U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-329/83-02(DRMS); 50-330/83-02(DRMS)

Docket Nos. 50-329; 50-330 Licens& Nos. CPPR-81; CPPR-82

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

Facility Name: Midland Nuclear Plant

Inspection At: Midland Nuclear Plant Site, Midland, MI

Inspection Conducted: February 16-18, 1983

WB Grant

Inspector: W. B. Grant 3/3/83

LR Greger

Approved By: L. R. Greger, Chief 3/3/83
Facilities Radiation
Protection Section

Inspection Summary

Inspection on February 16-18, 1983 (Reports No. 50-329/83-02(DRMS); 50-330/83-02(DRMS)
Areas Inspected: A meeting was held to discuss the preoperational and routine operational inspection program in the radiation protection and radwaste management areas. Also, the inspector performed an initial review of the licensee's radiation protection program and facilities. The inspection involved 20 inspector-hours onsite by one NRC inspector.
Results: No violations of NRC requirements were identified.

DETAILS

1. Persons Contacted

*W. Beckman, Superintendent, Chemistry/Health Physics (CHP)
L. Kenaga, Senior Health Physicist
E. Oswood, Radiation Safety Supervisor
M. Rice, Staff Engineer, CPCo
G. Slade, Plant Manager
C. Stret[illegible], Staff Chemist
W. Strodl, Plant Health Physicist
K. Sugar, CHP Technician
J. Wilson, ALARA Coordinator

*Denotes those present at the management meeting.

2. Initial Management Meeting

This management meeting, which began at 11:00 a.m. on February 16, 1983, was conducted to discuss with the licensee the following matters:

a. The NRC function and inspection program in the radiation protection and radwaste management areas, including the performance of unannounced inspections, methods of taking enforcement actions, and the conduct of management interviews.

b. The need for an effective in-plant audit and management control programs.

c. The preoperational testing program for radwaste systems and monitors, and the inspector's function in reviewing the program.

d. The radiation protection program, and areas which will be reviewed by the inspector before issuance of an operating license.

e. The licensee's radiation protection organization.

3. Radiation Protection Organization

The Chemistry/Health Physics Department for Units 1 and 2 is headed by the Chemistry/Health Physics (CHP) Superintendent. He directly supervises a Plant Health Physicist (HP), a Senior Health Physicist (HP), a Senior Chemist, a Chemical Engineer, two Emergency Plan Coordinators, and a Department Coordinator. (See the attached organization chart). The Plant HP supervises three Radiation Protection Supervisors and one ALARA Coordinator. The Radiation Protection Supervisors supervise a total of approximately 25 CHP technicians. The Senior HP supervises the Radioactive Materials Control Supervisor, and the Environmental Supervisor. Each of these supervisors, in turn, supervise 4 CHP technicians. This organization is consistent with the FSAR in numbers and qualifications.

4. Chemistry/Health Physics (CHP) Technician Training

The inspector briefly reviewed the licensee's CHP technician training program. Currently, all CHP technicians are required to have the following training courses:

- General Radiation Safety Indoctrination, 2-4 hours
- Basic Radiation Worker Training, 8-10 hours
- Basic Radiation Safety Technician Training 30-40 hours
- Advanced Radiation Safety Technician Training, 3 weeks

Approximately 50% of the CHP technicians have completed the training and the remainder will complete it prior to the end of CY 1983.

In addition, CHP technicians get hands-on experience in rad protection at the Company's two operating nuclear reactors during refueling outages. Various sections of this training can be waived by the CHP Superintendent because of the technicians' previous experience or training. The training program appears consistent with the FSAR. No problems were noted.

5. Facilities

The inspector toured selected areas of Units 1 and 2 related to radiation protection and radwaste including: decontamination areas, hot maintenance areas, access control, personnel locker rooms, and the radwaste building. The facilities appeared to be laid out as described in the FSAR, and some of the equipment described in the FSAR has been installed.

No problems were noted.

6. Manufacturing Deficiencies - Victoreen Inc.

The inspector reviewed of the status of deficiencies in Victoreen, Inc's. radiation detection equipment at Midland reported to Region III by the licensee on September 17, 1982.[1] The licensee reported that a September 1982 inspection of Victoreen radiation detection equipment at Midland found approximately 80 percent of the 820 electronic modules with workmanship defects. The defects were measured against workmanship standards established by Victoreen, Inc. According to the licensee, Victoreen has agreed to replace all defective modules in the 1-E (safety related) components. The replaced modules will be kept as spares for the nonsafety related modules.

On November 1-5, 1982, at the request of Region III, Vendor Program Branch, Region IV, conducted an inspection of Victoreen, Inc. The

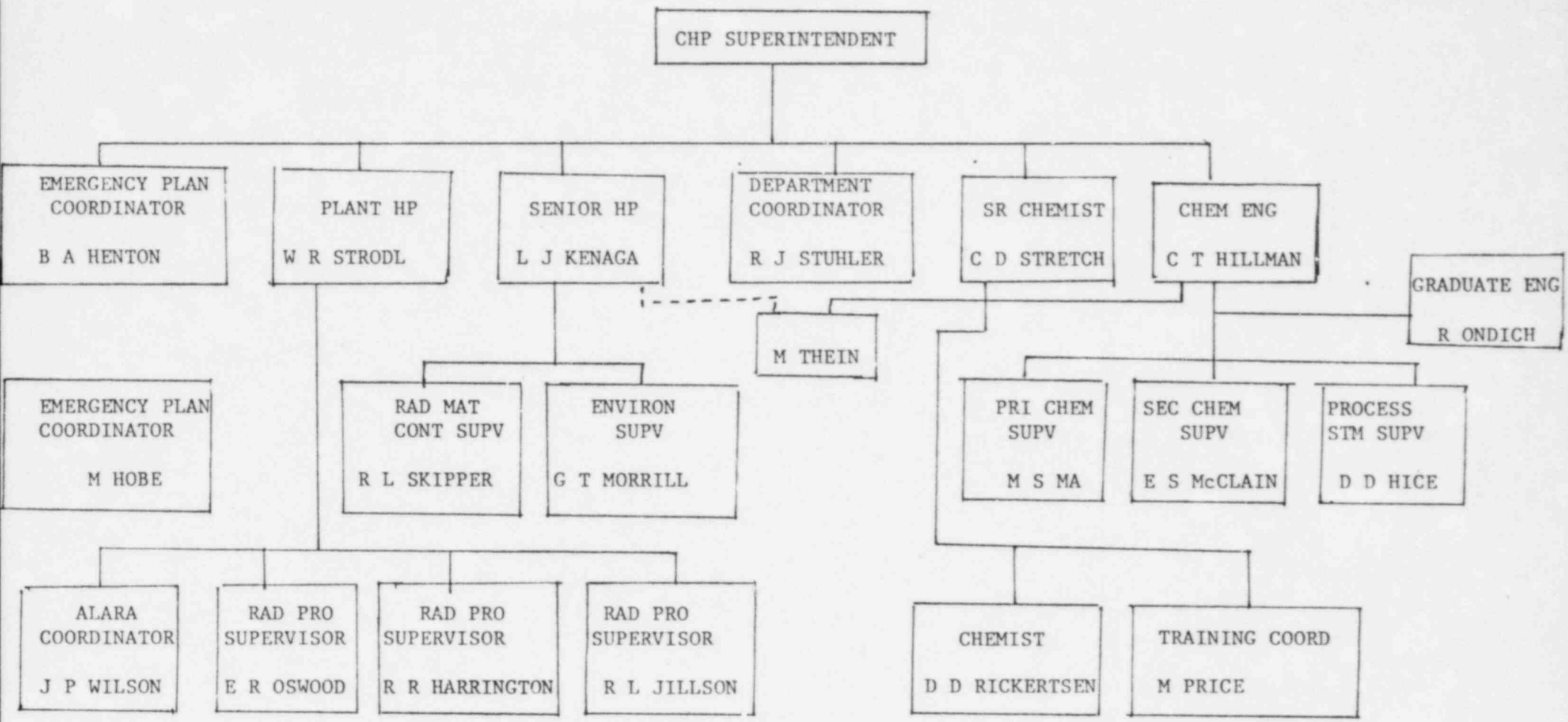
[1] Itr J. W. Cook, CPCo, to J. G. Keppler dated October 15, 1982

licensee was notified of two items of noncompliance regarding Part 21 violations on January 19, 1983. One of these violations required them to perform an evaluation of known workmanship defects to assure compliance with 10 CFR 21.51(b). Victoreen's response dated February 15, 1983, concluded that the workmanship defects were not reportable under Part 21. Victoreen's corrective actions included revising the "Workmanship Standards" to reflect current technology which would make "defects" similar to those identified in the radiation detection modules acceptable in the future. Region IV did not recommend notifying other purchasers of Victoreen equipment of these discrepancies.

7. Exit Meeting

Since Messrs. Slade and Beckman were unavailable at the conclusion of the inspection on February 18, 1983, the inspection results were discussed with Mr. Kenaga. The inspector discussed the scope and findings of the inspection with Mr. G. Slade, by telephone, on February 25, 1983.

Attachment: Midland Organizational Chart



ORGANIZATIONAL CHART