

NSTX-U Weekly Report (December 23, 2014)

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

The PPPL is closed from Dec. 24, 2014 to Jan. 4, 2015. Wish you happy holidays!

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

NSTX Upgrade activities continued with the initial pump down of the NSTX-U vacuum vessel on Dec. 22, 2014. Vacuum leak checking is in progress. Bus installation inside the umbrellas continues.

The Digital Coil Protection System (DCPS) and the Power Supply Real Time Control (PSRTC) development efforts are working towards the start of Field Coil Power Conversion System dummy load testing. PSRTC software testing continues to make good progress, and representative cases for both unipolar and bipolar coil systems have been successfully completed.

Preparations of non-upgrade equipment for plasma operations in the NSTX-U configuration also continued. Open circuit testing of the Field Coil Power Conversion System rectifiers is in progress, and systems are being configured for dummy load testing. An initial run-up of the repaired motor generator set was performed and mechanical braking and Cyclo-converter controlled dynamic braking tests successfully completed. All three of the NB2 Mod-Regs have been conditioned up to operating levels needed for the NB CD-4 milestone. Vacuum piping installation for the new deuterated trimethylboron (dTMB) injection system continued.

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