

Docket No. 50-305

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WISCONSIN PUBLIC SERVICE CORPORATION - KEWAUNEE PLANT - ENVIRONMENTAL
TECHNICAL SPECIFICATIONS

On April 17, 1975, a meeting was held at Rockville, Maryland, with Carl Giesler, Plant Superintendent of Kewaunee, Tom Meinz, Staff Chemical Engineer, and M. Stern, of Wisconsin Public Service Corporation, and B. Weiss, NRC Division of Inspection and Enforcement, W. Knapp, Environmental Specialist Branch, TR, C. Haupt and M. J. Oestmann, Environmental Projects Branch No. 1, for the purpose of discussing comments from the inspection carried out on January 14-16, 1975, by Region III of the Division of Inspection and Enforcement. The inspection was reported in a letter dated February 14, 1975, from James M. Allan, Chief, Radiological and Environmental Protection Branch, Region III, DIE, to L. B. Higgenbotham, Acting Chief, Radiological and Environmental Protection Branch, Headquarters, DIE. The major comment dealt with the uncontrolled and unmonitored discharge of 1.1 million gallons of waste from the condenser hotwell to the circulating water discharge in 1974. This release is not included in the present Environmental Technical Specifications.

A copy of the Section 402 permit for the Kewaunee Plant obtained from the Wisconsin Department of Natural Resources was also given to the EPM. The licensee has applied to EPA for a Section 316a exemption and will send NRC a copy of the environmental monitoring program for the Section 316a exemption.

Original signed by
M. J. Oestmann

Mary Jane Oestmann, Project Manager
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Enclosure:
Details of Meeting

cc: Service list

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Enclosure 1

Details of the Meeting on Kewaunee Nuclear Power Plant

Wisconsin Public Service Corporation

Docket No. 50-305

I. Introduction:

A meeting was called for the purpose of discussing effluent discharges which are released to Lake Michigan but are not controlled or monitored in the existing Environmental Technical Specifications (ETS). The releases were identified in an environmental monitoring inspection carried out by Region III, Division of Inspection and Environment, on January 14 - 16, 1975.

A. Condenser Hotwell Discharge.

In 1974, the licensee recorded in its own records that 1.1 million gallons of wastes from the condenser hotwell had been released in the circulating water discharge. The pH of the discharge runs about 9 to 9.4 depending on the ammonia and hydrazine present. This pH of waste is outside the limits specified for the neutralizing tank. The licensee reported that except for the basic ingredients, the water discharged is of higher quality than the lake water. Some inleakage from the lake occurs and the excess liquid in the hotwell has to be discharged. The large amount released occurred primarily during startup of the plant and normally only a small amount is discharged depending on the extent of inleakage from the lake through the condenser tubes. The licensee also pointed out that the existing environmental monitoring program has not shown any adverse impacts from any discharges to date. The staff informed the licensee that he would be informed as to the decision on whether NRC would require an ETS change, which could be noted in the Bases to identify the existence of the discharge.

B. Other Unlimited Discharges

The environmental monitoring inspection also revealed uncontrolled and unmonitored discharges from the turbine building sumps, the water softener, and overflow from the settling pond. These discharges flow to the circulating water discharge where they are further diluted. The licensee will be informed what action will be taken by NRC to monitor these discharges.

C. Technical Specifications in General

The licensee was concerned with the problem of extent of the Kewaunee ETS in comparison with the ETS for the Point Beach Plant. The staff explained that the ETS for the Point Beach Plant were one of the first ETS to be issued and are presently under review for upgrading to comply with present day guidelines.

The licensee was informed of the possible issuance of Regulatory Guide 4.8 - Preparation of Environmental Technical Specifications in the near future. The existing ETS for Kewaunee, particularly the Administrative Section, will have to be modified to comply with Regulatory Guide 4.8. In this respect, annual, rather than semi-annual operating reports will be required. In addition, the radwaste and radiological monitoring sections will have to be transferred from Appendix A to Appendix B of the Technical Specifications. In addition, the radwaste sections will be modified to comply with the new Appendix I to 10 CFR Part 50. Some of the changes to the ETS which were discussed are as follows:

1. Spec. 2.1.1 - Maximum Delta-T across the condenser. The limit of 20 F° should be revised to 22 F° for the summer time conditions.
2. Spec. 2.1.2. - The licensee wanted to have the specifications to be less specific regarding the location of the temperature monitor. The licensee would study the system to determine an optimum location of the temperature monitor in order to provide a realistic reading of the plant operation. In addition, the licensee discussed the revision of the maximum temperature discharge limit of 86°F to be consistent with the present Wisconsin temperature limit of 89°F. The licensee is applying for a 316a exemption and it will include the 89°F maximum temperature limit, which is consistent with the requirements for the Point Beach Plant.
3. Spec. 2.1.3. The licensee would like to revise the limit on rate of change of temperature across the condenser. The licensee would like to determine the limits which are best for operation and submit the information to NRC. The Point Beach Plant has a specification of a 3 F°/minute. Normal shutdown occurs in approximately 1 hour.

4. Seps. 3.2.1 The licensee would like to add the colorimetric method for determining residual chlorine to the specification besides the amperometric method of analysis. The colorimetric method of analysis should be removed from the Bases.
5. Spec. 5.4. As stated above the reporting requirements will have to be revised to be consistent with Reg. Guide 1.16.

As soon as Reg. Guide 4.8 is issued, the ETS will be reviewed to see whether modifications to the ETS will be needed.