



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

March 9, 1998

Mr. James Knubel
Chief Nuclear Officer
Power Authority of the State
of New York
123 Main Street
White Plains, NY 10601

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION REGARDING SUMMARY REPORT
ON THE VERIFICATION OF SEISMIC ADEQUACY OF MECHANICAL AND
ELECTRICAL EQUIPMENT - INDIAN POINT NUCLEAR GENERATING UNIT NO. 3
(TAC NO. M69454)

Dear Mr. Knubel:

By letter dated November 16, 1995, you submitted a report on the verification of seismic adequacy of mechanical and electrical equipment for Indian Point Unit 3. In order to complete its review, the staff needs the following information:

- a. Describe what reviews were performed to determine if any local operator actions required to safely shutdown the reactor could be affected by potentially adverse environmental conditions (such as loss of lighting, excessive heat or humidity, or in-plant barriers) resulting from the seismic event. Describe how staffing was evaluated and describe the reviews which were conducted to ensure operators had adequate time and resources to respond to such events.
- b. As part of your review, were any control room structures which could impact the operators ability to respond to the seismic event identified? Such items might include control room ceiling tiles, non-bolted cabinets, and non-restrained pieces of equipment (e.g., computer keyboards, monitors, stands, printers,). Describe how each of these potential sources of interactions has been evaluated and describe the schedule for implementation of the final resolutions.
- c. Describe what reviews were performed to determine if any local operator actions were required to reposition "bad actor relays." For any such activities describe how adverse environmental conditions (such as loss of lighting, excessive heat or humidity, or in-plant barriers) resulting from the seismic event were analyzed. Describe how staffing was evaluated and describe the reviews which were conducted to ensure operators had adequate time and resources to respond to such events.
- d. Describe which of the operator actions associated with resetting safe shutdown equipment list (SSEL) equipment affected by postulated relay chatter are considered to be routine and consistent with the skill of the craft. If not considered skill of the craft, what training and operational aids were developed to ensure the operators will perform the actions required to reset affected equipment?
- e. Assume the alarms associated with "bad actor relays" are expected to annunciate during the seismic event. Do the operators have to respond to those annunciators and review

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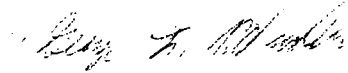
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the annunciator response procedures associated with them for potential action? How would those additional actions impact the operators ability to implement the normal, abnormal, and emergency operating procedures required to place the reactor in a safe shutdown condition?

- f. To the extent that normal, abnormal, and emergency operating procedures were modified to provide plant staff with additional guidance on mitigating the A-46 Seismic Event, describe what training was required and provided to the licensed operators, non-licensed operators, and other plant staff required to respond to such events.

If you have any questions, please do not hesitate to call.

Sincerely,



George F. Wunder, Project Manager
Project Directorate I-1
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket No. 50-286

cc: See next page

James Knubel
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Indian Point Nuclear Generating
Unit No. 3

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- 2 -

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ORIGINAL SIGNED BY:

George F. Wunder, Project Manager
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Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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Indian Point Nuclear Generating
Unit No. 3

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