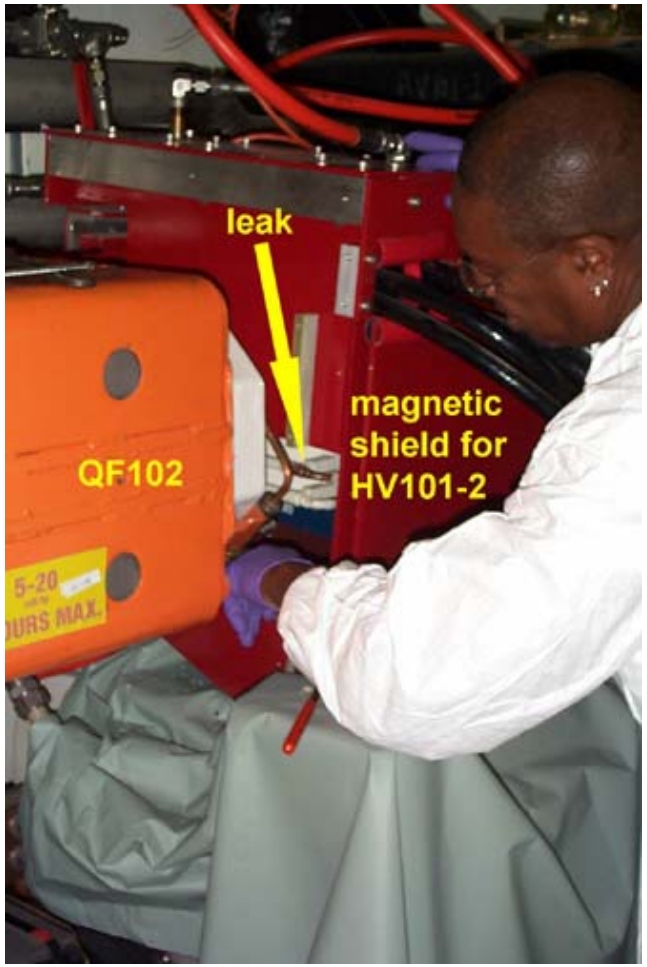
NuMI/MINOS: Oct 9-16 '06

- Successful repair of HV101 water leak in situ at beginning of TeV down time!!
  - « Would have been a several day magnet replacement effort if this had not been successful.
- Resume NuMI beam operation (6 batch NuMI only mode late on Wed. Oct.11.) Then 2+5 batches from Friday Oct.13.
  - « Several hours of downtime on Friday for HV101 Power supply repair
- NuMI beam power increased from ~ 150 kW (with I- source problems) to 230 - 260 kW for much of week-end
- Excellent uptime for MINOS near & far detectors >99%

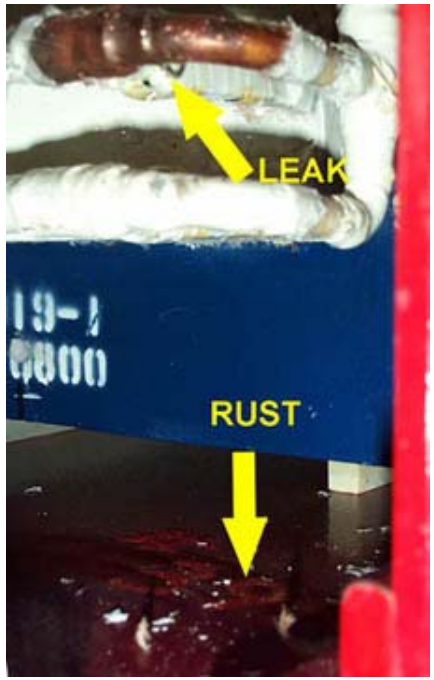
NuMI

MINOS

HV101-2 Water Leak Repair



Very fortunate in several respects: Leak was accessible and at a braze joint.

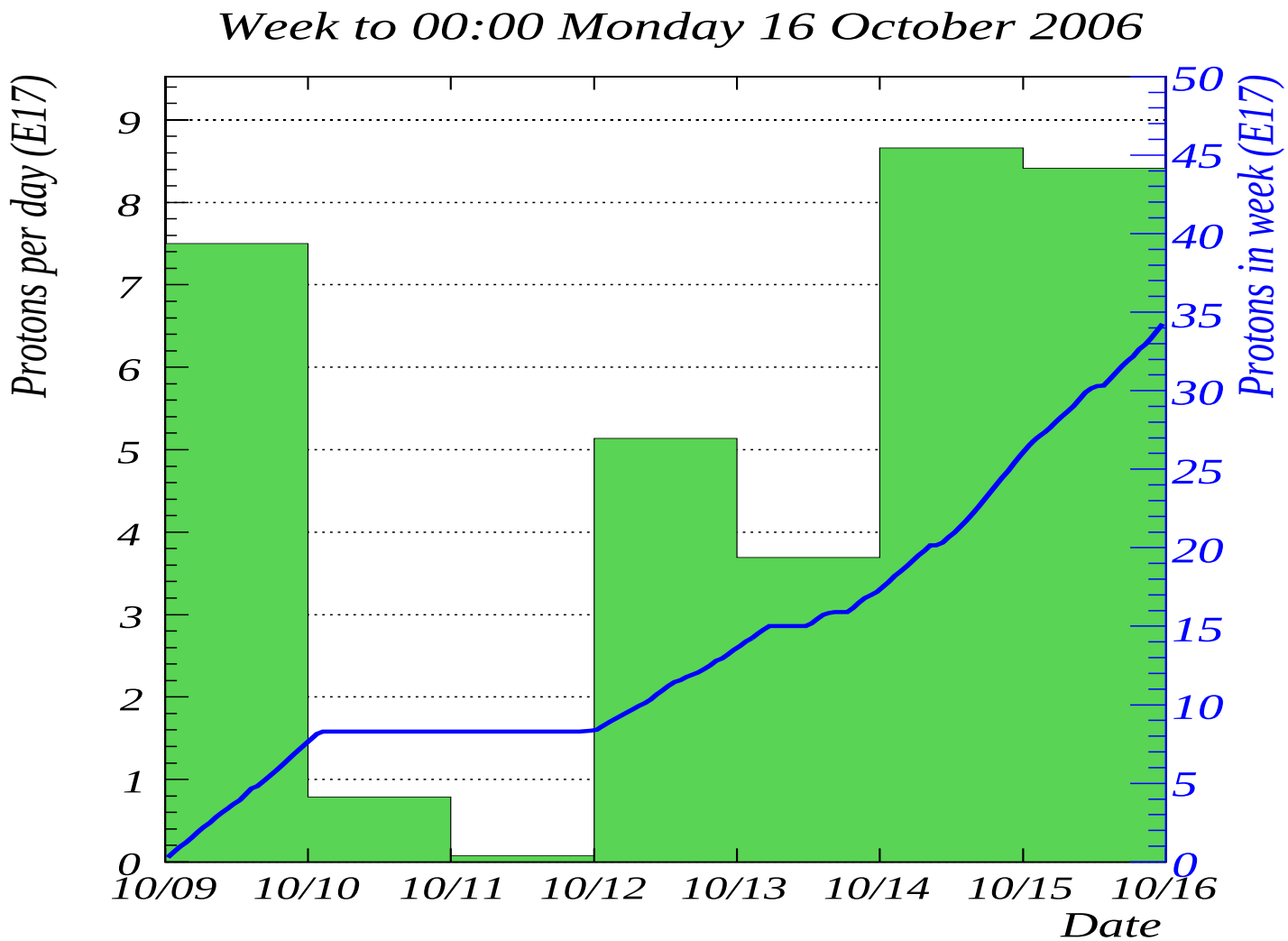


Magnet is tightly positioned between MI and Recycler. Difficult access to remove/install, and also would have to remove/install dual fringe field protection shields

NuMI

MINOS

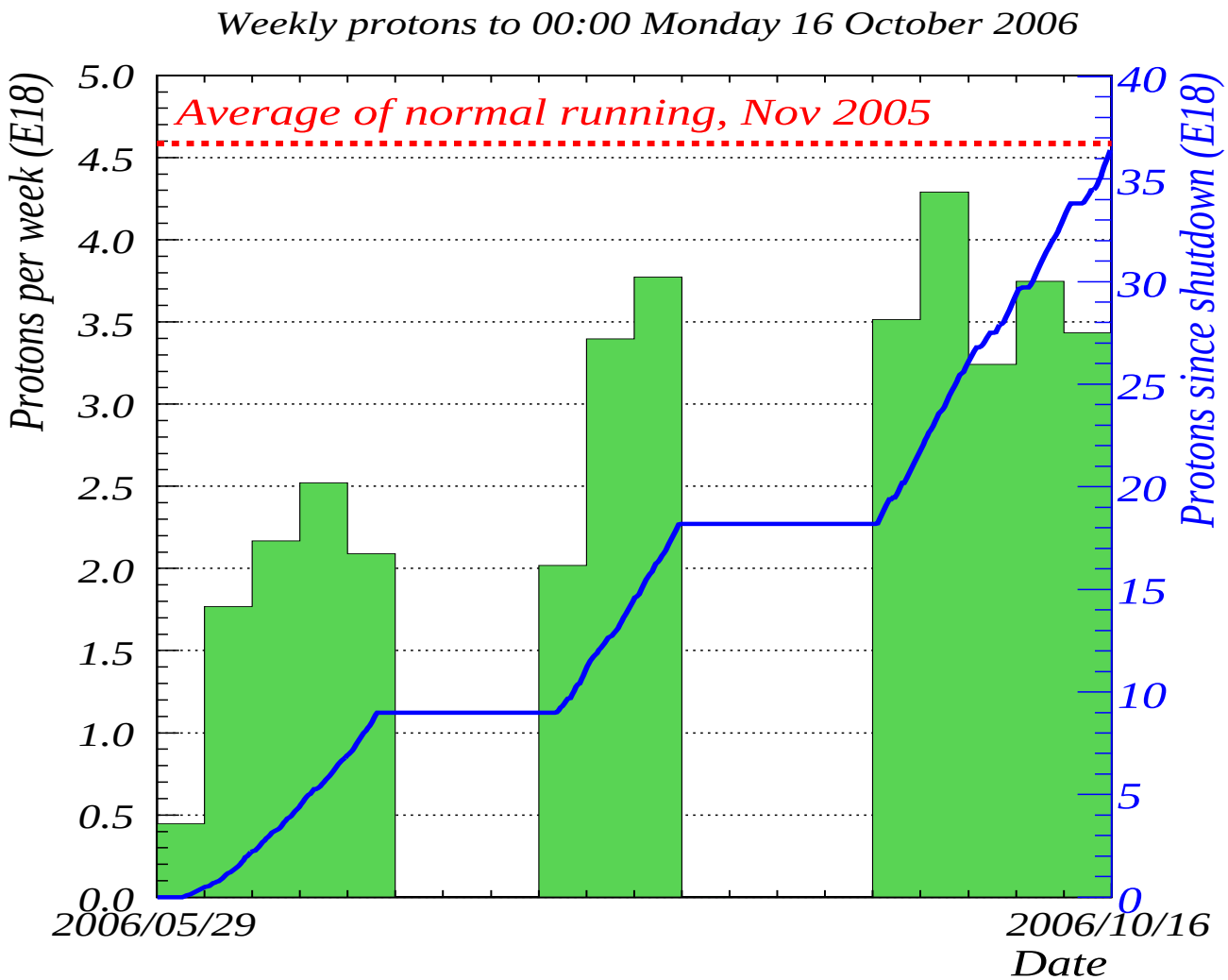
Weekly Protons – 3.43E18



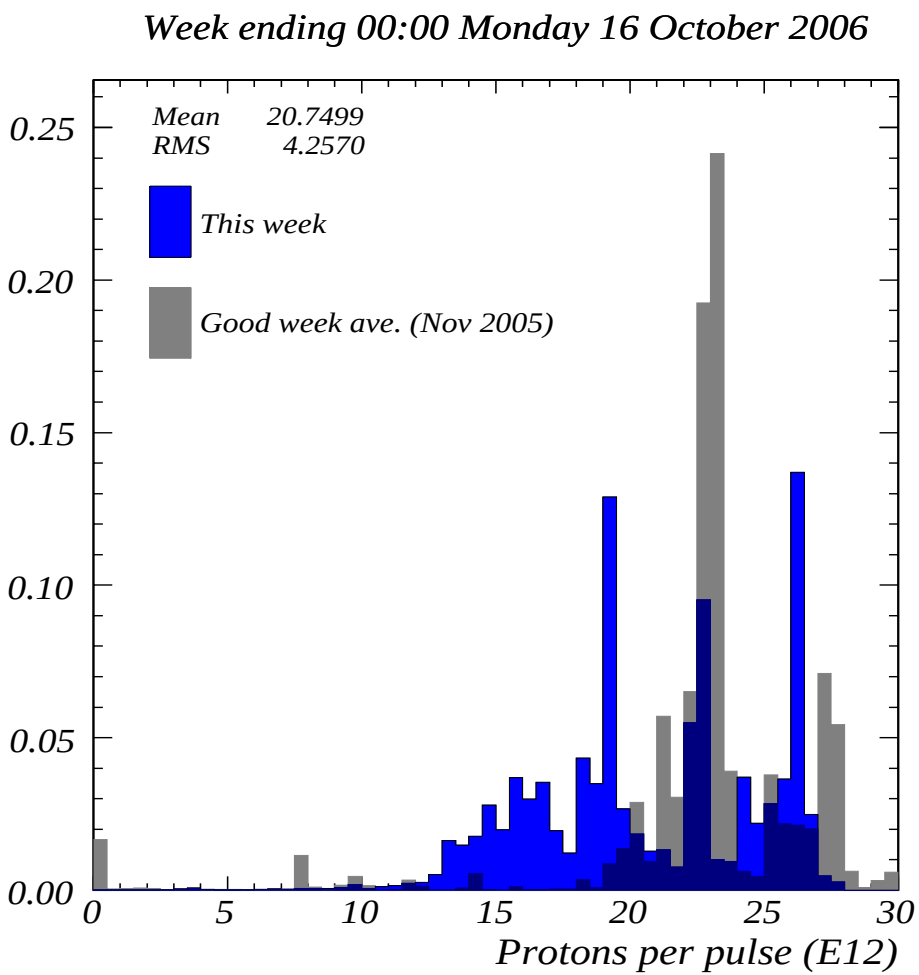
NuMI

MINOS

Weekly Protons since Shutdown



Protons/pulse



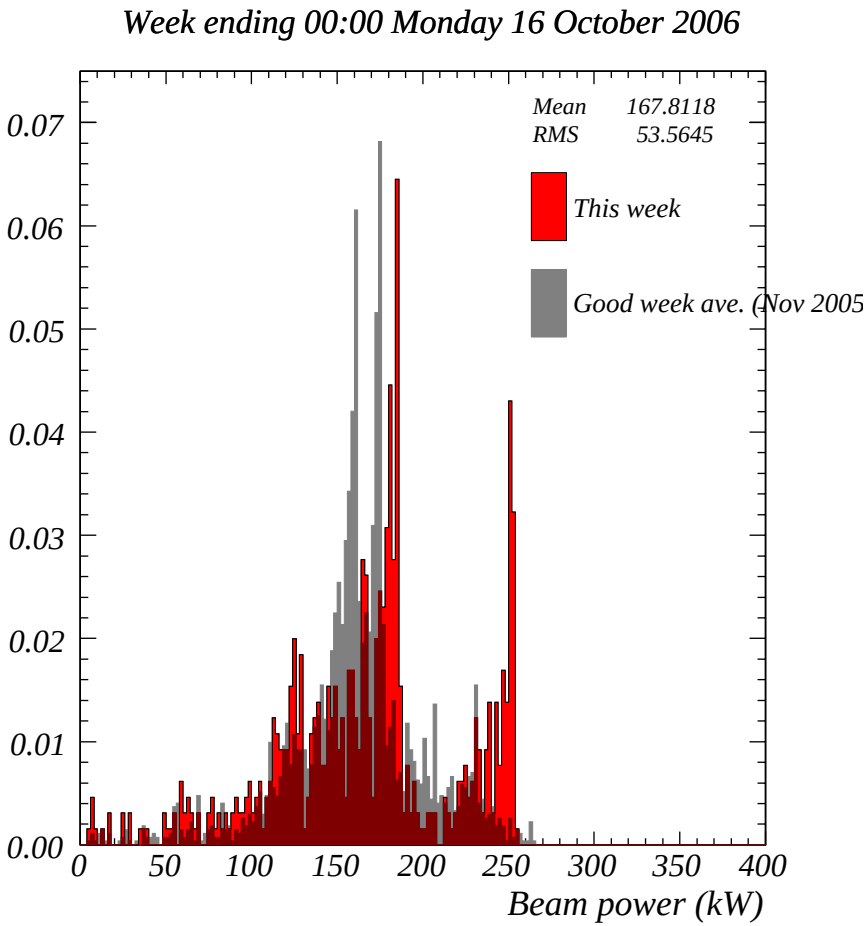
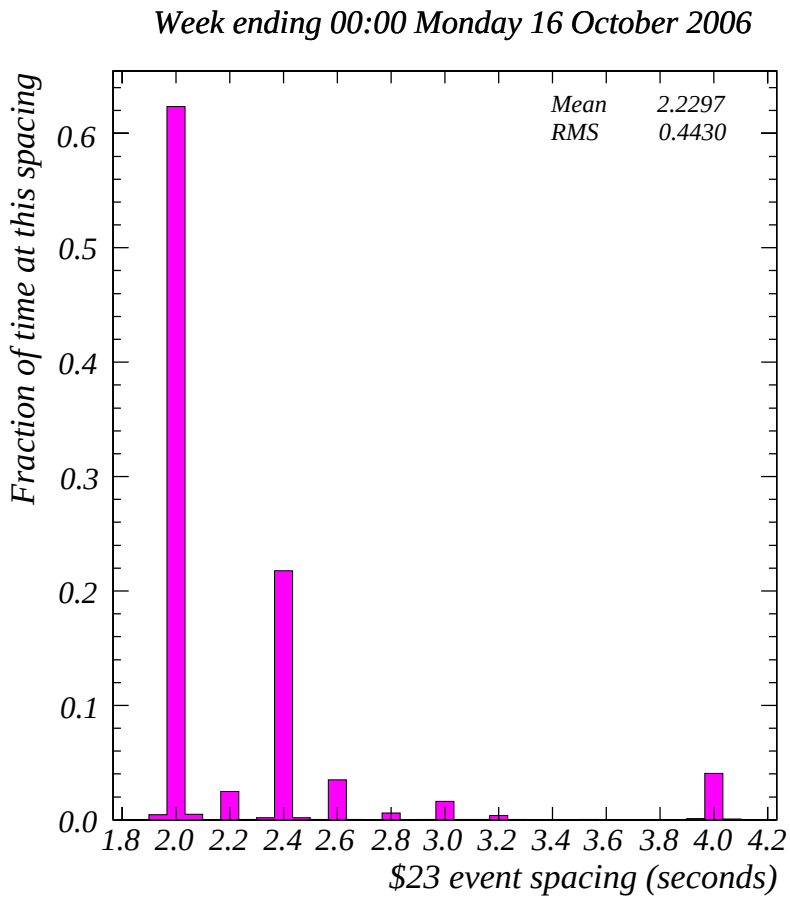
Maintained good intensity thru most of Linac source problems:

2 Keys for this:

Ran since Friday with 2 + 5 batches to NuMI (1st two slip-stacked. *(Thanks to Kiomi Seiya & Phil Adamson)*

At worst of I- source problems, ran with up to 18 Booster turns to NuMI *(Normal max. ~ 12 turns)*

NuMI

MINOS

Beam Power & Cycle Spacing