

NSTX-U Weekly Report (August 22, 2014)

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

Nicola Bertelli hosted the "Annual RF SciDAC Project Workshop" on August 19 – 21, 2014 at PPPL. Thirteen visiting SciDAC members were from ORNL, XCEL, TechX, MIT, Lodestar, IMSOL-X, and CompX. Three PPPL SciDAC members were Cynthia Phillips, Ernest Valeo, and Nicola Bertelli. Few other PPPL people attended some presentations. (N. Bertelli)

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

NSTX Upgrade activities continued with the ongoing commissioning of the upper and lower crown assemblies on the completed TF/OH coil assembly, as well as the layout of the centerstack diagnostics. The assembly of the centerstack casing continues with the completion of the welding of the PF1B upper coil in place, and the lift of the casing to the vertical to allow for the start of tile installations this coming week. The lower ceramic break has been vacuum leak checked, and is now undergoing electrical insulation tests.

Development of the new Digital Coil Protection System (DCPS) continued with the completion of pre-operational testing of the DCPS computer and preparations to move the computer and autotester to its final location in the FCPC junction area. The installation of the DCPS interconnection subsystem hardware in the junction area has also started.

Preparations for plasma operations in the NSTX-U configuration also continued with the ongoing recommissioning of the Plasma Control System (PCS). Input/output testing of the PCS communication links is in progress, and the 1st of the new PCS timing units is being commissioned in the FCPC Junction Area. Also, the flexible electric links have been removed from the Test Cell's field coil power cable termination structure for cleaning, silver plating and the installation of new insulation.

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