

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

1630 Chestnut Street Tower II

August 5, 1985

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BLRD-50-438/85-06

BLRD-50-439/85-06

U.S. Nuclear Regulatory Commission
Region II

Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Dr. Grace:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - THE VARIANCE IN THE 120V AC AUXILIARY
POWER SUPPLY EXCEEDS SPECIFICATION - PLRD-50-438/85-06 AND BLRD-50-439/85-06-
SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
Al Ignatonis on December 20, 1984 in accordance with 10 CFR 50.55(e) as NCR
BLN EEB 8419. This was followed by our first interim report dated January 21,
1985 in which we erroneously stated that the next submittal would be June 7,
1985 instead of August 6, 1985. Enclosed is our second interim report. We
expect to submit our next report on or about August 10, 1987.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. A. Homer
for J. W. Hufham, Manager
Licensing and Risk Protection

Enclosure

cc: Mr. James Taylor, 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
THE VARIANCE IN THE 120V AC AUXILIARY POWER SUPPLY EXCEEDS SPECIFICATION
BLRD-50-438/85-06 AND BLRD-50-439/85-06
10 CFR 50.55(e)
NCR BLN EEB 8419
SECOND INTERIM REPORT

Description of Deficiency

The minimum possible voltage levels on the 120V ac auxiliary power system (EK), trains A and B, buses may not meet the manufacturer's voltage specifications for class 1E instrument loads supplied by these buses. The class 1E 6900V buses can vary minus 5 percent from nominal before operator action is required. The 6900/480V transformer regulation may exceed minus 5 percent under worst case conditions. These cumulative source regulations plus a minus 3.6-percent regulation of the 120V instrument transformer could result in system EK voltage that will not meet specification.

Interim Progress

TVA will replace the existing nonregulated transformers with self-regulated control transformers. TVA will submit the next report on this deficiency upon procurement of satisfactory replacement transformers.