

NSTX Weekly Report (Aug. 11, 2006)

FY 2006 NSTX plasma operations completed on June 23, 2006.

Joule Milestone: 11 weeks

Achieved: 12.66 weeks

- The NSTX Research Forum for FY 2007 research will be held at PPPL on December 5 through the morning of December 7, 2006. It will be immediately followed by the first NCSX Research Forum starting in the afternoon of December 7 through the morning of December 8, 2006.
- There will be an NSTX Physics meeting on Monday, 8/14, those giving IAEA presentations will present draft outlines of their presentations for group feedback and to identify areas that need further work, possibly with others help. The schedule for the discussions is: **(titles not exact)** A. Sontag – Active RWM stabilization, D. Gates – Steady-state operation, V. Soukhanovskii – Divertor regimes. J. Menard – Overview will be presented on Wed., 8/16 (details to follow) (S. Kaye)
- The NSTX Team Meeting was held on August 9, 2006. The meeting featured the discussions on the Run Assessment Summary. The presentation material is available on the NSTX Web.

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

The NSTX outage continued this past week with the removal of the Faro measuring arm from the vacuum vessel, and the start of in-vessel machining to provide the apertures required for the new Poloidal CHERS diagnostic. Also this week, troubleshooting /repairs of the wiring to some of the in-vessel B_z coils was performed, and a detailed evaluation of the diagnostic grounding system to reduce electrical noise continued.

The test cell will remain in free (card reader) access through the coming week.

Research Operations (M. Bell)

Diagnostic Operations (R. Kaita)

- A spatial calibration of the neutral density imaging diagnostic was performed. Other diagnostic activities included integrator repairs for magnetic sensors and the elimination of ground loops for noise reduction.