

DEC 23 1971

50-247

ENVIRON

Peter A. Morris, Director, DRL

DREP ENVIRONMENTAL REVIEW - INDIAN POINT UNIT NO. 2 PROPOSED OPERATION AT 50% POWER

Please find attached as Enclosure 1 a copy of our input to the Indian Point Unit 2 assessment for operation at 50% power. This document includes the section on the environmental impact due to accidents, which was provided by Karl Kniel, on Wednesday, December 7, 1971.

We have identified several principal concerns in our review for operation at 50% power. These relate to the level of chlorine residuals in the thermal discharges, the ecological and hydrological monitoring programs, and the magnitude of impingement and entrainment mortality of aquatic biota. Our recommendations with respect to these concerns are as follows:

1. A maximum release limit for chlorine residuals of 0.5 ppm at the point of discharge into the Hudson River should be incorporated into the limited Operating License. In addition, the frequency of chlorination of each condenser should be limited to less than three times a week (one hour duration each time) when the number of circulating water pumps in operation is less than six. We also believe that an appropriate program should be carried out for monitoring the residual chlorine dispersed with the thermal plume as compared to that already in the river water and that this program should be defined as a condition of the Operating License.
2. A requirement that solid waste collected on the screens and deposited in the wire basket should not be sluiced back into the Hudson River but disposed of as solid waste should be incorporated into the Operating License.
3. The present and planned ecological monitoring programs should be expanded on a timely basis to evaluate further the biological impact of the combined operation of Indian Point Units No. 1 and 2. Specifically, we recommend that Con Ed be required to develop a suitable program for monitoring the ecology of the Hudson River, in the vicinity of the plant reflecting operation of both Indian Point Units No. 1 and 2, and that this program be submitted for regulatory review within 60 days. Such a program should include as a minimum, the information described in Enclosure 2. Development of this program, in our view, should not preclude licensing action.

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Assuming satisfactory resolution of the above matters and pending completion of the full NEPA review, DREP has concluded that:

- (a) It is unlikely that limited operation during the period of ongoing NEPA review will on balance give rise to a significant, irreversible adverse impact on the environment.
- (b) Limited operation during the prospective review period would not foreclose subsequent adoption of alternatives in facility design or operation of the type that could result from the ongoing NEPA environmental review.
- (c) The effect of delay in facility operation upon the public interest is unwarranted.

DREP will also provide you with the exact wording of the specifications that we recommend be incorporated in the Technical Specifications.

If you have any questions or desire additional information concerning our review, please let me know.

LESTER ROGERS

Lester Rogers, Director
Division of Radiological
and Environmental Protection

Enclosures:
As stated

cc: R. C. DeYoung, DRL
T. R. Wilson, DRL (w/o encl.)
G. A. Blanc, REP
H. Denton, DRL
D. Muller, DRL
J. Keppler, REP
K. Kniel, DRL
M. J. Oestmann, REP
M. Karman, OGC
R. H. Engelken, CO (w/o encl.)

Peter A. Morris

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Assuming satisfactory resolution of the above matters and pending completion of the full NEPA review, DREP has concluded that the benefits to be derived from allowing operation of the Indian Point 2 reactor at 50% power outweigh the environmental impacts.

If you have any questions or desire additional information concerning our review, please let me know.

Lester Rogers, Director
Division of Radiological
and Environmental Protection

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As stated

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- T. R. Wilson, DRL
- G. A. Blanc, REP
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