

Suppl.

SEP 10 1970

P. A. Morris, Director
Division of Reactor Licensing

CONSOLIDATED EDISON COMPANY OF NEW YORK, INC. - INDIAN POINT NUCLEAR
GENERATING UNIT NO. 2 - DOCKET NO. 50-247

The DRS Electrical Systems Branch forwarded a report, for use in the DRL ACRS report, covering the Protection Systems and the Auxiliary Electrical Power Systems for the subject plant on May 19, 1970. The forwarding letter for that report pointed out that the review of several items within these systems by DRS was not complete.

The Electrical Systems Branch has reviewed the information contained in amendments to the FSAR through Supplement 14. Our concerns regarding all except one of the outstanding items are now resolved. A discussion of this item, seismic testing of protection equipment, and the other items which we consider to have been adequately answered since the submittal of our report is provided in the enclosure.

We believe that the enclosure contains the information required for your supplementary report.

Original signed by
E. G. Case
Edson G. Case, Director
Division of Reactor Standards

ESB-79
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Enclosure:
Additional Information

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DATE ▶	9/8/70	9/9/70	9/10/70		

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CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

INDIAN POINT NUCLEAR GENERATING UNIT NO. 2

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ITEM WHICH IS CONSIDERED TO BE UNRESOLVED

1. Seismic testing of protection equipment - Consolidated Edison supplied some information regarding control boards, switchgear and power supplies in Supplement 13. They provided additional information in Supplement 14. The control boards and fan cooler motors have not yet been tested for a simulated seismic event. We understand that the applicant has made a commitment to DRL to test these two items when time can be scheduled on a shaker table.

ITEMS WHICH ARE CONSIDERED TO BE RESOLVED

1. Load stripping when switching to the 13 kV feeder - Consolidated Edison deleted the automatic transfer to the 13 kV feeder in Supplement 14. The deletion of the automatic transfer resolved our concerns with regard to load stripping.
2. Schematic diagrams of the BIT (boron injection tank) level instruments - The additional information presented on marked copies of drawings 499B 444 Sh. 115, 168, and 169; 110 E 089 Sh. 1, 2, 4, 6, 7, and 9 and the answer to question 7.22 (Supplement 13) resolved our concerns as to the ability of the

- valve control circuitry to meet the single failure criterion.
3. Test procedures for the Engineered Safety Features - The answer to question 7.23 (Supplement 13) provides approximately the same information as was contained in the Point Beach application. We consider this item resolved.
 4. Table 7.2-2 and Page 7.2-25 of the FSAR do not agree with respect to the P-7 interlock - Supplement 9 amended Table 7.2-2 in agreement with Page 7.2-25. We consider this item resolved.
 5. Annunciators for the Reactor Protection System Cabinet doors - Supplement 9 amended the answer to question 7.12 adding separate annunciators for the Reactor Protection System cabinet doors. We consider this item resolved.
 6. Scram breaker "position lights" - In the answer to question 7.24 (Supplement 13) Consolidated Edison stated that reactor trip breaker "position" lights for both the main and bypass breakers (4) are provided in the control room on the reactor protection test panels. We consider this item resolved.
 7. The response to question 7.1 indicates that the reactor trip on turbine trip and the turbine runback circuits meet IEEE 279. Supplement 12 amended the response to question 7.1 by deleting the mention of IEEE 279. We consider this item resolved.

8. Automatic switching of the bus tie breakers discussed on page 8.2-14 - Supplement 12 deleted the words concerning automatic switching. We consider this item resolved.
9. Diesel generators onsite fuel storage (54 hours) discussed on page 8.2-12 - Supplement 9 amended the 54 hours to 80 hours. We consider this item resolved.
10. Load shedding and SI loading sequence circuitry - Compliance has agreed to follow the testing of this circuitry. We consider this item resolved.
11. Protection for the 480 volt essential switchgear - The answer to question 7.6 (d) (as revised by Supplement 12) discusses the additional protection provided the 480 volt switchgear against the possibility of missiles from the instrument air line and compressor. We consider this item resolved.
12. Additional work in the electrical penetration area - The answer to question 7.7 (as revised by Supplement 12) discusses the additional protection provided in the electrical penetration area. We consider this item resolved.
13. Protection for the diesel generator control panel - The revision to page 8.2-13 of the PSAR (Supplement 9) stated that a shield wall will be added between the diesel generators and the common control panel. We consider this item resolved.

14. Sensing of undervoltage for starting of the diesel generators -
The additional information presented on marked copies of drawings 9321-LL-3317 Sh. 1, 2, 3, 3A, 22 and 22A; 9321-LL-3118 Sh. 2, 3, and 3A; and 540 F 923 and the answer to question 8.8 (Supplement 13) resolved our concerns as to the sensing of undervoltage for starting the diesel generators.

15. Manual actuation of the containment spray - The additional information presented on marked copies of drawings 110E 089 Sh. 6 and 494B 444 Sh. 32 and 40 and the answer to question 7.28 (Supplement 13) resolved our concerns with regard to this item.