

May 17, 1990

Docket No. 50-286

Posted

Bases Change to DPR-64

Mr. John C. Brons  
Executive Vice President, Nuclear Generation  
Power Authority of the State of New York  
123 Main Street  
White Plains, New York 10601

Wanda Jones  
GPA/PA

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OC/LFMB

Dear Mr. Brons:

SUBJECT: CHANGE TO TECHNICAL SPECIFICATION BASES PAGE 3.5-5 FOR  
INDIAN POINT 3 NUCLEAR POWER PLANT (TAC NO. 76726)

In a letter dated April 20, 1990, the Power Authority of the State of New York submitted a revised page to the Indian Point 3 Technical Specification Bases Page 3.5-5. The change relates to the description of the Containment Spray System actuation logic in that reference to the Safety Injection signal was deleted. Contacts from the Safety Injection System circuitry have been removed from the Containment Spray System actuation circuitry ensuring that the Containment Spray System will actuate regardless of the status of the Safety Injection System. The change reflects the actual condition of the plant.

Attached is a copy of the revised Bases page 3.5-5. The staff offers no objection to the change to the Bases.

Sincerely,

ORIGINAL SIGNED BY:

Joseph D. Neighbors, Senior Project Manager  
Project Directorate I-1  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosure: As stated

cc w/enclosure: See next page

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DOCUMENT NAME: MEMO TO BRONS TAC 76726

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Power Authority of the State  
of New York

Indian Point 3 Nuclear Power Plant

cc:

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## Containment Spray

The Engineered Safety Features actuation system also initiates containment spray upon sensing a high containment pressure signal (Hi-Hi Level). The containment spray acts to reduce containment pressure in the event of a loss of coolant or steam line break accident inside the containment. The spray cools the containment directly and limits the release of fission products by absorbing iodine should it be released to the containment.

Containment spray is designed to be actuated at a higher containment pressure ( $\sim 50\%$  of containment design pressure) than the SIS ( $\sim 10\%$  of containment design pressure). Since spurious actuation of containment spray is to be avoided, it is automatically initiated only on coincidence of Hi-Hi Level containment pressure sensed by both sets of two-out-of-three containment pressure signals.

## Steam Line Isolation

Steam line isolation signals are initiated by the Engineered Safety Features closing all steam line stop valves. In the event of a steam line break, this action prevents continuous, uncontrolled steam release from more than one steam generator by isolating the steam lines on high containment pressure (Hi-Hi Level) or high steam line flow. Protection is afforded for breaks inside or outside the containment even when it is assumed that there is a single failure in the steam line isolation system.

3.5-5