

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

November 23, 1982

BLRD-50-438/81-16  
BLRD-50-439/81-16

U.S. Nuclear Regulatory Commission  
Region II  
Attn: Mr. James P. O'Reilly, Regional Administrator  
101 Marietta Street, Suite 3100  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - REACTOR BUILDING COOLING FANS -  
BLRD-50-438/81-16, BLRD-50-439/81-16 - SEVENTH INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. W. Wright on January 28, 1981 in accordance with 10 CFR 50.55(e) as NCR 1351. This was followed by our interim reports dated February 27, June 2, September 3, and December 16, 1981 and February 17 and May 18, 1982. Enclosed is our seventh interim report. We expect to submit our next report by February 23, 1983. We consider 10 CFR Part 21 to be applicable to this deficiency.

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

L. M. Mills, Manager  
Nuclear Licensing

Enclosure

cc: Mr. Richard C. DeYoung, Director (Enclosure) ✓  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. James McFarland (Enclosure)  
Senior Project Manager  
Babcock & Wilcox Company  
P.O. Box 1260  
Lynchburg, Virginia 24505

8212020107 821123  
PDR ADOCK 05000438  
S PDR

OFFICIAL COPY  
IE 27

ENCLOSURE

BELLEFONTNE NUCLEAR PLANT UNITS 1 AND 2  
REACTOR BUILDING COOLING FANS  
NCR 1351  
BLRD-50-438/81-16, BLRD-50-439/81-16  
10 CFR 50.55(e)  
SEVENTH INTERIM REPORT

Description of Deficiency

The reactor building cooling system consists of three integral fan cooling coil units as well as other equipment. Onsite inspection of the fan motors by a service representative of the motor manufacturer (Reliance Electric Motor Company, Cleveland, Ohio) revealed that old grease in the bearings had become hard and that grease was forced onto the motor winding when new grease was pumped into the bearings.

The Reliance service representative also witnessed the regreasing of the motor bearings. It was noted that grease easily purged out of the relief hole with the relief tubing disconnected; but when the tubing was reconnected, grease did not purge properly from the relief tubing. Instead, it passed across the seal and onto the windings. This is because of the fact that the grease relief tubing in these fans is undersized. Also, these fans are required to receive semiannual maintenance to include the purging of bearing grease. This cannot be easily accomplished with the present configuration of grease relief tubing.

The units were purchased from B&W.

Interim Progress

A field change request (FCR) was generated on January 12, 1982, to document removal of the grease relief tubing. The tubing has been removed and the grease relief holes have been plugged. All corrective action has now been completed except for clarification of lubrication requirements for the motors.

TVA is still awaiting a revised lubrication schedule from B&W. TVA expects to receive revised lubrication instructions from B&W by December 15, 1982. Corrective actions will be delineated in the next report.