NSTX Weekly Report (Aug. 29, 2008)

FY 2008 NSTX plasma operations

Planned: 15 run weeks

Completed: 16.62 run weeks, 2571 plasmas (run completed on July 14, 2008)

• Steve Sabbagh (Columbia University) gave a talk entitled "Effects of Applied Non-axisymmetric Fields on ELMs and Plasma Rotation Using New Midplane Coil Configurations in NSTX" and John Canki (ORNL) gave a talk entitled ""ELM Destabilization by Resonant Magnetic Perturbations at NSTX" at the workshop "Modeling of Plasma Effects of Applied Resonant Magnetic Perturbations held at General Atomics, San Diego, CA, August 25-26, 2008.

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

The NSTX outage continued this week with the completion of the post-run diagnostic calibrations. In-vessel construction activities are now in progress with the mock-up of the new 16 channel divertor bolometer mounts, and the preparations to remove the HHFW antenna for upgrades. The collaborative effort to design and fabricate the new Liquid Lithium Divertor (LLD) continues at both SNL and PPPL.

The NSTX test cell will be in free (card reader) access this coming week.

Research Operations (M. Bell)

Boundary Physics Operations (H. Kugel)

• Liquid Lithium Divertor (LLD)
- A teleconference was held between SNL and NSTX to discuss the SNL bid process for the LLD fabrication, and followup plans.

Diagnostic Operations (R. Kaita)

• "White plate" calibrations to determine the response of the detector channels were performed for the CHERS ion temperature and toroidal plasma rotation diagnostic, the P-CHERS poloidal plasma rotation diagnostic, and the FIDA fast ion diagnostic of the University of California at Irvine. This completes the post-run calibrations following NSTX operations for FY08.