

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

BLRD-50-438/84-11
BLRD-50-439/84-10

February 27, 1985
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U.S. Nuclear Regulatory Commission
Region II
Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Dr. Grace:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - LEVELS A AND B STORAGE TEMPERATURE
WENT BELOW 40° F LIMIT - BLRD-50-438/84-11, BLRD-50-439/84-10 - FINAL
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
P. E. Fredrickson on January 24, 1984 in accordance with 10 CFR 50.55(e) as
NCR 2726. A similar condition was later documented on NCR 2848; thus, we
shall report on both NCRs simultaneously. This was followed by interim
reports dated February 17 and May 14, 1984. Enclosed is our final report.

If you have any questions, please get in touch with R. H. Shell at
FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

D. L. Lambert

J. W. Hufham, Manager
Licensing and Regulations

Enclosure

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

Records Center (Enclosure)
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
LEVELS A AND B STORAGE TEMPERATURE WENT BELOW 40° F LIMIT
BLRD-50-438/84-11, BLRD-50-439/84-10
NCRs 2726 AND 2848
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

Some areas of levels A and B storage fell below the required minimum temperature of 40°F (recorded temperatures were in the 20's in these areas) when the ambient temperature was 18°F on December 31, 1983. Four level A storage and 12 level B storage areas fell below the required temperature. The apparent cause of this nonconformance was insufficient heating capacity due to the extremely cold weather.

Safety Implications

If the storage areas went uncovered and continually fell below 40°F for extended periods of time, safety-related equipment could eventually be damaged. Therefore, there is a potential that safe operation of the plant could be adversely affected by use of damaged safety-related equipment or material.

Corrective Action

TVA has added additional heating capacity to the levels A and B storage areas, has installed additional insulation, and has relocated and consolidated material to reduce storage requirements. The Bellefonte Nuclear Plant (BLN) Materials Services Unit (MSU) quality control inspection personnel have been performing temperature readings per quality control procedure (QCP) 1.2 and no problems with temperature levels have been found during the recent cold weather.

The various engineering units at BLN have inspected and evaluated the materials in their areas of responsibility and no deficiencies were found with regard to equipment being adversely affected by the low temperatures. As such, no further action is required to resolve this deficiency.