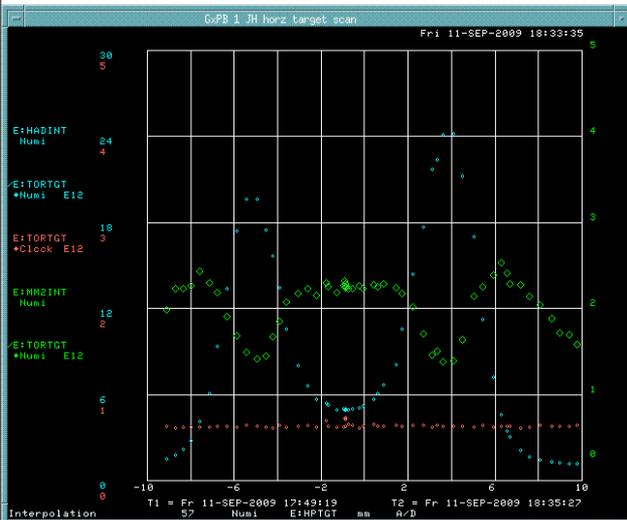
A few hours later, beam was restored. Shortly thereafter - a step-function develops in the rates for the muon and hadron monitors.

A beam scan (“x-ray”) of the target on May 6th verifies that the target has shifted.

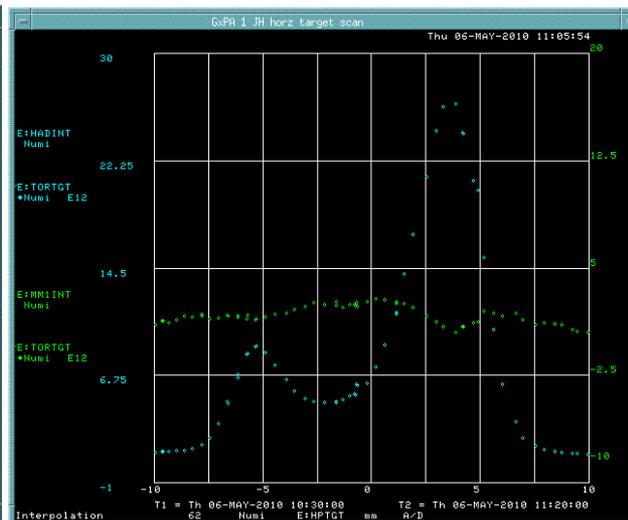
Transverse motor drive was used to re-position the target horizontally.

We’re collecting and carefully examining our data before deciding on the next step...

Scan from 9/09



Scan on May 6 (AM)



Scan on May 6 (PM)

