

03/02/78

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50-438/439

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NRC

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SUBJECT:

COPIES RECEIVED
LTR 1 ENCL 1

FINAL CONSTRUCTION DEFICIENCY REPT CONCERNING PROCUREMENT
SPECIFICATIONS FOR CERTAIN ELEC CABLE TO BE USED INSIDE CONTAINMENT
WERE IN ERROR IN THAT THEY SPECIFIED INAPPROPRIATE ACCIDENT
CONDITIONS.

PLANT NAME: BELLEFONTE - UNIT 1
BELLEFONTE - UNIT 2

REVIEWER INITIAL: XJM
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***** DISTRIBUTION OF THIS MATERIAL IS AS FOLLOWS *****

CONSTRUCTION DEFICIENCY REPORT (10CFR50.55(E)).
(DISTRIBUTION CODE B004)

FOR ACTION: ASST DIR VASSALLO**LTR ONLY BR CHIEF PARR**LTR ONLY
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INTERNAL: REG FILE**W/ENCL NRC PDR**W/ENCL
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TEDESCO**LTR ONLY EISENHUT**LTR ONLY
STANDARDS DEV. **W/ENCL K SEYFRIT/IE**W/ENCL

EXTERNAL: LPDR'S
SCOTTSBORO, AL**W/ENCL
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ACRS CAT B**W/16 LTRS

DISTRIBUTION: LTR 40 ENCL 28
SIZE: 1P+1P

CONTROL NBR: 790590054

***** THE END *****

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

REGULATORY DOCKET FILE COPY

FEB 21 1978

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 1217
230 Peachtree Street, NW.
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - DEFICIENT PROCUREMENT SPECIFICATIONS
FOR ELECTRICAL CABLE QUALIFICATION - NCR QEB 78-3

On January 18, 1978, A. R. Herdt, NRC-OIE Region II, was informed that the
subject nonconformance was determined to be reportable in accordance with
10 CFR 50.55(e). Enclosed is the final written report concerning this
deficiency.

Very truly yours,

J. E. Gilleland
Assistant Manager of Power

Enclosure

cc: Dr. Ernst Volgenau, Director (Enclosure) ✓
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Boots
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1/1

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
FINAL DESIGN REPORT NCR QEB 78-3
DEFICIENT PROCUREMENT SPECIFICATIONS FOR ELECTRICAL CABLE QUALIFICATION

Description of Condition

Procurement specifications for certain electrical cable to be used inside containment were in error in that they specified inappropriate accident conditions. Further, they allowed alternative qualification tests to be performed using IEEE 383 and IEEE 323-1974, without modification of the typical values to encompass the actual LOCA conditions as specified in the Bellefonte Design Criteria and FSAR. In addition, specifications did not require testing of both aged and unaged samples.

Safety Implications

With inadequate procurement specifications, it could not be ensured that class IE cables for use in Bellefonte Nuclear Plant would be able to withstand certain accident environmental conditions which may occur during the plant lifetime and still perform their design function. Therefore, the safe operation of the plant may have been adversely affected.

Corrective Action

Future procurement specifications will require adequate testing in accordance with the Bellefonte Design Criteria, FSAR, and IEEE 383 and IEEE 323-1974, with modification of typical values to reflect the actual Bellefonte conditions.