

Mr. James Knubel
Chief Nuclear Officer
Power Authority of the State
of New York
123 Main Street
White Plains, NY 10601

August 9, 1999

SUBJECT: ISSUANCE OF AMENDMENT FOR INDIAN POINT NUCLEAR GENERATING
UNIT NO. 3 RE: EXTENSION OF ALLOWED OUTAGE TIME FOR 32
EMERGENCY DIESEL GENERATOR ON A ONE-TIME BASIS (TAC NO. MA5719)

Dear Mr. Knubel:

The Commission has issued the enclosed Amendment No. 190 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 in response to your application transmitted by letter dated June 4, 1999. The amendment extends the allowed outage time for the 32 emergency diesel generator and its fuel oil storage tank from 72 hours to 7 days on a one-time basis.

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,

Original signed by:

George F. Wunder, Project Manager, Section 1
Project Directorate 1
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Docket No. 50-286

Enclosures: 1. Amendment No. 190 to DPR-64
2. Safety Evaluation

cc w/encls: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

August 9, 1999

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123 Main Street
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Docket No. 50-286

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Unit No. 3

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DATED: August 9, 1999

AMENDMENT NO. 190 TO FACILITY OPERATING LICENSE NO. DPR-64-INDIAN POINT
UNIT 3

Docket File

PUBLIC

PDI Reading

J. Zwolinski/S. Black

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W. Beckner, 013/H15

Z. Abdullahi

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ACRS

M. Opredek, Region I

R. Scholl (e-mail SE only)

cc: Plant Service list

DATED: August 9, 1999

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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. 190
License No. DPR-64

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 June 4, 1999, 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. 190 , 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



S. Singh Bajwa, Chief, Section 1
Project Directorate I
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical Specifications

Date of Issuance: August 9, 1999

ATTACHMENT TO LICENSE AMENDMENT NO. 190

FACILITY OPERATING LICENSE NO. DPR-64

DOCKET NO. 50-286

Replace the following page of the Appendix A Technical Specifications with the attached revised page. The revised page is identified by amendment number and contain marginal lines indicating the areas of change.

Remove Page

3.7-2

Insert Page

3.7-2

and is in addition to the fuel requirements for other nuclear units on the site.

6. Three batteries plus three chargers and the D.C. distribution systems operable.
 7. No more than one 120 volt A.C. Instrument Bus on the backup power supply.
- B. The requirements of 3.7.A may be modified to allow any one of the following power supplies to be inoperable at any one time.
1. One diesel or any diesel fuel oil system or a diesel and its associated fuel oil system may be inoperable for up to 72 hours* provided the 138 KV and the 13.8 KV sources of offsite power are available, and the engineered safety features associated with the remaining diesel generator buses are operable. If the inoperable diesel generator became inoperable due to any cause other than preplanned maintenance or testing, then within 24 hours, either:
 - a. Determine by evaluation, that the remaining operable diesel generators are not inoperable due to common-cause failure.

OR

- b. Verify by testing, that the remaining diesel generators are operable.
2. The 138 KV or the 13.8 KV sources of power may be inoperable for 48 hours provided the three diesel generators are operable. This operation may be extended beyond 48 hours provided the failure is reported to the NRC within the 48 hour period with an outline of the plans for restoration of offsite power and NRC approval is granted.

*32 diesel generator fuel oil storage tank may be inoperable and the 32 diesel generator may be declared technically inoperable, but available and capable of automatic start, for up to 7 days, one-time if needed, during 1999 and prior to Refueling Outage RO-10. This condition may only be invoked to inspect/repair the 32 diesel fuel oil storage tank if deemed necessary based on concerns with water in-leakage. The following additional requirements shall also be met to invoke this extended one-time allowed outage time: (1) performance of offsite power source switching or maintenance evolutions for technical specification required offsite power sources shall not be scheduled during this 32 FOST outage, and (2) this 32 FOST outage shall not be scheduled during predicted severe weather.

3.7-2

Amendment No. 34, 54, 132, 187, 190



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 190 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 June 4, 1999, the Power Authority of the State of New York proposed a change to Indian Point Nuclear Generating Unit No. 3 (IP3) Technical Specification (TS) 3.7.B.1 to extend the allowed outage time (AOT) for 32 emergency diesel generator (EDG) and its fuel oil storage tank (FOST) from 72 hours to 7 days. The proposed change would be applicable for only one time in 1999, prior to Refueling Outage (RO)-10, if needed, to allow for potential corrective maintenance repair to the 32 EDG FOST. These repairs could take longer than the current 72 hours AOT.

2.0 SAFETY EVALUATION

The fuel oil system of the three EDGs (31, 32, and 33) at IP3 is designed to provide individual FOSTs for each of the EDGs. These individual underground FOSTs are each equipped with a single vertical fuel oil transfer pump that discharges oil into either of two headers, normal and emergency. Both of these headers connect to 175-gallon fuel oil day tanks with 1 day tank dedicated to each of the three diesel engines. When the associated day tank level drops to 90 percent, the day tank inlet valves open. Upon decrease in level in any one of the 3-day tanks to the 65 percent level, an automatic start of the respective fuel oil transfer pump for that day tank would occur. Since each fuel pump is capable of supplying fuel oil to all three diesel engines via their respective day tanks, this arrangement assures the availability of fuel oil to each EDG.

The 32 EDG FOST experienced water in-leakage on two occasions in 1998, during routine sampling. In each case, this water was pumped out and did not create an operability issue. Repair of this FOST is scheduled for the next RO-10, which is expected to start in September 1999. If there is further water in-leakage between now and the start of RO-10, however, corrective maintenance on this tank may be necessary before the outage begins. The 32 FOST may need to be opened, drained, repaired, and tested prior to the start of RO-10. These repairs could take longer than the current 72 hours AOT.

TS 3.7.B.1 currently allows 72 hours for one EDG and/or EDG FOST to be inoperable when above cold shutdown, provided that offsite power sources are available, Engineered Safety Features associated with the remaining EDGs are operable and the remaining EDGs are

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available. The licensee has proposed to extend the AOT for 32 EDG and its FOST from 72 hours to 7 days. The proposed change will add the following note to TS 3.7.B1:

“32 diesel generator fuel oil storage tank may be inoperable and the 32 diesel generator may be declared technically inoperable, but available and capable of automatic start, for up to 7 days, one-time if needed, during 1999 and prior to Refueling Outage RO-10. This condition may only be invoked to inspect/repair the 32 diesel fuel oil storage tank if deemed necessary based on concerns with water in-leakage. The following additional requirements shall also be met to invoke this extended one-time allowed outage time: (1) performance of offsite power source switching or maintenance evolutions for technical specification required offsite power sources shall not be scheduled during this 32 FOST outage, and (2) this 32 FOST outage shall not be scheduled during predicted severe weather.”

The proposed change would be applicable for only one time in 1999, prior to RO-10, if needed, to allow for potential corrective maintenance repair to the 32 EDG FOST. Since this repair is presently scheduled in RO-10, which is expected to start in September 1999, the proposed AOT extension would allow the licensee to repair the 32 FOST on-line, should tank repair be deemed necessary, in order to avoid an unnecessary shutdown of the plant before RO-10 begins. Although 32 EDG is declared technically inoperable during the proposed AOT, the EDG would be considered available and capable of an automatic start. This is because, even if its associated FOST and fuel oil transfer pump are not available for the term of this corrective maintenance, 32 EDG is able to have its fuel oil day tank supplied from another FOST (either 31 or 33) via the normal or emergency fuel oil supply header. The two remaining FOSTs are designed to supply fuel oil to all 3 EDGs via the fuel oil supply headers to each of the three EDG fuel oil day tanks.

In the event of an extended design bases accident requiring all three EDGs actuation, additional fuel would be required within the 48 hours and 168 hours of the design bases required time frame to ensure continuous operation of the minimum safeguards loads. The licensee can obtain the needed additional fuel in the required time frame to ensure continued EDG operation to minimum shutdown loads as necessary. The licensee has various EDG fuel supply sources available to support the extended fuel oil needs for all three EDGs, if required. Further, System Operating Procedure SOP-EL-1, “Diesel Generator Operation,” has back up provision for operator action in filling the 32 EDG fuel oil day tank from the 31 or 33 EDG FOST to ensure that the 32 EDG can receive the necessary fuel oil and perform its intended function, if required.

The licensee has stated that it will not schedule any switching or perform any maintenance on the required 138 kV and 13.8 kV offsite sources. Moreover, the licensee will not schedule this extended 32 FOST AOT during severe weather conditions. The above actions will minimize the potential of losing offsite power sources during the extended AOT.

Additionally, the licensee has performed site-specific probabilistic risk assessment (PRA) calculations of the proposed one-time increased AOT duration of 7 days to quantify the risk. The PRA evaluation determined that the conditional core damage probability for this scenario will be less than the threshold value of 1E-6.

Based on the above, the NRC staff concludes that the proposed one-time TS change to extend the AOT for 32 EDG and its associated FOST from the current 72 hours to 7 days, if needed, prior to RO-10 is 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. 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 (64 FR 36408). 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: O. Chopra

Date: August 9, 1999