

August 30, 2007

Mr. J. Randy Johnson  
Vice President - Farley  
Joseph M. Farley Nuclear Plant  
7388 North State Highway 95  
Columbia, AL 36319

SUBJECT: JOSEPH M. FARLEY NUCLEAR PLANT, UNITS 1 AND 2 — RESPONSE TO  
GENERIC LETTER 2006-02 "GRID RELIABILITY AND THE IMPACT ON  
PLANT RISK AND THE OPERABILITY OF OFFSITE POWER"  
(TAC NO. MD0979 AND MD0980)

Dear Mr. Johnson:

On February 1, 2006, the U.S. Nuclear Regulatory Commission (NRC) issued GL 2006-02, "Grid Reliability and the Impact on Plant Risk and the Operability of Offsite Power" (Agencywide Documents Access and Management System (ADAMS) Accession No. ML060180352) to all holders of operating licenses for nuclear power reactors except those who have permanently ceased operation and have certified that fuel has been removed from the reactor vessel.

GL 2006-02 notified licensees of the NRC staff's need for information in four areas as follows:

- (1) use of protocols between the nuclear power plant (NPP) and the transmission system operator (TSO), independent system operator (ISO), or reliability coordinator/authority (RC/RA) and the use of transmission load flow analysis tools (analysis tools) by TSOs to assist NPPs in monitoring grid conditions to determine the operability of offsite power systems under plant technical specifications (TSs). (The TSO, ISO, or RA/RC is responsible for preserving the reliability of the local transmission system. In this GL the term TSO is used to denote these entities);
- (2) use of NPP/TSO protocols and analysis tools by TSOs to assist NPPs in monitoring grid conditions for consideration in maintenance risk assessments;
- (3) offsite power restoration procedures in accordance with Section 2 of NRC Regulatory Guide (RG) 1.155, "Station Blackout;" and
- (4) losses of offsite power caused by grid failures at a frequency equal to or greater than once in 20 site-years in accordance with RG 1.155.

Subsequent to the GL, the NRC issued a Request For Additional Information (RAI), (ADAMS Accession No. ML063380308) regarding the resolution of GL 2006-02 to 63 of 65 holders of operating licenses for nuclear power reactors. The RAI requested that licensees respond to questions in the following areas:

- (1) Switchyard Minimum Voltage;
- (2) Loss of Real-Time Contingency Analysis (RTCA) Capability;
- (3) Verification of RTCA Predicted Post-Trip Voltage;
- (4) Identification of Applicable Single Contingencies;
- (5) Seasonal Variation in Grid Stress (reliability and Loss-of-offsite power (LOOP) Probability;
- (6) Interface With Transmission System Operator During Extended Plant Maintenance.

By letter(s) dated March 31, 2006 (ADAMS Accession No. ML060900618) and January 30, 2007 (ADAMS Accession No. ML070300848) you responded to the information request of GL 2006-02 and the subsequent RAI. Based on the information you provided, the staff has concluded that your responses are adequate and that no further action is requested of you at this time.

If you have any questions, please contact me at 301-415-1438.

Sincerely,

EMarinos for **/RA/**

Karen Cotton, Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-348 and 50-364

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J. R. Johnson

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- (1) Switchyard Minimum Voltage;
- (2) Loss of Real-Time Contingency Analysis (RTCA) Capability;
- (3) Verification of RTCA Predicted Post-Trip Voltage;
- (4) Identification of Applicable Single Contingencies;
- (5) Seasonal Variation in Grid Stress (reliability and Loss-of-offsite power (LOOP) Probability;
- (6) Interface With Transmission System Operator During Extended Plant Maintenance.

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Joseph M. Farley Nuclear Plant, Units 1 & 2

cc:

Mr. B. D. McKinney, Licensing Manager  
Southern Nuclear Operating Company, Inc.  
P.O. Box 1295  
Birmingham, AL 35201-1295

Mr. M. Stanford Blanton  
Balch and Bingham Law Firm  
P.O. Box 306  
1710 Sixth Avenue North  
Birmingham, AL 35201

Mr. J. Gasser  
Executive Vice President  
Southern Nuclear Operating Company, Inc.  
P.O. Box 1295  
Birmingham, AL 35201

State Health Officer  
Alabama Department of Public Health  
434 Monroe St.  
Montgomery, AL 36130-1701

Chairman  
Houston County Commission  
P.O. Box 6406  
Dothan, AL 36302

Resident Inspector  
U.S. Nuclear Regulatory Commission  
7388 N. State Highway 95  
Columbia, AL 36319

William D. Oldfield  
SAER Supervisor  
Southern Nuclear Operating Company, Inc.  
P.O. Box 470  
Ashford, AL 36312