



FirstEnergy Nuclear Operating Company

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January 18, 2008  
L-08-013

10 CFR 50.54(f)

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
11555 Rockville Pike  
Rockville, MD 20852

**SUBJECT:**

Davis-Besse Nuclear Power Station, Unit No. 1  
Docket No. 50-346, License No. NPF-3  
Supplemental Information Regarding Response to Generic Letter 2007-01  
(TAC No. MD4320)

In a letter dated February 7, 2007, the Nuclear Regulatory Commission (NRC) issued Generic Letter 2007-01, "Inaccessible or Underground Power Cable Failures That Disable Accident Mitigation Systems or Cause Plant Transients." FirstEnergy Nuclear Operating Company (FENOC) provided a response for the Davis-Besse Nuclear Power Station, Unit 1 (DBNPS) in letter Serial Number 3333, dated May 8, 2007.

The attachment contains the requested supplemental information, which is based on a draft Request for Additional Information (RAI) that was provided on October 25, 2007. During a teleconference on December 6, 2007, representatives from the NRC and FENOC agreed that the supplemental information would be provided without a formal RAI being issued.

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 – Fleet Licensing, at (330) 761-6071.

I declare under penalty of perjury that the foregoing is true and correct. Executed on January 18, 2008.

Sincerely,

A127

NER

Davis-Besse Nuclear Power Station, Unit No. 1  
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Attachment:  
Supplemental Information Regarding Response to Generic Letter 2007-01,  
"Inaccessible or Underground Power Cable Failures That Disable Accident Mitigation  
Systems or Cause Plant Transients."

cc: NRC Region III Administrator  
NRC Resident Inspector  
NRR Project Manager  
Utility Radiological Safety Board

Attachment  
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Supplemental Information Regarding Response to Generic Letter 2007-01,  
"Inaccessible or Underground Power Cable Failures That Disable Accident Mitigation  
Systems or Cause Plant Transients."

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The requested supplemental information is based on a draft Request for Additional Information (RAI) that was provided on October 25, 2007. During a teleconference on December 6, 2007, representatives from the Nuclear Regulatory Commission and FirstEnergy Nuclear Operating Company (FENOC) agreed that the supplemental information would be provided without a formal RAI being issued. The request is listed below, in bold, and is followed by the FENOC response for DBNPS.

**In your letter dated May 8, 2007, you responded that preventive maintenance activities have been created to perform resistance/EMAX testing on underground 13.8-kilovolt and 4160-volt cables on non-motor loads on a periodic basis. Provide a description of resistance/EMAX testing.**

The resistance/EMAX testing is performed using motor testing equipment. The procedure directs testing of the transformer windings and the associated cables by configuring the transformer leads per the testing procedure and the associated preventive maintenance task. The following tests are performed: Standard Alternating Current (AC) Motor Test, Polarization Index/Dielectric Absorption Test, and Step Voltage Test. The Standard AC Motor test applies a test voltage and determines a resistance value for the transformer and cable. The Polarization Index/Dielectric Absorption test applies a voltage and determines Polarization Index based on the insulation resistance. The Step Voltage test assesses the insulation properties by applying a test voltage based on the winding rating.

Based on the test results, individual cables are tested to determine if the cable has degraded or potentially contains a fault. Additional corrective actions are based on the individual test results.