



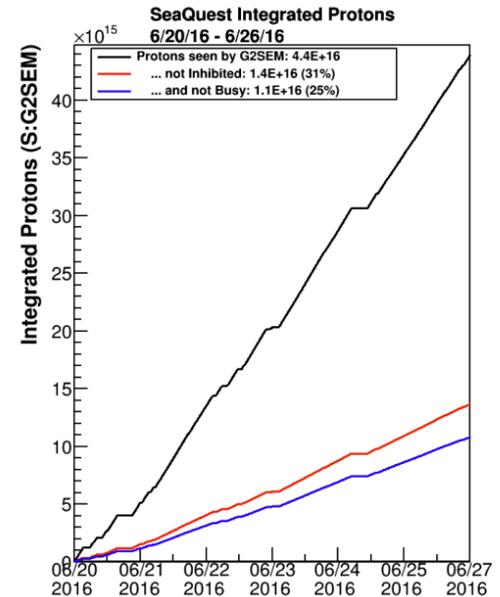
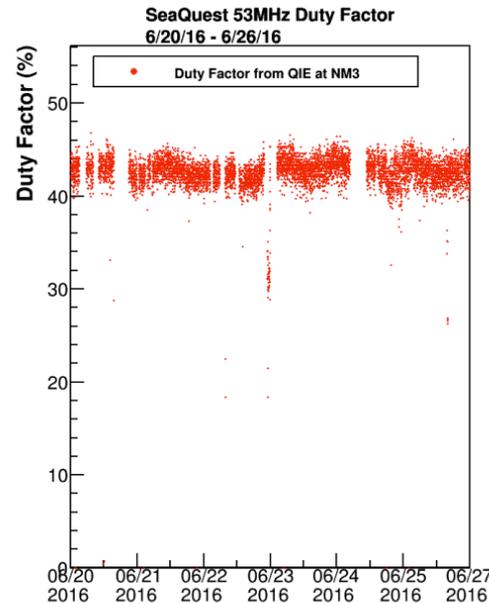
SeaQuest AEM report

June 27th, 2016

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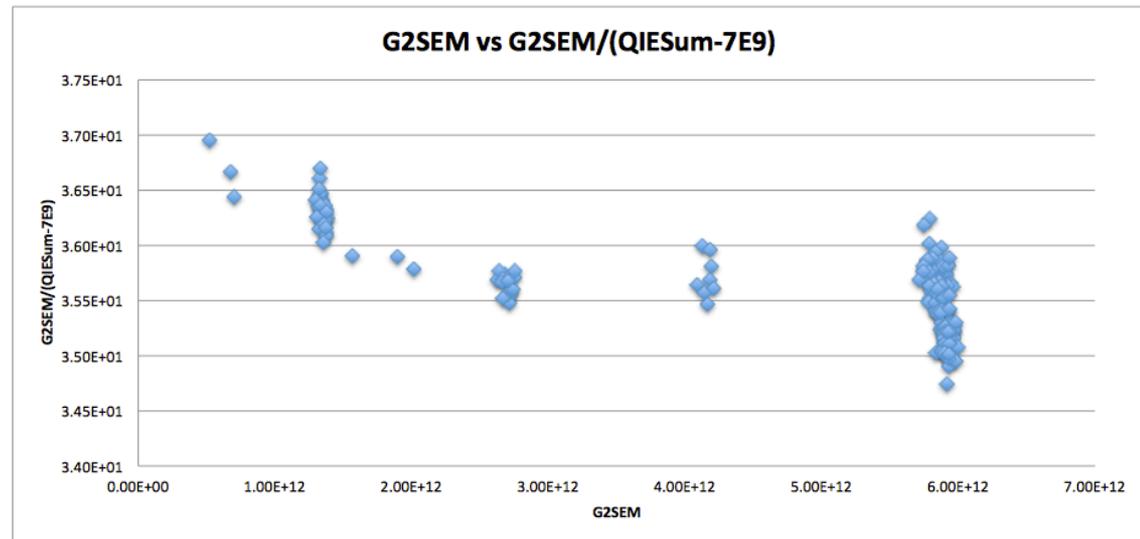
Beam, integrated protons and duty factor

- 4.4e16 ppp provided to SeaQuest during last week with intermittent beam issues
 - Oil in Septa in MI52 overheating issue
 - Booster cogging front issues
 - Power supply down on
- Intensity studies completed on June 23rd



Cerenkov counter + QIE readout issues

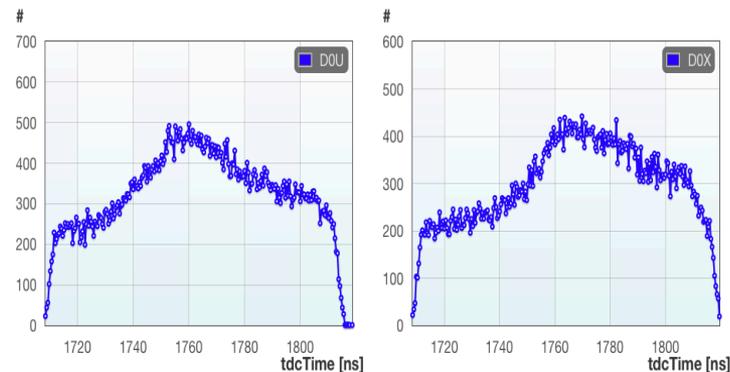
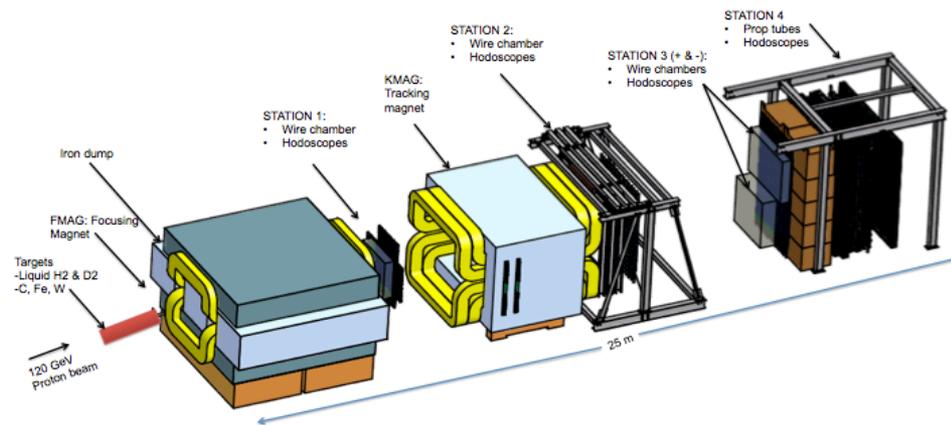
- QIE data missing since June 3rd – 20th
 - Microcode problems
 - Ribbon cable connected wrongly
- Intensity scan done on Jun 24th to make sure that the QIE is working as expected



G2SEM/QIE sum ratio is reasonably constant over a wide range of beam intensities

Spectrometer

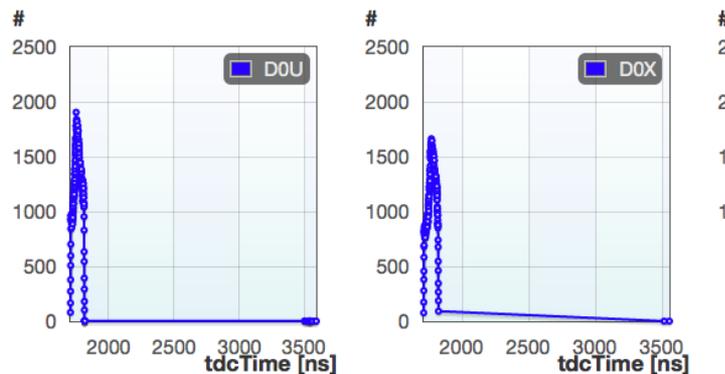
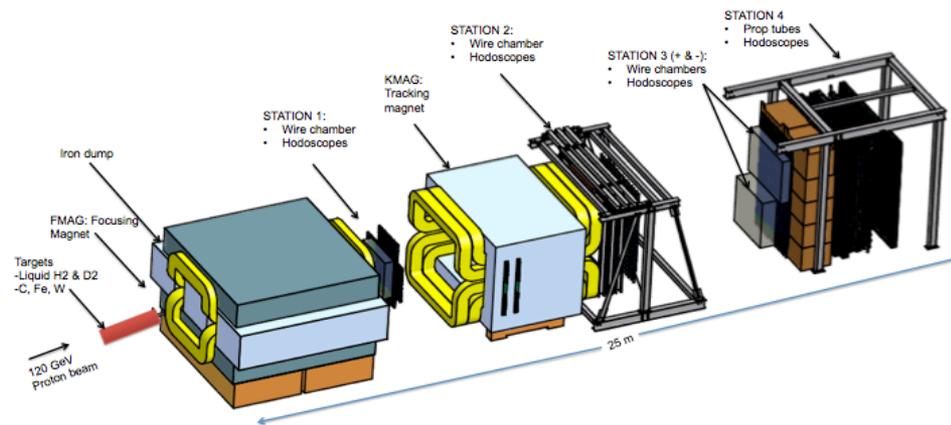
- Cerenkov
 - Problems reported in the previous slide
- Targets
 - Occasional EPICS script issues
- Magnets
 - LCW temperature being monitored
- Drift chambers
 - D0 ✓
 - D1 - occasional CAEN module trips ✓
 - D2 - occasional trips
 - D3+ & D3- ✓
 - Occasional readout issues with the TDC time windows (known problem)
- Hodoscopes
 - Bad PMT replaced H2T11
 - H2T11 and H2B1 seem to be inefficient
- DAQ
 - Occasional BeamDAQ and MainDAQ crashes
 - Scalar DAQ issues fixed by active night shifters!



normal tdc spectra

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Bogus events observed in the tdc time plot

Plan

Continue taking good data!