

U. S. ATOMIC ENERGY COMMISSION  
DIRECTORATE OF REGULATORY OPERATIONS

REGION III

Report of Construction Inspection

RC Inspection Report No. 050-329/73-09  
RO Inspection Report No. 050-330/73-09

Licensee: Consumers Power Company  
1945 Parnall Road  
Jackson, Michigan 49201

Midland Plant, Units 1 and 2  
Midland, Michigan

Licenses No. CPPR-81  
and No. CPPR-82  
Category: A

Type of Licensee: PWR (B&W) - Unit 1, 650 Mwe  
Unit 2, 818 Mwe

Type of Inspection: Special, Announced

Dates of Inspection: October 10 and 11, 1973

Dates of Previous Inspection: September 5 - 7, 1973

Principal Inspector: *R. A. Rohrbacher*  
R. A. Rohrbacher

11-13-73  
(Date)

Accompanying Inspectors: None

Other Accompanying Personnel: None

Reviewed By: *R. C. Knop*  
R. C. Knop, Senior Reactor Inspector  
Reactor Construction Branch

11/13/73  
(Date)

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## SUMMARY OF FINDINGS

### Enforcement Action

#### A. Violations

No violations of AEC requirements were identified.

#### B. Safety Matters

No safety matters were identified.

### Licensee Action on Previously Identified Enforcement Matters

Not applicable to this special inspection.

### Design Changes

Not applicable.

### Unusual Occurrences

No unusual occurrences were identified.

### Other Significant Findings

#### A. Current Findings

The Consumers Power Company (CP) QA organizational structure has been modified and expanded. The CP Project Quality Assurance Services Department (PQASD) is headed by a director and consists of a general office staff (located in Jackson, Michigan) and field staffs (located at each construction site). The general office staff presently consists of a quality assurance administrator and a quality assurance engineer. Two additional personnel are in the process of being hired. This general office staff is to be utilized for all CP construction projects, and each project will be assigned a project QA engineer. The Midland Project QA field organization structure is to remain as it presently exists, but two or more QA engineers are to be added as activity increases during 1974.

G. S. Keeley has been appointed Director of PQASD, effective October 1, 1973, reporting to the Vice President for Electric Plant Projects (Design and Construction). H. W. Slager has been hired recently as a QA engineer by CP. Mr. Slager's education and experience include the field of metallurgy.

B. Unresolved Matters

No new unresolved matters were identified.

C. Status of Previously Reported Unresolved Matters

CP Quality Assurance Manual (RO Inspection Report No. 050-329/73-06 and No. 050-330/73-06)

Previously, it was determined that the CP Quality Assurance Manual (QAM) for the Midland Project lacked, or was inconsistent with, certain requirements of 10 CFR Part 50, Appendix B. Most of the significant discrepancies to the QAM are corrected. CP indicated that the remaining inconsistencies would be corrected by appropriate changes to the QAM and to pertinent references. This matter remains open pending review of the changes to be made. (Results of Inspection)

(Other previously reported unresolved matters are not applicable to this special inspection.)

Management Interview

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

Consumers Power Company (CP)

G. S. Keeley, Director of Quality Assurance Services  
\*W. E. Kessler, Project Manager  
\*A. J. Birkle, Metallurgical Engineer  
\*M. P. Hanson, Project Engineer

\*Part Time

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

The inspector stated that the primary purpose of the special inspection was to evaluate the current QAM relative to the requirements of 10 CFR Part 50, Appendix B. The inspector further stated that, although most of the previously identified discrepancies are corrected, certain detailed requirements are not yet included or not sufficiently explicit in the QAM. Discussions on these matters, during the inspection, were summarized at this time. CP stated that the comments made by the inspector, relative to these discrepancies, were understood and that CP would make appropriate changes to the QAM and pertinent references as required. (Results of Inspection)

## REPORT DETAILS

### Persons Contacted

In addition to the individuals listed under the Management Interview section of this report, H. W. Slager, Quality Assurance Engineer, CP, was contacted during the inspection.

### Results of Inspection

#### Review of CP Quality Assurance Manual

Discrepancies identified during this review of the QAM for the Midland Project are listed below. These discrepancies were discussed with the licensee, and corrective action proposed by the licensee was considered to be adequate.

Some of the discrepancies involved incorrect reference to other manuals, or sections of other manuals, identified in the QAM. The licensee stated that these references would be checked for accuracy and that appropriate corrections would be made.

#### 1. Section 1 - Organization

This section (on sheet 2) indicates that the project superintendent has some QA functions that are also delegated to the PQASD. The inspector stated that, although it is acceptable for the project superintendent to have the authority to identify quality problems, to stop work if quality requirements are not met, etc., measures must exist to assure that the QA organization has the same responsibility and authority which cannot be unduly influenced by the project superintendent. By way of clarification, the inspector further stated that the manual must be clear that the QA organization has full authority to take adequate, independent action concerning QA functions.

The QAM does not reflect the recent changes, discussed under the Current Findings section of this report, in the CP QA organization structure. CP stated that the QAM will be revised to reflect these changes.

#### 2. Section 3 - Design Control

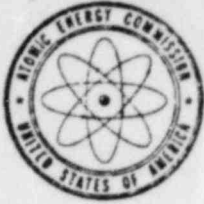
This section (on sheet 3) states that methods of identifying and controlling design interfaces shall be delineated by Bechtel procedures. However, the referenced procedure (Section II, No. 6, of the Bechtel Nuclear QA Manual) does not address this matter adequately. (See RO Inspection Report No. 050-329/73-08 and No. 050-330/73-08 for details and apparent violations of AEC requirements relative to this matter.)

3. Section 10 - Inspection

A Babcock and Wilcox Company QA Plan, relative to an internal inspection program, exists but is not identified or referenced in this section of the QAM.

4. Section 15 - Nonconforming Materials, Parts, or Components

It is not clear how records (documentation) relating to nonconforming materials, parts, or components are to be controlled, reviewed, filed, etc. Although the manual contains appropriate commitments in this area of QA, procedural control mechanisms have not been identified.



UNITED STATES  
ATOMIC ENERGY COMMISSION  
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A. RO Inspection Report No. 050-329/73-09  
050-330/73-09

Transmittal Date : November 15, 1973

Distribution:  
RO Chief, FS&EB  
RO:HQ (5)  
DR Central Files  
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B. RO Inquiry Report No. \_\_\_\_\_

Transmittal Date : \_\_\_\_\_

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

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