

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

April 2, 1982

APR 8 9:28

BLRD-50-438/81-38

BLRD-50-439/81-41

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:

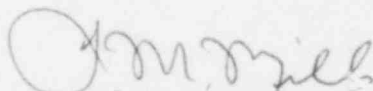
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - STEAM PRESSURE REGULATOR
MALFUNCTION - BLRD-50-438/81-38, BLRD-50-439/81-41 - FOURTH INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crlenjak on May 19, 1981, in accordance with 10 CFR 50.55(e) as
NCR BLN NEB 8105. This was followed by our interim reports dated
June 18, September 30, and December 17, 1981. Enclosed is our fourth
interim report. We expect to submit our next report by June 30, 1982.
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 Regulation and Safety

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

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
STEAM PRESSURE REGULATOR MALFUNCTION
NCR BLN NEB 8105
BLRD-50-438/81-38, BLRD-50-439/81-41
10 CFR 50.55(e)
FOURTH INTERIM REPORT

Description of Deficiency

During a May 6, 1981 telecon between TVA and B&W, B&W was not able to specify the minimum departure from nucleate boiling ratio (DNBR) which would result should a steam pressure regulator malfunction occur. Therefore, TVA is unable to verify the extent of damage which would result from a steam pressure regulator malfunction. This is unacceptable since the Chapter 15 FSAR analysis states that the steam pressure regulator malfunction is bounded by the steam line break event. Also, the steam pressure regulator malfunction is a condition II event and, as such, must have a minimum DNBR greater than 1.24, per section 4.2.3.3.5 of the FSAR. As stated above, B&W is unable to verify this.

This condition may be applicable to other B&W-supplied NSSS; however it affects no other TVA plants since Bellefonte represents TVA's only B&W-supplied NSSS.

Interim Progress

TVA is still awaiting B&W's specific analyses for the subject steam pressure regulator malfunction events. B&W informed TVA on March 18, 1982 that the schedule for completion of the analysis, which was originally set for mid-February, has now been delayed until mid-May. Accordingly, TVA will provide a final response on this deficiency by June 30, 1982.