

SeaQuest Status – Shutdown 2014:

Addition of shielding wall in progress:

- Intended to reduce dose on east electronics racks and downstream rad monitors
- Some target plumbing was dismantled to make room.
- Overhead air duct was removed
- Three blocks in place, four to go... waiting on engineering approval to stack two blocks high.
- Thanks to PPD engineering and FESS



The New Station IDrift Chamber



- Hard work in progress in Lab 6
- ≈ 100 wires were broken in during transport from Colorado. These were largely in a known-to-be problematic plane.
- 80 remain to be repaired at a rate of $\approx 6/\text{day}$.

Target maintenance



displacer from
hydrogen target
cold-head assembly

Long to-do list, but a number of major items are being wrapped up this week:

- Cryocooler cold-head maintenance
 - Work performed Friday and today.
 - Thanks to PAB + DarkSide, Lab A, Lab 6, AD rad safety, for sharing wisdom and equipment and keeping us safe.
- Flammable gas detection system completely converted to VESDA-based system on the west side of the hall. Work completed - controls group needs to wire into FIRUS.
- Identified grounding problem in target cave. Fix will be straight forward
- Progressing with sensor diagnostics

- NM3 Ion will be replaced with a SEM. Last section of beam pipe (helium filled) will be slid upstream.
- Transition from VXWorks VME CPUs, to hybrid VXWorks CentOS/Linux CPUs underway. Waiting on CPUs to be delivered; crates in hand.
- Trigger timing synced to fiber-based MI beam sync. This is expected to reduce 2ns jitter problems observed.
- **Lots of progress with the physics analysis.** First early low-statistics $d\bar{b}$ / $u\bar{b}$, nuclear comparisons, J/ψ analyses being circulated internally. There are strong indications that SeaQuest is working as designed.