



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

August 30, 1995

Mr. William J. Cahill, Jr.  
Chief Nuclear Officer  
Power Authority of the State  
of New York  
123 Main Street  
White Plains, NY 10601

SUBJECT: ISSUANCE OF AMENDMENT FOR INDIAN POINT NUCLEAR GENERATING  
UNIT NO. 3 (TAC NO. M91638)

Dear Mr. Cahill:

The Commission has issued the enclosed Amendment No. 161 to Facility Operating License No. DPR-64 for the Indian Point Nuclear Generating Unit No. 3. The amendment consists of changes to the Technical Specifications (TSs) in response to your application transmitted by letter dated February 23, 1995, as supplemented July 28, 1995.

The amendment revises the minimum emergency diesel generator fuel oil requirements, as indicated in TS Section 3.7 (Auxiliary Electrical Systems), from 7056 to 6671 gallons. The actual minimum fuel oil level had always been 6671 gallons; however, the previous TS limit of 7056 gallons was based on a level indicator that had an accuracy of +/- 385 gallons. This revision clarifies the TS such that any level indicator can now be used as long as an actual minimum level of 6671 gallons is assured.

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,

Jefferey F. Harold, Acting Project Manager  
Project Directorate I-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-286

Enclosures: 1. Amendment No. 161 to  
DPR-64  
2. Safety Evaluation

cc w/encls: See next page

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William J. Cahill, Jr.  
Power Authority of the State  
of New York

Indian Point Nuclear Generating  
Station Unit No. 3

cc:

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

POWER AUTHORITY OF THE STATE OF NEW YORK

DOCKET NO. 50-286

INDIAN POINT NUCLEAR GENERATING UNIT NO. 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 161  
License No. DPR-64

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 February 23, 1995, as supplemented July 28, 1995, 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-64 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. 161, 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

  
Ledyard B. Marsh, 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: August 30, 1995

ATTACHMENT TO LICENSE AMENDMENT NO. 161

FACILITY OPERATING LICENSE NO. DPR-64

DOCKET NO. 50-286

Revise Appendix A as follows:

Remove Pages

3.7-1  
3.7-3a  
3.7-4

Insert Pages

3.7-1  
3.7-3a  
3.7-4

### 3.7 AUXILIARY ELECTRICAL SYSTEMS

#### Applicability

Applies to the availability of electrical power for the operation of plant auxiliaries.

#### Objective

To define those conditions of electrical power availability necessary (1) to provide for safe reactor operation, and (2) to provide for the continuing availability of engineered safety features.

#### Specification

- A. The reactor shall not be brought above the cold shutdown condition unless the following requirements are met:
1. Two physically independent transmission circuits to Buchanan Substation capable of supplying engineered safeguards loads.
  2. 6.9 KV buses 5 and 6 energized from either 138 KV feeder 95331 or 95332.
  3. Either 13.8 KV feeder 13W92 or 13W93 and its associated 13.8/6.9 KV transformer available to supply 6.9 KV power.
  4. The four 480-volt buses 2A, 3A, 5A and 6A energized and the bus tie breakers between buses 5A and 2A, and between buses 3A and 6A, opened.
  5. Three diesel generators operable with a minimum onsite supply of 6671 gallons of fuel in each of the three individual underground storage tanks. In addition to the underground storage tanks, 30,026 gallons of fuel compatible for operation with the diesels shall be available onsite or at the Buchanan substation. This 30,026 gallon reserve is for Indian Point Unit No. 3 usage only

3.7-1

4. Two operable diesel generators together with total underground storage containing a minimum of 6671 gallons of fuel.
- G. When a system, subsystem, train, component or device is determined to be inoperable solely because its emergency power source is inoperable, or solely because its normal power source is inoperable, it may be considered operable for the purpose of satisfying the requirements of its applicable specification provided: (1) its corresponding normal or emergency power source is operable; and (2) all of its redundant system(s), subsystem(s), train(s), components(s) and device(s) are operable or likewise satisfy the requirements of the specification.

Basis

The electrical system equipment is arranged so that no single contingency can inactivate enough safeguards equipment to jeopardize the plant safety. The 480-volt equipment is arranged on 4 buses. The 6900-volt equipment is supplied from 6 buses.

The Buchanan Substation has both 345 KV and 138 KV transmission circuits which are capable of supplying startup, normal operation, shutdown and/or engineered safeguards loads.

The 138 KV supplies or the gas turbines are capable of providing sufficient power for plant startup. Power via the station auxiliary transformer can supply all the required plant auxiliaries during normal operation, if required.

In addition to the unit transformer, four separate sources supply station service power to the plant.<sup>(1)</sup>

The plant auxiliary equipment is arranged electrically so that multiple items receive their power from different buses. Redundant valves are individually supplied from separate motor control centers.

3.7-3a

Amendment No. ~~34~~, ~~38~~, ~~157~~, 161

The bus arrangements specified for operation ensure that power is available to an adequate number of safeguards auxiliaries. With additional switching, more equipment could be out of service without infringing on safety.

Two diesel generators have sufficient capacity to start and run within design load the minimum required engineered safeguards equipment.<sup>(1)</sup> The minimum onsite underground stored diesel fuel oil inventory is maintained at all times to assure the operation of two diesels carrying the minimum required engineered safeguards equipment load for at least 48 hours.<sup>(2)</sup> The minimum required storage tank volume (when above cold shutdown) of 6671 gallons is the minimum volume required when sounding the tanks to obtain level information. This volume includes allowances for fuel not usable due to the oil transfer pump cutoff switch (760 gallons) and a safety margin (20 gallons). If the installed level indicators are used to measure tank volume, 6721 gallons of oil (6671 gallons plus the 50 gallon uncertainty associated with the level indicators) must be in each storage tank.

When in cold shutdown, two diesel generators must be operable with a total underground storage of 6671 gallons of fuel oil. The same methodology used to measure fuel volume above cold shutdown should be used. Additional fuel oil suitable for use in the diesel generators will be stored either on site or at the Buchanan Substation. The minimum storage of 30,026 gallons of additional fuel oil will assure continuous operation of two diesels at the minimum engineered safeguards load for a total of 7 days. A truck with hosing connections compatible with the underground diesel fuel oil storage tanks is available for transferal of diesel oil from storage areas either on site or at the Buchanan Substation. Commercial oil supplies and trucking facilities are also available.

Periodic diesel outages will be necessary to perform the corrective maintenance required as a result of previous tests or operations and the preventive maintenance recommended by the manufacturer. If a diesel generator is out of service due to preplanned preventive maintenance or testing, special surveillance testing of the remaining diesel generators is not required because the required periodic surveillance testing suffices to provide assurance of their operability. The fact that preplanned corrective maintenance is sometimes performed in conjunction with this preventive maintenance or testing does not necessitate that the remaining diesels be tested, because this corrective maintenance is on defects or potential defects that never called diesel operability into question. If a diesel generator defect or operability concern is discovered while performing this preplanned preventive maintenance or testing, the concern or defect is evaluated to determine if the same concern or defect could render the remaining diesel generators inoperable. Unless this evaluation determines that the potential for the defect or concern to effect the remaining diesel generators has been eliminated, performance of a surveillance test on each of the remaining diesel generators provides adequate assurance of their operability.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 161 TO FACILITY OPERATING LICENSE NO. DPR-64  
POWER AUTHORITY OF THE STATE OF NEW YORK  
INDIAN POINT NUCLEAR GENERATING UNIT NO. 3  
DOCKET NO. 50-286

1.0 INTRODUCTION

By letter dated February 23, 1995, as supplemented July 28, 1995, the Power Authority of the State of New York (the licensee) submitted a request for changes to the Indian Point Nuclear Generating Unit No. 3 (IP3) Technical Specifications (TSs). The requested changes would revise the minimum emergency diesel generator (EDG) fuel oil requirements, as indicated in TS Section 3.7 (Auxiliary Electrical Systems), from 7056 to 6671 gallons. The actual minimum fuel oil level has always been 6671 gallons; however, the current TS limit of 7056 gallons was based on a level indicator that had an accuracy of +/- 385 gallons. The proposed revision would clarify the TS such that any level indicator could now be used as long as an actual minimum level of 6671 gallons was assured. The July 28, 1995, letter provided clarifying information that did not change the initial proposed no significant hazards consideration determination or expand the scope of the original Federal Register Notice.

2.0 EVALUATION

IP3 has three EDGs, each of which has an associated fuel oil storage tank with a total capacity of 7700 gallons. The minimum fuel oil capacity requirement, which is 6671 gallons, assures that sufficient fuel is available to operate two EDGs, and thus power the minimum safeguards equipment for 48 hours. This minimum fuel oil level requirement is based on an unusable volume of 760 gallons to protect the fuel oil transfer pump from the damaging effects of vortexing and a usable volume of 5891 gallons.

The current minimum fuel oil level requirement, as indicated in TS 3.7.A.5, is 7056 gallons. This volume was based on the 6671 gallons as discussed above and the accuracy of one specific type of level indicator (+/- 385 gallons) which was installed at the time. The licensee has subsequently replaced that level indicator with a different type having an accuracy of +/- 50 gallons.

The licensee's proposed change would establish a minimum EDG fuel oil level requirement in the TS which would be independent of the accuracy of the specific level indicator in use. The actual minimum fuel oil level required would remain unchanged at 6671 gallons. Consistent with the discussion above, TS 3.7.F.4, which is minimum EDG fuel oil level requirement for the Cold

Shutdown and Refueling operating conditions, would also be changed to require a minimum of 6671 gallons of fuel oil. In addition, the associated TS Bases would be changed to include an explanation of the different methods available to measure the EDG fuel oil tank levels.

The NRC staff has reviewed the information submitted by the licensee and concludes that the proposed change is acceptable. This conclusion is based on the fact that the actual minimum EDG fuel oil tank level is not being changed, and thus the design basis of the EDGs is not being changed by this amendment.

### 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. 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 (60 FR 16196). 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: N. F. Conicella

Date: August 30, 1995

August 30, 1995

Mr. William J. Cahill, Jr.  
Chief Nuclear Officer  
Power Authority of the State  
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123 Main Street  
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Sincerely,

Original signed by:

Jefferey F. Harold, Acting Project Manager  
Project Directorate I-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Docket No. 50-286

- Enclosures: 1. Amendment No.161 to DPR-64
- 2. Safety Evaluation

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DATED: August 30, 1995

AMENDMENT NO. 161 TO FACILITY OPERATING LICENSE NO. DPR-64-INDIAN POINT UNIT 3

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