

## NSTX Weekly Report (August 26, 2011)

**FY 2011 NSTX plasma operations started on October 4, 2010**

**FY 2011 NSTX Outage started on October 25, 2010**

**Planned Run Weeks: 14 run weeks**

**Run Weeks Completed: 4.21 run weeks and 839 plasma shots**

Members of the NSTX Research team participated in the ICC meeting held August 16-19, in Seattle, WA. Two of the invited talks were related to NSTX research. These were given by Vlad Soukhanovskii (LLNL) on "The snowflake divertor configuration: a game-changer for magnetic fusion devices?" and by Roger Raman (University of Washington) on, "Demonstration of Tokamak Inductive Flux Saving by Transient CHI on NSTX", who also gave a poster presentation on "Disruption Mitigation Studies in NSTX". (R. Raman)

### Engineering Operations (A. von Halle, C. Neumever)

Investigation of the faulted TF inner bundle continued this past week. Dissection of the failed bundle is in progress, and an outside lab has been contracted to perform electron and X-ray spectroscopy of questionable sections of insulation. An external committee has been selected to participate in a review of all analysis on September 7th.

Also this week, testing of the Motional Stark Effect (MSE) Diagnostic Neutral Beam, Laser, and two detection channels was performed, measuring good collisionally-induced fluorescence signals for beam-into-gas with voltage sweeping. Work also continued on the installation of control racks needed for the NSTX Upgrade Project.

Access to the NSTX test cell is expected to be available this coming week.