

*Reactor Facilities
Branch*

AMERICAN REVOLUTION BICENTENNIAL
1776-1976

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

April 23, 1976

Mr. John G. Davis, Acting Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Davis:

WATTS BAR NUCLEAR PLANT UNIT 2 - REPORTABLE DEFICIENCY -
BREAKDOWN IN CHICAGO BRIDGE AND IRON COMPANY QUALITY ASSURANCE
PROGRAM - DOCUMENTATION OF RADIOGRAPHS AND WELD HISTORY -
IE CONTROL NO. HO 1196F2 - SECOND INTERIM REPORT

The subject deficiency was reported to V. L. Brownlee,
NRC-OIE Principal Reactor Inspector for Watts Bar Nuclear
Plant and J. C. Bryant, Senior Inspector, NRC-OIE Facilities
Section, on February 12, 1976, in accordance with 10 CFR
50.55(e).

The first interim report concerning this deficiency was made
on March 17, 1976. The second interim report is enclosed.

Our next interim report will be submitted on or before
May 30, 1976.

Very truly yours,

J. E. Gilleland

J. E. Gilleland
Assistant Manager of Power

Enclosure

CC: Mr. Norman C. Moseley, Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 818
230 Peachtree Street, NW.
Atlanta, Georgia 30303

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WATTS BAR NUCLEAR PLANT UNIT 2
REPORTABLE DEFICIENCY
CHICAGO BRIDGE AND IRON COMPANY
QUALITY ASSURANCE PROGRAM BREAKDOWN
DOCUMENTATION OF RADIOGRAPHS AND WELD HISTORY RECORDS
SECOND INTERIM REPORT

TVA and CB&I are continuing to work toward the resolution of this deficiency. The corrective action plans for the containment vessels and bottom liners submitted by CB&I were subsequently approved by TVA.

As part of these corrective action plans, CB&I and TVA performed joint audits of all CB&I quality assurance records. Several minor findings were discovered that related to recordkeeping. CB&I has prepared the resolutions for these audit findings and submitted them to TVA for approval.

All jobsite radiographic film has been reviewed by CB&I, TVA, and authorized inspector personnel. Agreement was reached that there is complete coverage of the vessel joints requiring radiography and that each individual film matches up with adjacent film. The spot radiography that is required by the corrective action plans has confirmed that the existing film represents the joints identified on the radiography reports.

The complete leak chase system of unit 1 has been reexamined by pressure decay tests with satisfactory results. This additional pressure test was required as a verification test since the unit 1 leak chase system is now buried in concrete.

CB&I is preparing a report documenting the investigations and actions made in resolving this matter. TVA has evaluated CB&I's approach and the extent and nature of this report. CB&I will submit the completed report to TVA for approval.

TVA has reviewed its surveillance activities of CB&I before this deficiency was reported. These activities included 100-percent visual examination of all welds, monitoring of all magnetic particle examinations and vacuum box tests that CB&I performed, and witnessing all the pressurization soap bubble tests that CB&I performed on the leak chase system. In addition, TVA is reviewing its surveillance procedure.