

## **NSTX-U Weekly Report (November 3, 2017)**

**FY 2018 status: NSTX-U is in a maintenance and repair outage.**

### **Recovery**

For the magnets, all three PF coil prototype vendors are moving rapidly in this early phase, providing concepts for items such as the winding tooling and clean room design. For the passive plates, work has continued on the assessment of the plastic response of the clamping block with an off-center and oversized hole. For the inboard divertor cooling plate, the design has been updated including the analysis model to match the PFC (tile) design. Lastly, a new TF coil outer leg locking mechanism design was presented. The new design would save substantial implementation labor.

### **Research**

Dan Boyer attended the 22nd Annual Workshop on MHD Stability Control at the University of Wisconsin-Madison, and gave an invited talk describing profile control development on DIII-D and NSTX-U, as well as the results of an experiment on DIII-D that demonstrated active control of stored energy and rotation using the new capability of varying the neutral beam voltage and perveance as actuators.