

## NSTX Weekly Report (Dec. 11, 2009)

### **FY 2010 NSTX plasma operations**

**Planned: TBD run weeks**

**Completed: 0 run week and 0 plasma shot**

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

The NSTX outage continued this week with the completion of a calibration of the test cell neutron detectors, and an alignment of the Multipulse Thomson Scattering (MPTS) diagnostic Lasers. The 99 Langmuir probe LLD diagnostic tile has been installed in the vessel and final cable connections are in progress. Also this week, a PPPL Activity Certification Committee walk-down of the new Liquid Lithium Divertor (LLD) system was performed, and pre-operational testing of the LLD plate heaters continued.

The NSTX test cell will be in free (card reader) access this coming week.

### **Research Operations (M. Bell)**

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

- Liquid Lithium Divertor (LLD)
  - The 99 (3x33) Langmuir Probe tile was installed and its cabling is in progress.
  - The Preliminary Test Procedure for the LLD thermocouples and heaters is in progress.
- Lithium Evaporator (LITER2010)
  - Machining started on ceramic connectors to facilitate oven installations
  - Machining started on the probe-to-vessel supports.
- Divertor Region Edge Sample Probe
  - The probe was moved to its new Bay-K location. It was inserted into the vessel using the control system, and calibration measurements were performed.

#### Diagnostic Operations (R. Kaita)

Pre-pumpdown calibrations were completed for diagnostics including the neutron counters, high-k diagnostic (remote control for mirror positioning), and multipulse Thomson scattering system.