

## **NSTX Weekly Report (Jan. 14, 2005)**

FY2005 Planned Operations: 14 weeks  
Completed: 0 weeks producing 0 plasmas

### **Department, Project, Program (M. Ono, M. Peng, E. Synakowski)**

- 17 th NSTX Program Advisory Committee Meeting will be held in LSB 318 at PPPL on January 20 - 21, 2005. See the meeting agenda attached below.
- A safety meeting for the NSTX research team members was held on Jan. 17. For those NSTX research team members who were not able to attend the meeting, we request that you review the presentation material available on the NSTX web and send your comments to Joanne Savino.

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

- The NSTX outage continued this past week with the completion of vacuum leak checking and the start of the vessel bakeout. The temperature of the center stack was maintained at 350C, and the passive plates at 300-350C over the weekend. Four hours of helium glow discharge cleaning will be performed before bakeout operations are concluded later this week. The ground wrap has been applied to the new PF1A upper coil, and the coil is in the curing mold ready to be baked later this week. All three disconnect switches for the Switching Power Amplifier (SPA) supplies needed for Resistive Wall Mode experiments are now on site and being installed and tested in the SPA power supply room. There will be NSTX test cell access restrictions during the ongoing vacuum vessel bakeout. (A. von Halle)

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

#### **Diagnostic Operations (R. Kaita)**

- A calibration test stand for the NSTX plasma current ( $I_p$ ) Rogowski coils has been built and is undergoing tests.  $I_p$  Rogowski coil calibrations are expected to be completed next week. (J. Menard)

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

- Deuterated trimethylboron was requisitioned.
- A Procurement for deuterated methane was received.
- The new vessel wall-mounted GDC system was tested and found to start normally (W. Blanchard, R. Gernhardt)

- 3 IR Cameras were configured to automatically acquire emissivity calibration data during the vessel bakeout. (R.Maingi, ORNL; D. Mastrovito)
- 3 Quartz Deposition Monitors were configured to monitor wall deposition and acquire temperature calibration data during vessel bakeout. Preliminary results showed significant deposition occurred during the temperature ramp-up period. (C. Skinner)

## **NSTX PAC 17 AGENDA**

### **Thursday, January 20, 2004**

8:30	Coffee & Donuts, PAC Caucus	
8:45	Rob Goldston	Welcome and Charge to the PAC
8:50	Steve Eckstrand	Comments from DOE
8:55	Jim VanDam	Agenda and Plan of Meeting
9:00	Martin Peng	Actions Items and Introduction
9:20	Ed Synakowski (10:00 Coffee)	Research Plan for FY2005 – 2007
11:20	J. Manickam	Planned Contributions from Theory and Computation
12:00	Lunch	
1:00	Masa Ono	Facility Plan for FY2005 – 2007
2:30	Bob Kaita	Plans for Particle Control
3:00	Coffee	
3:15	Jon Menard	FY2005 Run Plan
4:45	PAC Caucus	
6:00	Adjourn	

### **Friday, January 21, 2005**

8:30	Coffee & Donuts	
8:30	Steve Sabbagh	Equilibrium Reconstruction Accounting for MSE Data
9:00	Coffee & PAC Caucus	
12:00	Lunch	
1:30	Jim VanDam	Debriefing
2:00	Adjourn	