

NSTX-U Weekly Report (November 8, 2013)

NSTX-U is in the Upgrade Project outage in FY 2013

A paper "First observations of ELM triggering by injected lithium granules in EAST" by D. K. Mansfield (PPPL) et al. has been published in Nuclear Fusion 53 (2013) 113023. The paper is published online and available at <http://stacks.iop.org/0029-5515/53/113023>. The paper describes the first use of small ($d = 0.7$ mm) Li granules to pace / trigger ELMs on the EAST tokamak. This work was completed as part of an international collaboration between PPPL and the Chinese Academy of Sciences' Institute of Plasma Physics. Follow-on experiments are planned for the 2014 EAST experimental campaign. (D. K. Mansfield)

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

NSTX Upgrade activities continued with the removal of the Aquapour (to provide the base for OH winding) molds from the TF inner bundle, and the move of the TF bundle into a horizontal position in the OH winding system in the Coil Shop. The OH winding system is in the final stages of preparation with braze qualifications and the successful completion of OH tension testing. In the NSTX Test Cell, ion source trial fit-ups have been completed on NB2, and the NB2 duct extension has been installed on the NSTX vessel (see photo, below).

Preparations for plasma operations in the NSTX-U configuration also continued with the completion of the installation of the new firing generators in the Field Coil Power System (FCPC) rectifiers. The re-commissioning of the rectifiers themselves continues with the implementation of the fiberoptic control/communication links for the firing generators and the new PLC-based fault controls.

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

2nd NBI Duct Extension Installed

NSTX-U Test Cell (Nov. 2013)

