

August 16, 1968

50-286

Roger S. Boyd, Assistant Director for Reactor Projects
THRU: D. R. Muller, Chief, Reactor Project Branch #1

INDIAN POINT NUCLEAR GENERATING UNIT NO. 3

By letter dated July 23, 1968, Consolidated Edison Company of New York, Incorporated requested an exemption to the requirements of 10 CFR 50.10(b) which would permit the following operations to be conducted 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 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.

They requested that this exemption be issued by September 15, 1968.

On July 16, 1968, we transmitted a list of questions on containment structural design to the applicant. These included questions concerning analytical techniques used in the design of the bottom mat, liner buckling at the base of the walls, seismic design assumptions for the transition knuckle plates, ground water infiltration, and construction practices and inspection. Until satisfactory responses have been received and evaluated, we cannot determine if the work which the applicant proposes to perform under the exemption will be acceptable. Therefore, we cannot find that the design criteria for the construction have been adequately described.

As previously noted, the applicant proposes to pour the walls of the reactor vessel cavity and the recirculating pump pit. Until we receive and evaluate answers to our questions of February 19, 1968 concerning the emergency core cooling system, we cannot determine if the sump elevation and layout, embedded piping, etc. are adequate to permit proper operation of the ECCS. In addition, before final evaluation of the reactor vessel cavity can be completed, the comments of the ACRS on the Zion project must be considered and

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discussed with the applicant. Therefore, we cannot presently conclude that resolution of known safety problems would not require modification of the requested construction.

Based on the information stated above, I believe the work to be performed under the proposed exemption involves critical items which have not been evaluated. Because of this, we cannot make those determinations required by paragraphs 50.12(b)(2) and 50.12(b)(3) of the proposed amendment to 10 CFR 50 which specifies conditions under which exemptions to the requirements of 10 CFR 50.10 may be granted. Since these structures are massive (6800 cu. yds. of concrete, 100 tons of rebar, 90 tons of liner plates and 38 tons of embedded steel), any modification to the design occasioned by our review might involve removal of large quantities of concrete which would greatly elongate the construction schedule. Accordingly, I recommend that action on the request for an exemption from the requirements of 10 CFR 50.10(b) be deferred until we have evaluated the pertinent portions of the responses to our questions of February 19, 1968 and July 16, 1968 and determined that the design is acceptable.

J. A. Murphy, Project Leader
Reactor Project Branch #1
Division of Reactor Licensing

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SURNAME ▶	JAM Murphy:brm	R. Knudsen DRMuller			
DATE ▶	8/16/68	8/16/68			

MEMO ROUTE SLIP

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

See me about this.

For concurrence.

For action.

Note and return.

For signature.

 For information.

TO (Name and unit)

~~H. L. Price~~

C. K. Beck

INITIALS

DATE

REMARKS

I note that Con Ed's request for an exemption to permit pouring concrete (+ a few frills) estimates the cost of

TO (Name and unit)

M. M. Mann

R. L. Doan

INITIALS

DATE

REMARKS

the work at \$660,000.

50-286

File

TO (Name and unit)

E. G. Case

INITIALS

DATE

REMARKS

FROM (Name and unit)

Pam
P. A. Morris

REMARKS

PHONE NO.

425

DATE

8/7

USE OTHER SIDE FOR ADDITIONAL REMARKS

GPO : 1968 O-294-619