

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Reports No. 50-329/82-20(OSC); 50-330/82-20(OSC)

Docket Nos. 50-329; 50-330

Licenses 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: August 20 through September 20, 1982

Inspectors: B. L. Burgess *W. Shafer for* 10-6-82
R. J. Cook *W. Shafer for* 10-6-82
R. N. Gardner *R. N. Gardner* 10-4-82
R. B. Landsman *Rox B Landsman* 10-4-82
Approved By: W. D. Shafer, Chief 10-6-82
Midland Section
W.D. Shafer

Inspection Summary

Inspection on August 20 through September 20, 1982 (Reports No. 50-329/82-20(OSC); 50-330/82-20(OSC))

Areas Inspected: Review of Remedial Soils work activities, review of training program for Remedial Soils activities, inspection of materials used by Zack Company, and review of protective tagging procedure. The inspection involved 113 inspector-hours onsite by four NRC inspectors and 14 inspector-hours of inoffice direct inspection effort.

Results: No items of noncompliance or deviations were identified during this inspection.

DETAILS

Persons Contacted

Consumers Power Company

J. A. Mooney, Executive Manager
B. W. Marguglio, QA Director
D. Miller, Site Manager
W. R. Bird, MPQAD
M. L. Curland, Site QA Superintendent
J. P. Foley, MPQAD
L. P. Kettren, MPQAD
J. K. Meisenheimer, MPQAD
B. H. Peck, Construction Superintendent
R. M. Wheeler, Technical Section Head

Bechtel Power Corporation

L. E. Davis, Site Manager
J. W. Darby, Resident Engineer
M. A. Dietrich, PQAE/MPQAD

Other licensee and contractor personnel were routinely contacted during the course of these inspections.

Functional or Program Areas Inspected

1. Review of Training Program for Remedial Soils Activities

The inspectors reviewed the training program initiated by the licensee for personnel involved in the future Remedial Soils activities. Remedial Soils training is primarily obtained through attendance of a special Quality Assurance (QA) Indoctrination Session and during construction of a mock-up test pit. In addition, both Mergentine and Spencer, White and Prentis (SW&P) personnel require specific procedure training prior to initiating any quality related construction activities. The licensee has indicated that a new Quality Improvement Plan (QIP) will be initiated within 4-6 weeks.

The inspectors reviewed the records and logs to determine which personnel had attended the special QA Indoctrination Session. The licensee's records and logs documenting the attendance at these sessions were inadequate resulting in the licensee having difficulty in determining which personnel had attended and which personnel needed to attend these sessions. Further, the inspector determined that the Mergentine and SW&P training in specific procedures was documented only for superintendents, field engineers, etc. Except for two procedures, there was no documented training provided for craft foremen or craft workmen.

The Resident Inspector and another Midland Team Inspector examined a prototype pit resembling the pit and lagging considerations needed for the construction of Pier 12 for the actual underpinning work. The prototype pier is being constructed in the parking area by the main gate and was examined as a portion of the NRC review of training for individuals involved in the underpinning work. Construction of the prototype pier has revealed the need for some modifications in soil supporting techniques used at the base of the excavation.

In addition, the inspector determined that the licensee has not, as yet, provided training for the remedial soils emergency procedures such as C-200 and OP-41. During the exit meeting on September 15, 1982, the inspector informed the licensee that the training program, to date, was not well documented and in some instances, such as training in emergency procedures and training for craft foremen and craft workmen in work procedures, was not complete. The inspector informed the licensee that, prior to initiating future remedial soil work activities, these training program deficiencies would have to be corrected. In addition, the licensee would have to ensure that all deficiencies identified during mockup test pit activities were adequately addressed in their program. This matter is considered an open item (50-329/82-20-01; 50-330/82-20-01).

2. Remedial Soils Work Activities

The inspectors reviewed and authorized the following work activities during the report period:

- a. Calibration of jacks and gauges for the FIVP modification work.
- b. Rebar mapping of the existing BWST foundation.
- c. Stripping of waterproof membrane from BWST valve pit walls.
- d. Installation of the permanent security fence.
- e. Placing armor stone on the N.E. cooling pond dike.
- f. Installation of dewatering wells and piezometers for SWPS dewatering.
- g. Installation of utilities in non-Q soil for the technical support center.
- h. Backfill of two abandoned temporary dewatering ejector holes.
- i. Probing for shallow utilities around SWPS.
- j. Core drilling SWPS for temporary dewatering wells.
- k. Reinstalling piping, pipe hangers and electrical facilities for the BWSTs.
- l. Hydro testing of new service water pipe after replacement.
- m. Relocating fire line by SWPS.

No items of noncompliance or deviations were identified.

3. Midland Section

The Office of Special Cases was formed in July 1982 to address the significant inspection activities at the Midland and Zimmer construction sites. Mr. R. F. Warnick is Acting Director of this office. The Midland Section consists of W. D. Shafer, Section Chief, R. N. Gardner and Dr. R. B. Landsman from the Regional Office, and R. J. Cook, who remains the Senior Resident Inspector. Mr. B. L. Burgess has been assigned as the Resident Inspector effective August 29, 1982.

4. Zack Material Inspection

During the month of August, the Zack Company issued a potential 10 CFR Part 21 to the Region III office (Letter to Region III from the Zack Company, dated August 2, 1982). The Part 21 addressed a possible discrepancy between the welder of record and the welder who may have performed the actual welds. In response to the Part 21, Region III requested an inspection to determine if material manufactured by the Zack Company in Cicero, Illinois was received onsite during the inspection period.

The Resident Inspectors conducted a random sampling of Zack HVAC material from various storage locations onsite. The inspectors traced traveler reference numbers painted on the individual pieces to traveler documentation. Of the 20 pieces identified, 5 were determined to be manufactured by the Zack facility in Cicero, Illinois. The inspector reviewed shipment documentation and receipt inspection reports to confirm material traceability.

5. Workman's Protective Tags

The inspector reviewed Midland Plant Procedure 1042.1, Revision 3, titled "Workman's Protective Tagging." The review was conducted by the resident inspector to ascertain the effectiveness of the plant tagging procedure. In addition, the inspector reviewed the Switching and Tagging Log and the Workman's Protective Tag Log. No major discrepancies were identified. One item was identified during the review pertaining to the licensee's corrective action system. The inspector was unable to determine if items identified as nonconforming during preoperational testing by the operations department were transferred to the corrective action tracking system of the production and testing groups. This item will be reviewed during a future inspection and is considered an open item. (50-329/82-20-02; 50-330/82-20-02)

No items of noncompliance were identified.

6. Extension of SALP III Reporting Period

Consumers Power Company corporate management was informed that the SALP III period would be extended from the original period termination date of June 30, 1982 to December 31, 1982. The decision to extend the period was based on allowing the licensee time to implement those comments from the SALP II period which might help improve the licensee performance in those areas classified as Category III for the period ending June 30, 1981.

7. Radiation Monitoring System Equipment - Inferior Workmanship - 50.55(e) Item

During the reporting period, the licensee performed an inspection in conjunction with the Bechtel Power Corporation of Victoreen Inc., the manufacturers for the radiation monitoring equipment. This joint inspection found that at least 80% of the 820 electronic modules examined would require rework to make them usable. This inspection also revealed

that 12 of the 19 QA program criteria had not been adhered to and that use of the workmanship standard had been deleted without approval of the licensee.

The modules examined had not been completely inspected and/or functionally tested. However, the poor workmanship being used in the manufacture of the modules puts the reliability of the modules in jeopardy.

The licensee has invoked hold shipment restrictions on items slated for the Midland Site and stopped further processes for inspection and testing activities. Manufacture of the modules had not been stopped at the end of this reporting period.

8. Modified Auxiliary Feedwater Header

During the reporting period, the licensee has continued to modify the steam generators to accommodate an external feedwater header. The holes for the Unit 2 steam generators have been sized with the exception of two holes in one steam generator and one hole in the other steam generator. Work has recently commenced for sizing the holes for the Unit 1 steam generators. All 1/2 inch diameter pilot holes have been located and drilled.

Progress on the modifications for the steam generators has been monitored by a Regional Based inspector and the Resident Inspector, including observation of work performed on the mock-up located onsite.

9. Open Items

Open items are matters, not otherwise categorized in the report, that require followup during a future inspection. Open items identified during this inspection are discussed in Section 1 and 5.

10. Exit Interview

The inspectors met with licensee representatives at the conclusion of the inspections on September 15, 17 and 21, 1982. The inspectors summarized the scope and findings of the inspection. The licensee acknowledged the information.