

April 21, 2020

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

BWRVIP Docket No. 99902016

Subject: BWRVIP-332: BWR Vessel and Internals Project, Testing and Evaluation of the Peach Bottom Unit 2 30° Surveillance Capsule

References: 1. J. Danna (NRC) to A. McGehee (EPRI) and B. Hanson (Exelon), "Peach Bottom Atomic Power Station, Unit No. 2 – Extension of Schedule for Reporting Surveillance Capsule Test Results under the Integrated Surveillance Program (EPRI Letter 2018-151) (EPID L-2018-KKK-0034)," January 23, 2019.

Enclosed is one (1) paper copy of the report "BWRVIP-332: BWR Vessel and Internals Project, Testing and Evaluation of the Peach Bottom Unit 2 30° Surveillance Capsule," EPRI Technical Report 3002018177, April 2020. This report is being transmitted to the NRC for information only.

This report describes testing and evaluation of the Peach Bottom Unit 2 30° surveillance capsule. These results will be used to monitor embrittlement as part of the BWRVIP Integrated Surveillance Program (ISP).

- The weld material in the Peach Bottom Unit 2 30° surveillance capsule is identified in BWRVIP-86, Revision 1-A as representative for the target vessel material in Peach Bottom Unit 2, but is not a heat-specific match for the target material. Therefore, the surveillance data will not be used directly.
- The plate material in the Peach Bottom Unit 2 30° surveillance capsule is identified in BWRVIP-86, Revision 1-A as representative for target plate materials in Limerick Unit 1, Nine Mile Unit 2 and Peach Bottom 2. The plate representative material in the 30° capsule is not a heat-specific match to the target plate material in the Peach Bottom Unit 2 reactor vessel. However, the representative material is a heat-specific match to another plate material in the Peach Bottom Unit 2 reactor vessel and direct use will be made of the surveillance data. The test results from the 30° surveillance capsule have

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been evaluated and it has been determined that the existing Peach Bottom Unit 2 pressure-temperature (P-T) limit curves are conservative.

It should be noted that the BWRVIP previously requested an extension to the 10 CFR 50 Appendix H surveillance capsule testing reporting requirements and committed to providing the results of the Peach Bottom Unit 2 30° surveillance capsule by April 30, 2020. That request was approved in Reference 1.

Please also note that the enclosed report is non-proprietary and is available to the public by request to EPRI.

If you have any questions on this subject, please call Steve Richter (Energy Northwest, BWRVIP Assessment Committee Chairman) at 509-377-4703.

Sincerely,

Two handwritten signatures are present. The signature on the left is 'Tim Hanley' and the signature on the right is 'Nathan Palm'.

Nathan Palm, EPRI, BWRVIP Program Manager
Tim Hanley, Exelon Corporation, BWRVIP Chairman

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