

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

October 29, 1982

BLRD-50-438/82-54

BLRD-50-439/82-48

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:

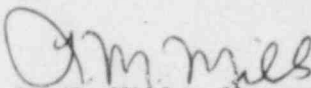
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - VENTING OF HIGH POINTS IN THE
ESSENTIAL RAW COOLING WATER SYSTEM - BLRD-50-438/82-54, BLRD-50-439/82-48 -
SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crlenjak on August 2, 1982 in accordance with 10 CFR 50.55(e) as
NCR BLN QAB 8203. This was followed by our first interim report dated
September 1, 1982. Enclosed is our second interim report. We expect to
submit our next report by January 20, 1984.

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

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
VENTING OF HIGH POINTS IN THE ESSENTIAL RAW COOLING WATER SYSTEM
NCR BLN QAB 8203
BLRD-50-438/82-54, BLRD-50-439/82-48
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

Air vents are provided at high points of piping systems to purge air entrapped during initial filling, operation, or following maintenance functions. Manual vents are generally acceptable; however, TVA has determined that air will come out of solution because of heating in several safety-related coolers supplied with essential raw cooling water under accident conditions. Since access is restricted under such conditions, the manual vents would be unsuitable for these applications.

TVA design criteria failed to provide for automatic venting in the component cooling water heat exchanger, the diesel generator heat exchanger, and the component cooling pump room air-handling units. The cause of this deficiency is incomplete consideration of all design bases during the production of design criteria.

Interim Progress

Because of the addition of the air release valves to the piping systems, the piping rigorous analysis will have to be reanalyzed. However, without certain valve data this cannot be done. TVA is in the process of procuring the valves. As soon as the contract is let, the necessary data that will aid in the reanalysis of the piping system will be obtained from the valve manufacturer. All necessary drawing changes will be performed under ECN 1262.