

830 Power Building
TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

MAY 6 1977

Central File
50-390
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Mr. Norman C. Moseley, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 818
230 Peachtree Street, NW.
Atlanta, Georgia 30303

Dear Mr. Moseley:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - REPORTABLE DEFICIENCY -
SIS PUMP MOTOR 1A-1 - SHORTED AND OVERHEATED HEATER WINDINGS -
WESTINGHOUSE ELECTRIC CORPORATION

The subject deficiency was initially reported to NRC-OIE Region II,
Inspector V. L. Brownlee, on April 7, 1977, in accordance with
10 CFR 50.55(e). The following is our first interim report on
this deficiency.

The safety injection system pump motor 1A-1 heater windings
shorted and overheated on March 28, 1977. The insulation
has been completely burned on all visible heating wire.
The motor was mounted in its permanent location with
115-Vac temporary power, fused with a 30-ampere fuse,
applied to the heater. The insulation resistance of
the motor winding to ground and winding to heater
reads infinity. The heater to ground reads infinity,
lead to lead reads 30 megohms indicating an open
circuit.

The nameplate data for the subject motor is as follows:

Westinghouse model HSDP, serial No. 1S-76, 400 hp,
6600 volts, 3 phase, F.L. current 31 amperes, 3554 rpm,
type LAC, frame 5808-11, insulation class B, service
factor 1.0, 40° C temperature rise. Equipped with
space heater H1 and H2 rated 120 volts and 1.99 amperes.

Westinghouse Electric Corporation has been notified of
the above and we are awaiting their reply. Because of
warranty restrictions the motor cannot be disassembled
for a full assessment of the damage without the vendor's
concurrence.

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Mr. Norman C. Moseley

Our final report is anticipated to be transmitted to your office by July 29, 1977.

Very truly yours,



J. E. Gilleland
Assistant Manager of Power

CC: Dr. Ernst Volgenau, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

JUL 28 1977