

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

REGION III

Report No. 50-329/78-02; 50-330/78-02

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: February 8, 9, and 10, 1978

Inspector: *P. A. Barrett*
P. A. Barrett

2/23/78

Approved By: *R. L. Spessard*
R. L. Spessard, Chief
Engineering Support Section 1

2/23/78

Inspection Summary

Inspection on February 8, 9, and 10, 1978, (Report No. 50-329/78-02; 50-330/78-02)

Areas Inspected: Electrical receipt and storage procedures; QA/QC matters relative to the receipt and storage of electrical switchgear, load centers and motor control centers; and QA/QC matters relative to the installation of electrical switchgear. The inspection involved 22 inspector-hours onsite by one NRC inspector.

Results: No items of noncompliance were identified.

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DETAILS

Persons Contacted

Principal Licensee Employees

- *B. W. Marguglio, Director Quality Assurance, Project Engineering and Construction
- *J. L. Corley, Quality Assurance Superintendent
- *B. H. Peck, Construction Supervisor
- *P. R. Kyner, Quality Assurance Supervisor, Electrical
- *P. W. Jacobsen, Quality Assurance Engineer
- R. G. Wollney, Quality Assurance Supervisor, Civil

Bechtel Power Corporation Employees

- J. Milandin, Quality Assurance Manager
- G. L. Richardson, Lead Quality Assurance Engineer
- *R. C. Hollar, Quality Assurance Engineer
- *W. L. Barclay, Project Field Quality Control Engineer
- D. Thompson, Lead Quality Control Engineer
- *L. Stornetta, Assistant Project Field Engineer
- H. Foster, Assistant Project Field Engineer, Quality Control

The inspector also contacted other personnel during the inspection including engineers and QC inspectors.

*Denotes those attending the exit interview.

Functional or Program Areas Inspected

1. Record Review of Implementing Instructions and Procedures
 - a. The RIII inspector reviewed receipt records for the following electrical equipment:
 - (1) 4160 volt switchgear No. 1A05, received on Material Receiving Report (MRR) No. AEO-2240, dated December 15, 1976.
 - (2) 4160 volt switchgear No. 1A06, received on MRR No. AEO-2239, dated December 15, 1976.

- (3) 4160 volt switchgear No. 2A05, received on MRR No. AEO-2284, dated December 22, 1976.
- (4) 4160 volt switchgear No. 2A06, received on MRR No. AEO-2363, dated January 5, 1977.
- (5) Eight circuit breakers for switchgear Unit No. 2A06: Breakers M-8-1-9-A, M-8-2-9-A, M-8-3-9-A, M-8-4-9-A, M-8-5-9-A, M-8-6-9-A, M-8-7-9-A, and M-8-8-9-A received on MRR No. AEO-994, dated October 14, 1975. Breaker No. M-8-6-9-A was properly replaced, MRR No. AEO-1639, Revision 1, dated September 8, 1976, as a result of a finding identified in Nonconformance Report, NCR No. 352. The Quality Verification Documents, form G-321-D, did not indicate the required acceptance of Bechtel Project Engineering. However, the deficiencies were properly controlled on the Suspense Log Sheet.
- (6) 480 volt load centers No. 1B18 and No. 2B18, received on MRR No. AEO-2566, dated September 9, 1977.
- (7) Seven circuit breakers for load center No. 1B18: serial numbers 258A2164-202-2, -214MM, -212-6, -216-4, -212-4, -225-2, and -216-2, received on various MRRs. Note: NCR No. 742 which identified a documentation shortage was properly closed out prior to the release of the applicable breakers.
- (8) Seven circuit breakers for load center No. 2B18: serial numbers 258A2166-214-JM, -216-2, -216-1, -212-3JM, -212-2JM, -212-1JM, and -225, received on MRR No. AEO 2768, Revision 1, dated September 14, 1977. Note: NCR No. 742 which identified a documentation shortage was properly closed out prior to the release of the applicable breakers.
- (9) 480 volt motor control centers No. 1B44 and No. 2B43, received on MRR No. AEO-4909, dated November 25, 1977.
- (10) 480 volt motor control centers No. 1B55 and No. 2B24, received on MRR No. AEO-5091, dated December 19, 1977.

These records were in accordance with Bechtel's Quality Control Notices Manual, Project Special Provisions Notice, PSP, G-5.1, Revision 3 and Quality Control Instruction R-1.00, Revision 5, dated September 14, 1977.

b. The RIII inspector reviewed storage records for the following electrical equipment:

- (1) 4160 volt switchgear units No. 1A05, No. 1A06, No. 2A05, and No. 2A06.
- (2) 480 volt load centers No. 1B18 and No. 2B18.

The records were in accordance with Bechtel's PSP G-5.1, Revision 3; Field Procedure General, FPG No. 5.000, Revision 2. The RIII inspector determined that ten (10) of the seven-day Maintenance Information records, F-10-21, required per FPG No. 5.000 and completed between July 1, 1977 and January 30, 1978 for 4160 volt switchgear did not identify the specific units that were inspected. However, the responsible Bechtel Field Engineer stated that there were only four Class IE switchgear units and that the requirements of the F-10-21 were completed for all four units for each seven-day inspection period. The licensee stated that the ten (10) records would be changed to identify the specific units inspected and that measures would be established to require specific identification on future records.

During a phone conversation with the licensee on February 17, 1978, the licensee stated that the ten (10) records had been changed to identify the specific units inspected and that Bechtel Site QA had submitted Quality Action Request, QAR, #5D-67 to the Bechtel Site Construction Superintendent to establish requirements to have specific identification on future records. The inspector has no further questions on this matter.

No items of noncompliance were identified.

c. The RIII inspector reviewed the following audit functions concerning receipt and storage:

- (1) Consumers Power Audit No. F-77-38, dated November 8, 1977.
- (2) Bechtel's QA site audits of construction, field engineering and QC: No. 14-1-3, dated April 27-30, 1976; No. 14-1-4, dated November 14-15, 1976; and 14-1-5, dated May 9-31, 1977.

The scope of the audits were commensurate with the activities; reference standards were indicated; corrective action was taken on adverse findings; re-audits were performed; and the audits were performed within the intent of the scope.

Bechtel Power Corporation has recently adopted a Monitoring Program which replaces many of the audit functions. The QA Quality Monitor Schedule for the first quarter of 1978 includes monitoring of receipt and storage activities.

No items of noncompliance were identified.

- d. The RIII inspector reviewed the following installation records for 4160 volt switchgear Units No. 1A05, No. 1A06, No. 2A05, and No. 2A06:
- (1) QC Inspection Record, QCIR, No. C304-288W which identified the welds made and inspected; the weld procedure No. PI-A-Lh, Revision 0; the welder, No. E-20; and the weld examiner.
 - (2) The Welder Qualification Maintenance Record for welder E-20, indicated compliance with Specification 7220-G-27, Welding Standard WQ-1, Revision 7, Paragraph 8.1.1 which specified a three month qualification limit.
 - (3) The weld examiner's Personnel Qualification Record dated March 17, 1977, which indicated qualification as a Level II examiner.
 - (4) QCIR No. E6.0-5, Revisions 0 and 1; No. E6.0-6, Revisions 0 and 1; No. E6.0-7, Revisions 0 and 1; and No. E6.0-8, Revisions 0 and 1 as required by Quality Control Instruction No. E-6.0, Revision 3.

No items of noncompliance were identified.

2. Observation of Work Activities

- a. The RIII inspector observed the storage of the following electrical equipment:
- (1) switchgear units No. 1A05, No. 1A06, No. 2A05, and No. 2A06.

- (2) load centers No. 1B18 and No. 2B18.
 - (3) motor control centers No. 1B44, No. 1B55, No. 2B43, and No. 2B24.
 - (4) various circuit breakers.
- b. The housekeeping activities of the Units 1 and 2 auxiliary buildings and the electrical components warehouse were in accordance with Consumers Power Quality Assurance Program Policy No. 13 Revision 4, and ANSI N45.2.3 Section 3.2.1 (cleanness), 3.2.2 (Environment), and 3.3 Materials and Equipment.

No items of noncompliance were identified.

Exit Interview

The inspector met with staff representatives (denoted under persons contacted) at the conclusion of the inspection of February 10, 1978. The inspector summarized the scope and findings of the inspection. The licensee acknowledged the findings as reported.