

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

REGION III

Report No. 50-266/79-18; 50-301/79-19

Docket No. 50-266; 50-301

License No. DPR-24; DPR-27

Licensee: Wisconsin Electric Power Company
231 West Michigan Avenue
Milwaukee, WI 53201

Facility Name: Point Beach Nuclear Power Plant, Units 1 and 2

Inspection At: Point Beach Site, Two Creeks, WI

Inspection Conducted: November 26-30, 1979

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

1/7/80

Approved By: *T. H. Essig*
T. H. Essig, Chief
Environmental and Special
Projects Section

1/8/80

Inspection Summary:

Inspection on November 26-30, 1979 (Report No. 50-266/79-18; 50-301/79-19)

Areas Inspected: Routine, announced inspection of confirmatory measurements, environmental protection, and emergency planning for both units, including licensee programs for quality control of analytical measurements; submission of spiked air particulate and charcoal adsorber for future comparison; quality control of environmental measurements; implementation of environmental protection program; coordination with offsite support agencies; maintenance of emergency equipment, facilities, and supplies; medical arrangements; training; emergency procedures; conduct of tests and drills. The inspection involved 33 inspector-hours on site by one NRC inspector.

Results: Of the 15 areas inspected, no apparent items of noncompliance or deviations were identified in 14 areas; an apparent item of noncompliance (infraction: failure to analyze shoreline silt sample #5 for the second half of 1978 (Paragraph 2)) was identified in one area.

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DETAILS

1. Persons Contacted

Licensee Personnel

- *G. Reed, Manager, Nuclear Power Division (PBNP)
- J. Greenwood, Assistant to the Manager (PBNP)
- *C. Harris, Radio Chemical Engineer (PBNP)
- *R. Weedon, Health Physicist (PBNP)
- *F. Zeman, Office Supervisor (PBNP)
- T. Slack, Laboratory Supervisor (PBNP)
- P. Skrimstad, Laboratory Technician (PBNP)

The inspector also interviewed several other licensee employees during the course of this inspection, including health physicists, chemical technicians, members of the security force and general office personnel.

*Denotes those present at the exit interview.

Offsite Support Agency Personnel

- G. Adams, BMC Enlisted Commanding Officer, U.S. Coast Guard Station, Two Rivers, WI
- D. Wangen, Engineer, U.S. Coast Guard Station, Two Rivers, WI
- S. Weld, M.D., Doctors Clinic, Two Rivers, WI
- D. Loeser, R.N., Director, Nursing Services, Doctors Clinic, Two Rivers, WI
- C. Glaser, Chief, Two Creeks Fire Department, Two Creeks, WI
- R. Waskow, Chief, Two Rivers Fire Department, Two Creeks, WI
- E. Jascewsky, Engineer, Safety Division, Chicago Operations Office, U.S. Department of Energy
- T. Kocouret, Sheriff, Manitowoc County, WI
- L. Rudebeck, Personnel Manager, Two Rivers Community Hospital, Two Rivers, WI
- Y. Henrickson, R.N., Two Rivers Community Hospital, Two Rivers, WI

2. Licensee Action on Previous Inspection Findings

- a. (Closed) Deviation (50-266/78-23 and 50-301/78-24): Failure to maintain up-to-date and accurate emergency call list in the Two Rivers Community Hospital's copy of the licensee's emergency plan. The licensee's corrective action was to provide for the updated

list in this emergency plan copy. On November 28, 1979, the inspector examined the hospital's copy and confirmed that the updated call list was present. The inspector has no further questions regarding this matter.

- b. (Closed) Unresolved Item (50-266/79-15 and 50-301/79-17): Failure to conduct an analysis for gross beta activity and gamma scanning of the shoreline silt sample #5 for the second half of 1978. The licensee reviewed his records and found no analytical results were available of this particular sample. The sample, however, was collected in October 1978 and shipped to the licensee's analytical contractor for analysis. Failure to conduct the above analyses represents noncompliance with Technical Specification 15.4.10.1. The licensee's corrective action is to maintain and improve management control over the licensee's contractor to assure required analyses are performed.

3. General

This inspection consisted of an examination of the licensee's quality control in the confirmatory measurements, nonradiological environmental monitoring program, and environmental effluent limits, and emergency planning activities. The confirmatory measurements inspection included completion of the review of the quality assurance and quality control of analytical measurements discussed in the previous inspection.^{1/} A spiked particulate filter and charcoal adsorber were also provided the licensee for analysis.

The environmental protection inspection included a review of the licensee's nonradiological effluent and environmental monitoring program, including sampling equipment and program results. Management controls, including organizational structure, assignment of responsibility and authority, and quality assurance audits, were reviewed. The emergency planning portion of the inspection involved examination of coordination with offsite support agencies, facilities, equipment, and supplies, medical arrangements, training, emergency plan and procedures, and emergency tests and drill exercises.

4. Licensee Internal Audits

The inspector examined licensee review and audit activities in the area of emergency planning, chemistry and radiochemistry, and environmental monitoring. Audit reports and meeting minutes of the Offsite Review Committee (OSRC) for 1978 to date of this inspection were reviewed. Items which the licensee identified for corrective action included the continuing problem of the intake crib freezing and updating of the emergency plan call list. The inspector determined that corrective action had been accomplished or instituted for these items. The inspector inquired as to the review and audit frequency and content of environmental monitoring and chemistry and radiochemistry programs to be conducted by OSRC in accordance with technical specification conditions.

^{1/} IE Inspection Report Nos. 50-266/79-15; 50-301/79-17.

The licensee agreed to discuss these matters at the next meeting of the OSRC. This item will be examined during a subsequent inspection.

5. Continuation of Confirmatory Measurement Inspection

a. Licensee Program for Quality Assurance and Quality Control of Analytical Measurements

The inspector completed the review of licensee procedures, logs, check sheets, and records relating to nonradiological and radiological analytical measurements which was started during a previous inspection.^{2/} The inspector determined that the analytical equipment in the laboratory and the gamma spectrometer and other counting equipment had been adequately calibrated on the prescribed frequency established in the licensee's procedures. The licensee utilizes radioactive sources traceable to the National Bureau of Standards for calibration of the counting equipment and spectrometer. No technical weaknesses were identified during the examination of the records and tour of the analytical laboratory.

b. Spiked Samples

The inspector provided the licensee with a spiked air particulate filter and charcoal adsorber for analysis. The licensee results of the analytical measurements inspection will be compared with the known values reported in a future confirmatory measurement.

No apparent items of noncompliance or deviations were identified.

6. Management Controls

The licensee administrative and procedural controls for implementation of the nonradiological effluent and environmental monitoring program were reviewed. Plant personnel conduct the nonradiological effluent measurement program. The responsibility of conduct of the nonradiological ecological monitoring program, including data evaluation and report preparation, lies with the Corporate Nuclear Project Office. The licensee's PBNP Environmental Manual serves to define and delineate the responsibilities of the conduct of the environmental program. The inspector reviewed this document, which includes procedures for sampling and measurement of nonradiological and radiological samples. Audit responsibilities for technical review and evaluation of data are also assigned in this manual. No audit reports were available at the plant during this inspection. This item will be examined during a subsequent inspection.

7. Quality Control of Analytical Measurements

The licensee's PBNP Environmental Manual describes the QA/QC program used in the licensee's environmental program. The inspector reviewed records for CY-1978 and 1979 to the date of this inspection of quality

^{2/} Ibid

control checks of the nonradiological effluent environmental program. These included temperature instrumentation and recorder calibration controls. No problems were identified.

During a tour of the plant, the inspector observed a number of liquid effluent monitors such as pH and conductivity meters which were found to be functional and calibrated currently. Selected checkoff sheets for daily and monthly liquid effluent measurements for CY-1978 and 1979 to the date of this inspection were also reviewed to assure management review of results occurred.

Calibration records for air sampling equipment used in the radiological environmental monitoring program for calendar year 1978 and 1979 to date of this inspection were reviewed. The air samplers are periodically calibrated and checked for proper operation. No technical weaknesses were identified.

No apparent items of noncompliance or deviations were identified.

8. Implementation of the Nonradiological Environmental Monitoring Program

The licensee's five-year nonradiological environmental surveillance program was completed during October 1977. On November 4, 1977, the licensee obtained an amendment to Technical Specification 16.2 to allow temporary suspension of the nonradiological environmental monitoring program, pending an assessment of the program. In July 1978, the licensee submitted a summary report for this program to the Office of Nuclear Reactor Regulation (NRR) for evaluation and review. The program included physical studies, water chemistry, bacteriology, phytoplankton, periphyton, zooplankton, benthic macro-invertebrates, and fisheries. The study concluded that very few effects of plant operation on the physical, chemical and biological environments were revealed.

The NRR is preparing an environment impact assessment of the study which is to be issued in the first quarter of 1980. This item will be examined during a future inspection.

No apparent items of noncompliance or deviations were identified.

9. Nonradiological Effluent Releases

The inspector examined the licensee's records and semiannual reports for thermal and chemical discharges and fish impingement for calendar year 1978 and 1979 to date of this inspection.

a. Chemical Effluents

The chemical effluent records and reports indicated that all chemicals from the waste neutralizing tank, sewerage treatment plant, and retention pond were within the Technical Specification limits. The inspector found no instances of unmonitored releases. No chlorine discharges have been made from the

plant since June, 1977 when the plant chlorinator unit was removed from service.

b. Thermal Effluents

During the review of licensee thermal effluent records, the inspector found no instances where Technical Specification limits for condenser cooling water discharge temperature, differential temperature or rate of change in temperature were exceeded during normal plant operation. The inspector also determined that during periods of winter in 1978 and 1979, there were several occasions where the circulating water outlet temperature exceeded 89°F., the Technical Specification temperature limit for normal plant operation. However, in those cases examined, the plant was being operated in the ice melt mode. This mode of operation to prevent ice buildup of the intake crib does not constitute normal plant operation as defined in Technical Specification 16.2. Examination of the temperature data in the semiannual reports for 1978 also indicated no apparent problems.

c. Fish Impingement Monitoring

The inspector examined the licensee's fish impingement monitoring records for CY 1978 and 1979 to date of this inspection. No instances were found to indicate a significant fish kill in excess of twenty fish, a limit used by the licensee (with Region III concurrence), had occurred. The inspector also observed the collection of fish in the fish basket. The licensee representative identified the fish, and measured the length and weight of the fish. No problems were identified.

No apparent items of noncompliance or deviations were identified.

10. Licensee's Emergency Plan and Emergency Operating Procedures

The inspector discussed the emergency plan updating and review of emergency procedures with licensee personnel. The current revision (Revision 10, dated April 1979) was used as the basis for this inspection.

During a tour of the plant and visits to offsite support agencies, the inspector observed that each copy of the emergency plan contained this revision 10., including an updated emergency call list. At the time of this inspection, the licensee was in the process of preparing another updated call list.

The inspector reviewed the licensee emergency operating procedures and noted that the licensee had prepared procedure EOP-9D, Revision 2, dated November 8, 1979, entitled "Emergency Weather Conditions" in response to an item discussed in a previous inspection.^{3/} Review of this procedure indicated it to be adequate.

3/ IE Inspection Report Nos. 50-266/78-23; 50-301/78-24.

No apparent items of noncompliance or deviations were identified.

11. Coordination with Offsite Support Agencies

The inspector reviewed records, procedures, and written agreements for CY-1978 and 1979 to date relating to the licensee's coordination of emergency planning with eleven agencies and individuals listed in the Emergency Plan and procedures. The inspector discussed this subject with licensee representatives and individuals either in person, or by telephone, identified in Paragraph 1 from offsite support agencies. The inspector also reviewed ten letters of agreement the licensee had renewed with support agencies during 1979. These letters are presently being reviewed on an annual basis. These discussions verified that the existing agreements between the licensee and the offsite agencies remain in effect and that the licensee's contact and coordinations were adequate for these agencies to maintain an effective response capability.

No apparent items of noncompliance or deviations were identified.

12. Facilities, Equipment, and Supplies

During this inspection a selective inventory of the licensee's first aid room, and emergency supplies in the control room, the plant site boundary control center, and other selected areas of the plant were examined. The inspector also inspected the plant emergency vehicle. This examination verified that the items specified in the licensee's emergency plan and procedures were available for use and maintained in an operable state.

The inspector examined instruments to measure and record the magnitude of radioactive releases during a tour of the control room. This included meteorological instruments to measure wind speed and direction. Other decisional aids, such as maps for evacuation and isopleths for dose assessment, were also examined. All equipment was found operable, functioning properly and calibrated recently.

The inspector reviewed licensee inventory records of emergency supplies and equipment for calendar year 1978 and 1979 to date of this inspection. In addition, calibration records of emergency equipment and tests of respiratory equipment were also reviewed.

No apparent items of noncompliance or deviations were identified.

13. Medical Arrangements

The inspector reviewed records, procedures, and written agreements with the Two Rivers Community Hospital and the Doctors Clinic for CY-1978 and 1979 to date. The inspector examined the special emergency hospital room reserved for licensee personnel. The inspector took an inventory of equipment and supplies maintained by the licensee. No items were missing.

The inspector also examined the emergency vehicles maintained by the Two Rivers Fire Department. These can be used as backup to the licensee's emergency vehicle.

No apparent items of noncompliance or deviations were identified.

14. Training

The inspector reviewed training related documentation and procedures for CY-1978 and 1979 to date to verify that training required by the emergency plan had been conducted. The licensee's training program for onsite personnel consists of orientation sessions for new personnel, including emergency planning activities, and first aid training for selected individuals. The licensee utilizes the American Red Cross multi media first aid program for their training program. The licensee also conducts discussions of emergency plan related matters at routine plant safety meetings.

The licensee also conducted annual training sessions for offsite personnel. During a discussion with the nurses at the hospital and the Doctors Clinic, the inspector found that the nurses would like to participate in an emergency drill involving a simulated contaminated injured person. Dr. Weld of the Doctors Clinic, also indicated that additional training of the hospital staff would be desirable. This item was discussed at the exit interview.

No apparent items of noncompliance or deviations were identified.

15. Emergency Drills

The inspector reviewed records of emergency drills and test exercises conducted since the previous emergency planning inspection. Drills were held twice a year. Evacuation drills were conducted in December 1978 and May 1979.^{4/} The drill in May 1979 was described in a previous inspection report.^{4/} These drills also included communication checks of offsite support agencies.

The inspector reviewed drill critiques prepared by the licensee and determined the licensee had corrected any problems identified in the drills.

No apparent items of noncompliance or deviations were identified.

16. Exit Interview

The inspector met with licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on November 30, 1979. The inspector discussed the scope and purpose of the inspection and the findings. With regard to the item of noncompliance related to the radiological environmental sample, the licensee said they would improve the control of analytical measurements of their contractor. The licensee also stated that when the Offsite Review Committee meets in December, the subject of audit frequency and content of the environmental protection, chemistry, and emergency planning activities would be discussed.

^{4/} IE Inspection Report Nos. 50-266/79-07; 50-301/79-09.