

April 11, 1990

Docket No. 50-333

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Mr. John C. Brons
Executive Vice President - Nuclear Generation
Power Authority of the State of New York
123 Main Street
White Plains, New York 10601

Dear Mr. Brons:

SUBJECT: ISSUANCE OF AMENDMENT (TAC NO. 75873)

The Commission has issued the enclosed Amendment No. 156 to Facility Operating License No. DPR-59 for the James A. FitzPatrick Nuclear Power Plant. The amendment consists of changes to the Technical Specifications in response to your application transmitted by letter dated January 16, 1990.

The amendment revises the crescent area cooler surveillance test requirements to reflect modifications to the coolers which will cycle the cooler fans rather than modulate the cooler water outlet valve in response to changes in room temperature.

A copy of the related Safety Evaluation is enclosed. A Notice of Issuance will be included in the Commission's next regular bi-weekly Federal Register notice.

Sincerely,

/s/

David E. LaBarge, Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 156 to DPR-59
2. Safety Evaluation

cc: w/enclosures
See next page

PDI-1 *w*
CVogan
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PDI-1 *LL*
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SPLB *C.2*
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3/15/90

OGC *RAH*
3/20/90

PDI-1 *ROC*
RACapra
4/11/90

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

April 11, 1990

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Executive Vice President - Nuclear Generation
Power Authority of the State of New York
123 Main Street
White Plains, New York 10601

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Sincerely,

A handwritten signature in cursive script, appearing to read "D. LaBarge", with a long horizontal line extending to the right.

David E. LaBarge, Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 156 to DPR-59
2. Safety Evaluation

cc: w/enclosures
See next page

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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. 156
License No. DPR-59

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Power Authority of the State of New York (the licensee) dated January 16, 1990, 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:

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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 156, 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 to be implemented within 30 days.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert A. Capra, Director
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 11, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 156

FACILITY OPERATING LICENSE NO. DPR-59

DOCKET NO. 50-333

Revise Appendix A as follows:

Remove Page

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Insert Page

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JAFNPP

3.11 (cont'd)

B. Crescent Area Ventilation

Crescent area ventilation and cooling equipment shall be operable on a continuous basis whenever specification 3.5.A, 3.5.B, and 3.5.C are required to be satisfied.

1. From and after the date that more than one unit cooler serving ECCS compartments in the same half of the crescent area are made or found to be inoperable, all ECCS components in that half of the crescent area shall be considered to be inoperable for purposes of specification 3.5.A, 3.5.B, and 3.5.C.
2. If 3.11.B.1 cannot be met, the reactor shall be placed in a cold condition within 24 hours.

C. Battery Room Ventilation

Battery room ventilation shall be operable on a continuous basis whenever specification 3.9.E is required to be satisfied.

1. From and after the date that one of the battery room ventilation systems is made or found to be inoperable, its associated battery shall be considered to be inoperable for purposes of specification 3.9.E.

4.11 (cont'd)

B. Crescent Area Ventilation

1. Unit coolers serving ECCS components shall be demonstrated operable once/3 months.
2. Each unit cooler's temperature control instrument shall be calibrated once/operating cycle.

C. Battery Room Ventilation

Battery room ventilation equipment shall be demonstrated operable once/week.

1. When it is determined that one battery room ventilation system is inoperable, the remaining ventilation system shall be verified operable and daily thereafter.
2. Temperature transmitters and differential pressure switches shall be calibrated once/operating cycle.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 156 TO FACILITY OPERATING LICENSE NO. DPR-59

POWER AUTHORITY OF THE STATE OF NEW YORK

JAMES A. FITZPATRICK NUCLEAR POWER PLANT

DOCKET NO. 50-333

INTRODUCTION

By letter dated January 16, 1990, the Power Authority of the State of New York (PASNY or the licensee), requested changes to the Technical Specifications (TS) for the James A. FitzPatrick Nuclear Power Plant. The changes would modify Surveillance Requirement 4.11.B.2 (which requires that the temperature indicator controllers be calibrated once per operating cycle) by replacing "Temperature indicator controllers" with "Each unit cooler's temperature control instrument." The effect of the change is to require that the instrumentation, rather than the temperature indicator controllers, be calibrated once per operating cycle.

DESCRIPTION

The Crescent Area Unit Coolers are air-to-water heat exchangers and fans which are used to control the air temperature in the crescent areas by circulating air in the crescent area across the heat exchanger tubes. The heat is transferred to the Service Water System normally, or to the Emergency Service Water System in the event of failure of the Service Water System. There are ten coolers mounted in various locations in the two crescent areas.

In the existing arrangement, service water flow through each cooler is controlled by a pneumatic temperature control valve (TCV) located at the outlet of each cooler. A signal from the respective temperature indicator controller (TIC) regulates the position of the TCV such that when room air temperature increases, the TCV opens to increase the cooling water flow and, hence, the amount of heat withdrawn from the air by the coolers. The fans operate continuously.

Conversely, the TCV throttles toward the closed position when room air temperature decreases. When little or no air cooling is needed, the resulting low cooling water flow has caused silt to accumulate in the service water piping. This silt accumulation limits the heat transfer rate of the cooler. To reduce this potential problem, the licensee is modifying the operation of the coolers such that service water flow is constant and a new temperature control switch (TCS) will be used to cycle the fans on and off in response to changes in cooling requirements. The high temperature alarm function is retained.

The cooler modification is designed to improve the reliability of the crescent area coolers and restore their capacity and ability to perform their intended function in the event they are needed when the Emergency Core Cooling System equipment, located in the area, is operating. The only effect on the TS is to reflect the physical change to the equipment in the plant from "temperature indicator controllers" to "temperature instrumentation" in the surveillance test requirement. The testing frequency remains unchanged. Therefore, the proposed TS change does not affect the conclusions reached in the licensee's Final Safety Analysis Report or the plant Safety Evaluation Report generated by the NRC. Based on this analysis, the staff finds the proposed change acceptable.

ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a surveillance requirement. The staff has determined that this amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR Sec 51.22(c)(g). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

CONCLUSION

Based on the considerations discussed above, the staff concludes that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: April 11, 1990

PRINCIPAL CONTRIBUTOR:

D. LaBarge