

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

83 SEP 9 ~~September~~ 6, 1983

WBRD-50-390/83-48
WBRD-50-391/83-46

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

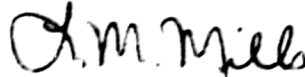
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - MASS OF HVAC SUPPORTS NOT INCLUDED IN
FREQUENCY CALCULATIONS - WBRD-50-390/83-48, WBRD-50-391/83-46- FIRST INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
Linda Watson on August 9, 1983 in accordance with 10 CFR 50.55(e) as
NCR WPN SWP 8254 R1. Enclosed is our first interim report. We expect to
submit our next report on or about October 4, 1983.

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

Records Center (Enclosure)
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
MASS OF HVAC SUPPORTS NOT INCLUDED IN FREQUENCY CALCULATIONS
NCR WBN SWP 8254
WBRD-50-390/83-48, WBRD-50-391/83-46
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

During a design review TVA engineers identified six heating, ventilating, and air conditioning (HVAC) typical support designs (identified in drawings 47A055-48, -48A, -62, -118, -125 and -209) which do not meet requirements set forth in Watts Bar Design Criteria WB-DC-40-31.8 "Seismically Qualifying Round and Rectangular Duct." The specific requirement which has not been met calls for the inclusion of a support's mass in the evaluation of the natural frequency of the support in the restrained direction when the support's mass is greater than 50 percent of the supported mass. This condition also applies to various modified HVAC supports which have a mass greater than 50 percent of the supported mass.

Interim Progress

TVA is reviewing all HVAC typical supports and design modifications to ensure that they meet all design requirements.

We expect to supply NRC-OIE with the next report on this matter by October 4, 1983.