

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

August 27, 1985

WBRD-50-390-85-28

WBRD-50-391/85-27

U.S. Nuclear Regulatory Commission
Region II
Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Dr. Grace:

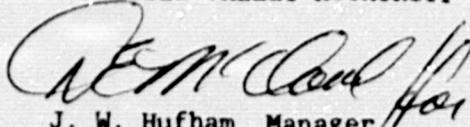
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - DIESEL GENERATOR EXHAUST SILENCERS ARE
IMPROPERLY ANCHORED - WBRD-50-390/85-28, WBRD-50-391/85-27 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
Al Ignatonis on August 14, 1985 in accordance with 10 CFR 50.55(e) as
Significant Condition Report (SCR) WBN CEB 8517. Enclosed is our final report.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY



J. W. Hufham, Manager
Licensing and Risk Protection

Enclosure

cc: Mr. James Taylor, 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
DIESEL GENERATOR EXHAUST SILENCERS ARE IMPROPERLY ANCHORED
WBRD-50-390/85-28, WBRD-50-391/85-27
SCR WBN CEB 8517
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

A reinspection of the Watts Bar Nuclear Plant units 1 and 2 (WBN) diesel generator exhaust silencer foundations was performed as a result of NRC Information Notice 85-25 and Bellefonte Nuclear Plant (BLN) nonconformance report (NCR) 4353 (BLRD-50-438/85-20). The reinspection revealed that the nuts on the expansion end of the exhaust silencer foundation support were tightened, thus preventing the sliding movement of the support required to accommodate thermal conditions.

The apparent cause of this deficiency is the Office of Engineering (OE) did not reference all design input documents that have specifications for installation of equipment on the design drawings required for the installation of the diesel generator exhaust silencer support foundation. Therefore, construction personnel did not know how to properly install the supports.

Safety Implications

The identified deficiencies could cause shearing of the anchor bolts or cracking of the concrete support pedestal. This exhaust silencer support failure could happen because of a lack of support sliding movement to accommodate thermal expansion. Exhaust silencer support failure could lead to detrimental movement of the exhaust silencer during emergency operation of the diesel generator. This movement could crimp the exhaust system to such an extent that the unwarranted shutdown or power reduction of the diesel generator could potentially occur. Therefore, if this condition had remained uncorrected, the safe operation of the plant could have been adversely affected.

Corrective Action

TVA will loosen the nuts on the expansion end of the exhaust silencer support and add a jam nut as specified by the vendor, Morrison-Knudson Company, Incorporated, on drawing No. 6035D09001. This corrective action will be complete by October 15, 1985.

In order to prevent recurrence of problems associated with inadequate information on design installation drawings, a memorandum will be written and sent to all affected OE personnel to reinforce the requirements of OEP-08, section 5.11.3, to reference all appropriate design input documents on design drawings. This memorandum will be issued by September 3, 1985.