



FirstEnergy Nuclear Operating Company

Beaver Valley Power Station  
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Site Vice President

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October 10, 2014  
L-14-296

10 CFR 50, Appendix H, IV.A

ATTN: Document Control Desk  
U. S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

SUBJECT:  
Beaver Valley Power Station, Unit No. 1  
Docket No. 50-334, License No. DPR-66  
Reactor Vessel Capsule X Analysis Report

In accordance with 10 CFR 50, Appendix H, Section IV, FirstEnergy Nuclear Operating Company (FENOC) is providing the enclosed summary technical report WCAP-17896-NP, "Analysis of Capsule X from the FirstEnergy Nuclear Operating Company Beaver Valley Unit 1 Reactor Vessel Radiation Surveillance Program," Revision 0, dated September 2014.

FENOCs continuing surveillance program monitors the effects of neutron irradiation on the Beaver Valley Power Station, Unit No. 1 (BVPS-1) reactor pressure vessel materials under actual operating conditions. The enclosed report presents the results of the examination of Capsule X, the fifth capsule removed and tested in the surveillance program. Testing was performed in accordance with 10 CFR 50, Appendix H, "Reactor Vessel Material Surveillance Program Requirements," and American Society for Testing and Materials (ASTM) Specification E185-82, "Standard Practice for Conducting Surveillance Tests for Light-Water Cooled Nuclear Power Reactor Vessels."

Based on the WCAP-17896-NP analysis results, FENOC plans to change and submit the Pressure and Temperature Limits Report for BVPS-1 by March 31, 2015. Proposed changes to BVPS-1 Updated Final Safety Analysis Report, Table 4.5-3, "Reactor Vessel Material Irradiation Surveillance Schedule," were previously submitted in a FENOC letter dated May 28, 2013 (Accession No. ML13151A058) and found to be acceptable by the NRC staff in a letter dated July 17, 2014 (Accession No. ML13242A266). Additional changes to this schedule are not necessary at this time.

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There are no regulatory commitments contained in this submittal. If there are any questions or if additional information is required, please contact Mr. Thomas A. Lentz, Manager - Fleet Licensing, at (330) 315-6810.

Sincerely,

A handwritten signature in black ink, appearing to read "E. A. Larson", with a long horizontal flourish extending to the right.

Eric A. Larson

Enclosure:

WCAP-17896-NP, "Analysis of Capsule X from the FirstEnergy Nuclear Operating Company Beaver Valley Unit 1 Reactor Vessel Radiation Surveillance Program," Revision 0, dated September 2014.

cc: NRC Region I Administrator  
NRC Resident Inspector  
NRC Project Manager  
Director BRP/DEP  
Site BRP/DEP Representative

ENCLOSURE  
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Revision 0, dated September 2014.

(302 pages follow)