

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

December 31, 1980

U.S. NRC
OFFICE OF INSPECTION AND ENFORCEMENT
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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:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - UNACCEPTABLE WELDS ON DUCT SUPPORTS
IN THE AUXILIARY BUILDING - NCR 2654R - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
F. Cantrell on December 1, 1980, in accordance with 10 CFR 50.55(e).
Enclosed is our final report.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure

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

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
UNACCEPTABLE WELDS ON DUCT SUPPORTS IN THE AUXILIARY BUILDING
NCR 2654R
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

In a random inspection of 245 duct supports inspected before March 27, 1980, in the Auxiliary Building, approximately 22 percent of these were found to have welds which are unacceptable. The defects found include undersized welds, incomplete welds, slag inclusions, porosity, and overlap.

Safety Implications

The duct supports in question are Seismic Category 1 and 1L. The ducts furnish air conditioning to electrical equipment necessary for the shutdown of the plant. Failure of the welds during a seismic event could result in reduced cooling to the equipment, or the ducts could fall on safety-related equipment, which could adversely affect the safety of the plant.

Corrective Action

A program has been implemented to reinspect all welds on duct supports in the Auxiliary Building which were inspected before March 27, 1980. All weld defects encountered will be repaired as necessary. Repairs will be completed by August 1981 for unit 1 and May 1982 for unit 2. Welding inspectors have been reinstructed in the proper method of inspecting welds to prevent any recurrence of this problem.