TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

September 3, 1982

WBRD-50-390/82-82
WBRD-50-391/82-78

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - HEAT LOSS FROM POWER SYSTEMS DIESELS - WBRD-50-390/82-82, WBRD-50-391/82-78 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on July 29, 1982 in accordance with 10 CFR 50.55(e) as NCR WBN NEB 8214. Enclosed is our first interim report. The submittal date of this report was discussed with Inspector D. Quick on August 31, 1982. We expect to submit our next report on or about December 8, 1982. We consider 10 CFR Part 21 applicable to this deficiency.

If you have any questions, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Licensing

Enclosure
cc: Mr. Richard C. DeYoung, Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

OFFICIAL COPY

IE 27

ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
HEAT LOSS FROM POWER SYSTEMS DIESELS
WBRD-50-390/82-82, WBRD-50-391/82-78
NCR WBN NEB 8214
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

The original published data for the Power Systems (Rocky Mount, North Carolina) diesels gave the radiated heat loss of their engine at 1.37 Btu/hp-min. Power Systems has performed a heat load test, and their data indicates the radiated heat loss of the GM-EMB 16-645E4 diesel engine to be 3.82 Btu/hp-min ±6 percent. This represents a heat load increase of approximately 23,450 Btu/min.

Interim Progress

TVA is in the process of gathering more data to examine for this NCR. More information will be provided in our next report.