

S7 operation update

Eric Dufresne, TRR group meeting, Oct. 10, 2008

- The new laser transport system to deliver laser beam from 7ID-E to 7ID-C while being able to access 7ID-D when X-rays are present in 7ID-C is completed. On October 3, it passed radiation shielding tests and is now operational. The project was steered by Eric Landahl and Don Walko. Congratulations to all involved, especially Mark Erdmann and Danny Nocher from AES-MED, and Jeff Dooling from ASD-OAG.
- The beamline is back and operational following a 1st week of commissioning. The startup was not as smooth as usual because we turned off all the power to the sector this shutdown to deliver power to the 7BM-A roof platform.
- Our schedule has not been set due to the laser incident that happened in 7ID-C in August. The report of the ANL safety investigation is available upon request. The 7ID-E laser will be serviced by Coherent next Tuesday and Wednesday. The new SOP is under review by the APS Safety group. Once the review is complete, we can request a permit to operate the laser in a given hutch with a shielded laser path. Several permits will be required for our set ups. Scheduling of laser experiments will follow very soon.
- We received the repaired hybrid-mode chopper in September. Bernhard Adams tested it this week and so far it seems to work fine.
- Congratulations to Dohn Arms on his recent promotion this summer!
- The 7BM Preliminary Design Report was submitted on August 20, 2008 by Jin Wang. A review was held on August 28, and the preliminary design has been approved since. Much work is ongoing to build the 7BM beamline now (See pictures).
- The 7ID beamline is looking to hire a Scientific Associate to support the fs-laser laboratory.

S7 R&D (cont.)

- We look forward to seeing our users and partners at the APS renewal workshop on Oct. 20-21.
- The APS Scientific Advisory Committee will hold an AMOC review on Nov 5, and 6. Several talks and posters from work done on sector 7 will be presented.
- Several papers were published since the last sector 7 update. See our web site for details. Last September, Roy Clarke's group for example published a paper on imaging NiAl alloys, and yesterday, Linda Young's group published a paper on the kinetics of a laser-generated plasma. Congratulations to all.

7BM controls



New 7BM-B IOC with motor racks



7BM-A motion control

New 7BM-B optical tables



New roof top platform for 7BM



This platform will hold the EPS and control systems

7BM Multilayer mono out of 1 BM

