

SeaQuest Status

Jan 5-11, 2015

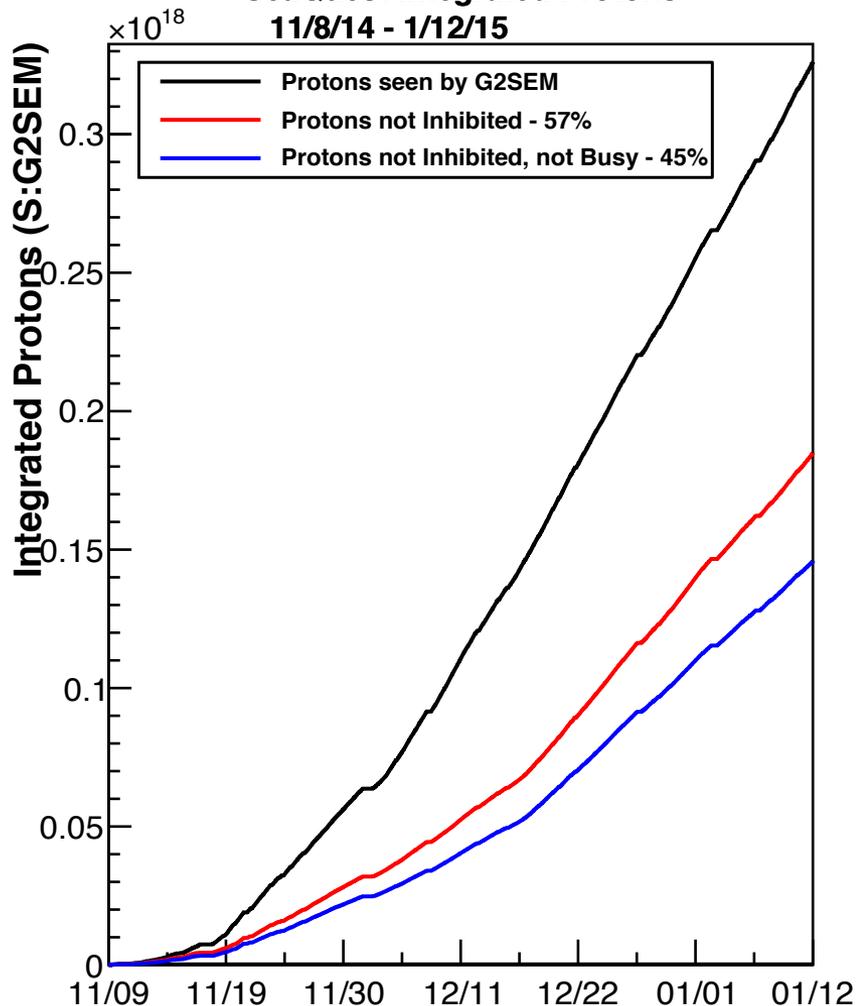
Brian Tice

Jan 12, 2015

Run III

SeaQuest Integrated Protons

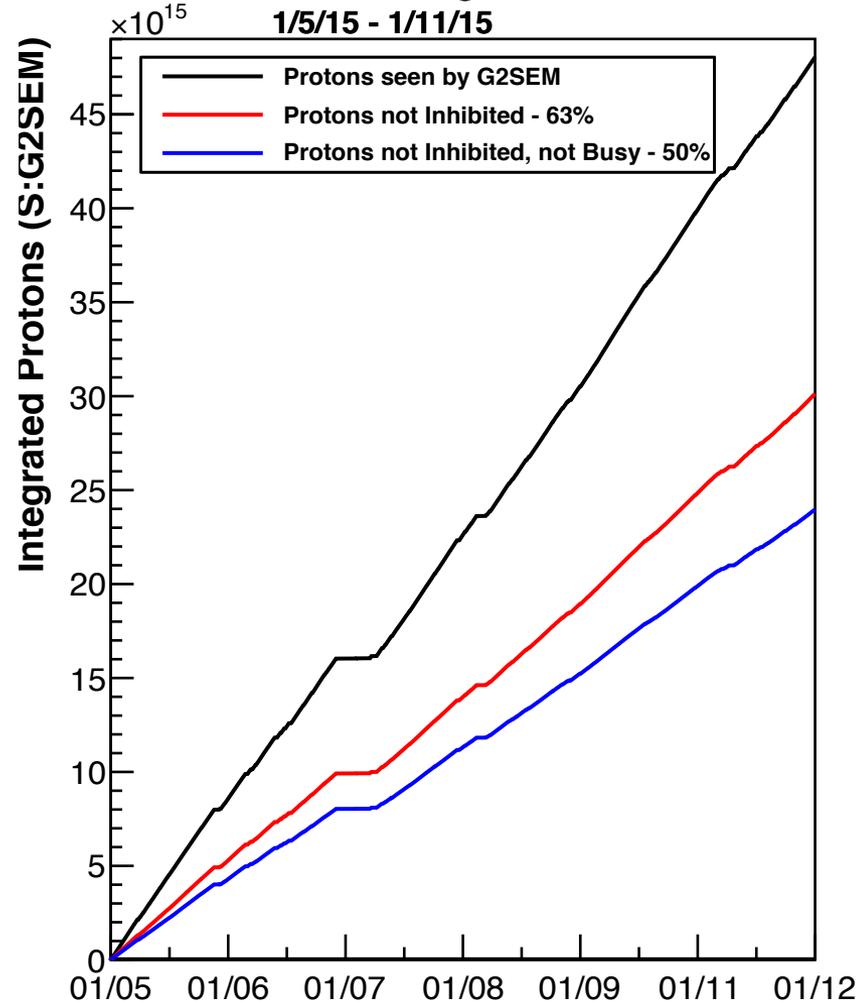
11/8/14 - 1/12/15



Previous Week

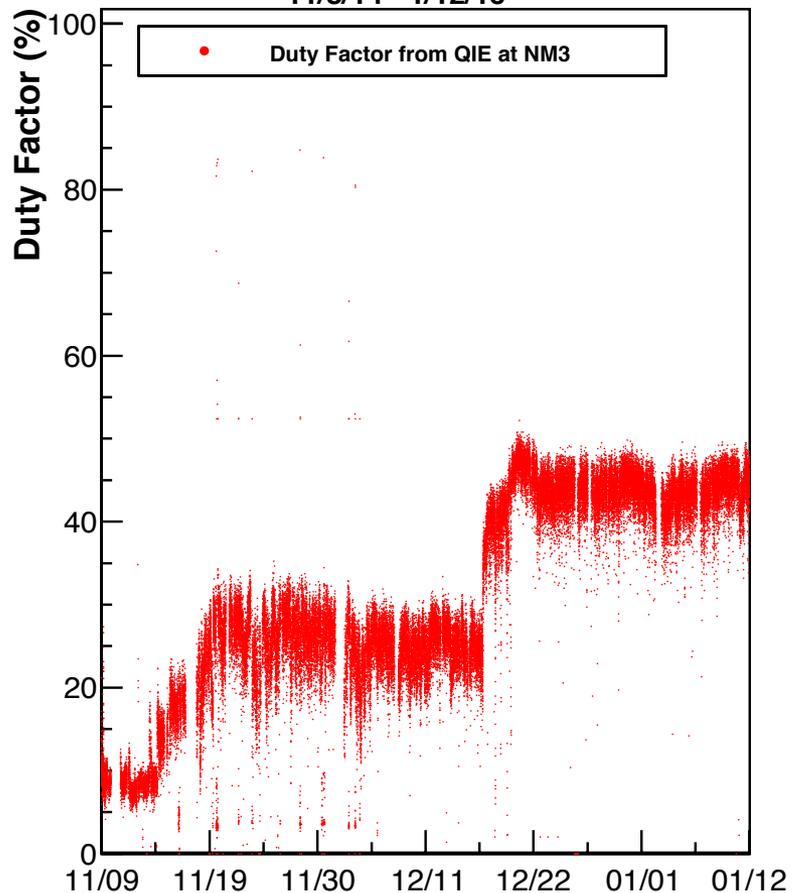
SeaQuest Integrated Protons

1/5/15 - 1/11/15



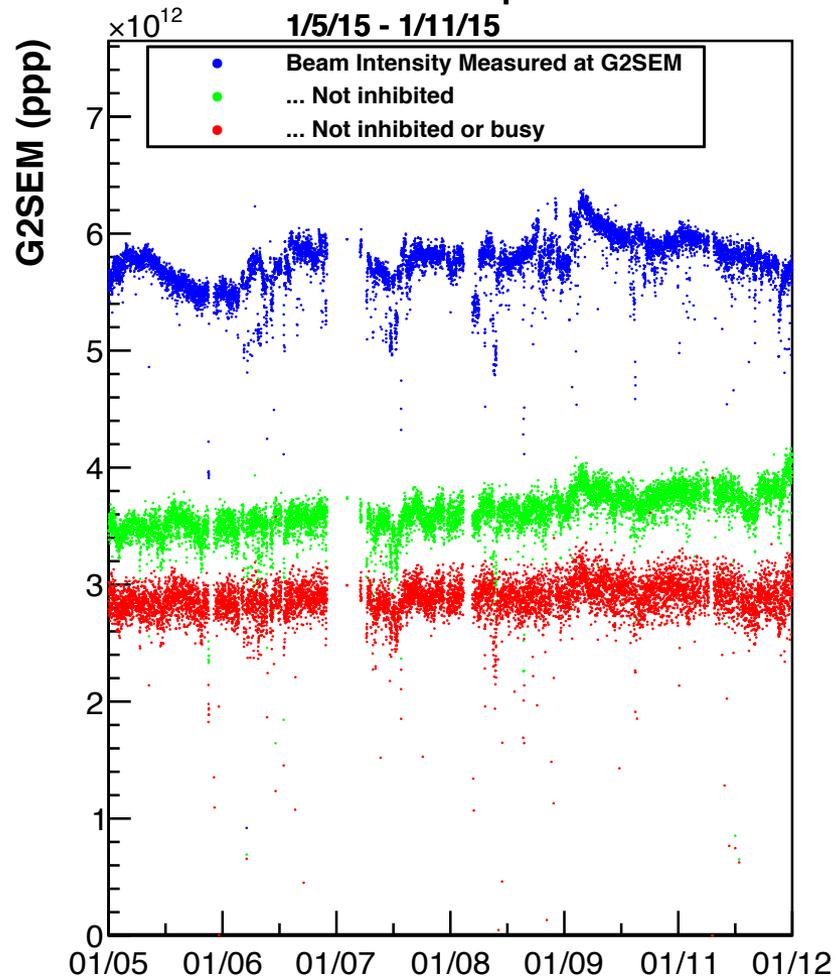
Run III

SeaQuest 53MHz Duty Factor
11/8/14 - 1/12/15



Previous Week

SeaQuest Beam per Pulse
1/5/15 - 1/11/15



Target System - D2 Cryotarget Issues

- ▶ Flask pressure sensors
 - Calibration drifting for 1 of 2 redundant D2 flask sensors
 - Replacement will be installed this week
- ▶ Vacuum problems last week
 - ▶ Tuesday night
 - ▶ Insulation vacuum around D2 flask became spoiled
 - ▶ Causing system to fall back from diffusion to mechanical roughing pump
 - ▶ Some D2 boiled and released by relief valve. D2 target not completely full.
 - ▶ D2 removed from target rotation
 - ▶ Wednesday
 - ▶ Tested diffusion pump and gate valve, returned to normal operating state
 - ▶ Thursday
 - ▶ Topped off D2 to completely full and resumed standard data taking
 - ▶ No problems since
 - ▶ Updated the procedure for handling this issue



Current Status

- ▶ Detector and magnets operating well
- ▶ Target system working well now
 - Maintenance tomorrow
- ▶ Beam maintaining last month's increased quality is very beneficial
- ▶ Network issues intermittent starting yesterday
 - Data relies on target computer, which is on FNAL public network
 - Have installed a 2nd network switch to break reliance on public network
 - Not clear if the new target network switch will solve *this* problem
- ▶ DAQ is good, except when network is flaky

