

UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

TELEPHONE
(312) 858-2660

A. RO Inspection Report No. 050-305/73-16

Transmittal Date : August 28, 1973

Distribution:

RO Chief, FS&EB

RO:HQ (5)

DR Central Files

Regulatory Standards (3)

Licensing (13)

RO Files

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RO:HQ (4)

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B. RO Inquiry Report No. _____

Transmittal Date : _____

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C. Incident Notification From: _____
(Licensee & Docket No. (or License No.)

Transmittal Date : _____

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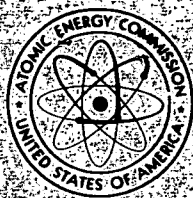
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LB



UNITED STATES
ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

TELEPHONE
(312) 858-2660

August 28, 1973

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

Docket No. 50-305

Gentlemen:

This refers to the inspection conducted by Mr. L. R. Greger of this office on July 24-25, 1973, of activities at the Kewaunee Nuclear Power Plant authorized by AEC Construction Permit No. CPPR-50, and to the discussions with Mr. Giesler and other members of your staff at the conclusion of the inspection.

Areas examined during this inspection are described in the enclosed inspection report. Within these areas, the inspection consisted of selective examination of procedures and representative records, interviews with personnel and observations by the inspector.

No violations of AEC requirements were identified within the areas examined during this inspection.

A copy of our report of this inspection is enclosed and, in accordance with Section 2.790 of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, a copy of this letter with the enclosed inspection report will be placed in the AEC's Public Document Room. If the inspection report contains information which you or your contractors believe to be proprietary, it is necessary that you submit a written application to this office, within 20 days of the date of this letter, requesting that such information be withheld from public disclosure. If such an application is submitted, it must identify the basis for which information is claimed to be proprietary and should be prepared so that proprietary information identified is contained in a separate part of the document since the application, excluding this separate part, will also be placed in the Public Document Room. If we do not receive an application to withhold information, or are not otherwise contacted within the specified time period, the enclosed report will be placed in the Public Document Room with a copy of this letter.

Wisconsin Public Service
Corporation

- 2 -

August 28, 1973

Unless you wish to make application to withhold information, no reply to this letter is necessary; however, should you have questions concerning this inspection, we will be glad to discuss them with you.

Sincerely yours,

Boyce H. Grier
Regional Director

Enclosure:

RO Inspection Rpt No. 050-305/73-16

cc: Mr. C. W. Giesler, Superintendent
Nuclear Power - w/o encl

bcc: RO Chief, FS&EB
RO:HQ (4)
Licensing (4)
DR Central Files
RO Files
Regions I & II
PDR
Local PDR
NSIC
DTIE
OGC, Beth, P-506A
R. Renfrow, GC (2)

U. S. ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS

REGION III

RO Inspection Report No. 050-305/73-16

Licensee: Wisconsin Public Service Corporation
P. O. Box 1200
Green Bay, Wisconsin 54305

Kewaunee Nuclear Power Plant
Kewaunee, Wisconsin

License No. CPPR-50
Category: B

Type of Licensee: PWR 560 Mwe (W)

Type of Inspection: Special, Announced

Dates of Inspection: July 24-25, 1973

Dates of Previous Inspection: June 4-6 and June 9-11, 1973 (T&S)

Principal Inspector: L. R. Greger

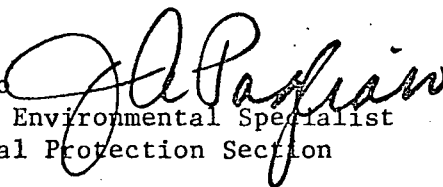


8/27/73
(Date)

Accompanying Inspectors: None

Other Accompanying Personnel: None

Reviewed By: J. A. Pagliaro
Acting Senior Environmental Specialist
Environmental Protection Section



8/27/73
(Date)

SUMMARY OF FINDINGS

Enforcement Action: None

Licensee Action on Previously Identified Enforcement Items

No previously identified enforcement items within the scope of this inspection.

Unusual Occurrences

None within the scope of this inspection.

Other Significant Findings

A. Current Findings

This inspection included an examination of the licensee's environmental monitoring program and a status followup to the April 16-18, 1973, emergency planning inspection. One item from this inspection remains to be resolved. This item pertains to the sufficiency of available lake bottom organisms to enable the licensee's contract laboratory to run gamma scans as specified in the FSAR and technical specifications. (Paragraph 8)

T. C. Palzer terminated employment with the licensee. Palzer's responsibilities as the Kewaunee Radiation and Chemistry Supervisor have been assumed by the Chemistry Supervisor, G. T. Larson and the Health Physics Supervisor, G. L. Jarvela. Jarvela was previously on the Wisconsin Public Service staff and Larson was the Kewaunee Plant Radiation Chemistry Assistant.

B. Status of Previously Reported Unresolved Items

The items reported as being unresolved as a result of the April 16-18, 1973, emergency planning inspection were not resolved during this inspection. These items will be examined further during a subsequent inspection.

Management Interview

- A. The status of implementation of the Kewaunee Emergency plan, including the unresolved items from the April 16-18, 1973, inspection was discussed. (Paragraphs 1 and 2)

B. The following subjects relating to the environmental monitoring portion of the inspection were discussed:

1. The inspector discussed the scope of this inspection and stated that the laboratory utilized by the licensee for collection and analysis will be examined during a subsequent inspection. (Paragraph 1)
2. The inspector noted that although the Kewaunee Technical Specifications had been issued, they were not yet applicable and therefore the FSAR was the appropriate document to be consulted in determining the environmental monitoring requirements. The licensee representative stated that the FSAR would be amended in the near future so as to bring the FSAR and the technical specifications into agreement concerning the environmental monitoring requirements. (Paragraph 7)
3. The inspector noted that calibration and maintenance procedures were not formalized. The licensee representatives stated that the referenced procedures were in the process of being written and approved at the present time. (Paragraph 6)

REPORT DETAILS

1. Personnel Contacted

C. W. Giesler, Superintendent for Nuclear Power, WPS
G. L. Jarvela, Health Physics Supervisor, Kewaunee
T. P. Meinz, Chemical Engineer, WPS

2. General

The inspection included an examination of the licensee's environmental monitoring program and a followup to the previous emergency planning inspection. With regard to the emergency planning portion of the inspection, the status of the outstanding items from the April 16-18, 1973, inspection of the licensee's emergency planning program were examined.^{1/} The environmental monitoring portion of the inspection included a selected review of sampling techniques and procedures, sampling equipment and locations, and program results. Management control aspects including organizational structure, responsibilities and authorities, and administrative control were also examined. The licensee's FSAR commitments were used as the primary inspection criteria although the technical specifications were utilized as an indication of current AEC:DL monitoring requirements. The inspection did not include an examination of the licensee's contract laboratory personnel, equipment, or procedures nor was the licensee's nonradiological environmental monitoring program examined as extensively as the radiological portion of the monitoring program. These areas will be examined further during subsequent inspections.

The aspects of the licensee's environmental monitoring program inspected were found to conform to the requirements as specified in the licensee's FSAR/Technical Specifications except as specified in paragraph 7.

3. Emergency Plan Implementation

The status of the outstanding items from the August 16-18, 1973, inspection of the licensee's Emergency Plan was examined during this inspection. Implementing procedures, in various states of readiness but not yet officially approved, will apparently resolve certain of these items. Additional resolution will be effected at such time as a working drill is conducted. (An emergency plan drill, including participation by offsite agencies, is tentatively scheduled for

1/ RO Inspection Report No. 050-305/73-06.

September 10, 1973.) The adequacy of these items will be examined during a subsequent inspection. Until such examination, the April 16-18 inspection items remain unresolved.

4. Program Management

The licensee utilizes Industrial Bio-Test Laboratories' services to perform the environmental analyses and to collect the majority of the samples. Kewaunee personnel presently collect only the weekly airborne particulate and milk samples and the bi-weekly airborne iodine samples; these samples are sent to the Bio-Test Laboratories for analysis. The contract laboratory was not examined during this inspection.

The environmental monitoring program is supervised by the Chemical Engineer within the Wisconsin Public Service Power Operation and Engineering Group. This individual is responsible to the WPS Superintendent - Steam Plants (through the Superintendent - Nuclear Power) in these matters. Monitoring results are received and evaluated by the Chemical Engineer. Copies of the monthly reports are routed to the Superintendent - Steam Plants, the Superintendent - Nuclear Power, and the Kewaunee Plant Health Physicist for information and comment. The monthly reports are compiled and published quarterly. The quarterly reports contain trend charts compiled by the contract laboratory. The licensee representative stated that present intentions are to establish action levels for the various parameters monitored such that the contract laboratory would be required to notify the licensee of results in excess of these pre-established levels. These action levels are to be established prior to operation of the Kewaunee facility. Contract laboratory personnel and licensee personnel meet on an irregular basis in conjunction with the sample collection visits and otherwise as required.

The licensee's preoperational environmental monitoring program is essentially identical to the proposed monitoring program for the operational phase of the facility; therefore, the transition to the operational program should not present any problems.

5. Physical Plant Facilities, Instrumentation, Sampling, and Measurements

The facility location, site, and general topography, and site environs characteristics were found to be essentially as described in the licensee's FSAR. The only equipment located at the Kewaunee facility and presently used in conjunction with the environmental monitoring program are the airborne samplers and the ionization chambers and the associated reading, calibration, and maintenance equipment. Gelman

air samplers and Victoreen Stray Radiation Chambers. (Model 239-1) are utilized by the licensee in implementation of the radiological portion of the monitoring program. Calibration and maintenance is performed by licensee personnel. The licensee representative stated that calibration and maintenance procedures were in the process of being formalized and approved.

6. Procedures

The sample collection and analytical procedures used by the contract laboratory were available at WPS. These procedures have not been subjected to a formal review by WPS personnel according to the licensee representative, although the procedures have been informally reviewed on a selected basis. As stated in paragraph 5, calibration and maintenance procedures are being written for the licensee's environmental monitoring equipment.

The contract laboratory's analytical procedures, quality assurance program, and equipment calibration and maintenance procedures were not examined during this inspection. The licensee, through the WPS Power Generation and Engineering Organization - Steam Plants-Chemical Engineer, audits and evaluates the results reported by the licensee's contract laboratory to assure compliance with regulatory requirements and to evaluate the reported results.

7. Environmental Monitoring Reports

The results of the licensee's environmental monitoring program for calendar year 1972 and the first quarter of 1973 were selectively examined. No unusual results or trends were identified.

The effective Technical Specifications revision contains the licensee's environmental radiological monitoring requirements. Prior to calendar year 1973, the licensee had been conducting their environmental radiological monitoring program in accordance with Section 2.8 of the FSAR. Commencing the first quarter of 1973, the licensee began conducting the radiological monitoring program in accordance with the Technical Specifications. At that time certain analyses which are not required by the technical specification but which are specified in the FSAR were discontinued (i.e., gamma scan of bottom sediment samples, Sr-90 for bottom organism samples). The inspector informed the licensee representative that until such time as the licensee is issued an operating license, the technical specifications are not applicable. The licensee representatives stated that it was their intention to revise Section 2.8 of the FSAR so as to bring the FSAR and the technical specifications into agreement concerning the environmental radiological monitoring program rather than to resume the analyses specified in their FSAR.

8. The licensee's FSAR and Technical Specifications both require that lake bottom organisms be collected and gamma scanned. (The FSAR requires this analysis on a semi-annual basis while the Technical Specifications specify a sampling frequency of three times per year.) The licensee's 1972 environmental monitoring results do not contain gamma scan results for lake bottom organisms. A licensee representative stated that the reason that gamma scan analyses were not conducted was that the quantity of lake bottom organisms available for sampling was not sufficient to perform a gamma spectral analysis. (The licensee's Technical Specifications contain an exemption from the requirement to perform gamma analyses of lake bottom organism samples if they are not available in sufficient quantity.) The presence of lake bottom organisms in sufficient quantity to enable the performance of gamma scans will be examined during a subsequent inspection.