

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

August 27, 1982

BLRD-50-438/82-36
BLRD-50-439/82-33

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:

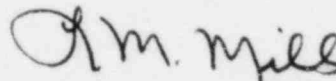
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - NONCONFORMING MATERIAL USED BY WKM
IN DECAY HEAT REMOVAL VALVES - BLRD-50-438/82-36, BLRD-50-439/82-33 -
FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector Don Quick on May 3, 1982 in accordance with 10 CFR 50.55(e) as NCR BLN NEB 8207. This was followed by our interim reports dated June 2 and July 19, 1982. Enclosed is our final report. We consider 10 CFR Part 21 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, DC 20555

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

8209020455 820827
PDR ADCK 05000438
S PDR

OFFICIAL COPY
TE 27

ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
NONCONFORMING MATERIAL USED BY WKM IN DECAY HEAT REMOVAL VALVES
NCR BLN NEB 8207
BLRD-50-438/82-36, BLRD-50-439/82-33
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

Babcock and Wilcox (B&W) found that nonconforming material was utilized by WKM Valve Division, ACF Industries, Houston, Texas, in the manufacture of Decay Heat Removal (DHR) System valves. Carbon steel was utilized instead of stainless steel for the stem to disc lockpin. Since the situation has occurred in more than one valve, B&W is investigating the need for inspection of all WKM valves of this design. This information was transmitted to TVA via B&W letter D-4072, and the subsequent NCR was written. Bellefonte unit 1 valves 1DH-HV3A and 1DH-HV3B and unit 2 valves 2DH-HV3A and 2DH-HV3B were manufactured by WKM and incorporate the stem to disc lockpin design feature. The unit 1 valves are installed, while the unit 2 valves are presently at WKM for repairs necessitated in regard to NCRs BLN NEB 8002, 1315, and 1316, which were previously reported under 10 CFR 50.55(e). Bellefonte is the only TVA plant utilizing WKM valves.

Safety Implications

Failure of the subject valves because of corrosion of the stem to disk lockpin could impede the functioning of the DHR System which could adversely affect the safe operation of the plant.

Corrective Action

B&W has informed TVA via their letter D-4238 that they have reviewed the unit 1 TVA BLN sequence control chart Nos. IND-98, IND-99, IND-111, and IND-112 to determine if, when the valves were inspected, there was any evidence of lockpin rusting. No conclusive evidence was found in the reports that indicates whether the lockpins were or were not inspected. Therefore, B&W is supplying replacement certified lockpins for the unit 1 valves which TVA will install by June 30, 1983 in accordance with the instructions contained in the instruction manual B&W Document No. 01-0669. The lockpins for the unit 2 valves were replaced at WKM with certified material. TVA considers this an isolated incident and no further TVA action is required.