

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

REGION III

Report No. 50-329/81-22; 50-330/81-22

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: September 1 - November 30, 1981

Inspector: R. J. Cook

Approved By: D. C. Boyd, Chief  
Reactor Project Section 1A

12/19/81

12/15/81

Inspection Summary

Inspection on September 1 - November 30, 1981 (Report Nos. 50-329/81-22;  
50-330/81-22)

Areas Inspected: Examination of site conditions; in-place storage and maintenance of Limitorque valve operators; underated terminal strips on valve operators; failure of Power-Strut spring lock nuts; cycle 2 SALP; and changes in site management. This inspection involved a total of 67 inspector-hours onsite by one NRC inspector including 0 inspector-hours onsite during off-shifts.

Results: No items of noncompliance or deviations were identified.

## DETAILS

### 1. Persons Contacted

#### Consumers Power Company Personnel

\*D. Miller, Site Manager  
T. Cooke, Project Administrator  
B. Peck, Construction Superintendent  
\*D. Johnson, Construction Control Supervisor  
\*B. Marguglio, Director, Environmental Services and QA  
\*W. Bird, Manager MPQAD  
\*D. Turnbull, Site Project QA Superintendent  
\*M. Schaeffer, Section Head, Electrical/I&C QA  
\*W. Agerter, Section Head, Mechanical QA  
H. Leonard, Section Head, HVAC QA  
E. Jones, Supervisor, IE & TV, Electrical  
H. Allen, Mechanical QA

#### Bechtel Corporation Personnel

M. Dietrich, Project QA Engineer

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

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

### 2. Functional or Program Areas Inspected

#### a. Site Tours

At periodic intervals during the report period, tours of selected site areas were performed. These tours were intended to assess the cleanliness of the site; storage conditions of equipment and piping being used in site construction; the potential for fire or other hazards which might have a deleterious effect on personnel and equipment; and to witness construction activities in progress.

#### b. In-Place Storage and Maintenance of Limitorque Motor Operators

During the reporting period, the Resident Inspector was notified by a Region IV Vendor Inspector that one of the factory representatives for Limitorque had questioned the adequacy of storage and maintenance conditions for Limitorque Valve Operators at the Midland Site. A review of the existing storage and maintenance requirements was made and it appears that limit switch compartment heaters need not be energized provided the storage areas are warmed and/or contacts are protective coated. However, the impact of having limit

switch compartments open is being evaluated and the adequacy of the storage requirements and frequency of inspections is being reviewed. Therefore, this item is considered unresolved until these reviews and evaluations can be completed. (50-329/81-22-01; 50-330/81-22-01)

c. 50.55(e) Item - Underated Terminal Strips on Limitorque Valve Operators

During the reporting period, the licensee has determined that several styles of terminal strips which are used in Limitorque Valve Operators are either underated for the voltage application or have not been environmentally qualified for the service intended. The designation of these terminal strips are Buchanan 0824, Cinch Jones Series 140, Marathon 100 Series, Beau 7600 and Kulka 622. The above list of unsatisfactory terminal strips indicates there may be weaknesses in the controls envoked during manufacture and/or service of Limitorque operators. Because of the industry-wide implications, the Resident Inspector informed the licensee that the installation of underated and/or unqualified terminal strips would be brought to the attention of the NRC Vendor Inspectors of Region IV.

d. Failure of Power-Strut Spring Lock Nuts

During the reporting period, the Resident Inspector was made aware through NRC internal memoranda that the Gulf States Utilities Company River Bend Nuclear Station had issued a 10 CFR Part 50.55(e) item pertaining to failure of spring lock nuts used in Power-Strut supplied equipment. Therefore, the licensee was informed that the above referenced 50.55(e) item had been issued by Gulf States Utilities Company. The licensee pursued the item, issued a Safety Concern and Reportability Evaluation report, and was informed that the lock nuts used at River Bend Nuclear Station were isolated to a specific production lot of strut nuts (Lot No. PS-9227-1/2RS) which were not used at the Midland Site. Power-Strut sent the Midland Site information pertaining to the 10 CFR Part 21 notification of the inability to confirm by testing the slip load values used when the nuts are installed to manufacturers specifications.

e. Cycle 2 Systematic Assessment of Licensee Performance (SALP)

During the reporting period, the Cycle 2 Systematic Assessment of Licensee Performance (SALP) was developed and NRC staff meetings were held to discuss the assessment. The scheduled meeting with the licensee was for November 13, 1981. However, on November 3, 1981, the NRC informed the licensee that the meeting was cancelled and a later schedule would be established.

f. Changes in Site Management

On October 1, 1981, T. Cooke, Site Project Superintendent transferred to the Consumers Power Company corporate offices in Jackson, Michigan as a Projects Administrator. Mr. B. Peck became the Midland Site Construction Superintendent and essentially assumed those duties previously performed by Mr. Cooke.

On November 20, 1981, Mr. D. Turnbull, Site Project QA Superintendent became the Assistant Manager for Administration and Special Projects, and Messrs. B. Marguglio, Director, Environmental and Quality Assurance and W. Bird, Manager MPQAD assumed the responsibilities of the Project QA Superintendent. Although Messrs. Marguglio and Bird are from the corporate office, they have opted to manage the QA functions from the Midland Site offices.

Unresolved Items

Unresolved items are matters about which more information is required in order to ascertain whether they are acceptable items or items of noncompliance or deviations. Unresolved items disclosed during this inspection are discussed in Paragraph 2.b.

Exit Interviews

The Resident Inspector attended the exit interviews conducted by Region III Reactor Inspectors Messrs. R. Landsman, C. Jones and R. Love on September 11, September 25 and October 9, 1981 respectively.

The Resident Inspector met with licensee representatives (denoted under Persons Contacted) on September 25, September 30, November 2 and December 2, 1981 to summarize the scope and findings of the inspection effort through November 30, 1981. The licensee acknowledged the findings reported herein.