

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

August 12, 1982

BLRD-50-438/82-09
BLRD-50-439/82-09

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:

BELLEFRONTE NUCLEAR PLANT UNITS 1 AND 2 - TEMPERATURE OF NITROGEN SUPPLY -
BLRD-50-438/82-09, BLRD-50-439/82-09 - THIRD INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector D. Johnson on January 14, 1982 in accordance with 10 CFR 50.55(e) as NCR BLN BLP 8201. This was followed by our interim reports dated February 17 and April 27, 1982. Enclosed is our third interim report. We expect to submit our next report by March 31, 1983.

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

James A. Damer
for J. 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
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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
TEMPERATURE OF NITROGEN SUPPLY
NCR BLN BLP 8201
BLRD-50-438/82-09, BLRD-50-439/82-09
10 CFR 50.55(e)
THIRD INTERIM REPORT

Description of Deficiency

Nitrogen is used as a cover gas for various safety-related pieces of equipment, such as the Reactor Coolant System, pressurizer, steam generators, and core flood tanks. B&W document No. 67-1003781-00, "Plant Limits and Precautions," lists the minimum temperature requirements for nitrogen to be supplied to these pieces of equipment. Contrary to these requirements, the present nitrogen system, as it is now designed, supplies nitrogen below the required temperature.

B&W document No. 67-1003781-00 was issued in 1978, well after development of the design of the nitrogen system. Since the document did not directly relate to the nitrogen system design, it was not routed to the nitrogen system designers for their review. This condition went unnoticed until the problem was discovered during a design review of one of the systems that interface with the nitrogen system.

Interim Progress

Heaters are being added to the nitrogen system to heat the nitrogen to levels to meet the minimum temperature requirements for the various safety-related pieces of equipment. Procurement specifications have been issued for these heaters and installation drawings are in the process of being changed. More information will be forwarded in our next report.