TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

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August 21, 1984

BLRD-50-438/84-12
BLRD-50-439/84-11

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - HALOGENS IN CARBOLINE 305 PAINT ON SUPPORTS WHICH ARE AGAINST STAINLESS STEEL PIPE - BLRD-50-438/84-12, BLRD-50-439/84-11 - SECOND INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector P. E. Fredrickson on January 31, 1984 in accordance with 10 CFR 50.55(e) as NCR BLN BLP 8401. This was followed by our interim report dated February 27, 1984. Enclosed is our second interim report. We expect to submit our next report by May 30, 1985.

If you have any questions, please get in touch with R. H. Shell at FTS 858-2474.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Licensing

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
HALOGENS IN CARBOLINE 305 PAINT ON SUPPORTS
WHICH ARE AGAINST STAINLESS STEEL PIPE
BLRD-50-438/84-12, BLRD-50-439/84-11
NCR BLN BLP 8401
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

Carbon steel pipe supports top coated with carboline 305 paint, a halogen-containing substance, are in contact with stainless steel piping. The deficiency was identified at Bellefonte Nuclear Plant per Program Information Notice 83-8, "Stainless Steel Pipe in Contact with Halogenated Protective Coatings," which documents the possibility of stress corrosion cracking of such piping at temperatures exceeding 140°F. The deficiency resulted from the failure to provide guidelines in General Construction Specification G-29M restricting halogen-containing paint from contacting stainless steel piping.

Interim Progress

TVA's Division of Construction (CONST) is proceeding with the removal of the carboline 305 paint at the points where it comes in contact with the stainless steel pipe and system operating temperatures exceed 140°F.

A testing program has been initiated to define allowable halogen content in paints which will contact stainless steel piping. CONST specifications G-29M and N4A-933 are being revised to define and control the use of halogen containing paints in contact with stainless steel piping.