

NSTX-U Weekly Report (January 5, 2018)

FY 2018 status: NSTX-U is in a maintenance and repair outage.

Recovery

A Preliminary Design Review (PDR) was held on Thursday January 4, 2018 for the Plasma Facing Component (PFC) Diagnostics.

In the magnet area, PPPL personnel traveled to a vendor site in England to participate in a Manufacturing Readiness Review (MRR) in preparation for beginning winding of one of the PF1 prototype coils. Preliminary / non-magnified examination of the sectioned vacuum pressure impregnation (VPI) log test-bundle indicates resin penetrated and saturated the glass/Kapton turn insulation. Preparation of the glass/Kapton co-wound insulation for prototype PF1A coils using the PPPL co-winding machine continues.

A Final Design Review (FDR) of the TVPS Backing Pump is scheduled for January 12, 2018.

Research

R. Maingi hosted a Program Committee meeting (January 4-5) for the 2018 International Plasma-Surface Interactions Conference, to be held on the Princeton University campus June 17-22, 2018. Ten committee members from all over the world participated in person, with one remote participant, to discuss the nearly 500 abstracts submitted for consideration. Evaluations on the technical abstracts were conducted, and updates on the conference planning and organization were reviewed.

NSTX-U Researchers prepared for the PAC-39 meeting to be held January 9-10, 2018 at PPPL.