

## **NSTX Weekly Report (Nov. 19, 2004)**

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

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

- Members of the NSTX Team attended the 46th Annual Meeting of the APS-DPP in Savannah, GA. There were three invited talks on NSTX results: "Resistive Wall Mode Stabilization of High Beta NSTX Plasmas" by A. Sontag (Columbia U.), "An assessment of electron thermal transport dynamics and its origins on NSTX" by D. Stutman (Johns Hopkins U.), and "Edge Ion Heating by Launched High Harmonic Fast Waves in NSTX" by T. Biewer (PPPL). In addition, 12 oral and 40 poster presentations on NSTX results were contributed to the meeting by team members. (M. Bell)

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

The NSTX outage continued this past week with the completion of the winding of the new PF1A coil. Lead stems are now being brazed in place before installing the ground wrap and molding the case. A trial fit-up of the neutral beam duct and bellows assembly was successfully performed, and the final welding of this assembly is now in progress. Modifications to the Bay H port cover for the new microwave scattering diagnostic are nearing completion, and leak checking of both the Bay k and Bay G port covers is now complete. The first of the three cables needed to power the new RWM error field coils has been run from the power conversion building to the test cell. Preparations are underway to mount the new PF1A coil, and then install the center stack casing in the vessel by early December.

There are no NSTX test cell access restrictions expected this week. (A. von Halle)