

AUG 2 1977

Docket No.: 50-333

Power Authority of the State
of New York
ATTN: Mr. George T. Berry
General Manager and
Chief Engineer
10 Columbus Circle
New York, New York 10019

Gentlemen:

The Commission has issued the enclosed Amendment No. 25 to Facility Operating License No. DPR-59 for the James A. FitzPatrick Nuclear Power Plant. This amendment consists of changes to the Technical Specifications in response to your application submitted by letter dated August 31, 1976, as supplemented April 8, 1977, and staff discussions.

This amendment revises the provisions in the Technical Specifications relating to the relocation of temperature indicators from the condenser outlet to the plant outlet to allow more accurate measurements.

The condenser tube sheets at FitzPatrick have a "starburst" pattern such that the fewer tubes on the tube bundle periphery see more steam passing by than the larger number of more centrally located tubes. Therefore, the outer tubes will pick up more BTU's per linear foot of tube from the condensing steam than the more centrally located tubes. The discharge displays a temperature stratification that progresses to some extent beyond the condenser water boxes where the RTD instruments are now located. Relocating these instruments further downstream in the shaft to the discharge tunnel will allow more complete mixing to occur before the temperature is recorded.

We have evaluated the potential for environmental impact of plant operation in accordance with the enclosed amendment, and have determined that

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the amendment does not authorize a change in effluent types or total amounts nor an increase in power level, and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and pursuant to 10 CFR§51.5(d)(4) that an environmental impact statement, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Since the amendment applies only to the relocation of temperature detectors, it does not involve significant new safety information of a type not considered by a previous Commission safety review of the facility. It does not involve a significant increase in the probability or consequences of an accident, does not involve a significant decrease in a safety margin, and therefore does not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

A copy of the related Notice of Issuance is also enclosed.

Sincerely,

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Enclosures:

1. Amendment No. 25
to DPR-59
2. Notice

cc w/enclosures: See next page.

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Power Authority of the
State of New York

cc w/enclosure(s):

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

POWER AUTHORITY OF THE STATE OF NEW YORK

DOCKET NO. 50-333

JAMES A. FITZPATRICK NUCLEAR POWER PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 25
License No. DPR-59

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by the Power Authority of the State of New York (the licensee) sworn to August 30, 1977, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-59 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 25, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 2, 1977

ATTACHMENT TO LICENSE AMENDMENT NO. 25

FACILITY OPERATING LICENSE NO. DPR-59

DOCKET NO. 50-333

Revise Appendix B Technical Specifications as follows:

Remove Pages

2 & 3

Insert Pages

2 & 3

Changes on the revised pages are shown by marginal lines.

LIMITING CONDITIONS FOR OPERATION

2.0 Protection Limits

2.1 Thermal

2.1.1 Maximum ΔT across the condenser.

OBJECTIVE

The purpose of this specification is to limit the thermal stress to the aquatic ecosystem by limiting the maximum ΔT between condenser inlet and the plant outlet.

SPECIFICATION

Maximum ΔT between main condenser inlet and the plant outlet during normal plant operation shall not exceed 32.4°F for more than a period of:

- a) eight hours in any given 24 hour period, or
- b) four hours twice or more in any given seven day period.

The cause of either of the above deviations shall be investigated and positive action taken to reduce the ΔT to the specified maximum. Positive action also shall be taken to prevent any such deviations in the future. In addition a report shall be submitted in accordance with Section 5.0.

Monitoring Requirement

OBJECTIVE

The purpose of this monitoring requirement is to assure that the maximum ΔT between the condenser inlet and the plant outlet will not exceed the protection limit as stated in the technical specification

SPECIFICATION

The ΔT shall be monitored and recorded once per hour. The temperature measurements shall be taken by a minimum of two RTD instruments in the condenser inlet and a minimum of two RTD instruments in the plant outlet. The instruments shall be located in the inlet to the condenser downstream of tempering and the outlet tunnel following the combination of the condenser cooling water and the service water in the screenwell. The accuracy of the temperature sensors shall be 0.5°F. Each sensor shall be scanned on a 60 second basis and, in addition, an hourly 1 shall be made of the average of the inlet and outlet readings. Because of the individual input, loss of an RTD will be promptly alarmed by the computers "off-limit" circuitry, but readings will still be obtainable from the remaining sensors.

LIMITING CONDITIONS FOR OPERATION

BASES

For the maximum anticipated power output the plant will require a total recirculation flow of 370,200 gpm. Of the total flow 352,300 gpm is for the main condenser and 17,900 gpm is for service water requirements, which will raise the circulating water temperature to 32.4°F.

2.2 Chemical

2.2.1 Biocides

No biocides shall be used in the condenser cooling water system.

2.2.2 Corrosion Inhibitors

The plant shall not discharge corrosion inhibitors to the lake.

2.2.3 Suspended and Dissolved Solids

OBJECTIVE

The purpose of this specification is to limit the stress to the aquatic ecosystem by limiting the concentration of suspended and dissolved solids in the plant effluents.

BASES

The temperature sensors on the inlet of the main condenser and the plant outlet will provide information on the ΔT across these two points.

Monitoring Requirement

OBJECTIVE

The purpose of this monitoring requirement is to ensure that the chemical concentrations in the plant effluents will not exceed the protection limits.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-333

POWER AUTHORITY OF THE STATE OF NEW YORK

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 25 to Facility Operating License No. DPR-59, issued to Power Authority of the State of New York (the licensee), which revised Technical Specifications for operation of the James A. FitzPatrick Nuclear Power Plant (the facility) located in Oswego County, New York. The amendment is effective as of its date of issuance.

This amendment revises the provisions in the Technical Specifications relating to the relocation of temperature indicators from the condenser outlet to the plant outlet to allow more accurate measurements.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement,

negative declaration or environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment sworn to August 31, 1976, as supplemented April 8, 1977, and (2) Amendment No. 25 to License No. DPR-59. Both of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Oswego County Office Building, 46 East Bridge Street, Oswego, New York. A copy of Item (2) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 2nd day of August 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors