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 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439  
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 MILLS, L.M. Tennessee Valley Authority  
 RECIP. NAME RECIPIENT AFFILIATION  
 O'REILLY, J.P. Region 2, Atlanta, Office of the Director

SUBJECT: Final deficiency rpt, initially reported 800819, re power cables not qualified to IEEE 383-1974 flame test. Cables mistakenly installed in cable trays have been identified & will be removed from cable trays in safety-related areas.

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 TITLE: Construction Deficiency Report (10CFR50.55E)

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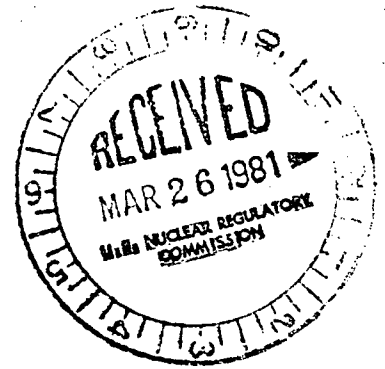
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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

March 23, 1981



Mr. James P. O'Reilly, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Region II - Suite 3100  
101 Marietta Street  
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - POWER CABLES NOT QUALIFIED TO IEEE  
383-1974 FLAME TEST - NCR BLN EEB 8004 - FINAL REPORT

On August 19, 1980, F. S. Cantrell, NRC-OIE Region II, was informed that the subject nonconformance was determined to be reportable in accordance with 10 CFR 50.55(e). This was followed by our interim reports dated September 18 and December 10, 1980. Enclosed is our final report.

If you have any questions concerning this matter, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager  
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Jr., Director (Enclosure)✓  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
POWER CABLES NOT QUALIFIED TO IEEE 383-1974 FLAME TEST  
NCR BLN EEB 8004  
10 CFR 50.55(e)  
FINAL REPORT

Description of Deficiency

The 600-V and 8- and 15-kV power cables, types CPJ and CPSJ, which have been installed in cable trays at Bellefonte Nuclear Plant are not qualified to the flame test requirements of IEEE 383-1974. These cables were purchased before TVA's commitment to IEEE 383-1974 and were mistakenly installed in cable trays.

Safety Implications

Cables in cable trays are required to meet the IEEE 383-1974 flame test to help control the spread of fires in cable trays. Failure of the cables to meet the flame test could lead to spread of the fire beyond limits for which the plant was designed. The subject condition, had it remained uncorrected, could have affected adversely the safe operation of the plant.

Corrective Action

All cable of this type has been identified and will be removed from cable trays in safety-related areas. The replacement cables will be qualified to IEEE 383-1974. The replacement of this cable is presently in progress, with the changeout to be completed by December 31, 1981.

The cable types reflected in this NCR have been "written" out of the cable routing program at Bellefonte. Since all safety-related cable at Bellefonte is routed by computer, this type of cable is essentially removed from the Bellefonte "stores" for cable trays. Cables installed in conduit will not necessarily be removed, as the conduit itself will prevent flame spread.