

## **NSTX Weekly Report (November 21, 2007)**

### **FY 2008 NSTX plasma operations**

**Planned: TBD**

**Completed: 0 weeks**

The National Spherical Torus Experiment (NSTX) Research Forum for 2008 is scheduled for November 27 - 29, 2007 at the Princeton Plasma Physics Laboratory in Princeton, NJ USA. The Research Forum is intended to provide interested researchers the opportunity to present ideas for experiments to be conducted on NSTX in the forthcoming run. A web site for the FY2008 NSTX Research Forum is available on the NSTX Home Page or directly <http://nstx-forum-2008.pppl.gov>. The meeting agenda is attached below (M Bell)

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

Preparations for the NSTX vessel pump-down continued this past week with the completion of internal photos and an alcohol wipe-down of in-vessel surfaces. The vessel will go under vacuum early next week after the installation of the neutral beam transition duct and spool pieces. Also this week, the third neutral beam ion source was installed on the NSTX beam-line.

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

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

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

- The ports and shutters for the Bay-F and Bay-K LITER units were installed on NSTX. (G. Labik)
- LITER unit-1 was loaded with 24 g of lithium and installed on the shutter test chamber in the Lithium Test Facility. Pumpdown was started and is in progress.

### **NSTX Research Forum Agenda**

#### **Tuesday morning Nov. 27: Plenary session, Room B-318, Spitzer Building**

8:30 - 8:40 Welcome from PPPL Director's Office

8:40 - 8:50 Comments from OFES, DOE

8:50 - 9:20 Program Update & Forum Goals (J. Menard)

9:20 - 9:40 Facility Update (M. Ono)

9:40 - 10:00 Break

10:00 - 11:00 Plans of other facilities & opportunities for joint research (2)

11:00 - 12:00n Schedules for Topical Science Group sessions (~10 min. each)

12:00n - 1:00pm Lunch

**Tuesday afternoon Nov. 27: Parallel Topical Science Group sessions I**

1:00 - 5:00 Transport & Turbulence (B-318)

1:00 - 5:00 Solenoid-Free Startup and Rampup (Room B-252)

**Wednesday morning Nov. 28: Parallel Topical Science Group sessions II**

8:30 - 12:30pm Macroscopic Stability (B-318)

8:30 - 12:30pm Wave-Particle Interactions (B-252)

**Wednesday afternoon Nov. 28: Parallel Topical Science Group sessions III**

1:30 - 5:30 Boundary Physics (B-318)

1:30 - 5:30 Advanced Scenarios and Control (B-252)

**Thursday morning Nov. 29: Plenary session, Room B-318, Spitzer Building**

8:30 - 11:30 Outline of proposed strategy for each Topical Science Group  
(25min + 5min discussion each)

11:30 - 12:00n Run Plan Development (M. Bell)

12:00n Adjourn