



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

February 23, 1994

Docket No. 50-333

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

Dear Mr. Beedle:

SUBJECT: ISSUANCE OF AMENDMENT FOR JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
(TAC NO. M86709)

The Commission has issued the enclosed Amendment No. 205 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 your application transmitted by letter dated May 21, 1993.

The amendment revises the TS Surveillance Requirements and associated Bases for the emergency diesel generator (EDG) fuel oil transfer system and the EDG air starting compressors to clarify that testing of these systems/components can be conducted either concurrently or independently of the monthly EDG tests. The amendment also clarifies the Bases for EDG fuel quality testing.

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

Sincerely,

Brian C. McCabe, Senior Project Manager  
Project Directorate I-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 205 to DPR-59
2. Safety Evaluation

cc w/enclosures:  
See next page

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Mr. Ralph E. Beedle  
Power Authority of the State of New York

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Power Plant

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DATED: February 23, 1994

AMENDMENT NO. 205 TO FACILITY OPERATING LICENSE NO. DPR-59-FITZPATRICK

Docket File

NRC & Local PDRs

PDI-1 Reading

S. Varga, 14/E/4

J. Calvo, 14/A/4

R. Capra

C. Vogan

B. McCabe

OGC

D. Hagan, 3302 MNBB

G. Hill (2), P1-22

C. Grimes, 11/F/23

J. Norberg, 7/E/23

ACRS (10)

OPA

OC/LFDCB

PD plant-specific file

C. Cowgill, Region I

Others as required

cc: Plant Service list



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

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. 205  
License No. DPR-59

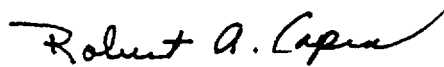
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Power Authority of the State of New York (the licensee) dated May 21, 1993, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's 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. 205, 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: February 23, 1994

ATTACHMENT TO LICENSE AMENDMENT NO. 205

FACILITY OPERATING LICENSE NO. DPR-59

DOCKET NO. 50-333

Revise Appendix A as follows:

Remove Pages

219  
225

Insert Pages

219  
225

JAFNPP

3.9 Continued

2. The Diesel Fuel Oil Transfer System shall be operable whenever the diesel generator it supplies is required to be operable, except as specified below:
  - a. From and after the time that one fuel oil transfer pump per Diesel Generator System is made or found to be inoperable for any reason, continued reactor operation is permissible for a period not to exceed 60 days; provided that the remaining fuel oil transfer pumps are demonstrated to be operable immediately and weekly thereafter.
  - b. From and after the time that only two fuel oil transfer pumps per Diesel Generator System are operable, continued reactor operation is permissible for a period not to exceed 30 days total per pair of diesels, provided that the remaining fuel oil transfer pumps are demonstrated to be operable and daily thereafter.

4.9 Continued

2. Once per month demonstrate the fuel oil transfer system operates to transfer fuel from the storage systems to the fuel oil day tanks.

#### 4.9 BASES

The general objective of this specification is to check equipment operability, detect equipment failures and deterioration.

##### A. Normal and Reserve A-C Power Systems

###### 1. Reserve A-C Power Source

The equipment is normally operated in the stand-by energized condition. Surveillance monitors are provided for determining its normal operability status both while in stand-by or during plant startup and shutdown procedures. Insulation tests are conducted at specified intervals to determine the condition of insulation.

###### 2. Auxiliary Equipment

Mechanical and electrical tests are conducted at specified intervals to assure proper functioning of equipment.

##### B. Emergency A-C Power System

The emergency Diesel Generator Systems are tested monthly to determine functional performance. Test procedures and intervals are specified to check for failure or deterioration in equipment and system operation since last use. Full load applied to the diesel unit is applied to prevent fouling of the engine: operation at equilibrium temperatures ensures there are no overheat problems.

Once per month tests are conducted for support systems independently or as part of monthly diesel generator surveillance: (a) to check the air starting systems for automatic starting of the compressors and their ability to recharge the receivers, (b) to check the fuel oil transfer system to ensure that the transfer pumps will refill the day tanks.

During the operating cycle test, a functional test of the emergency a-c power system is made by simulating a loss-of-coolant accident and a coincident loss of normal and reserve a-c power to the plant for checking proper operation of the system including sequencing of engineered safeguards and for Emergency Core Cooling System equipment.

##### C. Diesel Fuel

Diesel fuel quality is checked at specified intervals to ensure high reliability of engine operation.

The operability of the fuel oil transfer system is demonstrated by partially draining the day tanks, initiating low and low-low level signals to start the lead and backup pumps, respectively, and terminating fuel oil transfer on a high level signal.





UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 205 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 May 21, 1993, the Power Authority of the State of New York (the licensee) submitted a request for changes to the James A. FitzPatrick Nuclear Power Plant Technical Specifications (TS). The requested changes would revise the TS Surveillance Requirements and associated Bases for the emergency diesel generator (EDG) fuel oil transfer system and the EDG air starting compressors to clarify that testing of these systems/components can be conducted either concurrent with or independent of the monthly EDG tests. The changes would also clarify the Bases for EDG fuel quality testing and make an editorial change.

2.0 EVALUATION

The licensee proposed changes to the TS to revise the Surveillance Requirements and associated Bases for the emergency diesel generator (EDG) fuel oil transfer system and the EDG air starting compressors to clarify that testing of these systems and components can be conducted either concurrent with or independent of the monthly EDG tests. The proposed changes also add the acceptance criteria for EDG fuel quality testing to Bases 4.9.C and make an editorial correction.

2.1 Diesel Fuel Oil Transfer Pump Testing

Each diesel generator unit is provided with an independent fuel oil system consisting of a main fuel storage tank, a day tank, and pumps. Two full-capacity motor-driven pumps are provided for filling the day tank from the storage tank.

TS Surveillance Requirement (SR) 4.9.C.2 required performance of the EDG fuel oil transfer system test in conjunction with the monthly EDG test. The licensee proposed to revise SR 4.9.C.2 to allow testing of the diesel fuel oil transfer system either concurrent with or independent of the monthly EDG testing. Concurrent or independent testing of the fuel oil transfer system provides greater flexibility in utilizing plant resources to meet surveillance requirements.

The changes to SR 4.9.C.2 involve no hardware modifications, alteration of system operations, or degradation of system performance. Except for allowing independent testing, there are no changes to the procedures used for testing. Independent system testing will not alter test effectiveness in determining system reliability nor will it alter testing methodology. There is no reduction in the ability of the systems fulfilling their respective functions in mitigating a design basis accident. The change will not alter the level of confidence in system operability or capability. There are no changes to emergency diesel generator fuel oil requirements. The change does not alter the conclusions of existing accident analyses as documented in the Final Safety Analysis Report (FSAR) and NRC Safety Evaluation Report (SER). Therefore, the NRC staff finds that the proposed change is acceptable.

## 2.2 Air Starting Compressors

Each EDG is provided with an independent air starting system. Each EDG's air start system has sufficient capacity for at least 10 successful starts.

SR 4.9.B.2 states that once per month the diesel starting air compressors shall be checked for proper operation and their ability to recharge air receivers. As written, this specification allowed performance of air starting compressor testing at the same time or independent of the monthly EDG test. This is inconsistent with Bases Section 4.9.B which indicates that the air starting compressor test is performed during the EDG test. The licensee proposed to revise the Bases section to reflect both testing and surveillance requirement allowances to test air starting compressors concurrent with or independent of monthly EDG testing.

The proposed changes involve no hardware modifications, alteration of system operations, or degradation of system performance. Except for allowing independent testing, there are no changes to the procedures used for testing. Concurrent or independent testing of the air starting compressors provides greater flexibility in utilizing plant resources to meet surveillance requirements. Independent system testing will not alter test effectiveness in determining air starting compressor reliability nor will it alter testing methodology. The change will not alter the level of confidence in air starting compressor operability or capability. The change does not alter the conclusions of existing accident analyses as documented in the FSAR and NRC SER. Therefore, the NRC staff finds the changes to be acceptable.

## 2.3 Fuel Oil Quality Testing

The licensee evaluated the effect of removing statements regarding micro-organism slime formation and water content from Bases 4.9.C. Based on the evaluation, the licensee concluded that the microorganism check should be deleted because the microorganism check is performed as part of a quarterly check separate from the monthly EDG fuel oil quality test and is not a 4.9.C.1 Surveillance Requirement. Bases 4.9.C also currently provides verification

that the fuel quality is checked at specified intervals to determine water content; however, the water content limits are already contained in SR 4.9.C.1. Therefore, the licensee concluded that references to micro-organism slime formation and water content in Bases 4.9.C are redundant and unnecessary.

The licensee also proposed to add acceptance criteria for EDG fuel quality testing to Bases 4.9.C since the current Bases does not identify the acceptance criteria for EDG fuel oil. The proposed change will revise the Bases Section by adding an operability statement for the fuel oil transfer system. The licensee stated that adding the correct acceptance criteria for the EDG fuel oil will not alter the acceptability of the existing testing requirements or otherwise affect plant safety. This change does not reduce test acceptance criteria or affect acceptance methodology.

The NRC staff finds that the changes will not affect current testing requirements for the EDG fuel oil. Furthermore, deleting the acceptance criteria which are different than or repetitious to those in the stated surveillance requirement will not alter the acceptability of the existing testing requirements or otherwise affect plant safety. This change does not reduce test acceptance criteria or affect acceptance test methodology. There are no changes to the EDG fuel oil requirements and the changes do not alter the conclusions of existing accident analyses as documented in the FSAR and NRC SER. Therefore, the NRC finds the changes to be acceptable.

#### 2.4 Summary

The NRC staff reviewed the information presented by the licensee and concludes that the proposed changes do not adversely affect plant safety and are acceptable.

#### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the New York State official was notified of the proposed issuance of the amendment. The State official had no comments.

#### 4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. The NRC 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 occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding

(58 FR 36443). Accordingly, the 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 the amendment.

#### 5.0 CONCLUSION

The Commission has 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor:

M. Griggs

Date: February 23, 1994

February 23, 1994

Docket No. 50-333

Mr. Ralph E. Beedle  
Executive Vice President - Nuclear Generation  
Power Authority of the State of New York  
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Sincerely,  
Original signed by:  
Brian C. McCabe, Senior Project Manager  
Project Directorate I-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 205 to DPR-59
2. Safety Evaluation

cc w/enclosures:

See next page

# 94-022

PDI-1:LA	PDI-1:PM	NRR/EMEB	NRR/OTSB	OGC	PDI-1:D
CVogan <i>CV</i>	BMcCabe: <i>BM</i> avt	JNerberg	CGrimes <i>CG</i>	S. How	RACapra <i>RA</i>
1/25/94	1/26/94	2/1/94	2/14/94	2/16/94	2/24/94

OFFICIAL DOCUMENT RECORD  
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