

July 10, 2008

Mr. Barry S. Allen  
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 RESPONSE TO GENERIC LETTER 2004-02, POTENTIAL IMPACT OF DEBRIS BLOCKAGE ON EMERGENCY RECIRCULATION DURING DESIGN BASIS ACCIDENTS AT PRESSURIZED-WATER REACTORS (TAC NO. MC4681)

Dear Mr. Allen:

By letter to the Nuclear Regulatory Commission (NRC) dated February 28, 2008, FirstEnergy Nuclear Operating Company submitted a supplemental response to Generic Letter (GL) 2004-02, "Potential Impact of Debris Blockage on Emergency Recirculation during Design Basis Accidents at Pressurized-Water Reactors" for Davis-Besse Nuclear Power Station, Unit No. 1 (DBNPS).

The cognizant NRC staff has reviewed the licensee's submittal. The process involved detailed review by a team of 10 subject matter experts, with focus on the review areas described in the NRC's "Revised Content Guide for Generic Letter 2004-02 Supplemental Responses," (Agencywide Documents Access and Management System Accession No. ML073110389). The review process also included a separate "holistic" review of the licensee's submittal, informed by inputs from the subject matter experts that focused on whether the licensee has demonstrated overall that its corrective actions for GL 2004-02 are adequate.

The NRC staff has no further questions at this time regarding the performance of DBNPS's emergency core cooling system strainers. In large part, this conclusion is based on the very low potential debris loading at DBNPS, as discussed in the licensee's supplemental response.

However, the NRC staff has determined that additional information is required to complete the review. The specific information requested is addressed in the enclosure to this letter. During a discussion with your staff on June 25, 2008, it was agreed that you would provide a response within 90 days of issuance of the final NRC staff safety evaluation on WCAP-16793.

B. Allen

- 2 -

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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Davis-Besse Nuclear Power Station, Unit No. 1

cc:

Manager, Site Regulatory Compliance  
FirstEnergy Nuclear Operating Company  
Davis-Besse Nuclear Power Station  
Mail Stop A-DB-3065  
5501 North State Route 2  
Oak Harbor, OH 43449-9760

Director, Ohio Department of Commerce  
Division of Industrial Compliance  
Bureau of Operations & Maintenance  
6606 Tussing Road  
P.O. Box 4009  
Reynoldsburg, OH 43068-9009

Resident Inspector  
U.S. Nuclear Regulatory Commission  
5503 North State Route 2  
Oak Harbor, OH 43449-9760

Stephen Helmer  
Supervisor, Technical Support Section  
Bureau of Radiation Protection  
Ohio Department of Health  
35 East Chestnut Street, 7<sup>th</sup> Floor  
Columbus, OH 43215

Carol O'Claire, Chief, Radiological Branch  
Ohio Emergency Management Agency  
2855 West Dublin Granville Road  
Columbus, OH 43235-2206

Zack A. Clayton  
DERR  
Ohio Environmental Protection Agency  
P.O. Box 1049  
Columbus, OH 43266-0149

State of Ohio - Transportation Department  
Public Utilities Commission  
180 East Broad Street  
Columbus, OH 43266-0573

Principal Assistant Attorney General  
Environmental Enforcement Section  
State Office Tower  
30 East Broad Street, 25<sup>th</sup> Floor  
Columbus, OH 43215

President, Board of County  
Commissioners of Ottawa County  
Port Clinton, OH 43252

President, Board of County  
Commissioners of Lucas County  
One Government Center, Suite 800  
Toledo, OH 43604-6506

The Honorable Dennis J. Kucinich  
United States House of Representatives  
Washington, D.C. 20515

The Honorable Dennis J. Kucinich  
United States House of Representatives  
14400 Detroit Avenue  
Lakewood, OH 44107

Joseph J. Hagan  
President and Chief Nuclear Officer  
FirstEnergy Nuclear Operating Company  
Mail Stop A-GO-19  
76 South Main Street  
Akron, OH 44308

David W. Jenkins, Attorney  
FirstEnergy Corporation  
Mail Stop A-GO-15  
76 South Main Street  
Akron, OH 44308

Danny L. Pace  
Senior Vice President, Fleet Engineering  
FirstEnergy Nuclear Operating Company  
Mail Stop A-GO-14  
76 South Main Street  
Akron, OH 44308

Davis-Besse Nuclear Power Station, Unit No. 1

cc:

Manager, Fleet Licensing  
FirstEnergy Nuclear Operating Company  
Mail Stop A-GO-2  
76 South Main Street  
Akron, OH 44308

Director, Fleet Regulatory Affairs  
FirstEnergy Nuclear Operating Company  
Mail Stop A-GO-2  
76 South Main Street  
Akron, OH 44308

Jeannie M. Rinckel  
Vice President, Fleet Oversight  
FirstEnergy Nuclear Operating Company  
Mail Stop A-GO-14  
76 South Main Street  
Akron, OH 44308

Paul A. Harden  
Vice President, Nuclear Support  
FirstEnergy Nuclear Operating Company  
Mail Stop A-GO-14  
76 South Main Street  
Akron, OH 44308

James H. Lash  
Senior Vice President of Operations  
and Chief Operating Officer  
FirstEnergy Nuclear Operating Company  
Mail Stop A-GO-14  
76 South Main Street  
Akron, OH 44308

REQUEST FOR ADDITIONAL INFORMATION

DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

DOCKET NO. 50-346

In reviewing the FirstEnergy Nuclear Operating Company's (FENOC's) submittal dated February 28, 2008, related to Generic Letter (GL) 2004-02, "Potential Impact of Debris Blockage on Emergency Recirculation during Design-Basis Accidents at Pressurized-Water Reactors," for the Davis-Besse Nuclear Power Station, Unit No. 1 (DBNPS), the Nuclear Regulatory Commission (NRC) staff has determined that the following information is needed in order to complete its review:

Background

The NRC staff considers in-vessel downstream effects to be not fully addressed at DBNPS, as well as at other pressurized water reactors. DBNPS's GL 2004-02 submittal refers to draft WCAP-16793-NP, "Evaluation of Long-Term Cooling Considering Particulate, Fibrous, and Chemical Debris in the Recirculating Fluid." The NRC staff has not issued a final safety evaluation (SE) for WCAP-16793-NP, nor is the NRC staff aware that satisfactory testing for a problem bed of debris at the core inlet has been performed for DBNPS plant conditions and fuel type.

FENOC may demonstrate that in-vessel downstream effects issues are resolved for DBNPS by showing that the licensee's plant conditions are bounded by the final WCAP-16793-NP and the corresponding final NRC staff SE, and by addressing the conditions and limitations in the final SE. Alternately, FENOC may resolve this item by demonstrating, without reference to WCAP-16793 or the NRC staff SE, that in-vessel downstream effects have been addressed at DBNPS.

Request for Additional information

FENOC is requested to report how DBNPS has addressed the in-vessel downstream effects issue within 90 days of issuance of the final NRC staff SE on WCAP-16793. Note that the NRC staff is developing a Regulatory Issue Summary to inform the industry of the staff's expectations and plans regarding resolution of this remaining aspect of Generic Safety Issue 191.

Enclosure