

NSTX Weekly Report (Jan. 13, 2006)

FY2006 weeks of research operations

Planned: 11 weeks

Completed: 0 weeks

- There will be no NSTX Physics meeting on Monday, 1/16. We will resume on 1/23. (S. Kaye)
- The Maintenance Division is currently renovating and expanding B-318 (the room where the NSTX Physics Meetings are usually held.) The room will be closed until January 23rd. We apologize for any inconvenience. If you have any questions please contact Shawn Connolly at X3182.

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

The NSTX outage continued this past week with the high temperature bake of the vacuum vessel in preparation for the upcoming run. A brief vent of the vessel was completed earlier in the week to complete alignments of the new lithium evaporator (LITER 1), and to replace two torus isolation valves with small throughput leaks. All NSTX gas injection valves have been successfully tested, and short periods of helium glow discharge cleaning have been performed using both the fixed and moveable glow probes. Round the clock operations of the neutral beam helium refrigerator will begin this coming week.

The NSTX test cell will be in restricted access during vessel bake-out operations through Wednesday of this week. (A. von Halle)

Research Operations (M. Bell)

Diagnostic Operations (R. Kaita)

- The lasers for the Thomson scattering system have been serviced by the vendor. They are ready for operation.
- The three infrared cameras are being calibrated during the bakeout which is in progress. This is an Oak Ridge National Laboratory led effort.

Boundary Physics Operations (H. Kugel)

- The GDC system consisting of the Fixed Bay-G and MGP anodes was tested at standard operating parameters and found to function normally. (W. Blanchard)
- The alignment of the LITER Bellows Motion Drive at the Bay F Upper port was performed and the final welding was completed. The computer network fiber

optic link was installed to the rack. Work on the controls and preparations for the Controls and Cabling Review continued in progress. The fabrication of the oven cartridge was completed, and fabrication of the oven shield was initiated. Work continued on fabrication of the Exit Heater. Materials for the probe utilities feedthrough region were received. The drafting of the revisions to the NEPA documentation for the Off-line test facility, the NSTX Failure Modes and Effects Analysis (FMEA) and the NSTX Safety Assessment Document (SAD) were completed and are under final team review for submission to the Safety Review Committee (SRC). Preparations continued for the Activity Certification Committee (ACC) review scheduled for next week.