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SUBJECT: Discusses info that test rept re Oconee integrated emergency power & engineered safeguards test will contain.

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**DUKE POWER**

January 30, 1997

U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555

Subject: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287  
Oconee Integrated Emergency Power and Engineered  
Safeguards Test

In a letter dated November 21, 1996, Duke Power committed to perform a one-time integrated emergency power and engineered safeguards (ES) test. In addition, Duke Power committed to provide the data obtained from the test to demonstrate the adequacy of the Oconee emergency power system.

On January 2-5, 1997, Duke Power performed the six parts of the one-time integrated emergency power and ES test. The test data is being processed and will be provided to the NRC in a single test report. The test report will contain information on the following items.

1. Test scenario description
2. Test acceptance criteria
3. Monitoring and data acquisition
4. System response and recorded data
  - Test 1-6 - Keowee/Lee response (including partial load rejection test)
  - Test 1-6 - Main feeder bus voltage and load profile
  - Test 1-6 - 4kV motor starting profile with overcurrent relay
  - Test 1-6 - 600V safety motor control center voltage profile
  - Test 1-6 - 600V reactor building cooling unit starting profile
  - Test 3-6 - motor operated valve stroke profile (including voltage and current)
  - Any observed response anomalies

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A test report consisting of the above scope will be provided to the NRC by April 30, 1997.

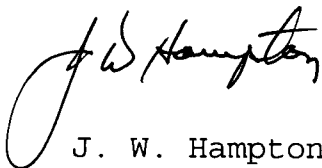
Once the test report is completed, work will begin to analyze the test configurations using the CYME program. Analyses will be performed using CYME with models being set up equivalent to test scenarios 2, 5, and 6 (refer to the letter dated November 21, 1996 for test descriptions). The purpose of the analyses will be to further demonstrate that the CYME program adequately predicts the electrical power distribution system response(s).

The CYME model input data will be updated to include 1) the new data gathered from additional motor signature tests, and 2) the Lee CT generator benchmark data reflecting recent modifications in the generator voltage regulator droop setting. Also, the CYME model input data will be updated based on any lessons learned from the data collected during the six emergency power test. The CYME output for generator, motor and bus voltage, and current waveforms will be compared to actual test data. All changes to the model as a result of these six test will be documented in the associated calculations as a part of the calculation revision. Any changes to the CYME model will improve the ability of the CYME model to more accurately predict system response(s) to the worst case design scenarios.

The CYME program results will be provided to the NRC by December 31, 1997.

If there are any questions regarding this submittal, please contact Michael Bailey at (864) 885-4390.

Very Truly Yours,

A handwritten signature in cursive script, appearing to read "J. W. Hampton".

J. W. Hampton, Site Vice President  
Ocone Nuclear Station

MEB

cc: L. A. Reyes, Regional Administrator  
Region II

M. A. Scott, Senior Resident Inspector  
Oconee Nuclear Site

D. E. LaBarge, Project Manager  
NRR