

September 3, 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

Dear Mr. Sena:

By letter dated August 27, 2007, FirstEnergy Nuclear Operating Company submitted an application pursuant to Title 10 of the *Code of Federal Regulation* Part 54 (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. Clifford I. 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 [Kent.Howard@nrc.gov](mailto:Kent.Howard@nrc.gov).

Sincerely,

**IRA\**

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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DATE	8/29/08	9/3/08	9/3/08

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BEAVER VALLEY POWER STATION, UNITS 1 AND 2  
LICENSE RENEWAL APPLICATION  
REQUEST FOR ADDITIONAL INFORMATION

**RAI 3.3-A**

In license renewal application (LRA) Tables 3.3.2-1, 3.3.2-2, 3.3.2-11 and 3.3.2-12, the applicant has credited the Inspection of Internal Surfaces in Miscellaneous Piping and Ducting Components Program, to manage the aging effects of cracking and reduction of heat transfer of stainless steel, aluminum, and copper alloy <15% Zn moisture separators and heat exchangers. The applicant has described this program in LRA Section B2.22 and stated that it is consistent with the generic aging lessons learned (GALL) aging management program (AMP) XI.M38. However, the GALL AMP XI.M38 is credited for managing the aging effect of loss of material due to corrosion for steel components only.

- (a) Please justify how this program will manage the aging effect of reduction of heat transfer or provide a plant-specific program.
- (b) Please justify how this program will manage the aging effect of cracking of moisture separator or provide a plant-specific program.

**RAI 3.5-A**

In LRA Table 3.5.2-36, the applicant states in line 229 that for fire wraps, there is no aging effect requiring management. However, the applicant is proposing to use the Fire Protection Program. The applicant has referenced footnote 524 for this line item. Footnote 524 states that the Fire Protection (B.2.16) Program supplements aging effects management for fire barrier cable trays, conduits, ductwork and structural members.

Please clarify what you mean by “supplements aging effects management,” when there is no aging effect requiring management.

**RAI 3.2.2.3.2 - 1**

In LRA Table 3.2.2.-2, aging management review lines 25 and 36 describe that for reduction of heat transfer, the Water Chemistry Program will be used.

The staff noted that the One-Time Inspection Program is not identified to verify the effectiveness of the Water Chemistry Program in ensuring that the aging effect is being managed.

Explain how verification of the Water Chemistry Program is accomplished to ensure that the aging effect is managed.

**RAI B.2.17-2 follow-up**

In RAI B.2.17-2, since the frequency of inspections of fire hydrant gaskets of once every 18 months in the LRA is different than the recommended frequency of once every 12 months in the GALL AMP, the staff asked the applicant to justify why this was not an exception.

In its letter dated July 24, 2008, the applicant stated that although these gaskets perform no license renewal intended function, their condition is monitored by the Fire Water System Program and they are replaced as necessary. However, the frequency of inspection is still different than what the GALL AMP recommends and no justification was provided why this is not an exception.

Please provide justification why this is not an exception.

**RAI B.2.17-3 follow-up**

In RAI B.2.17-3, since the fire hydrant hose hydraulic tests are performed at various frequencies different than the GALL AMP recommended frequency of once every 12 months, the staff asked the applicant to justify why this was not an exception.

In its letter dated July 24, 2008, the applicant responded that fire hoses are consumables, and are routinely tested, inspected, and replaced when necessary. Criteria for inspection and replacement are based on accepted industry standards (e.g., NFPA-1962). Therefore, while these consumables are within the scope of license renewal, they do not require an aging management review. However, the frequency of hydraulic testing is still different than what the GALL AMP recommends and no justification was provided why this is not an exception.

Please provide justification why this is not an exception.

Letter to P. Sena III from K. Howard, dated September 3, 2008

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APPLICATION

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RidsNrrDeEmcb

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Units 1 and 2

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