

U. S. ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION I

REPORT OF VENDOR INSPECTION

RO VENDOR INSPECTION REPORT NO: 50-330/74-05, 50-329/74-05 DOCKET NO: 50-330
50-329
VENDOR: Babcock & Wilcox Company (B&W) LICENSE NO: CPPR-81
CPPR-82
ADDRESS: Mt Vernon, Indiana PRIORITY: _____
CATEGORY: A-2 - A-2

EQUIPMENT: Pressure Vessel and Pipe

LICENSEE: Consumers Power Company

LOCATION: Jackson, Michigan
(Midland Units 1 and 2)

TYPE OF LICENSEE: PWR-650 MW(e) PWR-818 MW(e)

TYPE OF INSPECTION: Routine Announced

DATE OF INSPECTION: February 12-13, 1974

DATE OF PREVIOUS INSPECTION: August 30-31, 1972

REPORTING INSPECTOR: Ross L. Brown DATE: 3/13/74
Ross L. Brown, Reactor Inspector

PROJECT
~~XXXXXXXXXXXX~~ INSPECTOR: _____ DATE: _____

OTHER ACCOMPANYING PERSONNEL: None

REVIEWED BY: J. H. Tillou, Senior DATE: 3/13/74

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SUMMARY OF FINDINGS

Enforcement Action

None

Licensee Action on Previously Identified Enforcement Items

Not applicable

Design Changes

None

Unusual Occurrences

None

Other Significant Findings

A. Current Findings

1. The referenced codes appear to be in compliance with the requirements of 10 CFR 50.55(a), Paragraph (j). (Details, Paragraph 3).
2. The unqualified weld material identified in these vessels has been removed and components re-welded. (Details, Paragraph 4)

B. Status of Previously Reported Unresolved Items

None

Management Interview

- A. The inspector conducted a meeting with the following management representatives at the conclusion of the inspection:

1. Persons Present

Consumers Power Company

C. Q. Hills, Quality Assurance Administrator

Babcock & Wilcox Company (B&W)

J. E. Hoke, Engineer
R. T. Hollander, Engineer
J. L. Johnson, Quality Assurance Engineer
J. F. Jaquess, Quality Assurance Engineer

B. The following items were discussed:

1. The inspector discussed the AEC procedure for the handling of inspection reports and documentation letters prior to their placement in the Public Document Room.
2. The inspector stated that no violations were noted during the review of the documents relative to the removal of the identified unqualified weld metal in the reactor pressure vessel, steam generators, and pressurizers. (Details, Paragraph 4)
3. The inspector stated that the referenced codes for these components appear to be in compliance with the requirements of 10 CFR 50.55(a) Paragraph (j). (Details, Paragraph 3)
4. The inspector stated that no violations were identified during the audit of quality records relative to the fabrication of the primary piping components. (Details, Paragraph 5)

DETAILS

1. Persons Contacted

Consumer Power Company

C. Q. Hills, Quality Assurance Administrator

Babcock & Wilcox

J. L. Johnson, Quality Assurance Engineer

J. F. Jaquess, Quality Assurance Engineer

2. General

- a. The vendor stated that the anticipated shipping schedule for the Unit 1 steam generators, pressurizers and primary piping is during the third quarter of 1974 and the reactor pressure vessel is scheduled to be shipped during the fourth quarter of 1974.
 - b. The anticipated shipping schedule for the Unit 2 primary piping, reactor pressure vessel and pressurizers is scheduled for the third quarter of 1975 and the two steam generators scheduled to ship during the fourth quarter of 1975.
3. The Referenced Codes Appear to be in Compliance with the Requirements of 10 CFR 50.55(a) Paragraph (j).

The vendor documents identifies the applicable code for these components as follows:

- a. Pressure vessels ASME Section III, 1968 Edition, including Addenda Through Summer of 1968 - ASME Section IX, 1971 Edition and including Addenda Through Winter 1971 and weld metal ASME Section III, 1971 Edition and including Addenda Through Summer 1972.
- b. Piping - Nuclear Power Piping, USAS-B31.7, February 1968 and Errata, dated June 1968 ASME Code, Section IX, 1971 Edition and including Addenda Through Winter 1971, weld metal ASME Code, Section II, 1971 Edition and including Addenda through Summer 1972.

These applicable codes are in compliance with the codes and standards requirements since the licensee published the public hearing date on October 20, 1970.

4. The unqualified weld metal identified in these vessels has been removed and components re-welded.

The vendor identified non-conforming weld metal in the Unit 1 reactor pressure vessel, steam generator, pressurizers, and the Unit 2 reactor pressure vessel.

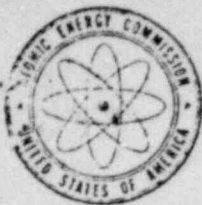
The shop travelers indicated that the corrective action was accomplished as follows:

- a. Unit 1 and 2 reactor pressure vessels, completely removed the weld metal from the seal ledge to vessel flange by machining, acid etched the weld area to assure complete removal of weld deposit, re-welded with acceptable weld material and qualified procedure.
- b. Unit 1 steam generator - MK. 3 shell section, four base metal repairs. Boat samples were removed from each repair area, samples tested and weld metal found to be acceptable. Repairs were successfully made with acceptable material and by qualified a procedure.
- c. Unit 1 pressurizer (1) MK2 shell section weld preparations on each end of section. Unqualified weld material was removed area was acid etched, and successfully repaired, (2) MK. 4 shell section two long seam welds built up and base metal repaired. Non-conforming material removed and areas repaired with acceptable materials and by use of qualified procedures, (3) upper head weld prep repairs. Unqualified weld material removed and replaced with qualified material.

The inspector did not identify any violation to the code or specifications during this review.

5. Record Review

Unit 1 Primary Piping - The inspector audited shop travelers and quality records selected on a random basis and reviewed in detail to ensure conformance with the applicable codes for the fabrication, heat treatment, and testing of a 28 inch and 36 inch elbow. No deficiencies were noted.



UNITED STATES
ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION III
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GLEN ELLYN, ILLINOIS 60137

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(312) 858-2660

A. RO Inspection Report No. 050-330/74-05 and 050-329/74-05

Transmittal Date : April 9, 1974

Distribution:
RO Chief, FS&EB
RO:HQ (5)
DR Central Files
Regulatory Standards (3)
Licensing (13)
RO Files

Distribution:
RO Chief, FS&EB
RO:HQ (4)
L:D/D for Fuels & Materials
DR Central Files
RO Files

B. RO Inquiry Report No. _____

Transmittal Date : _____

Distribution:
RO Chief, FS&EB
RO:HQ (5)
DR Central Files
Regulatory Standards (3)
Licensing (13)
RO Files

Distribution:
RO Chief, FS&EB
RO:HQ
DR Central Files
RO Files

C. Incident Notification From: _____
(Licensee & Docket No. (or License No.))

Transmittal Date : _____

Distribution:
RO Chief, FS&EB
RO:HQ (4)
Licensing (4)
DR Central Files
RO Files

Distribution:
RO Chief, FS&EB
RO:HQ (4)
L:D/D for Fuels & Materials
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