



2022-038 \_\_\_\_\_ BWR Vessel & Internals Project (BWRVIP)

(via e-mail)

June 2, 2022

Document Control Desk  
U. S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852

BWRVIP Docket No. 99902016

**SUBJECT:** BWRVIP-346 BWR Vessel and Internals Project, Testing and Evaluation of the Duane Arnold 288°-R ISP(E) Reinserted Surveillance Capsule

Enclosed is one (1) copy of the report “BWRVIP-346: BWR Vessel and Internals Project, Testing and Evaluation of the Duane Arnold 288°-R ISP(E) Reinserted Surveillance Capsule,” EPRI Technical Report 3002023520, May 2022. This report is being transmitted to the NRC for information only.

This report describes testing and evaluation of the Duane Arnold Energy Center (DAEC) surveillance capsule that was inserted into the 288° azimuth location prior to Cycle 9 of plant operation with reconstituted Charpy specimens. As required by 10CFR50 Appendix H, a capsule test report has been generated by the BWRVIP and has been reviewed and endorsed by the BWRVIP Committees prior to submittal to the U.S. Nuclear Regulatory Commission (NRC) and all BWRVIP members.

The DAEC surveillance plate heat B0673-1 is the ISP representative material for target vessels at six other units in the U.S. BWR fleet. However, the ISP data cannot be used directly in evaluation of vessel materials unless the heat numbers match. Without a heat match, evaluations of vessel materials use Regulatory Position 1.1 of Regulatory Guide 1.99, Revision 2. As a result, the DAEC 288°-R Capsule data will have no impact on any of the target vessel’s P-T limit curves.

Please note that the enclosed report is non-proprietary and is available to the public.

If you have any questions on this subject, please contact Steve Williams (BWRVIP ISP Project Manager) by email at [swilliams@epri.com](mailto:swilliams@epri.com) or by telephone at 704.574.5386.

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Sincerely,

Handwritten signatures of Tim Hanley and Nathan Palm.

Tim Hanley, Constellation Energy Generation LLC, BWRVIP Chairman  
Nathan Palm, EPRI, BWRVIP Program Manager

- c: S. Richter, Energy Northwest
- Donnamarie Bush, PSEG
- S. Williams, EPRI
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