

JULY 20 1979

Docket No. 50-333

Mr. George T. Berry
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Dear Mr. Berry:

By letter dated May 17, 1979, we transmitted Amendment No. 46 to Facility Operating License No. DPR-59 for the James A. FitzPatrick Nuclear Plant which revised the Appendix B Environmental Technical Specifications. By letter dated June 14, 1979, you brought to our attention that certain Technical Specification pages necessary for implementation of Amendment No. 46 contained errors.

Please substitute the enclosed Instruction Sheet and Technical Specification pages for those transmitted with Amendment No. 46.

Sincerely,

Original signed by

V. Rooney for

Thomas A. Ippolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Enclosure:
Instruction Page and Technical
Specification pages iii, 5,
16a and 33

cc w/enclosures:
see next page

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26 Federal Plaza
New York, New York 10007

ATTACHMENT TO LICENSE AMENDMENT NO. 46

FACILITY OPERATING LICENSE NO. DPR-59

DOCKET NO. 50-333

Replace the following pages of the Appendix "B" Technical Specifications with the enclosed pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

Remove

Insert

i	i
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iv	iv
3	3
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Add page 16a.

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2.2.3 pH and Conductivity

OBJECTIVE

The purpose of this Specification is to limit the liquid effluent pH to a range of values consistent with the classifications and standards governing the quality and purity of Lake Ontario waters.

SPECIFICATION

The pH of treated water in the waste neutralizer tanks and floor drain sample tanks prior to being discharged into the discharge tunnel shall be between 6.0 and 9.0. When the conductivity of a floor drain or a waste sample tank is below 10 pmho/cm, the pH shall be between 4.0 and 9.0.

MONITORING REQUIREMENT

Sampling and analysis for pH and conductivity shall be performed in accordance with Table 2.2-2.

The waste neutralizer tanks shall be monitored continuously for pH during release to the cooling water discharge.

The pH monitors shall be set to alarm at pH levels below 6.0 and above 9.0. The pH sensors shall be located in the discharge pipe from the waste neutralizer tank and shall be sensitive to at least 0.1 pH units.

Once a month, the pH monitors shall be checked to verify the operability of the inline pH probes.

BASES

Lake Ontario is designated Class A-Special (International Boundary Water). This classification specifies a lake water pH range of 6.7 to 8.5. However, pH observations performed during site monitoring programs have fallen predominantly in the range from 8.0 to 9.0 and have frequently exceeded 8.5.

Waste neutralizer tank and floor drain sample tank releases are diluted by a factor of more than 2,000 in the circulating water prior to discharge. After such dilution, the discharge is at essentially the same pH as the incoming lake water.

With increased usage of the waste concentrator, pure water inventory increases. To allow for discharge of water with only CO₂ as contaminant, a lower pH is allowed for low conductivity floor drain sample tanks.

TABLE 2.2-2

Chemical Liquid Waste Analysis

<u>DISCHARGE</u>	<u>SAMPLING FREQUENCY</u>	<u>TYPE OF ANALYSIS (2)</u>	<u>SENSITIVITY OF ANALYSIS</u>
Waste Neutralizer Tank	Each Batch	pH Conductivity	+ 0.5 pH Units + 10% of Range in $\mu\text{mho/cm}$

4.3 Environmental Radiological Monitoring

OBJECTIVE

An environmental radiological monitoring program shall be conducted to evaluate the effects of station operation on the environs and to verify the effectiveness of the controls on radioactive materials sources.

SPECIFICATION

An environmental radiological monitoring program shall be conducted as follows:

1. The environmental radiation monitoring program specified in Table 4.3-1 shall be conducted.
2. Reporting requirements for the environmental radiological monitoring program are outlined in Sect. 5.5, Plant Reporting Requirements.
3. During the seasons that animals producing milk for human consumption are on pasture, samples of fresh milk shall be obtained from these animals at the frequencies and number of locations shown in Table 4.3-1 and analyzed for their radioiodine content, calculated as I-131. Analysis shall be carried out within eight days (one I-131 half-life) of sampling. Suitable analytical procedures shall be used to determine the radioiodine concentration to a sensitivity of 0.5 picocuries per liter of milk at the time of sampling. For activity levels at or above 0.5 picocuries per liter, overall error (one sigma confidence level) of the analysis shall be within ± 25 percent. Results shall be reported, with associated calculated error, as picocuries of I-131 per liter of milk at the time of sampling.