

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

July 6, 1982

USNRC REGION I
ATLANTA, GEORGIA
82 JUL 8 4 8:30

BLRD-50-438/82-06
BLRD-50-439/82-06

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - TAPES FOR HEAT TRACING DO NOT MEET
CHEMICAL SPECIFICATIONS - BLRD-50-438/82-06, BLRD-50-439/82-06 - REVISED
FINAL REPORT

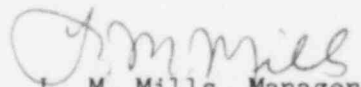
The subject deficiency was initially reported to NRC-OIE Inspector
D. Quick on December 24, 1981 in accordance with 10 CFR 50.55(e) as NCR
1692. This was followed by our first interim report dated January 25, 1982
and our final report dated April 13, 1982. As discussed with Inspector
R. V. Crlenjak by telephone on June 2, 1982, enclosed is our revised final
report.

The reason for the revision is that the revision of standard specification
SS-E17.6.01 had not been completed pending incorporation of material
unrelated to this commitment.

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

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, DC 20555

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ENCLOSURE

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
TAPES FOR HEAT TRACING DO NOT MEET CHEMICAL SPECIFICATIONS
NCR 1692
BLRD-50-438/82-06, BLRD-50-439/82-06
10 CFR 50.55(e)

REVISED FINAL REPORT

Description of Deficiency

Permacel PT-180 is a pressure sensitive tape supplied to TVA by the heat trace system vendor, Thermon Manufacturing Company, San Marcos, Texas (the vendor was incorrectly identified in the first report as Chemelex Division, Raychem Corporation). Upon receipt, TVA evaluated PT-180 per Purchase Specification PF-4121, "Purchase Specification for Pressure Sensitive Tapes for Use on Stainless Steels or Other Corrosion Resistant Alloys," which establishes the total halogen content and the leachable halide content acceptable in pressure sensitive tapes that may be used on stainless steel. TVA's Singleton Materials Engineering Laboratory Report B-198 establishes that the leachable halide content of PT-180 exceeds PF-4121 guidelines. In addition, the sulphur content of PT-180 exceeds PF-4121 guidelines, but this has been determined to be a nonsignificant condition in accordance with 10 CFR 50.55(e) guidelines because sulphur has no adverse effects on stainless steel pipe.

Safety Implications

If PT-180 were applied to stainless steel piping and ambient conditions were such that moisture was present and the temperature exceeded 150°F, stress corrosion cracking could result. PT-180 was scheduled for use on the Decay Heat Removal (DHR) System, the Chemical Addition and Boron Recovery (CA&BR) System, and the Essential Raw Cooling Water (ERCW) System. If stress corrosion cracking occurred in any of these systems, the safety of operations of the plant could be adversely affected.

Corrective Action

TVA has removed the existing stock of tape from use and has tagged the tape as nonconforming to prevent its use in the future.

TVA has specified the use of Thermon PF-1 as the replacement for the subject deficient tape. Thermon PF-1 is available for immediate use at the site.

To prevent recurrence of this deficiency, TVA's Division of Engineering Design will incorporate specification PF-4121 into the Standard Specifications for Heat Trace Materials (No. SS-E17.6.01). The draft revision to the standard specification has been prepared and is in the review process. The standard specification was revised on July 2, 1982.

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400 Chestnut Street Tower II

July 6, 1982

Mr. Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Eisenhut:

In the Matter of the Application of) Docket Nos. 50-438
Tennessee Valley Authority) 50-439

Your letter to H. G. Parris dated August 3, 1981 requested, for Bellefonte Nuclear Plant (BLNP) unit 1, a realistic and up-to-date projected construction completion date and quarterly updates thereafter until issuance of the Safety Evaluation Report. In accordance with that request, this is to inform you that our schedule has been officially revised to reflect a fuel load date of May 1985 for BLNP unit 1. We will inform you of any schedule changes at the next appropriate quarterly update.

Yours very truly,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing

Sworn to and subscribed before me
this 6th day of JULY 1982

Paula K. Bradley
Notary Public

My Commission Expires 12-4-84

cc: U.S. Nuclear Regulatory Commission ✓
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Mr. James McFarland
Senior Project Manager
Babcock & Wilcox Company
P.O. Box 1260
Lynchburg, Virginia 24505