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September 30, 1987

Re: Indian Point Unit No. 2
Docket No. 50-247

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555

SUBJECT: Supplemental Information Relevant to License Amendment Request
dated May 29, 1987

Subsequent to discussions with the NRC staff, this letter transmits supplemental information to our May 29, 1987 application to amend the Indian Point Unit No. 2 Technical Specifications to permit the Residual Heat Removal pumps to remain operable during the performance of the Safety Injection test. The information is set forth in a question-and-answer format, and is included herewith as Attachment A.

Should your staff have any additional questions, please contact us.

Very truly yours,

Murray Selman

24.190.9.18.1

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ATTACHMENT A

SUPPLEMENTAL INFORMATION RELEVANT TO SI TEST

1. Describe the proposed SI test.

The major steps in the test are as follows:

- a) Position a majority of equipment in the non - SI position (Containment Isolation Valves open, CCR Ventilation Normal, Isolation Valve Seal Water Normal, V.C. Spray Normal, Diesels in Auto, Feedwater Valves Open, Main Steam Isolation Valves Open, Fan Cooler Unit Valves in Normal).
- b) Place breakers for some SI equipment in test, then place all SI equipment to on.
- c) Remove D.C. Control Power for running RHR pump and verify that it is still running. Place remaining RHR pump in test mode.
- d) Block Train B SI.
- e) Insert an Auto SI signal and a V.C. Spray signal.
- f) Verify a proper SI sequence for Train A SI. (All pumps strip and reload at proper time, Phase A isolation, Phase B Isolation, Containment Ventilation Isolation, V.C.-Spray, Isolation Valve Seal Water, Feedwater Isolation, Main Steam Isolation, CCR Ventilation in incident mode).
- g) Reset equipment, swap RHR Pumps, repeat for Train B.

2. How are the RHR pumps blocked during the test?

The 480 Volt Motor Breaker for the pump is placed in the test position. This allows breaker operation without pump operation.

3. Approximately how long does the test take?

A minimum of about two hours and, depending on results, as much as four hours per train.

4. How are the pumps placed in the test position?

The breakers are placed in a mid-position so that the 480 Volt feed is disconnected while the 125 Volt D.C. control power is still connected.

5. Other than the RHR pumps (which are blocked preventatively), can the SI signal interrupt RHR in any other way?

Immediately prior to injecting SI signal, the RHR heat exchanger outlet valve and RHR heat exchanger component cooling outlet valve are closed. As soon as an SI signal is injected these valves are verified to open as part of SI sequence. The test has a separate section to assure RHR is operational after the signal. Throughout the test, RHR cooling is maintained at or above the minimum required.

6. How were the pumps blocked in the "old" test?

They were blocked in the same manner as discussed in Response No. 4. above but both were blocked out at the same time. The SI test had been performed late in the outage when RHR cooling could be interrupted for a longer period.

7. What measures will be taken if the operating pump is lost while the other pump is in the test mode?

The Central Control Room (CCR) is in direct communications with a Field Operator (NPO) who is located at the 480 Volt Breaker for the running pump. Should the operating pump be lost, the CCR would contact the NPO who would rack in the breaker for the pump in the test mode. The total time required would be less than one minute. Prior to placing the RHR pump in test, the test procedure states that RCS temperature should be as low as possible and kept at that temperature with the running RHR pump.

8. What measures are taken to assure that the control power is reestablished?

The test procedure will address removal of D.C. control fuses and replacement of them with independent verification of that replacement.