

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

March 18, 1983

WBRD-50-390/82-17, -391/82-16
BLRD-50-438/82-12, -439/82-12
HTRD-50-518/82-07, -520/82-07
YCRD-50-566/82-06, -567/82-06

U.S. Nuclear Regulatory Commission
Region II

ATTN: James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR, BELLEFONTE, HARTSVILLE A, AND YELLOW CREEK NUCLEAR PLANTS -
REPORTABLE DEFICIENCY - REGIONAL QUALITY ENGINEERING BRANCH INSPECTION
OFFICE MANPOWER -WBRD-50-390/82-17, -391/82-16 - BLRD-50-438/82-12,
-439/82-12, -HTRD-50-518/82-07, -520/82-07, -YCRD-50-566/82-06, -567/82-06

The subject deficiency was initially reported to NRC-OIE, Region II,
Inspector Don Quick on January 20, 1982 as NCR M80-11 Deficiency
No. 3. Our first, second, and third interim reports were submitted on March
1, June 3, and September 15, 1982 respectively. In compliance with
paragraph 50.55(e) of 10 CFR Part 50, we are enclosing our final report on
the subject deficiency. If you have any questions, please call Jim Domer
for BWRs at FTS 858-2725 or Ralph Shell for PWRs at FTS 858-2676.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing

Enclosure

cc: Mr. R. C. DeYoung, Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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ENCLOSURE
WATTS BAR, BELLEFONTE, HARTSVILLE A,
AND YELLOW CREEK NUCLEAR PLANTS
REGIONAL QUALITY ENGINEERING BRANCH
INSPECTION OFFICE MANPOWER
10CFR50.55(e) REPORT NO. 4 (FINAL)
WBRD-50-390/82-17, -391/82-16
BLRD-50-438/82-12, -439/82-12
HTRD-50-518/82-07, -520/82-07,
YCRD-50-566/82-06, -567/82-06
Audit Deficiency M80-11 No. 3

Description of Deficiency

ANSI N45.2.13 - 1976, Section 7.1 and Section 7.3.1, states that the purchaser shall establish and implement verification activities (surveillance, inspection, and audit) as appropriate, to ensure conformance of procured items and services to identified requirements and that when planning requires purchaser source surveillance, it shall be implemented to monitor, witness, or observe activities. Similarly, source inspection shall be implemented in accordance with plans to perform inspections, examinations, or tests at predetermined points.

TVA's Quality Engineering Branch Instruction, QEB-AI 115, states that one responsibility of regional inspection offices is to ensure adequate handling of the workload by staffing adequately and assigning work according to the skills and knowledge of available personnel. Furthermore, the QC Group is charged with ensuring that purchasing material or equipment designed for inspection conforms to specification requirements before release for shipment from vendors.

Contrary to the above instructions, TVA's Quality Engineering Branch (QEB) regional offices lack sufficient manpower and resources to adequately perform verification activities of suppliers in quality-related inspections.

Safety Implications

Deficiencies in training and staffing which may have existed within QEB could have allowed for faulty inspection and installation of quality-related items. This could have adverse effects on the safe operation of the plant.

Corrective Action

An analysis was made of additional training which would benefit the employees in the Regional Field Offices. The quality assurance training was completed on March 18, 1982. Technical training has been and will continue to be administered on an ongoing basis.

Implementation of a comprehensive manpower forecasting system (QEB-AI 04) along with the reduced TVA procurement and overall construction effort due to deferments of the Hartsville and later scheduled nuclear plants has eliminated the problem of manpower shortages in QEB.

Three documents have been issued which will preclude recurrence of this deficiency. They are listed below:

QEB-AI 104, "Manpower Forecasting" - This administrative instruction was prepared to provide adequate manpower forecasts in the future. It was issued January 11, 1982.

QEB-EP 24.40, "Certification and Training of QEB Quality Control Employees" - This engineering procedure specified training requirements for QEB inspectors by title and grade and is supplemental to TVA's Division of Engineering Design engineering procedure (EN DES-EP) 1.31, "Nondestructive Examination (NDE) Personnel - Qualification and Certification." It was issued on March 15, 1983.

QEB-EP 24.70, "Surveillance Planning," was issued December 14, 1982. It provides for a "Contract Surveillance Inspection Plan" (CSIP) to cover the requirements of ANSI N45 2.13 including the availability of inspectors.