

May 22, 1984

Docket No. 50-333

Mr. J. P. Bayne
Executive Vice President,
Nuclear Generation
Power Authority of the State
of New York
123 Main Street
White Plains, New York 10601

Dear Mr. Bayne:

The Commission has issued the enclosed Amendment No. 80 to Facility Operating License No. DPR-59 for the James A. FitzPatrick Nuclear Power Plant. The amendment authorizes changes to the Technical Specifications in response to your request dated October 28, 1982 regarding surveillance requirements for the high pressure water fire protection system.

The amendment revises the Technical Specifications to clarify and provide consistent wording to the surveillance requirements and permits non-sequential testing of the fire pumps consistent with the plant design basis.

A copy of our Safety Evaluation is enclosed.

Sincerely,

Original signed by/

Harvey I. Abelson, Project Manager
Operating Reactors Branch #2
Division of Licensing

Enclosures:

- 1. Amendment No. 80 to License No. DPR-59
- 2. Safety Evaluation

cc w/enclosures:
See next page

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Mr. J. P. Bayne
Power Authority of the State of New York
James A. FitzPatrick Nuclear Power Plant

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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. 80
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) dated October 28, 1982, 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 applications, 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:

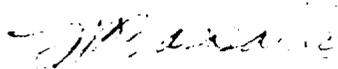
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(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 80, 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



Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: May 22, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 80

FACILITY OPERATING LICENSE NO. DPR-59

DOCKET NO. 50-333

Revise the Technical Specifications by removing and inserting the following pages:

<u>Remove</u>	<u>Insert</u>
244a	244a
244b	244b

Marginal lines indicate the areas of change.

LIMITING CONDITIONS FOR OPERATION

3.12 FIRE PROTECTION SYSTEMS

Applicability:

Applies to the Operational Status of the Fire Protection Systems.

Objective:

To assure operability of the Fire Protection Systems.

Specification:

A. High Pressure Water Fire Protection System

1. a. Both high pressure water fire protection pumps and associated automatic and manual initiation logic shall be operable and aligned to the high pressure water fire header.
- b. The high pressure water fire protection system shall be operable with an operable flow path capable of taking suction from the lake and transferring the water through distribution piping with operable sectionalizing control or isolation valves to the yard hydrant curb valves and the first valve ahead of the water flow alarm device on each sprinkler, hose standpipe or spray system riser required to be operable per specifications 3.12.B and 3.12.D.

SURVEILLANCE REQUIREMENTS

4.12 FIRE PROTECTION SYSTEMS

Applicability:

Applies to the Surveillance of the Fire Protection System.

Objective:

To verify the operability of the Fire Protection Systems.

Specification:

A. High Pressure Water Fire Protection System

1. High pressure water fire protection system testing:

<u>Item</u>	<u>Frequency</u>
a. High pressure water fire protection system pressure check.	Once/week
b. Each pump, on a STAGGERED TEST BASIS, by starting and operating it for at least 20 minutes on recirculating flow	Once/week
c. Valve operational test	Once/12 months
d. System flush	Once/6 months
e. Functional test including:	Once/18 months

A. High Pressure Water Fire Protection System (Cont'd)

- c. With one pump and/or associated automatic and manual initiation logic inoperable, restore the inoperable equipment to operable status within 7 days or, in lieu of any other report required by Specification 6.9.1.A, submit a Special Report to the Commission, within the next 30 days outlining the plans and procedures to be used to provide for the loss of redundancy in this system.
- d. With the high pressure water fire protection system otherwise inoperable:
 - 1. Establish a backup fire suppression water system within 24 hours, and
 - 2. Submit a Special Report:
 - a) By telephone within 24 hours,
 - b) Confirmed by telegraph, mailgram or facsimile transmission no later than the first working day following the event, and
 - c) In writing within 14 days following the event, outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to operable status.

A. High Pressure Water Fire Protection System (Cont'd)

<u>Item</u>	<u>Frequency</u>
1. Simulated automatic actuation of each pump,	
2. verifying that each automatic valve in the flow path actuates to its correct position,	
3. verifying that each pump develop at least 2500 gpm at a pressure of 125 psig, and	
4. verifying that each pump starts (at 95 psig for the electric pump and 85 psig for the diesel driven pump) to maintain the fire suppression water system pressure.	
f. System flow test in accordance with Section 11, Chapter 5 of the Fire Protection Handbook, 14th Edition, published by the National Fire Protection Association	Once/3 years
g. Each valve in the flow path by verifying it is in its correct position.	Once/Month



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 80 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

1.0 Introduction

By letter dated October 28, 1982, the Power Authority of the State of New York (the licensee) proposed certain changes to the Technical Specifications (TS) for the James A. FitzPatrick Nuclear Power Plant (JAFNPP) pertaining to surveillance testing of the fire protection system. The intent of the changes is to clarify existing surveillance requirements and was proposed in response to an inspection finding (No. 333/81-15-02) documented in IE Inspection Report No. 50-333/81-15.

2.0 Evaluation

The licensee proposed three changes to the TS surveillance requirements for the high pressure water fire protection system. The first change proposes to delete the word "system" from the phrase "system functional test" in Section 4.12.A.1.e. The licensee stated that the term "system functional test" is undefined and that the correct term is "functional test." This latter term is defined in the TS and is otherwise used consistently throughout the surveillance requirements.

The second change proposes to delete the reference to an "operating sequence" in Section 4.12.A.1.e.1 pertaining to the automatic actuation of the fire pumps. The licensee states that the phrase is misleading since no sequencing of events occurs. Rather, the pump control circuit is simple and uses only a pressure switch for automatic actuation, and local and remote switches for manual initiation.

The third change proposes to modify Section 4.12.A.1.e.4 that requires sequential testing of the fire pumps. The change would permit non-sequential tests. The phrase "...each pump starts sequentially..." in Section 4.12.A.1.e.4 can be read as the single, continuous decrease in the fire protection system pressure from normal with the observed start of the electric fire pump at 95 psig and the diesel fire pump start at 85 psig. The licensee states that testing in this manner is neither necessary nor desirable when the design basis of the system is considered. Modifying the TS in the proposed manner would remove this ambiguity.

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We have reviewed the licensee's October 28, 1982 submittal. In addition, we have reviewed the applicable portions of the JAFNPP TS and Section 9.8, Fire Protection System, of the JAFNPP Final Safety Analysis Report (FSAR). Based on our review, we find that:

- The proposed deletion of the word "system" from Section 4.12.A.1.e clarifies the surveillance requirement without changing the intent and makes the wording of the specification consistent with similar surveillance requirements.
- The proposed deletion of the term "operating sequence" from Section 4.12.A.1.e.1 clarifies the surveillance requirement without changing the intent of the specification and removes the misleading phrase.
- The proposed change to Section 4.12.A.1.e.4 to permit non-sequential testing of the fire pumps is consistent with the plant design bases as described in Section 9.8 of the JAFNPP FSAR. We find that each pump is fully capable of supplying the anticipated maximum fire flow demand independently and that the design basis did not intend for simultaneous running of both pumps to meet system requirements. In addition, based on our review of the licensee's fire protection program, we conclude that the existing system design complies with the technical requirements of Appendix R to 10 CFR 50 and the fire protection guidelines of Appendix A to BTP ASB 9.5-1. Furthermore, we agree with the licensee that no benefit is derived from testing the pumps in a sequential manner.

Based on our findings, we conclude that the licensee's proposed TS changes are acceptable.

3.0 Environmental Consideration

We have determined that 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, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

4.0 Conclusions

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such

activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: H. Abelson

Dated: May 22, 1984