

NSTX-U Weekly Report (Mar. 14, 2014)

NSTX-U is in the Upgrade Project outage in FY 2014

On Monday, March 10, S. Kaye (PPPL) participated in a workshop on Peer Review of Data, which was held at the American Astronomical Society office in Washington D.C. The meeting was attended primarily by editorial board members from astronomical and astrophysical journals, as well as some from AIP, including R. Davidson. The meeting was held to discuss different aspects of a data peer review process, including which data should be shared publicly, what is meant by a data peer review and what should the expectations be for the reviewer, framework for data storage and access, etc. The astronomy and astrophysics communities are in a similar state as that of fusion energy, that is, waiting for specific guidance and expectations from their respective funding agencies. However, unlike fusion energy, the A&A communities have been, for some time now, voluntarily submitting data to large repositories for public access. It is believed that about 50% of the scientists are submitting their research data, and there is a very circumspect review of these data sets by independent reviewers before the data are publicly shared. It is the case, however, that the data coming from the A&A communities (star maps, asteroid imaging, etc) are starkly different than those from fusion, and the same level of review and comprehensiveness of datasets should not be required for the fusion community. In many cases in the A&A communities, the comprehensive dataset itself is the research deliverable, and the concept of private, PI-owned data is obsolete. However, it is also the case in these communities that the researchers generally do not deposit their datasets into a public repository until at least some research papers are published by the measurement team. Finding out about the types of data coming from fusion experiments and theory was a learning experience for most of the A&A members on the discussion panel, and they recognized that our framework for data sharing will necessarily be different from theirs. (S. Kaye)

Engineering Operations (A. von Halle, C. Neumeyer)

NSTX Upgrade activities continued with the ongoing work to wind the new OH coil on the inner TF bundle. OH conductors have been aligned for the brazing to make the transition from the second to third layer of turns. Assembly and vacuum leak checking of the turbo pump tables and spool pieces for the new Torus Vacuum Pumping System is in progress.

Preparations for plasma operations in the NSTX-U configuration also continued with the preparations of the Field Coil Power Conversion (FCPC) rectifiers for upcoming power testing. New fiber-optics between FCPC and the Controls Junction Area are being installed. Recommissioning of primary power equipment for the neutral beam systems continues.

Access to the NSTX test cell will be available only through previous arrangement with the Upgrade Work Control Center.