

November 19, 2007

Mr. Mark B. Bezilla
Site Vice President
FirstEnergy Nuclear Operating Company
Davis-Besse Nuclear Power Station
Mail Stop A-DB-3080
5501 North State Route 2
Oak Harbor, OH 43449-9760

SUBJECT: DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1 - REQUEST FOR
ADDITIONAL INFORMATION RELATED TO MEASUREMENT UNCERTAINTY
RECAPTURE POWER UPRATE LICENSE AMENDMENT REQUEST
(TAC MD5240)

Dear Mr. Bezilla:

By letter to the Nuclear Regulatory Commission (NRC) dated April 12, 2007, as supplemented by letters dated September 18, October 3, and October 19, 2007, FirstEnergy Nuclear Operating Company submitted a request to make the operating license and technical specification changes necessary to allow an increase of approximately 1.63 percent in the rated thermal output, for the Davis-Besse Nuclear Power Station, Unit No. 1.

The NRC staff is reviewing your submittal and has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter.

The NRC staff considers that timely responses to requests for additional information help ensure sufficient time is available for staff review and contribute toward the NRC's goal of efficient and effective use of staff resources. If circumstances result in the need to revise the requested response date, please contact me at (301) 415-4037.

Sincerely,

/RA/

Thomas J. Wengert, Project Manager
Plant Licensing Branch III-2
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-346

Enclosure:
Request for Additional Information

cc w/encl: See next page

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REQUEST FOR ADDITIONAL INFORMATION

DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

DOCKET NO. 50-346

In reviewing the FirstEnergy Nuclear Operating Company's (FENOCs) submittal dated April 12, 2007, as supplemented by letters dated September 18, October 3, and October 19, 2007, related to FENOC's license amendment request (LAR) for measurement uncertainty recapture power uprate, for the Davis-Besse Nuclear Power Station, Unit No. 1 (DBNPS), the NRC staff has determined that the following information is needed in order to complete its review:

1. Provide representative flow profiles from plant operation that can be compared to the Alden Research Laboratory (ARL) test results provided in ER-227 Rev. 1 and the reasons for and implications of differences, if any.
2. Regarding the Attachment 1, Page 16, figure provided in the September 18, 2007, supplement:
 - a. Define the terms in the figure
 - b. Describe the relationship between the information and measured flow rate
 - c. Provide a comparison of the Page 16 information with Table 3 on Page 9 of ER-227 Rev. 1.
 - d. Coverage of Page 16 information versus operating history including from time of initial operation and after transducer replacement
 - e. Provide reason for correspondence between the "ups and downs" in the Page 16 plots for the two pipes
3. Provide flow profile information before and after transducer replacement.
4. Provide assessment of how transducer replacement and operating history changes affected calibration.
5. Discuss how noise effects perturbed the ARL test results, in comparison with noise effects, when installed in the plant.
6. With respect to Items 1 - 5 above, provide comparison with other plant parameters that vary with power level behavior. The intent is to examine confirmation of CheckPlus indication by use of other plant information.
7. Taking the difference between the first table in Appendix A of ER-227 Rev. 1, the CAL90A Straight Pipe Paths 1-4 and Paths 5-8 for Loop A, give a differential value of 0.37 percent. The next table that covers the CAL90E Horizontal configuration also shows a difference but the difference is reversed. What are the reasons for these differences and how this is consistent with the claimed uncertainty?
8. Provide ER-168 or, alternatively, provide the information pertinent to the Reynolds Number that is summarized in ER-227 Rev.1 Figure 6.

Enclosure