

NSTX Weekly Report (Sept. 8, 2006)

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

Joule Milestone: 11 weeks

Achieved: 12.66 weeks

A discussion was held with M. Osakabe from the Large Helical Device (LHD) at the National Institute for Fusion Science in Japan on neutral particle analyzer (NPA) measurements. Both LHD and NSTX use the same type of NPA, and options were discussed for tests on each machine as a collaborative effort to increase the time resolution of this diagnostic. (R. Kaita)

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

The NSTX outage continued this past week with the in-vessel machining to provide the apertures for the new Poloidal CHERS diagnostic. The removal of components from the PHA diagnostic continues, with plans to lift the towers and move them from the test cell this coming week. Progress was also made on the system to provide improved footing and fall protection tie-off points at the top of the vessel for upcoming diagnostic installations/calibrations.

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

Research Operations (M. Bell)

Boundary Physics Operations (H. Kugel)

- Analysis of NSTX graphite tiles and samples with lithium deposition is in progress at Argonne National Laboratory and Idaho National Engineering Laboratory. (C.H. Skinner)

- * A candidate design for the high pressure upgrade of the Supersonic Gas Injector (SGI) has been achieved. Preparations are in progress for a Peer Review. (W. Blanchard; V. Soukhanovskii, LLNL)

- A Preliminary Peer Review was held for the LITER-2 Option and was declared a success pending resolution of the Chits.