

Docket No. 50-247

November 13, 1985

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Mr. John D. O'Toole  
Vice President  
Nuclear Engineering and Quality Assurance  
Consolidated Edison Company  
of New York, Inc.  
4 Irving Place  
New York, New York 10003

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ORB#1 Rdg  
HThompson  
MSlosson  
CParrish  
EJordan  
JPartlow  
ACRS 10  
~~SECY~~  
RFerguson

Dear Mr. O'Toole:

SUBJECT: TECHNICAL EXEMPTION FROM THE REQUIREMENTS OF 10 CFR 50  
APPENDIX R FOR THE INDIAN POINT NUCLEAR GENERATING UNIT NO. 2

By letter dated January 10, 1983 you requested sixteen technical exemptions from 10 CFR 50 Appendix R Sections III.G, III.J, and III.O. Subsequently by letter dated July 13, 1983 two additional exemptions were requested. By letters dated July 13, July 19, September 9, 1982, April 30, December 7, 1984, January 31, May 23, and July 26, 1985 you provided additional information and commitments regarding these 18 exemptions.

With respect to the original eighteen exemption requests, one was withdrawn by letter dated September 9, 1983. Fifteen exemptions were granted by letter dated October 16, 1984. Enclosure 1 grants the exemption request concerning emergency lighting. Enclosure 2 contains our Safety Evaluation. Your exemption request concerning HVAC exhaust fans is still under review.

Your May 23, 1985 letter indicated additional information in response to Generic Letter 83-33. This additional information still under review.

A copy of the notice of exemption is being filed with the Office of the Federal Register for publication.

Sincerely,

/s/Hugh Thompson

Hugh L. Thompson, Jr., Director  
Division of Licensing

Enclosures:

- 1. Exemption
- 2. Notice of Exemption

cc w/enclosures:

See next page

|           |          |          |             |         |          |           |
|-----------|----------|----------|-------------|---------|----------|-----------|
| ORB#1:DL* | ORB#1:DL | CHEB*    | BC-ORB#1:DL | OELD*   | AD-OR:DL | D:DL*     |
| CParrish  | MSlosson | JStang   | SVarga      |         | GL:ina   | HThompson |
| 09/17/85  | 10/2/85  | 09/19/85 | 10/15/85    | 10/1/85 | 10/2/85  | 10/10/85  |

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Dear Mr. O'Toole:

SUBJECT: TECHNICAL EXEMPTION FROM THE REQUIREMENTS OF 10 CFR 50  
APPENDIX R FOR THE INDIAN POINT NUCLEAR GENERATING UNIT NO. 2

By letter dated January 10, 1983 you requested sixteen technical exemptions from 10 CFR 50 Appendix R Sections III.G, III.J, and III.O. Subsequently by letter dated July 13, 1983 two additional exemptions were requested. By letters dated July 13, July 29, September 9, 1983, April 30, December 7, 1984, January 31, May 23, and July 26, 1985 you provided additional information and commitments regarding these 18 exemptions.

With respect to the original eighteen exemption requests, one was withdrawn by letter dated September 9, 1983. Fifteen exemptions were granted by letter dated October 16, 1984. The enclosed grants the exemption request concerning emergency lighting. Your exemption request concerning HVAC exhaust fans is still under review.

Your May 23, 1985 letter included additional information on in response to Generic Letter 83-33. This additional informatin is still under review.

A copy of the notice of exemption is being filed with the Office of the Federal Register for publication.

Sincerely,

Hugh L. Thompson, Jr., Director  
Division of Licensing

Enclosures:

- 1. Exemption
- 2. Notice of Exemption

cc w/enclosure:  
See next page

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HThompson  
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Docket No. 50-247

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| RDiggs      | RFerguson |
| JStang      |           |

Dear Mr. O'Toole:

SUBJECT: TECHNICAL EXEMPTION FROM THE REQUIREMENTS OF 10 CFR 50  
APPENDIX R FOR THE INDIAN POINT NUCLEAR GENERATING UNIT NO. 2

By letter dated January 10, 1983 you requested sixteen technical exemptions from 10 CFR 50 Appendix R Sections III.G, III.J, and III.O. Subsequently by letter dated July 13, 1983 two additional exemptions were requested. By letters dated July 13, July 29, September 9, 1983, April 30, December 7, 1984, January 31, May 23, and July 26, 1985 you provided additional information and commitments regarding these 18 exemptions.

With respect to the original eighteen exemption requests, one was withdrawn by letter dated September 9, 1983. Fifteen exemptions were granted by letter dated October 16, 1984. The enclosed grants the exemption request concerning emergency lighting. Your exemption request concerning HVAC exhaust fans is still under review.

Your May 23, 1985 letter included additional information on the degree to which you conform to the technical requirements of 10 CFR 50, Appendix R. This additional information is still under review. The review of this information has no effect on the enclosed exemption or the outstanding exemption request concerning HVAC exhaust fans.

A copy of the notice of exemption is being filed with the Office of the Federal Register for publication.

Sincerely,

Hugh L. Thompson, Jr., Director  
Division of Licensing

Enclosures:

1. Exemption
2. Notice of Exemption

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D:DL  
HThompson  
9/ /85

Mr. John D. O'Toole  
Consolidated Edison Company  
of New York, Inc.

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Station 1/2

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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

In the Matter of

) Docket No. 50-247

)  
) CONSOLIDATED EDISON COMPANY  
) OF NEW YORK, INC.

)  
) (Indian Point Nuclear  
) Generating Unit No. 2)

EXEMPTION

I.

The Consolidated Edison Company of New York (the licensee) is the holder of Facility Operating License No. DPR-26 which authorizes operation of the Indian Point Nuclear Generating Unit No. 2 (IP-2). This license provides, among other things, that it is subject to all rules, regulations and Orders of the Commission now or hereafter in effect.

The facility consists of one pressurized water reactor at the licensee's site located in Westchester County, New York.

II.

On November 19, 1980, the Commission published a revised Section 10 CFR 50.48 and a new Appendix R to 10 CFR 50 regarding the fire protection features of nuclear power plants (45 FR 76602). The revised Section 50.48 and Appendix R became effective on February 17, 1981. Section 50.48(c) established the schedules for satisfying the provisions of Appendix R. Section III of Appendix R contains fifteen subsections, lettered A through O, each of which specifies requirements for a particular aspect of the fire

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protection features at a nuclear power plant. One of the fifteen subsections, III.J, is the subject of this exemption request.

1.0.0 Technical Exemption

1.1.1 Exemption Requested

By letter dated July 13, 1983 the licensee requested an exemption from Section III.J of Appendix R to 10 CFR 50 to the extent that it requires that all areas needed for operation of safe shutdown equipment and in access and egress routes thereto be provided with 8-hour battery powered emergency lighting units.

1.2 Discussion and Evaluation

To effect and maintain safe shutdown under certain fire scenarios the licensee has indicated that operators would need to operate transfer switches adjacent to the IP-2 Screenwell Area; to operate breakers at the Indian Point Unit No. 1 (IP-1) Intake Structure/Screenwell House; to check local level indication at the Refueling Water Storage Tank (RWST) and Condensate Storage Tank (CST); and to manhandle certain valves in the Piping Penetration Area. The licensee also indicated that operators would have to gain access to the IP-1 Superheater Building which contains the switchgear and controls for operation of certain shutdown-related pumps.

The licensee does not meet the Section III.J. requirements in the IP-2 screenwell area, the RWST area or the CST area. However, the licensee intends to utilize the pole-mounted security lighting system available in the yard area for these areas. The security lighting will provide sufficient illumination to the shutdown components and access and egress routes thereto,

that are associated with this exemption. In addition, the security lighting is supplied power from the security diesel and is, therefore, not vulnerable to fire loss under the postulated fire scenario.

#### 1.3.4 Conclusions

Based on our review, we conclude that the use of the proposed emergency lighting systems provides an acceptable margin of safety equivalent to that provided by the technical requirements of Section III.J. Therefore, the licensee's request for an exemption should be granted.

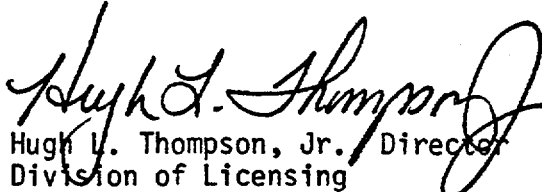
### III.

Accordingly, the Commission has determined that, pursuant to 10 CFR Part 50.12, this technical exemption is authorized by law and will not endanger life or property or the common defense and security, and is otherwise in the public interest. The Commission hereby approves the requested exemption from Appendix R of 10 CFR 50 Section III.J.

Pursuant to 10 CFR 51.32, the Commission has determined that the issuance of the Exemption will have no significant impact on the environment (50 FR 45954).

This exemption is effective upon issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Hugh L. Thompson, Jr. Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

Dated at Bethesda, Maryland  
this 13th day of November 1985.



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

ENCLOSURE 2

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO EXEMPTION REQUEST

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

INDIAN POINT NUCLEAR GENERATING UNIT NO. 2

DOCKET NO. 50-247

1.0 Introduction

By letter dated July 13, 1983, the licensee submitted a request for an exemption from the technical requirements of Section III.J of Appendix R to 10 CFR 50. By letters dated September 9, 1983, January 31, 1985, and July 26, 1985, the licensee provided additional information.

2.0 Emergency Lighting

2.1 Exemption Requested

The licensee requested an exemption from Section III.J of Appendix R to 10 CFR 50 to the extent that it requires that all areas needed for operation of safe shutdown equipment and in access and egress routes thereto be provided with 8-hour battery powered emergency lighting units.

2.2 Discussion

To effect and maintain safe shutdown under certain fire scenarios the licensee has indicated that operators would need to operate transfer switches adjacent to the IP-2 Screenwell Area; to operate breakers at the IP-1 Intake Structure/Screenwell House; to check local level indication at the Refueling Water Storage Tank (RWST) and Condensate Storage Tank (CST); and to manhandle certain valves in the Piping Penetration Area. The licensee also indicated that operators would have to gain access to the IP-1 Superheater Building which contains the switchgear and controls for operation of certain shutdown-related pumps.

With the exception of the inside of the IP-1 Intake Structure/Screenwell House, these areas and the access routes thereto are not provided with individual 8-hour battery powered lighting units. By letter dated September 9, 1983, the licensee committed to install emergency lighting fixtures in the Piping



Penetration Area supplied with power by batteries located in an adjoining area. This configuration is necessary because high temperatures in the Penetration Area would degrade the batteries. This configuration meets Section III.J and is, therefore, acceptable. By letter dated July 26, 1985, the licensee committed to install 8-hour battery powered emergency lighting in the IP-1 superheater building for operation of shutdown related equipment and access and egress routes thereto. We find this acceptable.

In the other locations, the licensee proposes to utilize the pole-mounted security lighting system available in the yard area. The shutdown components and access routes thereto, that are associated with this exemption, could all be illuminated by this lighting. In all other locations, the licensee meets Section III.J by providing individual 8-hour battery powered lighting units.

### 2.3 Evaluation

We had several concerns with the licensee's proposed lighting configuration. The first was that hand held lights would not be relied upon as the sole means of illumination. The licensee has confirmed that, while the operators will be carrying flashlights, they will only be relied upon to supplement the security lighting. And, if the flashlights become inoperable or could not be used while performing the safe shutdown function, the security or banked-battery lighting itself would supply sufficient illumination.

Our second concern was that the same fire which resulted in the need to go to the areas covered by the security or banked-battery lighting, would cause the loss of this capability. The security lighting is supplied power from the security diesel and is, therefore, not vulnerable to fire loss under the postulated fire scenario.

Our third concern was that the level of illumination would be sufficient to provide us with reasonable assurance that the safe shutdown function could be achieved. At our request, the licensee conducted a walkdown of

all plant areas associated with the alternate safe shutdown system. The result of the walkdown were submitted by letters dated January 31, and May 23, 1985. In some areas, additional lighting was deemed necessary and some existing emergency lighting units were found to be inoperable. The inoperable units have been repaired and the licensee committed, in the January 31, 1985 letter to provide additional battery powered lighting units where necessary. On the bases of this walkdown, we have reasonable assurance that an adequate level of illumination has been provided.

We were also concerned that the security lighting would not be maintained. However, this lighting is inspected and maintained as part of the plant security requirements. We find this acceptable.

#### 2.4 Conclusions

Based on our review, we conclude that the use of the proposed emergency lighting systems and the field verification of the adequacy of the lighting provide an acceptable margin of safety equivalent to that provided by the technical requirements of Section III.J. Therefore, the licensee's request for an exemption should be granted.

Principal Contributor:  
D. Kubicki

Dated: November 13, 1985