

NSTX Weekly Report (Sept. 3, 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)

- Martin Peng presented an invited overview lecture on "ST Plasma Science and Fusion Energy" at the 2nd Japan-Korea Seminar on Advanced Diagnostics for Steady-State Fusion Plasma, during August 25-27, 2004, at the Korea Basic Science Institute in Daejon, Korea. More than 60 students and young researchers attended the Seminar, together with 24 lecturers from Japan, Korea, U.S. and Belgium. His lecture is available on the NSTX website. (M. Peng, ORNL)
- R. Maingi gave talk titled "ELMS in NSTX" at General Atomics. Maingi, Roquemore, Nishino (U. Hirsohima) and Evans (GA) have proposed to make similar divertor fast visible camera measurements on DIII-D, to compare the ELM dynamics between NSTX and DIII-D. Members of the DIII-D group are enthusiastic about a collaboration on this topic. (R. Maingi, ORNL)

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

Preparations to remove the TF bundle with the OH coil continued this week. The lift has been re-scheduled for Tuesday 9/7/04 in anticipation of the arrival of high strength threaded rod material with certain pedigree for use with the lift fixture. The TF flag box removals have been completed and disassembly of these units started.

A CHERS calibration has been performed and completed. Several other diagnostics calibrations have been scheduled. Resistive Wall Mode coil installation continued this week also. The RWM SPA power supplies are undergoing acceptance tests at the factory. Areas in the Neutral Beam Power Conversion Building have been cleared to allow access for RWM cable tray installation.

AC Power maintenance continues, affecting NSTX in the FCPC wing and NB areas. A site wide power outage has been planned for Sept. 11 and 12.

No NSTX Test Cell access restrictions apply except for local restrictions associated with lifts and construction activities. (T. Stevenson)