

SUPPL

NOV 13 1968

50-286

H. L. Price, Director of Regulation

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
REQUEST FOR EXEMPTION FROM 10 CFR 50.10(b)

By letter dated July 23, 1968, the Consolidated Edison Company of New York, Inc. requested an exemption from the provisions of 10 CFR 50.10(b) which would permit the following operations to be conducted prior to issuance of a construction permit for Indian Point Nuclear Generating Unit No. 3:

1. Pouring of the base mat concrete of the containment building up to the bottom liner plate. This includes the walls of the reactor vessel cavity and the recirculating pump pit.
2. Installation of the bottom liner plates and transition knuckle plates.
3. Installation of the rebar for the base concrete over the bottom liner plates.

This work is clearly proscribed by 10 CFR 50.10(b).

The basis for the Consolidated Edison Company request is the need to have Indian Point Nuclear Generating Unit No. 3 ready for commercial operation prior to June 1, 1972 in order to meet the summer 1972 electric power requirements of Consolidated Edison's system and those of the state and region in which the system is located. The applicant's projections of system and regional capacity and of system peak load in 1972 indicate that there is a public need for the energy to be produced by the proposed power reactor on the schedule projected by the applicant.

In order to meet the June 1, 1972 commercial operation date, the applicant requested authorization of the proposed work by September 15, 1968. As noted in your memorandum to the Commission dated September 12, 1968, we were unable to meet this schedule since information pertaining to the structural design of the containment base mat had not been submitted. In addition, we did not have sufficient information to determine whether the design of the base mat would affect the proper operation of the emergency core cooling system or the ability to provide post-loss-of-coolant accident protection. As discussed below, we have received

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additional information and can now resolve these issues to justify issuance of an exemption.

Based upon our current schedule, the construction permit for Indian Point Unit No. 3 would not be issued earlier than March 1969. Since the proposed work will require six months to complete, the beginning of the work in the near future, rather than after issuance of the construction permit, would be of substantial benefit to the Consolidated Edison Company in meeting their construction schedule and commercial operation date. Since the application for a construction permit was originally submitted on April 25, 1967 and the applicant did not anticipate the extended time required for the completion of our review, the need to begin the requested construction before issuance of a construction permit could not reasonably have been foreseen.

The applicant submitted the Second Supplement to the PSAR on September 16, 1968. This supplement contains responses to those questions transmitted to the applicant on July 16, 1968 which pertain to the structural design of that portion of the plant which would be constructed under the proposed exemption. We have reviewed the material submitted in the PSAR as amended and have concluded that the characteristics of the reactor site and the design criteria for the requested construction have been adequately described in the application. In addition, based on the information submitted in the First Supplement to the PSAR which was submitted on August 30, 1968, and based on discussions with the applicant on October 1, 1968, we have determined that installation of the base mat as designed will not prevent the proper design of the emergency core cooling system or preclude the ability to provide post-loss-of-coolant accident protection. Based on these discussions and on the information in the PSAR as amended, it is our opinion that no unresolved safety items have been identified with respect to the requested construction, nor are any such problems likely to result from further review of the application to construct and operate the facility. There appears to be little likelihood that findings by the ACRS or an Atomic Safety and Licensing Board would result in any significant change in the design requirements associated with the proposed work.

The ACRS considered this proposed exemption request on November 1, 1968 and advised us that it does not object to issuance of the exemption.

The applicant acknowledges that it would be proceeding entirely at its own financial risk in this matter. The cost of this work, estimated to be \$660,000, does not increase substantially the Consolidated Edison

H. L. Price

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Company's commitments already made in connection with the Indian Point Unit No. 3 project.

I propose, with your concurrence and the Commissioners' concurrence, that the exemption requested be granted.

P. A. Morris, Director
Division of Reactor Licensing

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DATE ▶	11/5/68	11/6/68	11/6/68	11/13/68	11/ /68	

original not signed

Consolidated Edison Company of New York, Inc.
4 Irving Place
New York, New York 10003

Attention: Mr. W. Donham Crawford
Administrative Vice President

Gentlemen:

We have received your letter dated July 23, 1968, requesting an exemption to the requirements of 10 CFR 50.10(b) which would permit the following operations to be conducted in connection with the proposed Indian Point Unit 3 prior to issuance of a construction permit:

1. Pouring of the base mat concrete up to the bottom liner plate. This includes the walls of the reactor vessel cavity and the recirculating water sump.
2. Installation of the bottom liner plates and transition knuckle plates.
3. Installation of the rebar for the base concrete over the bottom liner plates.

As reflected in our meeting on April 16, 1968 and in a subsequent list of questions dated July 16, 1968, our review of the design of the containment structure will require additional information, significant portions of which relate directly to the areas of your exemption request. Specifically, these include questions concerning: base mat waterproofing, cylinder-to-slab junction design, base mat design and analytical procedures, seismic design, liner design, material selection for concrete, corrosion protection, and construction practices and inspections. Until satisfactory responses have been received and evaluated, we cannot determine if the work proposed under the exemption will be acceptable.

We also note that work requested under the exemption involves pouring the walls of the reactor vessel cavity and the recirculating water sump. Until we complete our review of the emergency core cooling system with respect to both function and system layout, we cannot determine if these structures are adequate.

MEMO ROUTE SLIP

Form AEC-93 (Rev. May 14, 1947) AECM 0240

See me about this.

For conc. ce.

For action.

Note and return.

For signature.

For information.

TO (Name and unit) <i>Files</i>	INITIALS	REMARKS <i>Please see letter of 11-15-68 — signed by H.L. Price —</i>
	DATE	
TO (Name and unit)	INITIALS	REMARKS <i>to Con-Ed — (50-286) which is a re-write of attached Suppl —</i>
	DATE	
TO (Name and unit)	INITIALS	REMARKS <i>You probably want this in your Suppl. File</i>
	DATE	
FROM (Name and unit) <i>EB</i>	REMARKS	
PHONE NO. <i>7411</i>	DATE <i>11/20</i>	

Accordingly, we cannot presently conclude that resolution of known safety problems would not require modification of the requested construction. Since the construction proposed involves massive structures, any major design modification which might be occasioned by our review could greatly extend the construction schedule. Therefore, we will defer action on your request for an exemption from the requirements of 10 CFR 50.10(b) until we have evaluated the pertinent portions of your response to our requests for additional information, and have determined that the design of those items covered in your exemption request is acceptable.

In this regard, we recognize that the Unit No. 3 containment structure is substantially the same as that of Unit No. 2. No change in the requirements for Unit No. 2 are currently contemplated; however, should significant new technological information be developed during review of Unit No. 3, the design of Unit No. 2 would be reconsidered.

Sincerely,

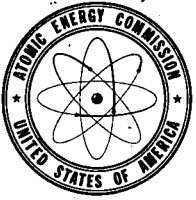
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Peter A. Morris, Director
Division of Reactor Licensing

cc: Arvin E. Upton, Esquire
LeBoeuf, Lamb, Leiby and MacRae
1821 Jefferson Street, N. W.
Washington, D. C. 20036

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DATE ▶	8/27/68	8/27/68	8/27/68	8/27/68	9/3/68	



UNITED STATES
ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

Consolidated Edison Company of New York, Inc.
4 Irving Place
New York, New York 10003

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Administrative Vice President

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Not signed
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Consolidated Edison Company -2-
of New York, Inc.

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Peter A. Morris, Director
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