

## NSTX-U Weekly Report (Jan. 4, 2013)

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

The NSTX team meeting was held on Jan. 3, 2013. The presentation material is available on the web: [http://nstx.pppl.gov/DragNDrop/NSTX\\_Meetings/Team\\_Meetings/2013/2013\\_01\\_03/](http://nstx.pppl.gov/DragNDrop/NSTX_Meetings/Team_Meetings/2013/2013_01_03/)

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

NSTX Upgrade construction activities continued this week with the welding in place of the last lower umbrella leg, and re-installation of the lower dome bake-out tubing is now in progress. The tack welding of the J-K Cap was completed and full welding is in progress to be completed next week. Water lines for NB2 components such as the 90" flange and ion dump have been reassembled and leak checked, and hydrostatic testing is in progress.

Preparations of non-upgrade equipment for plasma operations in the NSTX-U configuration also continued with the ongoing fabrication of the new field coil power conversion system firing generators. Over half the printed circuit boards for all the production units are now on site and undergoing bench testing. Engineering has started on the design of new diagnostic system signal integrators and digitizers.

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

### **JK cap tack welded to the vacuum vessel after completing alignments, and full welding is now underway (Jan. 3, 2013)**

