

TENNESSEE VALLEY AUTHORITY
400 Chestnut Street Tower II

January 13, 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:

PHIPPS BEND NUCLEAR PLANT UNIT 1 - REPORTABLE DEFICIENCY - EMBEDDED
PLATES WITHOUT HEAT TRACEABILITY (NCR PENP 156)

Initial notification of the subject deficiency was made to NRC-OIE,
Region II, Inspector R. W. Wright on October 14, 1980. The first
interim report was submitted on November 13, 1980. In compliance
with paragraph 50.55(e) of 10 CFR Part 50, we are enclosing the
final report on the subject deficiency. If you have any
questions, please call Jim Dorer 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
EMBEDDED PLATES WITHOUT HEAT TRACEABILITY
10CFR50.55(e)
NCR NO. PBNP-156, QA AUDIT NO. PB-G-80-13
REPORT NO. 2 (FINAL)

Description of Deficiency

Embedded plates used to connect and strengthen supports for systems in the auxiliary building are stamped with heat numbers which are not currently on Phipps Bend's list of acceptable material heat numbers. This anomaly was detected during a routine inspection. Because the heat numbers of the subject plates are not on Phipps Bend's heat lists, the composition of these plates was not known.

Safety Implications

Had the materials used in the embedded plates at Phipps Bend been deficient, the adequacy of attached supports would have been concurrently suspect. Because some of these plates support safety-related equipment, failure of the plates could have degraded the safe operations of the plant. However, since the materials in the plates have been determined to be adequate, no degradation of the safety of the plant existed.

Corrective Action

All plates identified with improper heat numbers have been 1 inch or 1-1/4 inch thick and a width of no less than 9 inches. All receiving documentation for steel plate which meets the above dimensional specifications has been reviewed and accepted for use. This record review substantiated that all material received on this site and used for these embedded plates has met the requirements of ASTM A-36.

For further verification, an analysis has been performed on a random sampling basis of the questionable plates by the TVA's Singleton Materials Engineering Laboratory. All plates tested met the requirements of ASTM A-36.

Because TVA has determined that the materials in the plates are as specified, TVA will use the plates as installed.