

NSTX Weekly Report (Oct. 8, 2004)

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

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

- M. Ono gave a seminar entitled "NSTX Research Highlights & Near Term Plans" at the NIFS (National Institute for Fusion Science), Gifu, Japan, on Oct. 4, 2004. On Oct. 5, 2004, he gave a seminar entitled "ST Fusion Development Path and Recent Research Highlights on NSTX" at the Tokyo University, a talk with tutorial contents for students. (M. Ono)
- At the NSTX Physics meeting on Monday, October 4, **Nikolai Gorelenko** will discuss the work he has done in collaboration with **Sid Medley** on "**Modeling of Low-frequency MHD-induced Beam-ion Transport In NSTX**". (C. K. Phillips)
- The October NSTX Team Meeting will be held on Thursday, October 14, 2004, at 1:30 P.M., in LSB318. Remote participation will be available for our off site team members.

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

The NSTX outage continued this past week with the removal of neutral beam armor from the vacuum vessel to be modified for the high-K scattering diagnostic, and the completion of RWM error field coil installation at bays A/L. RWM coil installation will now shift to bays F/G. The Switching Power Amplifier (SPA) to power the RWM system is expected at PPPL next week, and the installation of cabling to connect the SPA to the RWM coils is in progress. Trial epoxy potting of two Lexan TF flag test boxes were completed this week and results are being analyzed. Fabrication of the new PF1a coil will begin this coming week.

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

Research Operations (M. Bell)

Boundary Physics Operations (H. Kugel)

- The Supersonic Gas Injector team reviewed near term maintenance and upgrade tasks, and rescheduled work needed for completion prior to pumpdown.

- The Lithium Pellet Injector team reviewed near term maintenance tasks and issues that arose during operations.
- Measurements for the Bay-K poloidal sample coupon array were completed and the final drawings were initiated.