

## NSTX Weekly Report (January 14, 2011)

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

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

**Planned Run Weeks: TBD**

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

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

The NSTX outage continued this past week with the completion of the HHFW antenna cleaning, and the removal of the LLD plates from the NSTX vacuum vessel. In-vessel activities on diagnostics included the removal of components in preparation for the installation of the new Tangential FIDA, the installation of flight tubes for the new MSE-LIF, and the maintenance/refurbishment of shutters for BES and MPTS. Also this week, a review of a new Centrifugal Lithium Granule Injector was held, and maintenance/testing of the lower divertor high density Langmuir probe array ("Super" Tile) began.

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

### Research Operations (M. Bell)

#### Boundary Physics Operations (H. Kugel)

- Liquid Lithium Divertor (LLD)
  - 2 LLD plates were removed from the vacuum vessel, and moved to the DARM assembly area for additional inspection and testing.
  
- Molybdenum Inner Divertor Tiles
  - A Final Design Review of the "Inner Divertor Row-1 Molybdenum Tiles" was presented by R. Wood.
  
- Centrifugal Lithium Granule Injector
  - A Peer Review of "Centrifugal Lithium Granule Injector" was presented by D. K. Mansfield.
  
- Disruption Mitigation
  - A Peer Review of "Modifications to the Lower Dome Gas Injection System for Disruption Mitigation Studies in Support of ITER" was presented by R. Raman (U Wa).
  
- Materials Analysis Particle Probe (MAPP)
  - Vendor information confirming component dimensions for the Bellows Motion Drive was received, and the engineering layout of the installation configuration was completed. Preparations for submitting a Requisition for the Bellows Motion Drive.