

DESIGN REVIEW DOCUMENTATION – RESULTS – No: NSTXU_1-8-1-1-11_FDRS_100

Title: Fall Protection Anchor (WP# 3056, WBS# 1.08.01.01.11) ____

CAT: ☒A1 ☐A2 ☐A3

Type of Review: ☐ Peer ☐ CDR ☐ PDR ☒ FDR

Cognizant Individual: W. Harris _____ **Date of Review:** 10/3/19

Review Board Members:

W. Blanchard, Chairperson
S. Gerhardt, System Integration
R. Ellis, Chief Engineer
M. Safabakhsh, Fabrication TA
M. Kalish, Mechanical TA
W. Slavin, Industrial Hygiene & Safety TA
J. Winston, Mach Assembly SME
S. Gifford, Mach Assembly SME
A. Castaneda, QA

Other Attendees

R. Hawryluk
T. Estes
M. Cropper
J. Malo
A. Indelicato
P. Dugan
L. Hill
S. Weidner
J. Levine
T. Stevenson
Y. Zhai
S. Raftopoulos

Items Reviewed:

	Sat.	Unsat.	Comments or n/a if not applicable
Appropriate requirements identified	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Development plans and schedules	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Reg. compliance incl. USI/USID and NEPA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Disposition of CHITS from previous reviews	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Calculations (all listed are signed and filed)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Cost objectives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Other review objectives addressed	<input type="checkbox"/>	<input type="checkbox"/>	_____

SUMMARY OF RESULTS:

W. Harris presented a fall protection system to be installed on top of NSTX-U with anchors bolted to the umbrella flange that satisfies both OSHA and PPPL's requirements for fall protection. The system will consist of anchors around the machine which limits one worker per anchor and allows for work to proceed for installations and repairs both inside the umbrella and on the outer vessel. The FDR generated three chits. One chit concerned fabricating and installing six anchors around the machine to maximize the efficiency of completing work. A second concerned using self retracting lanyards and the third dealt with completing a calculation of the design when the umbrella lid is installed. While the review committee concurred with all of the chits, it was agreed that progress toward implementing this design should not be impacted by the results of the lid calculation since a separate guardrail system (not part of this FDR) will be in place by the time the lid is installed.

The review committee deemed the FDR to be successful pending resolution of the chits.

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 Person _____ **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