

U.S. NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

REGION III

Report No. 50-329/80-37; 50-37, 80-38

Docket No. 50-329; 50-330

License No. CPPR-81; CPPR-82

Licensee: Consumers Power Company  
1945 West Parnall Road  
Jackson, MI 49201

Facility Name: Midland Nuclear Power Plant, Units 1 and 2

Inspection At: Midland Site, Midland, MI

Inspection Conducted: December 1-31, 1980

Inspector: R. J. Cook

Approved By: R. C. Knopf, Chief  
Projects Section I

*R. J. Cook*  
*R. C. Knopf*

1/8/81  
1/12/81

Inspection Summary

Inspection on December 1-31, 1980 (Report Nos. 50-329/80-37; 50-330/80-38)

Areas Inspected: Activity pertaining to resolution of item of noncompliance pertaining to hydrostatic testing of the Incore Instrument Tank 2T-87 and associated quality documentation; licensee audit of Zack Co. activities at the Midland Site, Chicago offices and SQR activities. This inspection effort involved a total of 31 inspector-hours by one NRC inspector.

Results: No items of noncompliance or deviations were identified.

## DETAILS

### Persons Contacted

#### Consumers Power Company Personnel

D. Miller, Site Manager  
T. Cooke, Project Superintendent  
\*D. Turnbull, Site Project QA Superintendent  
D. Keating, IE&TV Section Head  
M. DeWitt, QA Mechanical  
H. Allen, QA Mechanical

#### Bechtel Power Corporation Personnel

\*M. Dietrich, Project QA Engineer  
H. Adler, Subcontracts  
R. Siple, Supervisor, Subcontract QC  
H. Smith, Subcontracts QC

Numerous other principal staff and personnel were contacted during the reporting period.

\*Denotes those present during the exit interview conducted during the reporting period.

### Licensee Action on Previously Identified Items

(Closed) Noncompliance (50-330/79-13-01). During the reporting period, the Resident Inspector reviewed the hydrostatic Test Report for the retest of Unit 2 Incore Instrument Tank 2T-87. The supplemental test was performed and witnessed by the Resident Inspector on May 16, 1979. However, the test report was not made available by Chicago Bridge and Iron until a later date. The supplemental test report was signed as being acceptable by the Hartford Boiler Authorized Inspector on August 22, 1979.

The Resident Inspector reviewed selected portions of the quality verification documentation associated with the licensee acceptance of the Incore Instrument Tanks. This documentation indicated that audits were performed by Consumers Power Co. and Bechtel Power Corp. and that the requirements of Project Quality Control Instructions No. PQCI-SM 1.17 Rev. 0 for erection of Incore Service Tanks had been accomplished. Construction Quality Control Release No. QCFM-8807 for the Incore Instrument Tanks was signed and dated December 8, 1980, and authorized turnover and acceptance of the tanks.

Consumers Power Co. Nonconformance Report No. M-01-5-9-037 pertaining to inability to inspect the tanks was satisfactorily closed on September 17, 1979.

The review of the quality documentation revealed that drawing number 7220-M-90-20, Support Rings for Incore Instrumentation Tanks, was clarified with Revision 5 to permit field cut of a maximum radius "rat hole" at the vertical weld seams for accessibility. Visual Examination Report No. 1, R-3 (1,2,3) indicated that vertical welds 1A, 1B, 2A, 2B, 3A and 3B for tank 2T-87 had been visually inspected during tank fabrication. Liquid Penetrant Test Report No. 4, (NCL #6) indicated that attachment locations in proximity to vertical weld 1A and the intersection of the support ring satisfactorily passed a penetrant test examination after removal of the temporary attachment. A nominal 3/4 inch long area of vertical seam is obstructed by the support ring. The licensee stated that a subsequent review of radiographic film indicated that vertical seam 1A of tank 2T-87 had been radiographed to within 15/16 inch of the area in question and that no defects had been detected.

Based on the above reviews and efforts of the licensee, the item of noncompliance referenced in Appendix A of NRC Inspection Report No. 50-329/79-13; 50-330/79-13 is considered closed and no further action is considered at this time.

#### Functional or Program Areas Inspected

##### 1. Consumers Power Audits of The Zack Co.

During the reporting period, the Resident Inspector reviewed audit reports for audits of the Zack Co. performed on Nov. 18-24, Dec. 2-4, and Dec. 3, 1980. The audits covered Zack Co. activities at the Midland Site, Zack Co. activities at the Chicago offices and Bechtel Supplier Quality Representative (SQR) activities at the Zack Co. Chicago offices, respectively. The audits were performed by Consumers Power Co.

The audit of the Zack Co. activities at the Midland Site resulted in five audit findings and two items requiring more information to assess compliance with requirements (Unresolved Items). One of the Unresolved items, pertaining to missing signatures and/or information on two Plant Bulk-Material Travelers, resulted in an audit finding. The five audit findings require corrective action and a subsequent response.

The audit of the Zack Co. activities at the Chicago offices resulted in seven audit findings. Four of the audit findings were issued as being resolved and require no further action. The three remaining items require corrective action and a response. One of these items, pertaining to duct segment leak testing, resulted in Consumers Power Co. issuing a formal Midland Project QA Stop Work Order on Dec. 8, 1980. The Duct Segment Leak Testing Procedure "requires that pressure class 5 duct be tested at + or -2" w.g. or 1 1/2 times the specified operating pressure, whichever is greater. The audit finding indicated that the required test pressure nor the actually applied test pressure complied with the requirements of Technical Specification M-151A, HVAC Seismic Class I, Equipment and Duct-work Installation. This specification requires that positive pressure duct be tested with positive

pressure and negative pressure duct be tested with negative pressure. The licensee found this pressure test discrepancy to exist in all of the seventeen duct pieces examined for conformance to test specification requirements. Additionally, allowable leakage was not determined as per the technical specifications for the seventeen duct pieces referenced above.

The audit of the Bechtel Supplier Quality Representative activities resulted in one Unresolved item pertaining to the lack of availability for review of certification documentation for the assigned SQR at the Zack Co. offices in Chicago.

#### Exit Interview

The Resident Inspector met with licensee representatives (denoted under Persons Contacted) on December 29, 1980. The inspector summarized the scope and findings of the inspection effort to date. The licensee acknowledged the findings reported herein.

Attachment: Preliminary Inspection Findings

PRELIMINARY INSPECTION FINDINGS

1. LICENSEE

Consumers Power Company  
1943 West Purnell Road  
Jackson, MI 49201  
Midland Unit 1 (Midland, MI)  
Midland Unit 2 (Midland, MI)

2. REGIONAL OFFICE

U.S. Nuclear Regulatory Commission  
Office of Inspection & Enforcement, RIII  
799 Roosevelt Road  
Glen Ellyn, IL 60137

3. DOCKET NUMBERS

50-329 50-330

4. LICENSE NUMBERS

CPPR-81 CPPR-82

5. DATE OF INSPECTION

Nov. 15 - Dec. 29, 1980

☐ 6. Within the scope of the inspection, no items of noncompliance or deviation were found.

☒ 7. The following matters are preliminary inspection findings:

Noncompliance item (50-330/79-13-01) pertaining to hydrostatic testing of Incore Instrument Tank 2T-87 referenced in Appendix A of NRC Inspection Report No. 50-329/79-13; 50-330/79-13 is considered closed and no further action is planned at this time.

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☒ 8. These preliminary inspection findings will be reviewed by NRC Supervision/Management at the Region III Office and they will correspond with you concerning any enforcement action.

*R. J. Cook*  
Nuclear Regulatory Commission Inspector