

## **NSTX Weekly Report (Aug. 27, 2004)**

For FY2004 Joule milestone: 18 weeks; programmatic goal: 20 weeks.  
Completed: 21.1 weeks producing 2460 plasmas (Aug. 5, 2004).

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

- R. Maingi gave a talk titled "H-mode transition, pedestal and ELM research on NSTX" at Oak Ridge National Lab. The group was particularly impressed with the quality of the divertor fast camera movies during ELMs taken by N. Nishino (U. Hiroshima) and L. Roquemore. (R. Maingi, ORNL)

- The 16th NSTX Program Advisory Committee will meet at PPPL on September 9-10, 2004.

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

The NSTX outage continued this past week with the installation of the vacuum vessel flooring and the FARO measuring arm. Measurements using the FARO arm were completed at Bay K and that port cover has now been removed for modifications to complete the high-k scattering diagnostic. Port covers are also being removed at bays G, H, and I. The installation of the external RWM coils is in progress and preparations are underway to install cabling for the Switching Power Amplifiers (SPA's) needed to power these coils. The installation of the temporary OH coil supports has been completed and the removal of the lower TF flags is in progress. The TF center bundle and the OH coil will be lifted from the vessel this coming Wednesday.

There are no NSTX test cell access restrictions this coming week other than the local restrictions associated with lifting and construction activities. (A. von Halle)

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

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

- The spatial calibrations of the gas puff injector (GPI) view and the fast plasma TV camera were completed.
- A peer review on the modifications to the Rogowski coils for plasma current measurements was held on Thursday, August 26.