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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

July 17, 1981

YCRD-50-566/81-04

YCRD-50-567/81-03

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303



Dear Mr. O'Reilly:

YELLOW CREEK NUCLEAR PLANT UNITS 1 AND 2 - UNVERIFIED SEISMIC ANALYSIS FOR
FINAL DESIGN - YCRD-50-566/81-04, YCRD-50-567/81-03 - SECOND INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. W. Wright on February 12, 1981, in accordance with 10 CFR 50.55(e)
as NCR YCN YCP 8101. This was followed by our first interim report dated
March 13, 1981. Enclosed is our second interim report. We expect to
submit our next report by October 28, 1981.

If you have any questions concerning this matter, please get in touch with
D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Jr., Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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ENCLOSURE

YELLOW CREEK NUCLEAR PLANT UNITS 1 AND 2
UNVERIFIED SEISMIC ANALYSIS FOR FINAL DESIGN
YCRD-50-566/81-04, YCRD-50-567/81-03
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

During review of design drawings, it was discovered that the final design had been completed and construction drawings issued based on preliminary seismic analysis. This nonconforming condition occurred for the essential raw cooling water (ERCW) pumping station, equipment hatch access platform, and waste management building. Engineers failed to observe the seismic input had not been verified.

Interim Progress

TVA is proceeding to complete the seismic analyses for the structures in question. The status of these analyses are as follows:

1. Essential Raw Cooling Water Pumping Station

The final seismic structural analyses has been checked and verified. An evaluation of the verified seismic structural loads on the structure has been completed with no changes required to the original design.

The final seismic floor response spectra has been made but has not been verified.

2. Equipment Hatch Access Platform

The final seismic structural analysis has been checked and verified. An evaluation of the verified seismic structural loads on the structure has been completed with no changes required to the original design.

3. Waste Management Building

Because of design changes to the structure, a new seismic analysis has been made, checked, and verified. An evaluation of the new seismic structural response loads on the structure has been completed with no changes being required in the original design. The new loads were of smaller magnitude than the original loads.

The final seismic floor response spectra has been made but has not been verified.