

NSTX-U Readiness To Operate Requirements

1. Do the approved NSTX-U Safety Assessment Document (SAD) and pending Safety Certificate adequately define the safe operating envelope for NSTX-U operations?

The requirements for a PPPL Safety Assessment Document (SAD) are described in the *PPPL Safety Manual, Section 11, Chapter 1, Operations Hazard Criteria*.

The requirements for a PPPL Safety Certificate are described in the *PPPL Safety Manual, Section 11, Chapter 2, Safety Certification System*.

2. Are there clearly defined roles, responsibilities and training for NSTX-U operations personnel?

The requirements for training NSTX-U operations personnel are described in NSTX-U procedure *OP-NSTX-12, NSTX-U Operations Training* and associated attachments.

3. Are there clearly defined operating procedures that ensure that NSTX-U is commissioned and operated within the safe operating envelope defined by the NSTX-U Safety Assessment Document (SAD) and Safety Certificate (including off-normal events)?

The requirements for startup of NSTX-U are described in NSTX-U procedure *OP-NSTX-02, Start Up Of NSTX-U*, and associated prerequisite procedures, and *NSTX-ISTP-01, NSTX Coil Energization Tests*.

4. Does the PPPL Activity Certification Committee (ACC) process ensure that configuration changes are adequately reviewed and appropriately documented in the NSTX-U Safety Assessment Document (SAD) and Safety Certificate?

The requirements for a PPPL Activity Certification Committee (ACC) and for documenting changes into the Safety Certificate are described in the *PPPL Safety Manual, Section 11, Chapter 2, Safety Certification System*.

The requirements for documenting changes into the Safety Assessment Document (SAD) are described in the *PPPL Safety Manual, Section 11, Chapter 1, Operations Hazard Criteria*.

5. Does the PPPL Activity Certification Committee (ACC) process, including approval to proceed by the PPPL ES&H Executive Board Chairperson, ensure that PPPL is indeed ready to begin NSTX-U operations?

The requirements for a PPPL Activity Certification Committee (ACC) are described in the *PPPL Safety Manual, Section 11, Chapter 2, Safety Certification System*.

6. At the time of project completion, will the NSTX Upgrade Project have delivered the Project Objectives as defined in Section 2.2 of the NSTX-U Project Execution Plan?

The requirements for project completion are described in the *NSTX-U Project Execution Plan, Section 2.2.2, Project Completion Criteria*.