

MARCH 29 1979

Docket Nos. ~~50-3~~
and 50-247

Mr. William J. Cahill, Jr.
Vice President
Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York, New York 10003

Dear Mr. Cahill:

The Commission has issued the enclosed Amendment No. ²⁵ to Facility License No. DPR-5 for Indian Point Station, Unit No. 1 and Amendment No. 53 to Facility License No. DPR-26 for the Indian Point Nuclear Generating Plant, Unit No. 2. These amendments consists of changes to the Technical Specifications in response to your request dated September 14, 1978.

These amendments revise the Technical Specifications to allow continuous chlorination of the plant discharge from the new Sewage Treatment Facility.

We have evaluated the potential for environmental impact of plant operation in accordance with the enclosed amendments. Since the amount of chlorine in the Sewage Treatment Facility effluent is small enough to be adsorbed or combined in the plant discharge canal, there will be no chlorine residual discharged to the river. Therefore, we have determined that the amendments do 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 amendments involve 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, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

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OFFICE →						
SURNAME →						
DATE →						

Mr. William J. Cahill, Jr.

- 2 -

Since the amendments apply only to non radioactive plant effluents, they do not involve significant new safety information of a type not considered by a previous Commission safety review of the facility. They do not involve a significant increase in the probability or consequences of an accident, do not involve a significant decrease in a safety margin, and therefore do not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

A copy of the related Notice of Issuance is also enclosed.

Sincerely,

Original Signed By

A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosures:

- 1. Amendment No. 25 to DPR-5
- 2. Amendment No. 53 to DPR-26
- 3. Notice of Issuance

cc w/enclosures:
See next page

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

March 29, 1979

Docket Nos. 50-3
and 50-247

Mr. William J. Cahill, Jr.
Vice President
Consolidated Edison Company
of New York, Inc.
4 Irving Place
New York, New York 10003

Dear Mr. Cahill:

The Commission has issued the enclosed Amendment No. 25 to Facility License No. DPR-5 for Indian Point Station, Unit No. 1 and Amendment No. 53 to Facility License No. DPR-26 for the Indian Point Nuclear Generating Plant, Unit No. 2. These amendments consists of changes to the Technical Specifications in response to your request dated September 14, 1978.

These amendments revise the Technical Specifications to allow continuous chlorination of the plant discharge from the new Sewage Treatment Facility.

We have evaluated the potential for environmental impact of plant operation in accordance with the enclosed amendments. Since the amount of chlorine in the Sewage Treatment Facility effluent is small enough to be adsorbed or combined in the plant discharge canal, there will be no chlorine residual discharged to the river. Therefore, we have determined that the amendments do 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 amendments involve 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, negative declaration or environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

Mr. William J. Cahill, Jr.

- 2 -

March 29, 1979

Since the amendments apply only to non-radioactive plant effluents, they do not involve significant new safety information of a type not considered by a previous Commission safety review of the facility. They do not involve a significant increase in the probability or consequences of an accident, do not involve a significant decrease in a safety margin, and therefore do not involve a significant hazards consideration. We have also concluded that there is reasonable assurance that the health and safety of the public will not be endangered by this action.

A copy of the related Notice of Issuance is also enclosed.

Sincerely,



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosures:

1. Amendment No. 25 to DPR-5
2. Amendment No. 53 to DPR-26
3. Notice of Issuance

cc w/enclosures:
See next page

Mr. William J. Cahill, Jr.
Consolidated Edison Company of New York, Inc. -3 - March 29, 1979

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U. S. Environmental Protection Agency
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U. S. Environmental Protection Agency
Region II Office
ATTN: EIS COORDINATOR
26 Federal Plaza
New York, New York 10007



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

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DOCKET NO. 50-3

INDIAN POINT STATION, UNIT NO. 1

AMENDMENT TO PROVISIONAL OPERATING LICENSE

Amendment No. 25
License No. DPR-5

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Consolidated Edison Company of New York, Inc. (the licensee) dated September 14, 1978, 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.

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2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 3.B of Provisional Operating License No. DPR-5 is hereby amended to read as follows:

(B) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 25, 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



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 29, 1979



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

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

DOCKET NO. 50-247

INDIAN POINT NUCLEAR GENERATING UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 53
License No. DPR-26

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Consolidated Edison Company of New York, Inc. (the licensee) dated September 14, 1978, 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:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 53, 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



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 29, 1979

ATTACHMENT TO LICENSE AMENDMENT NOS. 25, 53 AND 25
TO THE TECHNICAL SPECIFICATIONS
PROVISIONAL OPERATING LICENSE NO. DPR-5
AND FACILITY OPERATING LICENSE NOS. DPR-26 AND DPR-64
DOCKET NOS. 50-3, 50-247 AND 50-286

Replace the following pages of the Appendix "B" Environmental Technical Specifications with the enclosed pages. The revised pages are identified by amendment numbers in the lower left corner. Since these pages are common to the Technical Specifications in all the Indian Point Units, the amendment numbers applicable to each Unit are listed on each page. Vertical lines in the right margin indicate the area of change associated with this amendment action.

Remove

2.3-2
2.3-3
2.3-4

Replace

2.3-2
2.3-3
2.3-4

2.0 LIMITING CONDITIONS FOR OPERATION

Chlorination of the Circulating Water System (CWS) and Sewage Treatment Plant Effluent Applicability

Applies to the release of residual chlorine from Indian Point Units Nos. 1, 2 and 3.

Objective

To limit the amount and concentration of residual chlorine discharged to the Hudson River from Indian Point Units Nos. 1, 2 and 3.

Specification

2.3.1.1 Should the CWS be chlorinated, the maximum frequency of chlorination for the condensers of each Unit shall be limited to three (3) times per week. The duration of any one condenser chlorination period shall not exceed one hour with a maximum of two (2) chlorinations per twenty-four hour period. The total time for chlorination of three Units shall not exceed nine (9) hours per week. Chlorination shall take place during daylight hours.

2.3.1.2 No discharge of total residual chlorine is allowed from the condenser cooling system at one Unit while the condenser cooling system at another Unit is being chlorinated. The effluent from the Sewage Treatment Facility shall be chlorinated at all times.

3.0 MONITORING REQUIREMENTS

3.3.1 Chlorination of the Circulating Water System (CWS) and Sewage Treatment Plant Effluent Applicability

Applies to monitoring of the amount and concentration of the total residual chlorine in the discharge water.

Objective

To monitor the amount and concentration of total residual chlorine in the discharge water and timing and duration of chlorination treatment of the condenser cooling system.

Specification

3.3.1.1a During periods of condenser chlorination, samples of circulating water shall be taken to measure total residual chlorine at both the condenser outlet water box and at the confluence of the discharge canal with the Hudson River. The samples for measurement at the condenser water box are taken 5 minutes before and 5 minutes after the start of chlorination, and at approximately 10 minute intervals while chlorination is taking place.

3.3.1.1b The effluent from the Sewage Treatment Facility shall be periodically monitored for total residual chlorine

3.3.1.2 Samples shall be taken at one (1) meter depth and three (3) meter depth at the discharge point of confluence with the Hudson River at the frequency in Specification 3.3.1.1a to assure that representative samples of chlorinated water being discharged into the Hudson River are being collected and analyzed. Measurements under 3.3.1.1b shall be taken at the point of discharge from the Sewage Treatment Facility.

2.3.1 Specification (Continued)

2.3.1.3 Routine condenser chlorination shall be suspended when the intake water temperature is less than 45°F.

2.3.1.4 Condenser chlorination treatment shall be controlled such that the maximum concentrations of the total residual chlorine in the cooling water discharged at the confluence of the discharge canal with the Hudson River shall not exceed 0.5 ppm nor an average of 0.2 ppm during a maximum of 2 one-hour periods a day. Practicable measures to reduce these releases to lower concentration levels shall be taken. Chlorination treatment of the Sewage Treatment Facility shall be controlled such that the maximum concentrations of total residual chlorine in the effluent being discharged from the sewage treatment facility shall not exceed 2 ppm.

2.3.1.5 The dates, times and duration of condenser chlorination, the amount, and concentration measure shall be logged.

3.3.1 Specification (Continued)

3.3.1.3 Total residual chlorine shall be measured using a method approved by ASTM or Standard Methods. Concentrations in samples for total residual chlorine shall be measured with an accuracy of ± 0.1 ppm of the limit of 2.0 and 0.5 ppm and with a precision of ± 0.05 ppm.

3.3.1.4 Chlorine demand shall be taken at the plant intake by collecting samples within two hours prior to chlorination of the condensers.

3.3.1.5 During and after chlorination treatment of the condensers, the chlorine discharge shall be visually inspected for evidence of any detrimental effects on aquatic life, such as dead fish or fish in distress. Such evidence shall be noted and a record of such evidence shall be maintained with the records of the amount, time and dates of chlorination.

2.0 LIMITING CONDITIONS FOR OPERATION

2.1.1.1 Specification (Continued)

2.1.1.6 The chlorine demand shall be determined at the rate of once per week within two hours prior to chlorination of the condensers.

2.1.1.7 If levels exceeding that in Specification 2.1.1.4 are exceeded, corrective action shall consist of reducing the chlorine injection rate.

Bases

Of special concern ecologically is the potential damage to the river organisms from exposure to residual chlorine, including chloramines formed by reaction between chlorine or hypochlorite ions and nitrogenous compounds, during and after the periodic chlorination of the circulating water system. Chlorination treatment of the sewage treatment plant involves the use of approximately 0.3 lb/day of chlorine, chlorination treatment of the condensers involves the use of approximately a 15% sodium hypochlorite solution (390 lb/day average) at a rate of 5 gpm for dosing at any

3.0 MONITORING REQUIREMENTS

3.3.1 Specification (Continued)

3.3.1.6 During the first year of operations of Unit No. 3 details of the chlorine monitoring program shall be reported in the Annual Environmental Operating Report.

Bases

The samples of residual chlorine (free and combined) are taken during the chlorination treatment so as to obtain representative sampling of the chlorinated discharges. The samples will be analyzed by an appropriate method of analysis which will ensure accurate results and will allow for complete documentation of residual chlorine (free and combined) in the circulating water system and receiving waters.

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UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NOS. 50-3, 50-247, AND 50-286

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

POWER AUTHORITY OF THE STATE OF NEW YORK

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 25 and 53 to Provisional Operating License No. DPR-5 and Facility Operating License No. DPR-26 issued to Consolidated Edison Company of New York, Inc. and Amendment No. 25 to Facility Operating License No. DPR-64 issued to Power Authority of the State of New York (the licensees), which revised Technical Specifications for operation of the Indian Point Station, Unit No. 1 and Indian Point Generating Plant, Unit Nos. 2 and 3 (the facilities) located in Buchanan, Westchester County, New York. The amendment is effective as of the date of issuance.

These amendments revised the Technical Specifications to allow continuous chlorination of the plant discharge from the new Sewage Treatment Facility.

The applications for the amendment comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of these amendments were not required since the amendments did not involve a significant hazards consideration.

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- 2 -

The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to this action, see (1) the application for amendment dated September 14, 1978; (2) Amendment Nos. 25, 53, and 25 to DPR-5, DPR-26, and DPR-64, respectively; and (3) the Commission's letter dated March 29, 1979. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the White Plains Public Library, 100 Martine Avenue, White Plains, New York. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 29th day of March, 1979.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors