

Title: NSTX-U POWER SV Breaker

CAT: X A1 ☐ A2 ☐ A3Type of Review: ☐ Peer ☐ CDR ☐ PDR X FDR

Cognizant Individual: E. Cassidy

Date of Review: 7/12/19

Review Board Members:	Invited Attendees:	Other Attendees:
Chair: T. Stevenson	C. Neumeyer	_____
RE J. Dellas	J. Petrella	_____
TA R. Camp	P. Dugan	_____
TA (____)	S. Gerhardt	_____
TA (____)	S. Horst	_____
_____	M. Cropper	_____
QA K. Cortez	_____	_____
ESH J. Levine		

Items Reviewed:	Sat.	Unsat.	Comments or n/a if not applicable
Appropriate requirements identified	X	<input type="checkbox"/>	PSS and
Development plans and schedules	X	<input type="checkbox"/>	
Reg. compliance incl. USI/USID and NEPA	X	<input type="checkbox"/>	NSTX-U
Disposition of CHITS from previous reviews	<input type="checkbox"/>	<input type="checkbox"/>	n/a
Cost objectives	X	<input type="checkbox"/>	WAF developed
Other review objectives addressed	X	<input type="checkbox"/>	memo

SUMMARY OF RESULTS:

Per PSS CDR and Peer Review, this FDR covered the replacement of the SV class breakers, SB10, and SB05 in support of the PSS. The introduction and overview provided the requirements and resources, options and costs. Per a project memo, the breakers will be refurbished and upgraded with fail safe undervoltage relays supplementing the trip coils. Thus, the breakers will be revitalized and tested to like new condition yet the operating experience with these breakers is retained for analysis purposes. This FDR covered the S1B1 breaker addition replacing a dummy cubicle also in support of PSS. Detailed lists of the refurbishment scope of work, incoming inspection and testing, and final testing, as well as acceptance testing were presented. Documentation deliverables include a report on each breaker. Drawing changes of schematics were also presented. Finally costs and schedules were discussed. Two minor chits were generated and accepted; chit response is available on the FDR dashboard with all of the other documentation.

Disposition: [check one]

- ☒ **Acceptable**
- ☐ **Acceptable pending resolution of concerns**- CHITS identified above must be resolved prior to installation.
- ☐ **Incomplete** - Additional design work is required prior to another design review.
- ☐ **Unsuccessful** – Corrective actions must be taken and another review process must be initiated.

Design Review Chair : _____ Date: _____

Cognizant Individual Acceptance _____ Date: _____

Distribution: Review Board Members, Operations Center, Responsible Engineer (RE), Cognizant Individuals, Project Manager, Project Director, relevant Technical Authorities (TAs), Chief Engineer (CE), Fire Protection Engineer, Attendees, QA, ES&H, Security, Requesting & Performing Dept. Head

Revised 8/10/18