

NSTX Weekly Report (September 2, 2011)

FY 2011 NSTX plasma operations started on October 4, 2010

FY 2011 NSTX Outage started on October 25, 2010

Planned Run Weeks: 14 run weeks

Run Weeks Completed: 4.21 run weeks and 839 plasma shots

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

NSTX systems were secured in preparation for Hurricane Irene, and weathered the storm without damage. Vacuum system operation was restored this week to support diagnostic calibrations before the upcoming vessel vent. Analysis of the faulted TF inner bundle continued, and an external committee has been selected to participate in a review of this analysis on September 7th. Also this week, the High Harmonic Fast Wave (HHFW) sources were operated into their dummy loads in a demonstration for ITER engineering visitors.

Access to the NSTX test cell is expected to be available for the majority this coming week.

Research Operations (M. Bell)

Diagnostic Upgrade (B. Stratton)

The MSE-LIF system is fully operational. We have taken laser-induced fluorescence data with our diagnostic neutral beam system running into a gas-filled torus and saw good signals at expected levels on core, central, and edge channels. (E. Foley, Nova Photonics)