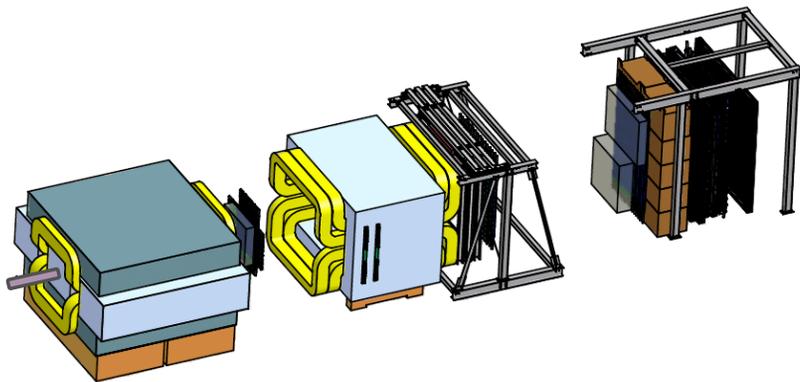
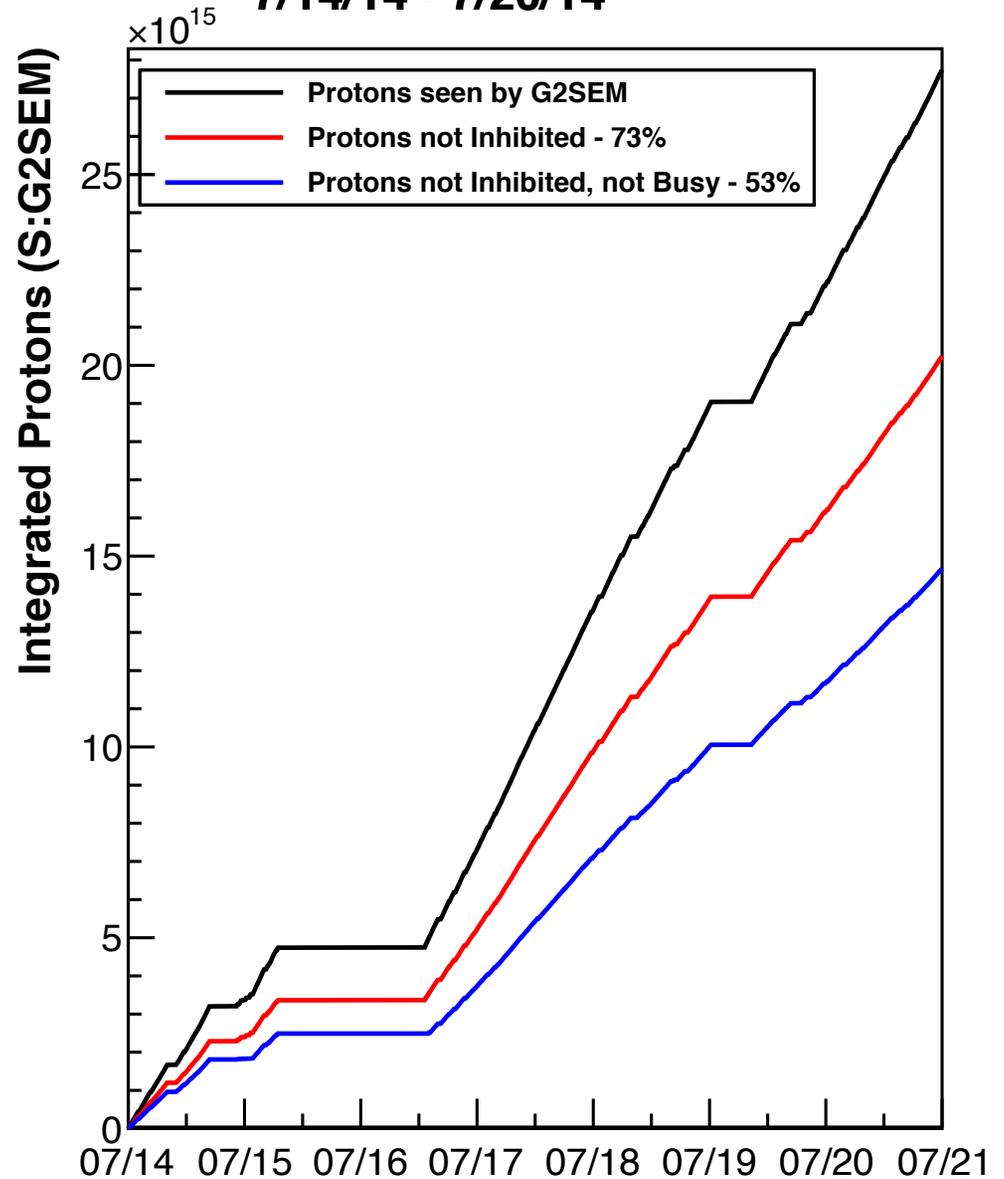


# SeaQuest Status:

- Data collection generally going very well.
- Beam steady  $\approx 30\%$  duty factor and  $\approx 4.8 \text{E}12 \text{ppp}$

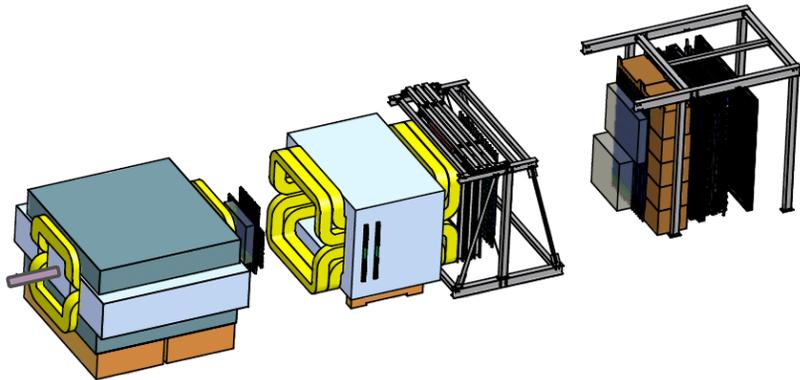


SeaQuest Integrated Protons  
7/14/14 - 7/20/14

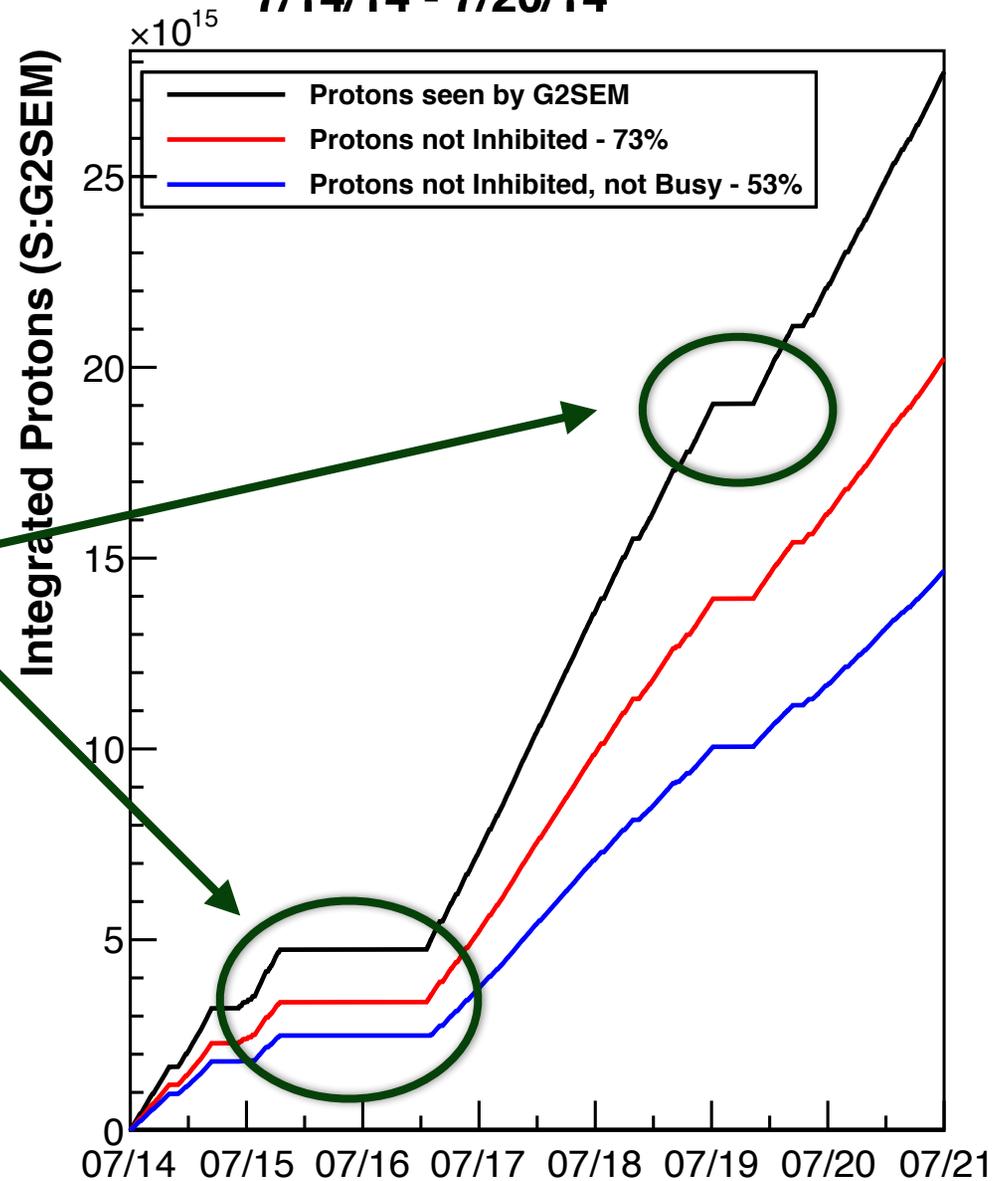


# SeaQuest Status:

- Data collection generally going very well.
- Beam steady  $\approx 30\%$  duty factor and  $\approx 4.8 \text{E}12 \text{ppp}$
- We had a two intervals with missing slow-control feed... data recoverable, but this is inconvenient. Working on fix.



SeaQuest Integrated Protons  
7/14/14 - 7/20/14



# KMAG water leak...

... discovered during opportunistic access Monday evening. Supply-side hose cracked at input barb.



Hose was repaired and reattached. >20 gallons water was vacuumed-up and soaked up. **With the help of AD Fluids, Ops, and fire department (THANKS!), we were running again within four hours.**

# Turn 1 3=4 test

- Expected to increase beam intensity by  $\sim 1/3$  compared to our nominal three-turn injection
- Wednesday afternoon, we received an hour of beam using four-turn injection into booster.
- $G2Sem \approx 6.3E12$  ppp (vs. typical  $4.8E12$  ppp). *SeaQuest design:  $1E13$ .*
- Accepted triggers/spill increased by  $\approx 25\%$
- SeaQuest hodoscopes and drift chambers show no reduction in efficiency.
- Onset of saturation in Cherenkov monitor visible in Cherenkov-sum/G2SEM. Adjusting PMT attenuation this week.

**SeaQuest would like this as new nominal running.  
Waiting to hear about radiation impact on MI52.**

# Plans for this week:

- Tuesday-Wednesday shutdown work
  - ▶ Target-cave flammable detector will be moved from East to West side of NM4 to reduce dose.
  - ▶ Hydrogen target supply-side pressure gauge will be replaced.
  - ▶ Cherenkov monitor will have an additional attenuator added to prevent saturation at higher intensities
  - ▶ Reconfigure scalers used to compute hodoscope-based (secondary) duty factor to use lower-rate counters.
- Continue taking data.