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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

March 29, 1982

BLRD-50-438/82-22

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 UNIT 1 - UNACCEPTABLE REPLACEMENT FOR COMPONENT
COOLING WATER PUMP SHAFT - BLRD-50-438/82-22 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector Don Quick on March 1, 1982 in accordance with 10 CFR 50.55(e) as NCR 1749. Enclosed is our first interim report. We expect to submit our next report by June 2, 1982. 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 Regulation and Safety

Enclosure

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

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ENCLOSURE
BELLEFONTE NUCLEAR PLANT UNIT 1
UNACCEPTABLE REPLACEMENT FOR COMPONENT COOLING WATER PUMP SHAFT
NCR 1749
BLRD-50-438/82-22
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

TVA received Babcock & Wilcox (B&W) letter No. SOM-17 which stated that B&W had been advised by the pump vendor, Hayward-Tyler Pump Company of Burlington, Vermont, that the test yield stress values for the replacement shaft material did not meet the minimum yield stress value required by the design calculations. Because of this information, the replacement shaft is not suitable for the intended duty of the pump and operation of the subject pump was stopped immediately. The shaft discussed in this report is the replacement shaft that was installed to resolve nonconformance report (NCR) 1621.

Interim Progress

B&W and TVA are investigating the possibility of using the original pump shaft (refer to NCR 1621) after removal of the sharp edges of the circumferential grooves (score marks) with an emery cloth. B&W is to provide justification for use of this shaft and is investigating the breakdown in Hayward-Tyler's quality control program. We will provide further information in our next report.