

May 3, 2007

Mr. Preston D. Swafford
Interim Chief Nuclear Officer
Nuclear Support
Tennessee Valley Authority
6A Lookout Place
1101 Market Street
Chattanooga, TN 37402-2801

SUBJECT: WATTS BAR NUCLEAR PLANT, UNIT 1 - RESPONSE TO GENERIC LETTER
2006-02 "GRID RELIABILITY AND THE IMPACT ON PLANT RISK AND THE
OPERABILITY OF OFFSITE POWER" (TAC NO. MD1049)

Dear Mr. Swafford:

On February 1, 2006, the U.S. Nuclear Regulatory Commission (NRC) issued Generic Letter (GL) 2006-02, "Grid Reliability and the Impact on Plant Risk and the Operability of Offsite Power" (Agencywide Document 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 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 letters dated April 3, 2006 (ADAMS Accession No. ML060950306), and January 31, 2007 (ADAMS Accession No. ML070330051), the Tennessee Valley Authority (TVA) responded to the information request of GL 2006-02 and the subsequent RAI, respectively. Based on the information provided, the staff has concluded that compliance is being maintained with NRC regulatory requirements governing electric power sources and associated personnel training and considers TVA's response to GL 2006-02 complete for the Watts Bar Nuclear Plant, Unit 1.

If you have any questions, please contact me 301-415-3974.

Sincerely,

/RA/

Brendan T. Moroney, Project Manager
Plant Licensing Branch II-2
Division of Operating Licensing
Office of Nuclear Reactor Regulation

Docket Nos. 50-390

cc: See next page

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