

September 25, 1968

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

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
INDIAN POINT NUCLEAR GENERATING UNIT NO. 3, DOCKET NO. 50-286

A meeting was held in Bethesda on September 10, 1968, between representatives of the Consolidated Edison Company, its contractors, and DRI to discuss informally modifications Consolidated Edison might make to the structural design of the containment vessel. A list of attendees is enclosed. The following items were discussed:

1. Consolidated Edison asked what our reaction might be to a proposal to eliminate the diagonal rebars from the containment design, with reliance placed on dowel action at the horizontal and vertical rebars to resist seismic shear loading. This is similar to the design proposed for Maine Yankee. We indicated that the magnitude of the dowel effect on pre-cracked structures was in question, particularly in view of the magnitude of the seismic acceleration at Indian Point in comparison with that at Maine Yankee (0.15g at Indian Point vs. 0.10g at Maine Yankee for the DBE).

Dr. Gluckmann stated that in his opinion, the justification for the removal of the diagonal rebars would require extensive study beyond that which has been submitted in the Maine Yankee application. He indicated that this study should include a survey of the literature and the performance of cyclic load tests on pre-cracked structural members to simulate containment conditions during operation. In response to a question from Consolidated Edison, we indicated that this study must be completed before we could take action on a formal request and estimated that such a proposal to remove the diagonal rebars would add approximately 4-5 months to the construction permit schedule.

2. Consolidated Edison indicated that they intended to amend their application to incorporate a lumped mass nodal analysis approach in the evaluation of seismic shear. We indicated that this should present no problem provided a detailed description of the nodal method and a diagram of the lumped masses were provided.

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- 3. The damping factor proposed for both the OBE and the DBE in the PSAR is 2%. The applicant requested our comments on his proposal to increase the damping factor for the DBE to 5%. We indicated that this proposed value was similar to those currently being accepted for similar structures.

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

Enclosure:
 Attendance List

Distribution:
 Suppl.
 RL Reading
 RPB-1 Reading
 D. R. Muller
 J. A. Murphy
 A. Gluckmann
 N. Blunt

OFFICE ▶	RL:RPB-1	RL:RPB-1			
SURNAME ▶	<i>J. A. Murphy</i> Murphy/eb	<i>D. R. Muller</i> Muller			
DATE ▶	9/25/68	9/26/68			

ATTENDANCE LIST

Westinghouse Electric Corporation

Robert Michael Hunt
John David Stevenson
Robert Francis Devine
M. J. Holley, Jr., Ph.D. (HH&B, Consultant)

Consolidated Edison Co. of N.Y., Inc.

John Joseph Grob, Jr.
Carl Edward Arrese
Charles Frederick Soutar

LeBoeuf, Lamb, Leiby & MacRae

Lex Kingsbury Larson

AEC, Div. of Reactor Licensing

D. R. Muller
J. A. Murphy
A. Gluckmann

United Engineers & Constructors

Sidney Brown Barnes
Barry Benjamin Scott
John Robert Slotterback

Southern Nuclear Engineering, Inc.

Campbell Rogers McCullough
Gilbert Maynard Brown

Edson G. Case
Director, DRS
Room P-302-A
BETH-008

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.
(Indian Point Nuclear Generating Unit No. 3)
Docket No. 50-286

The following document is attached for your information:

Second Supplement (Amendment No. 2), dated September 16, 1968, to facility license application filed by the above Company for the Indian Point Nuclear Generating Unit No. 3.

R. S. Boyd
Asst. Director for
Reactor Projects
Division of Reactor
Licensing, BETH-008

The supplement contains answers to the Commission's requests for additional information of February 19 and July 16, 1968, and two pages to be inserted in Supplement No. 1 (Amendment No. 1) at the end of item 2.

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Identical route slips sent to Laughlin, ~~Kennebunk~~ Pressesky, Buchanan, Giambusso and Forbes.

Distribution:

Suppl. ~~4~~ *////*
RL Reading
RPB-1 Reading
R. S. Boyd
N. M. Blunt

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DATE ▶	9/23/68					