



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

MAY 09 1978

Docket No. 50-305/78-03

Wisconsin Public Service
Corporation
ATTN: Mr. E. W. James
Senior Vice President
Power Generation and
Engineering
Post Office Box 1200
Green Bay, WI 54305

Gentlemen:

This refers to the inspection conducted by Messrs. W. L. Axelson, B. L. Jorgensen and Dr. M. J. Oestmann of this office on April 10-13, 1978, of activities at the Kewaunee Nuclear Power Plant authorized by NRC Operating License No. DPR-43 and to the discussion of our findings with Mr. C. Luoma and others of your staff at the conclusion of the inspection.

The enclosed copy of our inspection report identifies areas examined during the inspection. Within these areas, the inspection consisted of a selective examination of procedures and representative records, observations, and interviews with personnel.

No items of noncompliance with NRC requirements were identified during the course of this inspection.

Based on discussions with Mr. Mainz of your staff, we understand that the 1977 Annual Environmental Operating Report will be corrected to include proper thermal monitoring data.

In accordance with Section 2.790 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed inspection report will be placed in the NRC's Public Document Room, except as follows. If this report contains information that you or your contractors believe to be proprietary, you must apply in writing to this office, within

Wisconsin Public Service
Corporation

- 2 -

MAY 09 1978

twenty days of your receipt of this letter, to withhold such information from public disclosure. The application must include a full statement of the reasons for which the information is considered proprietary, and should be prepared so that proprietary information identified in the application is contained in an enclosure to the application.

We will gladly discuss any questions you have concerning this inspection.

Sincerely,

A. B. Davis, Chief
Fuel Facility and Materials
Safety Branch

Enclosure: IE Inspection
Report No. 50-305/78-03

cc w/encl:

Mr. C. Luoma, Plant
Superintendent

/ Central Files
Reproduction Unit NRC 20b
PDR
Local PDR
NSIC
TIC

OFFICE	RIII	RIII	RIII	RIII	RIII	RIII
SURNAME	Axelsson/bk	Jorgensen	Oestmann	Essig	Davis	Choules
DATE	5/5/78				5/8/78	

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

REGION III

Report No. 50-305/78-03

Docket No. 50-305

License No. DPR-43

Licensee: Wisconsin Public Service Corporation
Post Office Box 1200
Green Bay, WI 54305

Facility Name: Kewaunee Nuclear Power Plant

Inspection At: Kewaunee Site, Kewaunee, WI

Inspection Conducted: April 10-13, 1978

Inspectors: *W. L. Axelson*
W. L. Axelson

5/5/78

T. H. Essig
for B. L. Jorgensen

5/5/78

T. H. Essig
for M. J. Oestmann

5/5/78

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

5/5/78

Inspection Summary

Inspection on April 10-13, 1978 (Report No. 50-305/78-03)

Areas Inspected: Routine, unannounced radiological and nonradiological environmental protection inspection including: management controls; program for quality control of analytical measurements; environmental program implementation; and a plant tour and confirmatory measurement sample collection. The inspection involved 58 inspector-hours onsite by three NRC inspectors.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

- *C. Luoma, Plant Superintendent
- *W. Trautman, Operations Superintendent
- *W. Winnowski, Chemistry Supervisor
- *G. Ruiter, Nuclear Engineer (CNES)
 - J. Richmond, Technical Supervisor
 - T. Moore, Administrative Assistant
 - G. Jarvela, Health Physics Supervisor
 - D. Berg, Quality Assurance Technician
 - D. Brown, SRO
 - R. Leemon, RO

*Denotes those present at the exit interview.

2. Licensee Action on Previous Inspection Findings

(Closed) Noncompliance (50-305/77-05): Exceeding 2.0 mg/l incremental increase of total solids in circulating water. The inspector determined that the licensee completed a design change which improved the Waste Neutralizer Tank (WNT) discharge to the circulating water. The licensee now discharges the WNT directly to one of two site lagoons for additional dilution prior to final discharge to the circulating water. Also, the licensee installed a WNT flow indicator to improve flow control during discharges.

The inspectors have no further questions concerning this matter at this time.

3. General

This environmental protection inspection consisted of an examination of the licensee's conduct of radiological and nonradiological environmental monitoring programs, and of compliance with nonradiological effluent release limits and monitoring conditions. Sampling techniques and procedures, sample collection equipment and locations, selected analytical techniques, and program documentation were reviewed. Management control aspects were discussed and the program for quality control of analytical measurements was examined. The licensee's technical specifications were used as the primary inspection criteria.

4. Management Controls

The licensee's administrative controls and surveillance procedures to assure compliance with technical specification were reviewed. The inspectors determined these procedures were properly reviewed by plant staff as required by technical specification.

The inspectors reviewed Audit Report No. 77-57 conducted by the corporate nuclear engineering staff. The audit consisted of a selective review of the environmental monitoring surveillance procedures. The report indicated the licensee had identified one item which required corrective action. The inspectors determined that corrective action had been accomplished on this item.

No items of noncompliance or deviations were identified.

5. Programs for Quality Control of Analytical Measurements

The inspectors reviewed records and procedures on the conduct of calibration and functional checks of laboratory equipment used in the chemical effluent monitoring program. The licensee has computerized this QC program to assure timely calibrations of laboratory equipment.

Quality control programs for the radiological monitoring program are conducted for the licensee by a contractor laboratory.

No items of noncompliance or deviations were identified.

6. Environmental Program Implementation

The results of the licensee's nonradiological effluent monitoring and radiological environmental monitoring program for calendar year 1977 were selectively examined.

a. Thermal Effluent Monitoring

Selective review of thermal monitoring records did not identify instances wherein limits or temperature change or rate of temperature change across the condenser were exceeded. No instances of failure to perform required monitoring were noted.

While reviewing the 1977 Annual Environmental Operating Report, the inspectors noted abnormally high effluent temperatures. Further investigation showed that these data were incorrect. The licensee agreed to correct and submit to the NRC these data.

This matter will be examined during a future inspection.

b. Chemical Effluent Monitoring

The inspectors reviewed records for calendar year 1977 of Waste Neutralizer Tank discharges, use of treatment chemicals, and miscellaneous discharges from other plant sources for compliance with technical specifications. No records of chlorination were examined because the licensee did not chlorinate for the entire year. With the exception of licensee-identified items discussed below, no instances of exceeded limits or omissions of required analyses were identified.

The inspectors reviewed licensee Environmental Technical Specification Reports (ETSR) 77-2, 77-3, 77-4. Each of these reports concerned failure to perform required monitoring. Licensee corrective actions as described in the referenced ETSR's were reviewed, and found to be adequate. The inspectors had no further questions concerning these items.

c. Fish Impingement Monitoring

The inspectors reviewed fish impingement and trash basket inspection records for calendar year 1977 and noted that fish impingement monitoring data for the first two weeks of January 1977 were missing from the QA file. The licensee believes the required monitoring and surveillance were performed, but stated a surveillance exception report will be filed if the records cannot be found. This matter will be examined during a future inspection.

d. Radiological Environmental Monitoring

The inspectors reviewed data for calendar year 1977 and found no unusual results or trends. No instances of failure to perform required monitoring were identified. Instances in which the licensee was unable to perform certain analyses due to unavoidable circumstances were properly documented as required by technical specifications.

e. Nonradiological Environmental Monitoring

The licensee completed the required two year operational aquatic monitoring program and then applied for a Technical Specification change to delete essentially all of the requirements for this program. The application was approved as

Technical Specification Amendment No. 15, dated March 16, 1977. The remaining program consists of fish impingement monitoring and analysis and documenting periods of deicing the circulating water intake structure.

No items of noncompliance or deviations were identified.

7. Facilities Tour

The inspectors examined licensee radiological environmental equipment for proper installation and operability at five offsite locations. Equipment examined included airborne particulate monitors, TLDs and ion-chamber dosimeters.

The air particulate monitor located at site location K-1f (meteorological tower) was operating improperly due to bypass leakage across the filter. The licensee agreed to repair this unit. All other equipment examined was found to be adequate. This item will be examined during a future inspection.

The inspectors toured the plant's nonradiological chemical laboratory and examined laboratory equipment and procedures. Equipment examined was found to be operational and calibrated as specified in the licensee QC program.

No items of noncompliance or deviations were identified.

8. Confirmatory Measurement Samples

Confirmatory measurement samples were collected during this inspection for future comparative analysis. Also, the NRC radiological measurements van was used to perform additional measurements. Samples collected included a liquid radwaste, airborne particulate and charcoal filters, and gaseous waste.

9. Exit Interview

The inspectors met with licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on April 13, 1978. The inspectors summarized the scope and findings of the inspection. The licensee made the following remarks in response to certain of the items discussed by the inspectors:

- a. Concurred with the inspectors findings as stated in Paragraph 6.a and agreed to correct these data.
- b. Stated that the air particulate monitor located at location K-1F will be repaired. (Paragraph 7)