

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Reports No. 50-440/82-13(DEPOS); 50-441/82-12(DEPOS)

Docket No. 50-440; 50-441

License No. CPPR-148; CPPR-149

Licensee: Cleveland Electric Illuminating Company
Post Office Box 5000
Cleveland, OH 44101

Facility Name: Perry Nuclear Power Plant, Units 1 and 2

Inspection At: Perry Site, Lake County, OH

Inspection Conducted: October 12-13, 1982

M. J. Oestmann
Inspector: M. J. Oestmann

10/26/82

M. C. Schumacher
Approved By: M. C. Schumacher, Chief
Independent Measurements and
Environmental Protection Section

10/26/82

Inspection Summary

Inspection on October 12-13, 1982 (Reports No. 50-440/82-13(DEPOS);
50-441/82-12(DEPOS))

Areas Inspected: Routine announced safety inspection of environmental protection and environmental monitoring for Units 1 and 2, including management controls; environmental program implementation and results; placement of NRC thermoluminescent dosimeters with assistance from licensee personnel; tour of site construction and laboratory facilities; and review of previous inspection items. The inspection involved 13 inspector-hours onsite by one NRC inspector.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

- *J. Bellack, General Supervising Engineer, Nuclear Design and Analysis Section (NDAS), Nuclear Engineering Department (NED)
- *S. J. Wojton, Senior Engineer, NDAS, NED
- *R. Zucher, Associate Engineer, NDAS, NED
- *J. Webb, Associate Engineer, NDAS, NED
- J. Krylow, Engineering Technician, NDAS, NED
- E. Nyerges, Junior Licensing Engineer, Licensing and Fuel Section, NED
- K. White, Civil Engineer, NED

*Denotes those present at the exit interview.

The inspector interviewed several other licensee personnel, including construction, operations, chemical, and security personnel during the course of this inspection.

2. Licensee Action on Previous Inspection Findings

- a. (Open) Open Item (50-440/80-14-01; 50-441/80-13-01): Licensee to install loudspeakers to warn boaters in case of an accident at the plant. The licensee has obtained equipment for a paging system which will be installed on the cooling towers and microwave tower by Spring 1983. This item will remain open, pending installation and operation of this equipment.
- b. (Open) Open Item (50-440/80-14-02; 50-441/80-13-02): Barge slip area disorderly, requiring cleanup. During a tour of the site during this inspection, the inspector observed the same condition as noted previously. The licensee agreed that the area needed cleanup and will do so within the next several weeks. This item will remain open pending cleanup of the area.
- c. (Open) Open Item (50-440/80-14-03; 50-441/80-13-03): Shoreline erosion with part of the parking lot collapsed. During a tour of the site during this inspection, the inspector observed extensive damage from shoreline erosion along most of the licensee's frontage on Lake Erie. The parking area is no longer used as such. During this inspection a licensee representative reported that a Corps of Engineer's permit is to be issued to the licensee within the next month to allow a placement of sheet piling and riprap along 1100 feet of the shoreline, starting in Spring of 1983. This item will be examined in a future inspection.
- d. (Closed) Deviation (50-440/80-14-04; 50-441/80-13-04): Failure to conduct a noise survey. During this inspection, the inspector examined noise survey records for CY 1980, 1981, and 1982 to date of this inspection and found the licensee had met his commitment to conduct the surveys semiannually.

- e. (Closed) Open Item (50-440/80-14-05; 50-441/80-13-05): Reclamation of areas used for foraging habitat by raptors (birds of prey). The licensee has completed his raptor monitoring program in 1981 and has issued a 1981 annual report describing the results. The 1981 data indicate population recovery for breeding raptors compared to previous years where a decline in population occurred. None of the raptor species is listed as being threatened or endangered by State or Federal wildlife agencies. In addition the major outside construction activities have ceased and no further loss of habitat should occur. In December 1981, the NRC Office of Nuclear Reactor Regulation concluded that the monitoring program should be terminated. This item is therefore considered closed.

3. Environmental Program Management

Management control for the environmental protection program is under the Vice-President Engineering. The environmental programs are implemented under the supervision of the Senior Engineer of the Nuclear Design Section of the Nuclear Engineering Department. The Environmental Monitor, who is under the Senior Engineer, has the responsibility to conduct the weekly inspections of the site to verify compliance with environmental requirements in the construction permits, the licensee's Environmental Reports (ER) and the NRC's Final Environmental Statements (FES). He is also responsible to collect radiological environmental monitoring program (REMP) samples and to ship them for analysis to Nuclear Utility Services Corporation, Inc. (NUS), the licensee's contractor for REMP.

No items of noncompliance or deviations were identified.

4. Implementation of Environmental Programs

a. Placement of NRC Thermoluminescent Dosimeters (TLDs)

On October 13, 1982, the inspector, with assistance of licensee personnel, placed 27 TLD's to monitor gross gamma radiation in an inner and outer ring network around the plant site in accordance with NRC guidelines. The State of Ohio Department of Public Health under contract with the NRC has agreed to exchange the TLD's on a quarterly schedule. The licensee also has placed about the same number of TLDs around the site. During a tour of the area, the inspector observed several of the licensee's TLD's and noted no problems.

b. Radiological Environmental Monitoring Program (REMP)

The inspector reviewed the licensee's two-year preoperational REMP which was initiated in March 1981. This included review of the results of analysis of shoreline sediments and fish as described in the first annual report published by NUS, the licensee's contractor. Background data were reported. The inspector also examined data sheets used with air samplers which have recently been installed and placed in the field. During a tour of the air sampling stations, the inspector observed the exchange of particulate filters and

charcoal adsorbers by the Environmental Monitor. No problems were identified. The air samplers had current calibration stickers. The samplers are calibrated every six months. The inspector also observed a composite water sampler at the discharge.

The inspector also reviewed several REMP sampling procedures prepared by the licensee and NUS. They concerned exchange of TLDs, collection of air particulate and air iodine, milk, food crop silage, and water samples, maintenance and calibration of the licensee's air samplers. The procedures were current, having been prepared and approved by management in 1982. No problems were identified.

c. Nonradiological Environmental Monitoring Program

In 1982, the licensee received approval from NRR to delete several nonradiological environmental programs required by the construction permit. They included relief from Lake Erie water quality and benthic macroinvertebrate monitoring programs, the raptor monitoring program and change in scope of the crane-fly orchid surveillance program. The aquatic monitoring program has been deferred to the State of Ohio under the NPDES permit the State issued to the licensee. For the raptor program five years of data (1976-1980) collected on this monitoring program have shown a general decline in the total population of raptors on site probably reflecting loss of foraging habitat due to construction activities. However, as stated in Section 2e, the data for 1981 indicate a year of recovery for breeding raptors. The inspector also reviewed the NUS, 1981 annual report on terrestrial monitoring that included the raptor, vegetation, crane-fly orchid and spotted turtle monitoring programs. Any environmental impacts made have already occurred from construction activities. No apparent adverse impact of plant construction on the orchid populations however was identified. Since the period of major construction has passed, no additional impacts are expected.

No items of noncompliance or deviations were identified.

5. Site and Plant Tour

The inspector toured the site to verify compliance with the construction permit, the ER and FES requirements. The inspector observed the following for compliance with requirements.

- a. Dust control by sprinkling
- b. Erosion control along transmission right of ways
- c. Screening of transmission line structures by woodlands and topography
- d. Intake - discharge structures
- e. Cooling tower construction
- f. Sewage treatment plant and industrial waste lagoons
- g. Concrete batch plant
- h. Major Stream, Northwest and Mid Stream Control Dams.

Construction work continues for containment, auxiliary and turbine buildings and other safety related buildings onsite. Work on construction of the second cooling tower has been reinstated. A licensee representative reported that the sewage treatment plant is no longer used since it does not have sufficient capacity for the number of workers at the site. The licensee now utilizes the public sewage system to dispose of sewage. The licensee is cleaning up areas where construction activities have ceased and disposing of debris by commercial means. Some of the areas are being seeded and landscaped.

The inspector also toured the chemical laboratories which are presently being built. Laboratory equipment has been ordered and some has been shipped but not yet set up. This will be examined under the confirmatory measurements program.

No items of noncompliance or deviations were identified.

6. Exit Interview

The inspector met with licensee representatives (denoted in Section 1) at the conclusion of the inspection on October 12, 1982. The inspector discussed the scope and findings of the inspection. The licensee agreed to resolve the open items identified in a previous inspection prior to the fuel load data.