



BROOKHAVEN NATIONAL LABORATORY  
ASSOCIATED UNIVERSITIES, INC.

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Department of Nuclear Energy

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February 8, 1980

Mr. Robert L. Ferguson  
Plant Systems Branch  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

RE: Indian Point 2, Fire Protection Review, Items 3.1.4, 3.1.16

Dear Bob:

Attached is the Brookhaven National Laboratory input to items 3.1.4, Water Supply, and 3.1.16, Diesel Generator Protection.

Very truly yours,

Robert E. Hall, Group Leader  
Reactor Engineering Analysis

REH:EAM:sd  
attachment

cc.: R. Cerbone	wo/att.
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## INDIAN POINT 2

### Fire Protection Review

#### Item 3.1.4 Water Supply

On November 2, 1979, the licensee submitted design details for the new diesel driven fire pump and tank covered under 3.1.4 Water Supply as noted in the SER.

The Con Edison drawing numbered 22230C meets the requirements as outlined in the SER except for a minor deviation from NFPA 20 "Standard for the Installation of Centrifugal Fire Pumps." This exception will not have an adverse effect on operation of the pump or its ability to meet the water demand. The licensee has addressed this deviation in their cover letter to the drawings.

Based on the above review we find the design of the diesel fire pump and tank acceptable.

#### Item 3.1.16 Diesel Generator Protection

On November 2, 1979, the licensee submitted design details for the diesel generator oil spray protection covered under 3.1.16 Diesel Generator Protection as noted in the SER.

The barriers are constructed of aluminum in modular form to facilitate maintenance of the diesel. The shields are designed to prevent high pressure fuel leaks from spraying on adjacent units. Low pressure leaks or rupture of a pipe will be confined to the sump beneath each diesel generator.

The designed barriers have adequate stability and length to ensure protection of adjacent diesels from oil spray. The height of the barrier is assumed to be sufficient to prevent the fuel pipe with the highest elevation from spraying over the top of the barrier.

The unit has a gas turbine independent of this area capable of supplying the necessary power for emergency conditions.

Based upon the above review, we find the design of the barriers acceptable.