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J. L. Wilson
Vice President, Sequoyah Nuclear Plant

February 28, 1992

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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Gentlemen:

In the Matter of	)	Docket Nos. 50-327
Tennessee Valley Authority	)	50-328

SEQUOYAH NUCLEAR PLANT (SQN) - UNITS 1 AND 2 - DIESEL GENERATOR (DG) RELIABILITY DATA REPORT

The enclosed report provides details concerning the 6.9-kilovolt DGs installed at SQN. This report is being submitted in accordance with Technical Specification 6.9.2.2.

Please direct questions concerning this issue to K. C. Weller at (615) 843-7527.

Sincerely,

J. L. Wilson

Enclosure
cc: See page 2

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cc (Enclosure):
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SEQUOYAH NUCLEAR PLANT (SQN)
UNITS 1 AND 2
DIESEL GENERATOR (DG) RELIABILITY DATA REPORT FOR 1991

This report is submitted to comply with Technical Specification (TS) 6.9.2.2 for an annual data report on DG reliability. The 6.9-kilovolt DGs at SQN serve as the onsite Class 1E power source. Surveillance requirements of the TSs that demonstrate DG operability are accomplished by the routine performance of Surveillance Instructions (SIs) 1-SI-OPS-082-007.A and B and 2-SI-OPS-082-007.A and B, "Electrical Power System - Diesel Generator"; 0-SI-OPS-082-007.0, "Diesel Generator Operability Verification"; the SI-26 series for loss of offsite power coincident with a safety injection; the SI-102 series for periodic, vendor-recommended inspections; and the Standard Operating Instruction (SOI) 82 series for normal operation of DGs.

The information listed below is a tabulation of DG testing data taken from the aforementioned SIs and/or SOIs. The data was taken from testing performed during the period January 1, 1991, through December 31, 1991. "Valid test" and "invalid test" are defined in accordance with the criteria established in Regulatory Guide 1.108, Revision 1, August 1977.

Diesel Generator	Valid Test	Invalid Test	Failures
1A-A	15	14	0
1B-B	16	23	1*
2A-A	12	23	0
2B-B	17	24	0

* Power CT failure during the performance of SI-26.1B

The above data indicates an average of 36 starts per DG with one failure. One failure out of 144 valid and invalid tests supports the high confidence level that the DGs will perform when required.

SQN continues to recognize the importance of reducing the number of DG starts as indicated by the trend below:

1988: approx. 170 starts per DG per year
1989: approx. 55 starts per DG per year
1990: approx. 36 starts per DG per year
1991: 36 starts per DG per year

Continued effort will keep DG starts as low as possible and thereby enhance engine life and DG reliability.