

April 1, 2008

Mr. Peter P. Sena III
Site Vice President
FirstEnergy Nuclear Operating Company
Mail Stop A-BV-SEB-1
P.O. Box 4, Route 168
Shippingport, PA 15077

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
BEAVER VALLEY POWER STATION, UNITS 1 AND 2, LICENSE RENEWAL
APPLICATION (TAC NOS. MD6593 AND 6594)

Dear Mr. Sena:

By letter dated August 27, 2007, FirstEnergy Nuclear Operating Company submitted an application pursuant to 10 CFR Part 54, to renew the operating licenses for Beaver Valley Power Station, Units 1 and 2, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review. Further requests for additional information may be issued in the future.

Items in the enclosure were discussed with Mr. Cliff Custer of your staff, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-2989 or by e-mail at klh1@nrc.gov.

Sincerely,

/RA/

Kent L. Howard, Sr., Project Manager
Projects Branch 2
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket Nos. 50-334 and 50-412

Enclosure:
As stated

cc w/encl: See next page

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ADAMS Accession No.: ML080790392

OFFICE	LA:DLR	PM:RPB2:DLR	BC:RPB2:DLR w/comment
NAME	IKing	KHoward	RFranovich
DATE	03/31/08	03/21/08	04/1/08

OFFICIAL RECORD COPY

REQUEST FOR ADDITIONAL INFORMATION (RAI)
BEAVER VALLEY POWER STATION, UNIT 2
LICENSE RENEWAL APPLICATION
MECHANICAL AND CIVIL ENGINEERING BRANCH
SECTION 4.7.5 - SETTLEMENT OF STRUCTURES

RAI 4.7.5-1

The applicant did not list the number and type of safety significant structures and piping which have experienced, or may experience, significant settlement, and are therefore included in the Settlement Monitoring Program. The applicant did not state which structures will be monitored to the end of the period of extended operation. This is relevant information for writing the safety evaluation.

For each structure included in the Settlement Monitoring Program, indicate if the structure is being monitored and if it will be monitored to the end of the period of extended operation.

RAI 4.7.5-2

This RAI addresses specifically which safety related piping systems will be monitored for differential settlement. For each system, the RAI requests that the applicant provide the projected differential settlements for the monitored piping systems, and the maximum projected stresses and allowable stresses, to verify that a margin will be available at the end of the period of extended operation.

Provide a list of the safety-related piping systems that are subject to differential structure settlement of the attached structures. For each piping system provide the following:

- A. The projected 40-year and 60-year differential settlement of the anchor points.
- B. The highest projected stresses for 40-years and 60-years of operation, and the corresponding allowable stress.

RAI 4.7.5-3

The applicant stated that settlement monitoring has been discontinued for a number of structures. This RAI requests which structures were discontinued, and the basis for discontinuing this monitoring. This information is needed to complete the staff's evaluation.

Provide a list of the structures that were initially in the Settlement Monitoring Program, and for which monitoring has been discontinued. Provide the basis for discontinuing the monitoring.

ENCLOSURE

RAI 4.7.5-4

The applicant did not mention that there is fatigue associated with the buried piping, and yet refers to Unit 2 piping fatigue Tables. This RAI requests that the applicant provide any missing information on this subject, or else justify the statement regarding piping time-limited aging analysis (TLAA).

The last sentence of Section 4.7.5 states that the Unit 2 piping fatigue TLAA's have been dispositioned in accordance with 10 CFR 54.21(c)(1)(iii). Identify the fatigue effects on the buried piping associated with piping settlement, and clarify how the piping fatigue TLAA for the buried piping was dispositioned.

Letter to P. Sena III from K. Howard, dated, April 1, 2008

DISTRIBUTION:

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APPLICATION (TAC NOS. MD6593 AND 6594)

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Beaver Valley Power Station, Units 1 and 2

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Beaver Valley Power Station,
Units 1 and 2

- 2 -

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