

NSTX Weekly Report (September 9, 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

The paper “Overview of Physics Results from NSTX” by R. Raman (U. Washington) et al., was published online as a special issue article in Nuclear Fusion [NF **51** (2011) 094011]. The paper summarizes two years of NSTX research from the FY09 and FY10 NSTX run campaigns and is based on the NSTX Overview talk at the 2010 IAEA Fusion Energy Conference. (R. Raman)

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

NSTX Diagnostic calibrations continued this week before the planned vent of the vacuum vessel. Systems have been configured to provide a small magnetic field via PF5 to take MSE laser-induced fluorescence data utilizing the diagnostic neutral beam system running into a gas-filled torus. This will allow us to complete the new MSE-LIF diagnostic commissioning next week before starting the extended outage. Preparations for NSTX Upgrade activities are in progress with the generation of procedures for the safe removal and storage of diagnostics and associated control racks.

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