

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
5N 157B Lookout Place

February 10, 1986

WBRD-50-390/86-23
WBRD-50-391/86-19

U.S. Nuclear Regulatory Commission
Region II
Attention: 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 ELECTRICAL BOARD ROOM
EXHAUST FAN FLOW RATES - WBRD-50-390/86-23, WBRD-50-391/86-19 - INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector Al Ignatonis on January 9, 1986 in accordance with 10 CFR 50.55(e) as NCR W-311-P. Enclosed is our interim report. We expect to submit our next report on or about April 23, 1986. We are still evaluating 10 CFR Part 21 applicability to this deficiency.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY


R. L. Gridley
Manager of Licensing

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 ELECTRICAL BOARD ROOM EXHAUST FAN FLOW RATES
WBRD-50-390/86-23, WBRD-50-391/86-19
NCR W-311-P
10 CFR 50.55(e)
INTERIM REPORT

Description of Deficiency

A potential deficiency exists in the delivered air flow rate from the diesel generator (DG) 480V electrical board room exhaust fans 1A-A, 1B-B, 2A-A, and 2B-B at Watts Bar Nuclear Plant (WBN). As identified by nonconformance report (NCR) W-311-P, the subject fans will not supply the design air flow rate of 2850 cubic feet per minute (cfm) without the motor tripping on overload. The design flow rate is specified on TVA drawing 47W866-9.

Safety Implications

A failure of the fans to provide design specified air flow rates could result in a temperature increase in the DG electrical board room to a temperature in excess of 104°F. This could adversely affect the operation of essential electrical equipment in the room, and subsequently, the performance of an associated DG. As such, the subject deficiency potentially could adversely affect the safety of operations of the plant.

Interim Progress

TVA has tested the motor for fan 1A-A in a no-load condition with the fan belts removed. This testing identified that the amperage reading on each leg is higher than the motor nameplate amperage. TVA has contacted the motor manufacturer, Reliance Electric Company, Cleveland, Ohio and is still in the process of evaluating this deficiency to determine what corrective actions are necessary.

TVA will provide our next report on this item to the NRC on or about April 23, 1986.