

## Design Review Documentation - Results No.:

Title: VV G10 Insulation Mock Up Peer Review

CAT: ☒A1 ☐A2 ☐A3

Type of Review: ☒Peer ☐CDR ☐PDR ☐FDR

Cognizant Individual: M. Safabakhsh

Date of Review: 1/08/20

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### Review Board Members:

Chair: T. Stevenson

RE S. Raftopolous

TA R. Ellis

TA S.

Gerhardt

TA S. Gifford

TA W. Que

PE Y. Zhai

QA F. Malinowski  
A. Castaneda

ESH N. Gerrish  
H. Wetzel

### Attendees:

M. Anderson

F. Cai

R. Cappelletti

M. Cropper

J. Galayda

W. Gattoni

R. Hawryluk

L. Hill

A. Indelicato - PSO

T. Jernigan

J. King – DOE

R. Miller

D. Niemenski - PSO

M. Pauley

J. Petrella

### Attendees:

S. Rogan - PSO

B. Sullivan – DOE

G. Swider

P. Titus

S. Weider - PU

J. Winston

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### Items Reviewed:

Appropriate requirements identified

Sat. ☒

Unsat. ☐

Development plans and schedules

Sat. ☒

Unsat. ☐

Reg. compliance incl. USI/USID and NEPA

Sat. ☒

Unsat. ☐

Disposition of CHITS from previous reviews

Sat. ☒

Unsat. ☐

Calculations (all listed are signed and filed)

Sat. ☒

☐

Cost objectives

Sat. ☒

Unsat. ☐

Other review objectives addressed

Sat. ☒

Unsat. ☐

Comments or n/a if not applicable

### **SUMMARY OF RESULTS:**

This Peer Review presented the mockup test results and a concept of the proposed solution for the G10 insulation performance degradation issues related to the VV G10 bushing. The test results confirmed the importance of cleaning the joint. A simplified concept for addressing G10 bushing was presented using a G10 bushing, an EPDM rubber bushing, and a metal bushing. The G10 and EPDM rubber bushing combination secures the joint from future contaminant ingress. The design accounts for hole misalignment. Material and labor costs are very modest. One chit was generated.

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**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 9/12/19