NSTX Weekly Report (Jan. 28, 2005)

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

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

The NSTX Team Meeting will be held on February 11 at 1:00 pm in LSB 318. We plan to update you on the FY 06 budget, the outage status and the run plan.

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

The NSTX outage continued this past week with the completion of the assembly of the upper TF flags and boxes. The TF center bundle was then raised to an upright position, and the potting of the upper flag boxes is in process and continued over the weekend. Jose Boedo of USC was on site this week to support pre-operational testing of the fast reciprocating probe. Leak checking of the NSTX vacuum vessel continued, as well as the commissioning of the new Switching Power Amplifier (SPA) supply needed for Resistive Wall Mode experiments.

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

Installation activities of the Error Field/Resistive Wall Mode (EF/RWM) Coil Switching Power Amplifier (SPA) are continuing with a target completion mid-February. A status meeting was held and the list of installation tasks reviewed. About 20 punch list items remain, most of which are related to the installation of controls and related conduits and penetrations, Kirk Keys, E-stop, grounding, etc. The work is being done by Powers Electric, the PPPL tech shop, and FCPC personnel. The mechanical actuator of one of the new SPA SDS (safety disconnect switch) units is out of alignment and a technician from Filnor will come to PPPL this week to make adjustments. Fabrication, assembly, and test of the control electronics continue. Items related to the dummy load test using local control are given first priority. The commissioning procedure is being drafted. (C. Neumeyer)

Research Operations (M. Bell)

Boundary Physics Operations (H. Kugel)

• The Activities Accreditation Committee (ACC) met and reviewed presentations on proposed lithium research by R. Kaita titled "NSTX Perspective on FY06 Particle Control and ALIST Module", and by M. Ulrickson (Sandia National Laboratories) titled "Safety Considerations for Lithium Handling".

• The Edge and Boundary Physics ET leaders (R. Kaita and J. Boedo, UCSD), the Integrated Scenario Development ET head (R. Maingi, ORNL), and the Boundary Physics Operations Branch head (H.Kugel) met to identify the edge and boundary physics XP's for the upcoming NSTX run that were most tightly linked to the FY05 milestone and the ITPA-related tasks. The first of the Edge and Boundary ET meetings to discuss these XP's will be held on Wednesday, February 9. (R.Kaita)

• The Fast Probe was tested using its PLC controls and found to move normally after having been removed and reinstalled during the outage. (J. Boedo, UCSD)