

August 3, 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. 82 to Facility Operating License No. DPR-59 for the James A. FitzPatrick Nuclear Power Plant. The amendment consists of changes to the Technical Specifications (TSs) in response to one portion of your four part amendment request dated February 25, 1983, as supplemented by your letter of May 3, 1984, regarding surveillance testing of unit coolers serving emergency core cooling system (ECCS) components in the crescent areas of the reactor building. The remaining three parts of your request have been treated as a separate matter.

This amendment revises the existing TS requirements of Section 4.11.B that these unit coolers be tested for operability during the surveillance testing of the associated ECCS pumps. The revised surveillance testing frequency for these coolers is once per three months.

Sincerely,

Original signed by/

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

Enclosures:

1. Amendment No. 82 to License No. DPR-59
2. Safety Evaluation

cc w/enclosures:  
See next page

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Docket File  
NRC PDR  
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DEisenhut  
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TBarnhart (4)  
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ACRS (10)  
OPA, CMiles  
RDiggs  
Gray File  
Extra - 5

DL:ORB#2  
SNorris:ajs  
07/13/84

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DL:ORB#2  
DVassallo  
08/1/84

OELD  
*Godard*  
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DL:AD-OR  
Glathas  
08/1/84

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

cc:

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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. 82  
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 February 25, 1983, as supplemented May 3, 1984, 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. 82, 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: August 3, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 82

FACILITY OPERATING LICENSE NO. DPR-59

DOCKET NO. 50-333

Revise the Appendix "A" Technical Specifications as follows:

Remove

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Insert

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**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 components in the same compartment are made or found to be inoperable, all ECCS components in that compartment shall be considered to be inoperable for purposes of specification 3.5.A, 3.5.C, and 3.5.D.

**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.

**B. Crescent Area Ventilation**

Unit coolers serving ECCS components shall be checked for operability once/3 months

1. When it is determined that two unit coolers serving ECCS components in the same compartment are made or found inoperable, reactor operation may continue for 7 days unless one is made operable earlier.
2. Temperature indicator controllers shall be calibrated once/operating cycle.
3. 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 equipment shall be checked for operability once/week.

1. When it is determined that one battery room ventilation system is inoperable, the remaining ventilation system shall be checked for operability 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

SUPPORTING AMENDMENT NO. 82 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 February 25, 1983, the Power Authority of the State of New York (the licensee) submitted a proposed four part amendment to Facility Operating License No. DPR-59 for the James A. FitzPatrick Nuclear Power Plant, one part of which would change the frequency of the surveillance check for operability of the unit coolers serving the emergency core cooling system (ECCS) components in the East and West Crescent Areas of the reactor building. Specifically, the proposed change in Section 4.11.B of the FitzPatrick Technical Specifications (TSs) surveillance requirement stipulates that these coolers be checked for operability once each three months. This change replaces the existing requirement that these coolers be checked for operability during the surveillance testing of the associated ECCS pumps. By letter dated May 3, 1984, the licensee has provided additional clarifications regarding the proposed change. The remaining three parts of this proposed four part amendment have been treated as a separate action.

2.0 Evaluation

The licensee states in its submittals that the existing requirement on frequency of surveillance tests on these unit coolers requires that they be tested several times a month. This results from the fact that none of the coolers is uniquely associated with any one specific ECCS pump. Instead, each cooler in either of the two crescent areas is associated with all of the ECCS (core spray, residual heat removal (RHR) and high pressure coolant injection (HPCI)) pumps in that area. Therefore, all of the coolers in an individual area collectively ensure proper temperature conditions in that area. The two crescent areas together contain a total of seven ECCS pumps, each of which is required to be tested at least once per month for operability in accordance with the existing FitzPatrick TSs. Each crescent area also contains five unit coolers. In addition, should one of the two core spray pumps or one of the four RHR pumps become inoperable, existing TSs surveillance stipulations will require daily tests on either the operable core spray system pump or all of the remaining RHR pumps, whichever is appropriate. This, in turn, will result in daily tests on all the coolers in applicable areas.

The licensee contends that the existing test frequency for these coolers is excessive and creates an unnecessary operational burden, particularly since personnel must enter these areas to conduct the tests. The licensee further notes, since testing is performed during normal plant operation, frequent entry into the crescent areas to perform those tests conflicts with ALARA considerations on radiological exposure to personnel. Finally, the licensee's submittals state that these coolers are reliable and dependable as evidenced by their operating history.

We have reviewed the existing surveillance requirement on the testing frequency for the unit coolers and the licensee's proposed changes. We have also compared the Standard Technical Specifications (STS) for BWR/4 Reactors, Surveillance Requirement Section 4.5 for the ECCS pumps, to the proposed FitzPatrick TS change. Based on our review of the licensee's submittals and the STS, we conclude the following:

- The coolers are reliable as evidenced by their operating history.
- The units coolers serve the crescent areas during normal plant operation as well as during operation of the ECCS pumps. Because of this continuous service, there is additional assurance that they will be operable during accident situations and perform their intended function.
- We consider it inappropriate to require a more stringent test frequency for the coolers which serve the areas housing the ECCS pumps than that for the pumps themselves. The current staff position on the frequency of surveillance testing of the ECCS pumps for operability as stated in the STS is once per three months. The STS refers to Section XI of the ASME Boiler and Pressure Vessel Code for inservice testing of these pumps which currently specifies a test frequency of once per three months.
- The existing surveillance requirement on the operability of the unit coolers requires an excessive number of tests.
- Performance of the periodic surveillance test requires personnel to enter the crescent areas. Frequent testing, as required by the existing surveillance requirements, may result in unnecessary radiation exposures to personnel, thus conflicting with sound ALARA practices.
- Existing surveillance testing requirements on the ECCS pumps are not changed as a result of the proposed TS revision.

Based on the above considerations, we conclude that the licensee's proposed frequency of tests for operability of the crescent area unit coolers (once per three months) meets the current staff guidelines in this regard, and is therefore acceptable.

### 3.0 Environmental Consideration

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the 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 occupation 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 51.22(c)(9). 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.

### 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: T. Chandrasekaran

Dated: August 3, 1984