October 21, 1991

Docket No. 50-286

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 INDIAN POINT NUCLEAR GENERATING UNIT NO. 3 (TAC NO. 80070)

The Commission has issued the enclosed Amendment No. 110 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 (TS) in response to your application transmitted by letter dated March 28, 1991.

The amendment revises TS Tables 3.14-1 and 3.14-2 to include requirements on the smoke detectors and hose stations located in the new intake structure building. The amendment also makes miscellaneous corrections to TS Table 3.14-1 and re-paginates Section 3.14.

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:
Nicola F. Conicella, Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:
1. Amendment No. 110 to DPR-64
2. Safety Evaluation

cc w/enclosures:
See next page

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

October 21, 1991

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Executive Vice President - Nuclear Generation
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White Plains, New York 10601

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The amendment revises TS Tables 3.14-1 and 3.14-2 to include requirements on the smoke detectors and hose stations located in the new intake structure building. The amendment also makes miscellaneous corrections to TS Table 3.14-1 and re-paginates Section 3.14.

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Sincerely,

N. F. Conicella

Nicola F. Conicella, Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:
1. Amendment No. 110to DPR-64
2. Safety Evaluation

cc w/enclosures:
See next page

Mr. Ralph E. Beedle
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

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. 110
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 March 28, 1991, 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. 110, 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

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: October 21, 1991

ATTACHMENT TO LICENSE AMENDMENT NO. 110

FACILITY OPERATING LICENSE NO. DPR-64

DOCKET NO. 50-286

Revise Appendix A as follows:

| Remove Pages | Insert Pages |
|---|---|
| 3.14-2 | 3.14-2 |
| 3.14-3 | 3.14-3 |
| 3.14-4 | 3.14-4 |
| 3.14-5 | 3.14-5 |
| 3.14-6 | 3.14-6 |
| 3.14-7 | 3.14-7 |
| | 3.14-8 |
| — | 3.14-9 |
| — | 3.14-10 |
| — | 3.14-11 |
| — | |

d. If the requirement of 3.14.A.3.a cannot be satisfied within the time period specified, the reactor shall be placed in the hot shutdown condition utilizing normal operating procedures. If the requirement of 3.14.A.3.a cannot be satisfied within an additional 48 hours, the reactor shall be placed in the cold shutdown condition utilizing normal operating procedures.

B. Fire Protection Spray and/or Sprinkler Systems

1. The following spray and/or sprinkler systems shall be operable whenever equipment in the area is required to be operable in accordance with Section 3 of the Technical Specifications:

   a. Electrical Tunnel Fire Protection Water Sprinkler System (El-34' and El-43').
   b. Diesel Generator Building Water Sprinkler System (El-15' in D.G. Building).
   c. Containment Fan Cooler Charcoal Filter Dousing System (El-68' in Containment).

2. If the requirements of 3.14.B.1 cannot be satisfied and the equipment in the area is required to be operable:

   a. A continuous fire watch with backup fire suppression equipment shall be established for the accessible unprotected area(s) within 1 hour.

   b. The inoperable spray and/or sprinkler system(s) shall be restored to operable status within 14 days or a Special Report shall be prepared and submitted to the Commission pursuant to specification 6.9.2.f within the next 30 days outlining the cause of inoperability and the plans for restoring the system(s) to operable status.

C. Penetration Fire Barriers

1. The following penetration fire barriers shall be functional at all times when the equipment in these areas are required to be operable in accordance with Section 3 of the Technical Specifications:

   a. Penetration fire barriers between the central control room floor and the cable spreading room.

   b. Penetration fire barriers between the 480 V switchgear room and the cable spreading room.

   c. Penetration fire barriers separating the diesel generator compartments from each other and from the Control Building.

d. Penetration fire barriers separating the Control Building from the Turbine Building.

e. Penetration fire barriers separating the Cable Spreading Room from the Electrical Tunnels.

2. If the requirements of 3.14.C.1 are not met and the equipment in these areas are required to be operable:

   a. within one (1) hour, either

      i. Verify the operability of fire detectors on at least one side of the non-functional fire barrier and establish an hourly fire watch patrol, or

      ii. establish a continuous fire watch on at least one side of the affected fire barrier penetration

   b. Restore the non-functional fire barrier penetration(s) to functional status within 7 days or submit a report to the Commission pursuant to specification 6.9.2.f within the next 30 days outlining the action taken, the cause of the non-functional penetration and plans for restoring the fire barrier penetration(s) to functional status.

D. Fire Detection Systems

1. As a minimum, the fire detection instrumentation for each location shown in Table 3.14-1 shall be operable whenever equipment in that location is required to be operable in accordance with Section 3.0 of the Technical Specification.

2. With the number of operable fire detection instruments less than the minimum required by Table 3.14-1 and the equipment in that location is required to be operable:

   a. A fire watch patrol shall be established within 1 hour where accessibility permits to inspect the location(s) with less than the minimum operable instrumentation at a frequency of at least once per hour.

   b. The minimum operable instrumentation required in Table 3.14-1 shall be restored within 14 days or a Special Report shall be prepared and submitted to the Commission pursuant to specification 6.9.2.f within the next 30 days outlining the cause of the malfunction and the plans for restoring the instrumentation to operable status.

E. Fire Hose Stations

1. The fire hose stations shown in Table 3.14-2 shall be operable whenever equipment in the area is required to be operable in accordance with Section 3.0 of the Technical Specifications.

2. If the requirements of 3.14.E.1 cannot be satisfied and the equipment in the area is required to be operable, an additional equivalent capacity hose shall be routed to the affected area from an operable hose station within one hour or suitable portable fire fighting equipment made available at the location.

3. Should any fire hose station listed in Table 3.14-2 not be restored to operable status within 14 days, a special report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2.f within the next 30 days outlining the cause of the malfunction and the plans for restoring the fire station to operable status.

F. Yard Fire Hydrants and Hydrant Hose Houses

1. The yard fire hydrants and associated hydrant hose houses shown in Table 3.14-3 shall be operable while the unit is above cold shutdown.

2. With one or more of the yard fire hydrants or associated hydrant hose houses shown in Table 3.14-3 inoperable, within 1 hr. have sufficient additional lengths of 2 1/2 inch diameter hose located in an adjacent operable hydrant hose house to provide service to the unprotected area(s).

3. Restore the inoperable yard hydrants to service within 14 days or a Special Report shall be prepared and submitted to the commission pursuant to Specification 6.9.2.F within the next 30 days outlining the cause of inoperability and the plans for restoring the hydrant to operable status.

G. $CO_2$ Fire Protection System

1. As a minimum, one $CO_2$ Storage Tank shall be available with a minimum level of 60% and a minimum pressure of 275 psi to supply safety related areas whenever equipment in these areas are required to be operable in accordance with Section 3.0 of the Technical Specifications.

2. $CO_2$ System Fire Protection shall be available to the following safety related areas whenever equipment in those areas are required to be operable in accordance with Section 3.0 of the Technical Specifications.

   a. Control Building (EL-33') - Cable Spreading Room
   b. Control Building (EL-15') - Switchgear Room
   c. Diesel Generator Building (EL-15')

3. If the requirements of 3.14.G.1 and 3.14.G.2 cannot be satisfied and the equipment in the areas is required to be operable:

   a. A continuous fire watch with backup fire suppression equipment shall be established for the accessible unprotected area(s) within 1 hour.

   b. If the requirement of 3.14.G.1 and 3.14.G.2 are not satisfied within 14 days, a special report shall be prepared and submitted to the commission pursuant to specification 6.9.2.f within the next 30 days outlining the cause of inoperability and the plans for restoring the $CO_2$ system to operable status.

Basis

Containment is not considered normally accessible during plant operation.

These specifications are established to assure the operability of fire protection and detection systems provided to protect equipment utilized for safe shutdown of the unit. The fire protection and detection systems installed at IP3, conform to Appendix A of Branch Technical Position (BTP) APCSB 9.5.1 "Fire Protection for Nuclear Power Plants", as approved by the NRC Regulatory Staff on March 6, 1979 as Amendment No. 24 to facility operating license No. DPR-64, and supplements thereto. Also, the $CO_2$ System Fire Protection availability by definition shall be interpreted to mean with the system in either the automatic or manual mode of operation with the automatic mode as the primary mode of operation.

TABLE 3.14-1 (Sheet 1 of 2)

| FIRE DETECTION INSTRUMENTS | | | |
|---|---|---|---|
| Instrument Location | Minimum Instruments Operable | | |
| | Heat | Smoke (ionization detectors) | Flame (Ultra violet) |
| 1. Cable Spreading Room (Control Building: El-33') | | 7 | |
| 2. Switchgear Room (Control Building: El-15') | | 7 | |
| 3. Electrical Tunnels | | | |
| Upper (El-43') | 69* | 4 | |
| Lower (El-34') | 66* | 4 | |
| 4. Electrical Penetration Areas: | | | |
| Upper (Fan House: El-46') | 33* | 3 | |
| Lower (Fan House: El-34') | 17* | 4 | |
| 5. Diesel Generator Building (El-15') | 4 per D.G. | | |
| 6. Containment Fan Cooler Units (Containment: El-68') | 4 per FC Unit | | |
| 7. Primary Auxiliary Building | | | |
| a. Corridor: El 55' | | 7 | |
| b. MCC Nos. 36A, 36B, 37, El 55' (Underfloor Area) | | 5 | |
| c. CS Pump Area El 41' | | 2 | |
| d. Component Cooling Pump Area | | 4 | |
| e. RHR Pumps El 15' | | 1 per RHR Pump cubicle | |
| f. Charging Pump Rooms | | 2 | |
| 8. Aux. Feed Pump Building | | 1 | |
| 9. Battery Room No. 31 | | | 1 |
| " " 32 | | | 1 |
| Battery Area 33 | | | 1 |
| 10. Fan House: El 41' and 51' (Pipe Penetration Area) | | 5 | |

TABLE 3.14-1 (Sheet 2 of 2)

| FIRE DETECTION INSTRUMENTS | | | |
|---|---|---|---|
| Instrument Location | Minimum Instruments Operable | | |
| | Heat | Smoke (ionization detectors) | Flame (Ultra violet) |
| 11. Control Room | | | |
| Supervisory Panel | | 2 | |
| Flight Panel | | 1 | |
| Ceiling Area | | 8 | |
| Ductwork | | 3 | |
| 12. Containment Building | | 4 | |
| 13. Intake Structure Building/ Service Water Pump Enclosure | | 22 | |

*Temperature Detector/Trip Devices

TABLE 3.14-2

| FIRE HOSE STATIONS | | |
|---|---|---|
| Building | Location | Elevation |
| Turbine Building | Control Bldg. Entrance | 15' |
| Turbine Building | Control Bldg. Entrance | 33' |
| Turbine Building | Control Bldg. Entrance | 53' |
| Aux. Feed Pump Bldg. | Outside Stairwell | 18' - 6" |
| Primary Aux. Bldg. | West Stairwell | 55' |
| Primary Aux. Bldg. | West Stairwell | 34' |
| Primary Aux. Bldg. | West Stairwell | 15' |
| Primary Aux. Bldg. | East Stairwell | 73' |
| Primary Aux. Bldg. | East Stairwell | 55' |
| Primary Aux. Bldg. | East Stairwell | 41' |
| Primary Aux. Bldg. | West Side of Bldg. | 73' |
| Intake Structure Bldg. | North End of Bldg. | 15' |
| Intake Structure Bldg. | South End of Bldg. | 15' |

TABLE 3.14-3

| YARD FIRE HYDRANT AND ASSOCIATED HYDRANT HOSE HOUSES | |
|---|---|
| Location | Hydrant No. |
| 1. Screenwell Area | #31 or #32 |
| 2. Aux. Feed Pump Bldg. | #35 |
| 3. Primary Aux. Bldg. | #36, 38, 39 |
| 4. Diesel Gen Bldg. | #310 |

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 110 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 March 28, 1991, 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, Technical Specifications (TS). The proposed change included revisions to TS Tables 3.14-1 and 3.14-2 to include requirements on the operability of 22 smoke detectors and two hose stations installed in the recently erected intake structure building. The proposed change also included miscellaneous minor changes to TS Table 3.14-1 and re-paginated TS Section 3.14.

## 2.0 EVALUATION

The licensee requested an amendment to TS Tables 3.14-1 and 3.14-2 to include requirements on the operability of 22 smoke detectors and two hose stations installed in the new intake structure building. This building is a single story steel-framed building that covers the facility's intake structure area. This new building was erected to provide easier all-weather maintenance of the service water pumps, the circulating water pumps, and the traveling screens. The hose stations and smoke detectors needed to be added to TS Tables 3.14-1 and 3.14-2 since this new building houses safe shutdown equipment (the service water pumps).

The proposed TS changes add requirements to the licensee's currently-approved fire protection TS section. The licensee states these new requirements must be added since the service water pumps are safe shutdown equipment and the hose station and detection system operability requirements for the new intake structure building should be commensurate with the operability requirements for the areas already listed in TS Tables 3.14-1 and 3.14-2. The licensee had initially notified the NRC by letter dated November 26, 1979, that the licensee planned to erect a building to house the intake structure. In that letter the licensee stated their intention of installing smoke detectors and two hose stations in the building. The NRC staff found the proposed fire protection measures for the new building acceptable as documented in the supplement to the Fire Protection SER dated May 2, 1980. Additionally, this supplement stated that changes to the TS should be proposed to incorporate the new detectors and hose stations when the building was erected.

The staff reviewed the supplement to the Fire Protection SER dated May 2, 1980, and agreed with the previous staff conclusion. Specifically, the NRC staff agreed that the proposed detectors and hose stations continue to satisfy the objectives of Section 2.0 at the Fire Protection SER dated March 6, 1979, and are, therefore, acceptable. However, the supplement to the Fire Protection SER dated May 2, 1980, stated that an automatic fire suppression systems was not required for the intake structure building since the facility has a backup nuclear service water supply system that is independent of the normal service water pumps. Therefore, the staff finds this TS amendment and its Basis, as well as the fire protection system design, acceptable provided the backup service water pumps remain available. Should the licensee elect to remove or decommission these pumps in the future, they must reevaluate the need to install an automatic fire suppression system over the service water pumps to meet NRC fire protection requirements and provide the results of their analysis to the staff.

The TS amendment also makes miscellaneous changes to other fire protection requirements listed in Table 3.14-1 to correct previous typographical errors as well as re-paginate Section 3.14. The staff finds the changes do not reduce, but actually enhance, the existing fire protection requirements and thus 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. 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 (56FR24216). 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:
Nicola F. Conicella

Date: October 21, 1991