

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

April 22, 1983

BLRD-50-438/83-26

BLRD-50-439/83-21

U.S. Nuclear Regulatory Commission

Region II

Attn: Mr. James P. O'Reilly, Regional Administrator

101 Marietta Street, NW, Suite 2900

Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - QUALIFICATION OF PROTECTIVE  
COATINGS - BLRD-50-438/83-26, BLRD-50-439/83-21 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
Linda Watson on March 25, 1983 in accordance with 10 CFR 50.55(e) as  
NCR BLN ASB 8301. Enclosed is our first interim report. We expect to  
submit our next report by August 19, 1983.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*L. M. Mills*

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

BELLFONTE NUCLEAR PLANT UNITS 1 AND 2  
QUALIFICATION OF PROTECTIVE COATINGS

NCR BLN ASB 8301

BLRD-50-438/83-26, BLRD-50-439/83-21

10 CFR 50.55(e)

FIRST INTERIM REPORT

Description of Deficiency

Protective coatings designated for Coating Service Level I use (use inside primary containment) were qualified to environmental conditions defined in the Bellefonte Preliminary Safety Analysis Report (PSAR). Some of these qualification parameters have now been changed and the current expected conditions are more severe than those now contained in the FSAR. The protective coatings have not been qualified to these new environmental conditions. The environmental criteria which is of principal concern is the maximum temperature which could be reached inside containment. In the event of a main steam line break, the protective coatings could be subjected to a temperature spike exceeding 400°F while they have been qualified to a temperature just under 300°F.

Interim Progress

TVA is investigating this condition and will provide additional information after a revised environmental envelope is received from Babcock and Wilcox.