Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

September 24, 2013

10 CFR 21.21

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Browns Ferry Nuclear Plant, Units 1, 2, and 3
Renewed Facility Operating License Nos. DPR-33, DPR-52, and DPR-68
NRC Docket Nos. 50-259, 50-260, and 50-296

Subject: **10 CFR Part 21 Interim Report - Engine Systems, Inc. - Relay Contact A4X-A4Y**

The Tennessee Valley Authority recently identified Relay Contact A4X-A4Y for Relay FSR1X, that is part of the D Emergency Diesel Generator shutdown circuit, failed to operate as expected. Corrective Action Program documents were written to document the failure of the relay contact and to perform an engineering evaluation of the condition. TVA's evaluation concluded that this condition has the potential to constitute a reportable condition pursuant to Title 10 of the Code of Federal Regulations (10 CFR) Part 21, "Reporting of Defects and Noncompliance," and as such, requires additional evaluation.

The Tennessee Valley Authority is working with Engine Systems, Inc. to determine the cause of the failure of Relay Contact A4X-A4Y. At this time, Engine Systems, Inc. expects to complete their 10 CFR Part 21 evaluation by November 15, 2013. Based on this expected completion date, the Tennessee Valley Authority will submit a final 10 CFR Part 21 report by December 3, 2013. The enclosure to this letter provides information required by 10 CFR Part 21.21(a)(2) for the interim report of this condition.

There are no new regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact J. E. Emens, Jr., Nuclear Site Licensing Manager, at (256) 729-2636.

Respectfully,

K. J. Polson
Vice President

IE19
NRR

Enclosure: 10 CFR Part 21 Interim Report - Engine Systems, Inc. - Relay Contact A4X-A4Y

cc (w/ Enclosure):

NRC Regional Administrator - Region II
NRC Senior Resident Inspector - Browns Ferry Nuclear Plant

Enclosure

Browns Ferry Nuclear Plant,
Units 1, 2, and 3

10 CFR Part 21 Interim Report
Engine Systems, Inc. - Relay Contact A4X-A4Y

See Enclosed

10 CFR Part 21 Interim Report - Engine Systems, Inc. - Relay Contact A4X-A4Y

Name and Address of the Individual Making the Interim Report

Mr. K. J. Polson
Vice President
Browns Ferry Nuclear Plant
Tennessee Valley Authority
Post Office Box 2000
Decatur, Alabama 35609-2000

Identification of the facility, the activity, or basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect (under evaluation)

On July 26, 2013, the Tennessee Valley Authority identified Relay Contact A4X-A4Y for Relay FSR1X, that is part of the D Emergency Diesel Generator (EDG) shutdown circuit, failed to operate as expected.

Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect (under evaluation)

Engine Systems, Inc.
175 Freight Rd
Rocky Mount, NC 27804

Description of the Deviation or Failure to Comply that is being Evaluated

During performance of the post maintenance testing for the D EDG governor replacement modification, when the D EDG was given a normal stop signal from the control room, the D EDG did not idle as expected. Troubleshooting identified that the normally closed Relay Contact A4X-A4Y on Relay FSR1X was closed which caused the fuel actuator to go to zero. This caused the D EDG to shutdown instead of idle.

Evaluation Status

Relay Contact A4X-A4Y is being returned to Engine Systems, Inc. to determine if a defect exists. If the relay contact is determined to be defective, Engine Systems, Inc. will perform a 10 CFR Part 21 evaluation.

Date on which Evaluation will be Completed

Engine Systems, Inc. expects to complete their 10 CFR Part 21 evaluation by November 15, 2013. Based on this expected completion date, the Tennessee Valley Authority will submit a final 10 CFR Part 21 report by December 3, 2013.