

UNITED STATES NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report of Construction Inspection

IE Inspection Report No. 050-155/75-13

Licensee: Consumers Power Company  
212 West Michigan Avenue  
Jackson, Michigan 49201

Big Rock Point Nuclear Plant  
Charlevoix, Michigan

License No. DPR-6  
Category: C

Type of Licensee: BWR 240 Mwt

Type of Inspection: Routine, Announced

Date of Inspection: October 24, 1975

Principal Inspector:

*J. Sutton*  
J. Sutton

11-13-75  
(Date)

Accompanying Inspectors: None

Other Accompanying Personnel: None

Reviewed By:

*D. W. Hayes*  
D. W. Hayes  
Senior Inspector  
Construction Projects Section  
Reactor Construction and  
Engineering Support Branch

11/3/75  
(Date)

8101230748

## SUMMARY OF FINDINGS

### Inspection Summary

Inspection on October 24, (75-13): Review of available documentation pertaining to previous identified unresolved items: (1) Inservice inspection program and (2) Valve body wall thickness measurement program (Inspection Reports No. 050-155/74-04 and No. 050-155/75-03). Review of records for emergency condenser piping repairs, main steam line defect repair and inservice inspection performed during January to June, 1975.

### Enforcement Items

None identified.

### Licensee Action on Previously Identified Enforcement Items

Not applicable.

### Other Significant Findings

#### A. System and Components

1. Unresolved Item - Big Rock Point (BRP) 1974 Inservice Inspection (ISI) Test Block Identification

Identification of the ISI Test Blocks used in the 1974 ISI and the Final ISI report could not be determined. (Paragraph 1, Report Details)

2. Unresolved Item - Emergency Condenser Piping Repairs

The emergency condenser repair package was reviewed for completion. Documentation indicating a welder's qualification to weld to procedure SM-1-1 was not available for review. The documentation reviewed, with the exception of one item, as noted, was found to be in order. The licensee indicated that this missing record would be in the corporate office files and would be retrieved. (Paragraph 2, Report Details)

3. Main Steam Line Defect Repairs

The records generated during the repair of the main steam line defect were reviewed and found to be in order. (Paragraph 3, Report Details)

4. 1975 Inservice Inspection Records

The results of Consumers Power Company (CP) Special Report No. 22 issue for the 1975 inservice inspection was reviewed and found to be in order. (Paragraph 4, Report Details)

B. Facility Items (Plans and Procedures)

Not applicable.

C. Managerial Items

Not applicable.

D. Noncompliance Identified and Corrected by Licensee

None.

E. Deviation

None.

F. Status of Previously Reported Unresolved Items

1. Inservice Inspection Program (RO Inspection Report No. 050-155/74-04)

a. The calibration records for the acoustical search units used during the 1974 Big Rock Point (BRP) Inservice inspection were examined and found to be in order. The material certification records for ISI test blocks including the records for the chemical analysis of the 15 ISI test blocks located onsite and in (BRP's) possession, were examined and were found to be in order. The above items are considered resolved.

b. The authorized inspector sign off of the 1974 inservice inspection was not available for the inspectors review. This item remains open. (Paragraphs 1 and 5, Report Details)

2. Valve Body Wall Thickness Measurement Program (RO Report No. 050-155/74-04)

Final evaluation and acceptance of the valves that were measured during the 1974 inservice inspection has been documented. This item is considered resolved.

Management Interview

- A. The following persons attended the management interview at the close of the inspection.

Consumers Power Company (CP)

G. C. Tyson, Maintenance Superintendent  
G. B. Szczotka, Quality Assurance Superintendent

- B. Matters discussed and comments, on the part of management personnel, were as follows:

1. The inspector stated that the purpose of the inspection was to review the outstanding unresolved items that have been reported as a result of IE's site inspection of July 15-18, 1974. (RO Inspection Report No. 050-155/74-04) The inspector added that not all the items could be resolved due to the absence of adequate documentary evidence, to show that they had been reviewed and corrected by BRP personnel. The licensee stated that steps would be taken to resolve these matters.
2. The inspector stated that during his review of the Final Report of the 1974 ISI, issued by Southwest Research Institute (SWRI) that it was noted that the report still had not been signed off by the Authorized Inspector (AI) and in addition he could not correlate the ISI test blocks in BRP's possession, with the report drawings of the test blocks used during the inspection. The licensee stated that this matter would be discussed with both the AI and SWRI personnel. (Paragraphs 1 and 5, Report Details)
3. The inspector stated that with the exception of the welders qualification records for one welding procedure not being available for review, the records for the steam line and emergency condenser repairs were found to be in order. The licensee stated that they would request the welders qualification records from their corporate office for the inspectors review. (Paragraphs 2 and 3, Report Details)

4. The inspector further stated that the documentation reviewed for the valve body wall thickness measurement program and SWRI's reply to CP request for further clarification of SWRI's ISI record review was found to be in order.

## REPORT DETAILS

### Results of Inspection

#### 1. 1974 Inservice Inspection ISI Test Block Identification

During the inspectors review of the final Southwest Research Institute (SWRI) report of the 1974 inservice inspection it was noted and brought to the attention of the licensee that correlation between the test blocks in the possession of BRP and the drawings of the test blocks used by SWRI during the ISI could not be identified by serial numbers or any other means. The blocks presently under BRP control have been stamped with a BRP serial number which does not appear on the drawings that are included in the final ISI report. The licensee is in the process of reviewing the entire matter.

#### 2. Emergency Condenser Piping Repairs

The inspector reviewed available documentation pertaining to the repairs that were made to the emergency condenser piping. The repairs consisted of removal and rewelding of a 15-inch section of the emergency condenser four-inch line. The following records were examined.

- a. Receiving Documentation.
- b. Material Certification.
- c. Records of meetings between CP and the AI.
- d. CP Report of Metallurgical Examinations of the Pipe in Question.
- e. NDE Records and Examiners Qualifications.
- f. BRP Procedure No. MECS-1-A, Addendum B, Revision 1, April 21, 1975.
- g. BRP Procedure No. MECS-5-RW3, April 10, 1975.
- h. Welding Procedures and Welder Qualifications.
- i. Hydrostatic Test of the Pipe.
- j. Heat Treatment Records.



k. Repair Inspection Checklist.

- l. Evaluation of the Linear Indication Found and Corrective Action Taken.

With the exception of missing qualification records for a welder, the records reviewed were found to have been reviewed and signed as required by BRP procedures. The licensee is requesting the missing qualification records from CP corporate headquarters for review during a subsequent inspection.

3. Main Steam Line Repair

The inspector reviewed the records generated during the repair of the main steam line defect (AO-5-75). The following records were examined.

- a. CP and AI meeting notes.
- b. Repair Procedure MISI-5, Revision 0, April 16, 1975.
- c. Repair Inspection Checklist.
- d. NDE Records and Examiners Qualifications
- e. Welding Procedures and Welders Qualifications
- f. Heat Treatment Records.
- g. Hydro Test Records.

All records reviewed were found to be in order and had been reviewed and signed as required by BRP procedures.

4. 1975 Inservice Records

The 1975 inservice records as generated during the ISI examination were reviewed for completion. CP's Special Report No. 22, Titled, "1975 Inservice Inspection, Big Rock Point Plant" was used as the consulting document. The inspection was conducted during the period of January through June 1975. The inspections were conducted using the ASME Boiler and Pressure Vessel Code Section XI, 1971 Edition with the summer 1971 Addenda and Section 9.0 of the BRP Technical Specifications.

The inspections were conducted by CP Laboratory Technical Service Testing Services and SWRI using qualified personnel.

The inspector reviewed the following records:

- a. Special Report No. 22.
- b. NDE Procedures, CP and SWRI.
- c. NDE Personnel Qualification.
- d. Material Certification (Test Block and Couplant).
- e. Search Unit Certifications.
- f. Quality Assurance Inservice Records.

The inspector was informed that a detailed audit and review of all records was to be performed by BRP Quality Assurance Personnel. The results of the audit will be examined during a subsequent inspection.

5. Authorized Inspector Sign Off

The licensee informed the inspector that the 1974 ISI final report had not been submitted to the AI, Hartford Steam Boiler Company for their review and sign off. The licensee stated that the report will be sent to the AI after the records for the test blocks have been reviewed by CP QA personnel.

This item remains open.