

## **NSTX-U Weekly Report (August 8, 2014)**

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

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

NSTX Upgrade activities continued with the post VPI (vacuum impregnation with epoxy) clean-up of the completed TF/OH coil assembly. Silver plating of the lead blocks is in progress. Installation of the center column PF coils on the centerstack casing continues with the welding of the PF1B lower coil in place, and the fit-up of the PF1B upper coil. In the NSTX Test Cell, magnetic shielding for the the NB#2 ion sources is being installed, and the last two ion sources will be installed on NB#2 early next week. The final set of in-vessel passive plates have been received by PPPL and are undergoing inspection.

Development of the new Digital Coil Protection System (DCPS) continued with the removal of old CAMAC crates and legacy wiring from the FCPC Junction Area in preparation for the relocation of the DCPS currently in the last stages of the pre-operational testing of system software and user interfaces.

Preparations for plasma operations in the NSTX-U configuration also continued with the ongoing reassembly of the Motor Generator after the successful completion of the rotor weld repairs. Pre-operational testing of Neutral Beam (NBPC) and Field Coil (FCPC) power conversion systems continues. Testing of output codes/links for the Plasma Control System is in progress.

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