

## **NSTX-U Weekly Report (Feb. 28, 2014)**

### **NSTX-U is in the Upgrade Project outage in FY 2014**

On February 24, R. Raman (University of Washington) gave the talk “Overview of potential CHI contributions to the QUEST project” at the 2<sup>nd</sup> Workshop on QUEST and Related ST RF Startup and Sustainment Plasma Research (Feb. 24-26), held at Kyushu University, Japan. The talk discussed the CHI system design for QUEST and described applications of transient CHI and related targets a CHI system could generate for RF (ECH) current drive applications. (R. Raman)

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

NSTX Upgrade activities continued with the completion of the second layer of OH winding. Conductors are being annealed and water connections being brazed in place in making the transition to the third layer of OH winding. The neutral beam (NB) shine-through tiles have been installed in the NSTX-U vessel and trial fit-ups of the new turbo pump ducts to the NB2 duct are in progress.

Preparations for plasma operations in the NSTX-U configuration also continued with the ongoing preparations of the Field Coil Power Conversion (FCPC) rectifiers for upcoming power testing. New I/O modules are being commissioned in rectifiers to upgrade the existing Hardwired Controlled System from electromagnetic relays to a programmable logic controller, and the installation of new fiberoptic connections between the FCPC rectifiers and the Controls junction Area will be installed next week.

Access to the NSTX test cell will be available only through previous arrangement with the Upgrade Work Control Center.