

400 Chestnut Street Tower II

June 1, 1981

PBRD-50-553/81-09

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:

PHIPPS BEND NUCLEAR PLANT UNIT 1 - REPORTABLE DEFICIENCY -
OMITTED RESAR FROM SHIELD WALL - PBRD-50-553/81-09

The subject deficiency was initially reported to NRC-OIE, Region II, Inspector Pete Taylor on February 27, 1981, as NCR PBMP-197. The first interim report was submitted on March 30, 1981. In compliance with paragraph 50.55(e) of 10 CFR Part 50, we are enclosing the final report on the subject deficiency. We consider 10 CFR Part 21 applicable to this nonconformance. If you have any questions, please call Jim Damer at FTS 857-2014.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure

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

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ENCLOSURE
PHIPPS BEND NUCLEAR PLANT UNIT 1
OMITTED REBAR FROM UNIT 1 SHIELD WALL
PBRD-50-553/81-09
REPORT NO. 2 (FINAL)

Description of Deficiency

Reinforcing bars shown on C. F. Braun drawings Y-010 and Y-013 between azimuth 105° and 135° were omitted from the reactor shield building. The design drawings were not consistent between elevations. Design drawing Y-010 shows rebars terminating at an elevation 5'-2", and design drawing Y-013 shows rebars cadwelded at an elevation of 15'-2". The apparent cause of this deficiency was a drawing discrepancy between design drawings. TVA inspectors, however, did not identify the discrepancy and the rebar was placed in accordance with drawing Y-010.

Safety Implications

Had this condition remained uncorrected, the structural integrity of the reactor shield building and thereby the safety of operations of the plant could have been jeopardized under extreme loading conditions.

Corrective Actions

TVA has drilled holes in the reactor shield wall and installed and grouted into place 16'-9" long splice bars (44#11AW) to a height of 6'-9" below elevation 5'-2" in accordance with approved instructions from General Electric/C. F. Braun via nonconformance report PBNP-197.

C. F. Braun has conducted a review of their design drawings and procedures and determined that the identified error is an isolated case and has no generic connotations. Based on this review, General Electric/C. F. Braun contemplate no revisions to applicable C. F. Braun procedures.

A rebar verification group has been instituted to work directly with the construction trade forces during rebar installation. This group is structured within the Project Engineering - Civil Unit and has the function to guide construction personnel and correct discrepancies before they become a problem of complex nature or have reached a stage of nonconformance. Verification during erection and before final inspection is now required to identify and eliminate errors during the installation of the rebar structure.

All corrective actions have been completed.