

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

November 25, 1981

USNRC REGION
ATLANTA, GEORGIA
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BLRD-50-438/81-71

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303



Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNIT 1 - SCORE MARKS ON COMPONENT COOLING WATER
PUMP SHAFT - BLRD-50-438/81-71 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crlenjak on October 27, 1981 in accordance with 10 CFR 50.55(e) as
NCR 1621. Enclosed is our first interim report. We expect to submit our
next report by January 26, 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. Victor Stello, Jr., 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
SCORE MARKS ON COMPONENT COOLING WATER PUMP SHAFT
BLRD-50-438/81-71
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

During routine inspection after installation, the CCW pump shaft was found to exhibit circumferential score marks on the thrust bearing end of the shaft under the journal bearing. The apparent cause of the deficiency is a lathe operator error.

Interim Progress

An onsite vendor representative was consulted, and he immediately recommended replacement of the shaft. The pump was disassembled, and the deficient shaft was removed. The shaft was sent back to the vendor (Hayward-Tyler pump manufacturers of Burlington, Vermont) for replacement. (Note that B&W of Canada, Limited, Ontario, was the original supplier; however, they were sold to Hayward-Tyler Pump manufacturers since the issuance of the contract.) The replacement shaft arrived onsite and was inspected on October 26, 1981. Since the deficiency degrades a critical element of the subject pump, the vendor's quality assurance program should have rejected the affected shaft per NDE (visual) inspection. TVA is evaluating the vendor's QA program to determine the actions necessary to prevent recurrence of this deficiency.