TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

November 23, 1981

HTRD-50-518/81-28, -520/81-27

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:

HARTSVILLE NUCLEAR PLANT A - REPORTABLE DEFICIENCY - BETHLEHEM STEEL COMPANY'S GALVANIZED A325 BOLTS - HTRD-50-518/81-28, -520/81-27

The subject deficiency was initially reported to NRC-OIE, Region II, Inspector P. A. Taylor on October 29, 1981 as NCR HTA HPP 8103. Applicability to 10 CFR Part 21 was determined to be nonreportable as discussed with Inspector Taylor on November 5, 1981. In accordance with paragraph 50.55(e) of 10 CFR Part 50, we are enclosing our first interim report on the subject deficiency. We anticipate transmitting our next report on or before February 10, 1982. If you have any questions, please call Jim Domer at FTS 858-2725.

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

IE 27
S
,11

ENCLOSURE
HARTSVILLE NUCLEAR PLANT A
BETHLEHEM STEEL COMPANY'S GALVANIZED A325 BOLTS
10CFR50.55(e) REPORT NO. 1 (INTERIM)
HTRD-50-518/81-28, -520/81-27

Description of Deficiency

Galvanized A325 bolting material procured by TVA for the turbine building main steel exhibited a failure mechanism which renders the bolting material unsuitable for use by TVA. This failure mechanism appears to be generic to Bethlehem Steel Company galvanized bolts. The bolts in question when installed have a tendency to fail by stripping of the threads. This mode of failure is undetectable by a visual inspection.

Interim Progress

A limited number of galvanized A325 Bethlehem bolts were installed by CONST during a testing program which was initiated to review the quality of the bolted connections. The bolts were installed under rigorous QC, which assured proper installation. The remaining bolts from this contract were determined as unsuitable and are currently being prepared for return to Bethlehem Steel Company. Before returning the subject bolts to Bethlehem, TVA will perform an analysis at its Singleton Materials Engineering Laboratory in an effort to define the cause of this deficiency. We anticipate transmitting an additional report on or before February 12, 1982.