

August 7, 1984

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Docket No. 50-286

Mr. J. P. Bayne
Executive Vice President - Nuclear Generation
Power Authority of the State of New York
123 Main Street
White Plains, New York 10601

Dear Mr. Bayne:

SUBJECT: ENVIRONMENTAL QUALIFICATION OF EQUIPMENT IMPORTANT TO SAFETY
FOR THE INDIAN POINT NUCLEAR GENERATING PLANT, UNIT NO. 3 (IP-3)

Presently the staff is reviewing the IP-3 Environmental Qualification program. In order to complete our review, additional information is necessary. Therefore, within 45 days of receipt of this letter you are requested to provide a response to the enclosed listing of needed information.

Sincerely,

/s/S.Varga

Steven A. Varga, Branch Chief
Operating Reactors Branch #1
Division of Licensing

Enclosure
As stated

cc:
See next page

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OFFICE	ORB#1:DL	C-ORB#1:DL					
SURNAME	P. Polk/ts	S. Varga					
DATE	8/7/84	8/7/84					

RESPONSE TO ENCLOSURE 1 OF THE SAFETY EVALUATION REPORT (SER)
DATED 5/29/84 REGARDING THE INADEQUATE CORE COOLING
INSTRUMENTATION SYSTEM FOR THE INDIAN POINT 3 NUCLEAR POWER
PLANT

Question

1. Describe the distinction, if any, between satisfying the intent of NUREG-0737 Item II.F.2 Attachment 1 and full compliance.

Response

1. The terminology "meets the intent of" was used because the sensors for the core exit thermocouple system, subcooling margin monitor and portions of the RVLIS are original plant equipment which do not fully meet the requirements of NUREG-0737, Item II.F.2, Attachment 1. At the time of the Authority's submittal (IPN-83-22, dated 3/15/83), no decision had been made with regards to upgrading the sensors. However, the Authority currently intends to replace or qualify all sensors associated with the inadequate core cooling instrumentation system to meet the requirements of Regulatory Guide 1.97, revision 2.

Furthermore, the safety-related power supplies for the inadequate core cooling instrumentation system were designed in accordance with GDC's 2, 24 and 39 (July 11, 1967) and do not fully meet the design requirements for Class 1E power sources. The Authority has no plans or requirements to upgrade the entire safety-related power supply system. However, original plant safety-related power supply equipment is replaced with Class 1E equipment, as needed.

Question

2. The display of coolant outlet temperatures is not in full compliance with NUREG-0737, Item II.F.2, Attachment 1. Provide specific plans and schedules for upgrading the core exit thermocouple system, including the cables, connectors, penetrations, compensation junction boxes and display indicators.

Response

2. The Authority will install a Critical Function Monitoring System (CFMS) and Qualified Safety Parameter Display System (QSPDS) which will serve as the primary and backup displays, respectively, for the thermocouple temperatures. Information regarding the display features and qualifications of these display systems were provided in the Authority's submittal IPN-83-22 dated 3/15/83. The Authority is committed to install the CFMS and QSPDS by the end of our cycle 4/5 refueling outage.