

UNITED STATES  
ATOMIC ENERGY COMMISSION  
DIVISION OF COMPLIANCE  
REGION II - SUITE 818  
230 PEACHTREE STREET, NORTHWEST  
ATLANTA, GEORGIA 30303

TELEPHONE: (404) 526-4503

In Reply Refer To:  
RO:II:FJL  
999-39/72-4  
50-390  
50-391

JAN 5 1973

Tennessee Valley Authority  
Attn: Mr. J. E. Watson  
Manager of Power  
818 Power Building  
Chattanooga, Tennessee 37401

Gentlemen:

This refers to the inspection conducted by Mr. R. L. Brown of the Region I, Regulatory Operations Office, on November 9 and 10, 1972, at the Rotterdam Dockyard Company (RDM) located in Rotterdam, The Netherlands, relative to the fabrication of the Watts Bar Units 1 and 2 reactor pressure vessels and to the discussion of the findings held by Mr. Brown with Mr. Maurik of General Superintendence Company, Mr. May of Westinghouse Electric Corporation, and Mr. Ester of RDM, at the conclusion of the inspection.

Areas examined during this inspection included the quality control program as related to the procurement and fabrication of the reactor pressure vessels for Watts Bar 1 and 2 facilities. Within these areas, the inspection consisted of selective examination of procedures and representative records, interviews with plant personnel, and observations by our inspector.

No violations or safety items were identified in the areas examined during this inspection.

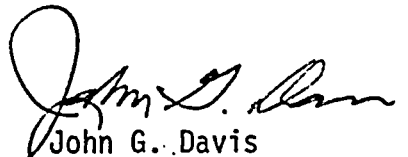
A copy of the inspection report is enclosed. In accordance with Section 2.790 of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed inspection report will be placed in the AEC's Public Document Room. If this report contains any information that you (or your contractors) believe to be proprietary, it is necessary that you make a written

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application within 20 days to this office to withhold such information from public disclosure. Any such application must include a full statement of the reasons on the basis of which it is claimed that the information is proprietary, and should be prepared so that proprietary information in the application is contained in a separate part of the document. If we do not hear from you in this regard within the specified period, the report will be placed in the Public Document Room.

Should you have any questions concerning this inspection we will be pleased to discuss them with you.

Very truly yours,

  
John G. Davis  
Director

Enclosure:  
Inspection Report No.  
999-39/72-4

Memorandum to Tennessee Valley Authority

dated

JAN 5 1973

cc w/encl:

J. B. Henderson, RO

RO:HQ (4)

Directorate of Licensing (4)

DR Central Files

R. L. Brown, RO:I

cc w/o encl:

FDR

Local PDR

NSIC

DTIE, OR

LB

VENDOR INSPECTION REPORT

RO Report No.: 999-39/72-4

Docket No.: 99900039

Vendor: Rotterdam Dockyard Company (RDM)

Type of Vendor: Vessel Fabricator

Type of Inspection: Vendor, Announced

Components Inspected For:

Licensee: Tennessee Valley Authority (TVA)

Facility: Watts Bar 1 and 2

Docket No.: 50-390 and 50-391

Dates of Inspection: November 9 and 10, 1972

Dates of Previous Inspection: June 5-8, 1972

Principal Inspector: *Ross L. Brown*  
Ross L. Brown, Reactor Inspector

12/6/72  
Date

Accompanying Inspector(s): None

Licensee Representative(s): None

Reviewed By: *E. M. Howard*  
*for* E. M. Howard, Chief, Facilities Construction &  
Engineering Support Branch

12-6-72  
Date

Proprietary Information: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

SUMMARY OF FINDINGS

Enforcement Action

None

Licensee Action on Previously Identified Enforcement Items

None

Design Changes

None

Unusual Occurrences

None

Other Significant Findings

Current Findings

None

Status of Previously Reported Unresolved Items

None

Management Interview

Rotterdam Dockyard Company (RDM)

Mr. P. Ester, Manager, Quality Control

Westinghouse Electric Corporation (W)

Mr. R. D. May, Senior, Quality Assurance Representative

General Superintendence Company (for TVA)

Mr. C. C. Van Maurik, Inspection Engineer (resident)

At the conclusion of the inspection, the following items were discussed:

- A. The inspector stated that the selective review of the Watts Bar 1, Quality Assurance Plan (checklist) and the Watts Bar 2, Material Certification, weld history records, and Quality Assurance plan, indicate

no deficiencies.

- B. The vendor stated that the RDM, Quality Control Department is reviewing the QC documents for conformance to the revised quality requirements resulting from previous inspections.

DETAILS

1. Persons Contacted

Rotterdam Dockyard Company (RDM)

Mr. P. Ester, Manager, Quality Control  
Mr. J. M. Olierook, Administration, Quality Control Records

Westinghouse Electric Corporation (W)

Mr. F. N. Moschini, Director, Quality Assurance (WENESE)  
Mr. R. D. May, Senior, Quality Assurance Representative

General Superintendence Company (for TVA)

Mr. C. C. Van Maurik, Inspection Engineer

2. General

- a. The estimated shipping date for these vessels is as follows:  
Watts Bar 1 - December 15, 1973 and Watts Bar 2 - June 1, 1974.
- b. RDM applied to the ASME for the Code "N" Stamp Authority, which was refused because the RDM inspection agency (Lloyds of London) is not an approved ASME inspection agency.
  - (1) RDM has contacted the Hartford Steam Boiler and Royal Globe Insurance Companies for possible use as an inspection agency.  
  
Royal Globe was scheduled to visit RDM the week of November 13, 1972, to discuss a program and possible contract.
  - (2) The Lloyds of London, management representatives were scheduled to visit the ASME, Headquarters in the United States during the weeks of November 13 and 20, 1972, to determine the ASME requirements for an approved inspection agency.
- c. RDM has not received any new contracts for reactor vessels to be used in the United States.

3. Record Review

The inspector reviewed the following quality control records. No deficiencies were noted.

- a. Watts Bar 1, weld history records.

- (1) Cladding upper vessel assembly.
- b. Watts Bar 2, weld history records.
- (1) Spherical ring six long seams.
  - (2) Four nozzle to shell welds.
  - (3) Quality Assurance Plan (checklist) for the welds that have been completed to date.
- c. Watts Bar 2, Material Certifications
- (1) Bottom head cap.
  - (2) Bottom head spherical ring, six segments.
  - (3) Two vessel ring forgings.
  - (4) Head flange forging.
  - (5) Vessel flange forging.
  - (6) Three inlet nozzle forgings.
  - (7) Three outlet nozzle forgings.
4. The inspector reviewed Mr. Maurik's November 2, 1972 inspection report to TVA. This report contains a resume of the inspectors activities and findings for the period October 16 to 31, 1972. These reports are submitted to TVA, on the first and sixteenth of each month.