

FirstEnergy Nuclear Operating Company

Beaver Valley Power Station P.O. Box 4 Shippingport, PA 15077

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October 21, 2013 L-13-320

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

SUBJECT: Beaver Valley Power Station, Unit Nos. 1 and 2 Docket No. 50-334, License No. DPR-66 Docket No. 50-412, License No. NPF-73 <u>Response to Request for Additional Information Regarding End-of-Life Moderator</u> <u>Temperature Coefficient Testing (TAC Nos. ME9144 and ME9145)</u>

By correspondence dated July 25, 2012 (Accession No. ML12208A309), as supplemented by correspondence dated June 1, 2013 (Accession No. ML13155A021), FirstEnergy Nuclear Operating Company (FENOC) submitted to the Nuclear Regulatory Commission (NRC) a proposed amendment to the Beaver Valley Power Station, Unit Nos. 1 and 2, Technical Specifications (TSs). The proposed amendment would modify TS 3.1.3, "Moderator Temperature Coefficient (MTC)," to allow the normally required near-end-of-life MTC measurement to not be performed under certain conditions.

By correspondence dated September 21, 2013 (Accession No. ML13252A258), the NRC requested additional information regarding FENOC's July 25, 2012 correspondence. FENOC's response to this request is attached.

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

I declare under penalty of perjury that the foregoing is true and correct. Executed on October 21, 2013.

Sincerely,

Eric A. Larson

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## Attachment:

Response to September 21, 2013 Request for Additional Information

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

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The Nuclear Regulatory Commission (NRC) staff information request is presented below in bold type, followed by the FirstEnergy Nuclear Operating Company (FENOC) response.

1. In your application, dated July 25, 2012, the proposed TS change on page 5.6-2 adds WCAP-13749-P-A. WCAP-13749-P-A, specifically the NRC safety evaluation included in the approved version, allows only for the use of the PHOENIX-P/ANC code package. On page 4 of 10 of your application dated July 25, 2012, FENOC proposes to use the PARAGON lattice physics code. Please explain this discrepancy.

## Response:

As described in the July 25, 2012 application, FENOC does plan to transition from the PHOENIX-P/ANC code package to the NEXUS/ANC (PARAGON) code package. However, the PHOENIX-P/ANC code package is currently used at the Beaver Valley Power Station, Unit Nos. 1 and 2.

Use of the NEXUS/ANC (PARAGON) code package was evaluated in the July 25, 2012 application. The NRC safety evaluations for WCAP-16045-P-A (Accession No. ML040780402) and WCAP-16045-P-A, Addendum 1-A (Accession No. ML070320398) document the use, including applicable conditions and limitations, of PARAGON as an acceptable alternative to PHOENIX-P/ANC.

FENOC intends to submit a revision to the proposed Technical Specification 5.6.3.b list of analytical methods used to determine core operating limits that was provided with this amendment application. The list will be modified to include Westinghouse topical reports WCAP-16045-P-A, "Qualification of the Two-Dimensional Transport Code PARAGON" and WCAP-16045-P-A, Addendum 1-A, "Qualification of the NEXUS Nuclear Data Methodology," in addition to WCAP-13749-P-A.