

S7 operation update

Eric Dufresne, TRR group meeting, January 17, 2006

- When one sticks a radiation monitor inside the beam pipe between 7ID-C and D with the 7ID-C gate closed, one measures a significant radiation leak. Some shielding may be added around the pipe on the 7ID-C side to remedy this problem in the Jan. shutdown.
- HG, BA and ED last week installed new cryogenic lines for the monochromator. The new labyrinth was essential as we needed as much room as possible to fit the hoses in.
- BA and ED are working on improving the Compton shield for the 2nd crystal cage of the monochromator. BA started a nice calculation of Compton scattering.
- ED and HG will work on adding a shaft encoder on the monochromator Bragg angle stepper motor.
- DA is building the new mini-crate for the new laser enclosure. He built EPICS 3.14, and he is debugging the IOC booting process.
- Inside of 7ID-C, Scheck will relocate some clean power outlets (#18, #20) from pressure-held Unistrut mounts to the new welded Unistrut bars.
- DW is designing a new Be window mount for the 7ID-C X-ray BPM that will enable continuous vacuum operation down to 7ID-D.

7ID Update and shutdown activities.

- HG and EL are installing a new signal cable patch panels for 7ID-D, E, and control areas along with false floors which should improve the cabling appearances and add significant connectivity.
- Air Conditioning "gremlin" has been found (daily calibration of flowmeter) and will now only occur on Tuesdays instead of daily.
- The laser beamline has users: AMO and Ohio State groups commissioning new time-resolved ion imaging detector (Lou DiMauro group).
- Main shutdown activity for EL is improving laser stability.
- The small optical table is broken. DA, EL and AMO group are investigating the problem.
- ED has been volunteered to participate in the design of the new APS Zolentz slicing ps source.
- BA in Europe at FEL conference, and visit of DESY. ED and DW to go to Gordon conference on Ultrafast Science in CA early February. Many groups are submitting work to SRI06.