E906/SeaQuest Status

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Beamline

Beamline:
• Bermpipe sleeving: beam pipe fabricated
  – Delivery of pipe expected end of May
• Beam delivery still on schedule for mid-August.

Cerenkov Monitor:
• Fabrication underway.
• Analysis/monitor code 75% complete. Awaiting readout board fabrication.
Targets & Magnets

Targets
• Spare flasks fabricated. Cleaning with vinegar.
• Some problems:
  – leaking pneumatic valve (fixed)
  – malfunctioning water chiller (work on-going)
  – vacuum pump (need tech help)

Magnets
• FMAG ramped up to 2000A with no problems.
Detectors

Wire Chambers:

• Repair of old St1 chambers underway ➔ foil ripped during repair. Repair of repair underway.
• New St1 chamber frame constructed and stress tested. Wire pulling to start soon.
• New St3m chamber completed – Install in hall late May.
• St3p chamber re-installed inside hall.

Hodoscopes:

• New PMT base prototype fabricated and tested.
• Mass production to start soon (May)
DAQ/Electronics

• New TDC FPGA code completed:
  – tested with ST4 hodoscopes and proportional tubes. Expected drift curve seen. Awaiting re-installation of other wire chambers/hodoscopes for further tests.

• Re-working trigger electronics (remove mean-timers, add cliplines, adjust discriminator thresholds).

![Graph showing drift curve and tdcTime]
Software/Analysis

Software:
• web-based online monitoring software in development
• shift-taker’s realtime monitoring software in development

Analysis:
• monte-carlo to include more realistic noise (dark current, cross talk, etc) to be able to do better at tracking.
• track seeding for reconstruction
• sagitta method implementation
• grid computing