



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

January 4, 1985

Docket No. 50-219  
LS05-85-01-003

Mr. P. B. Fiedler  
Vice President and Director  
Oyster Creek Nuclear Generating Station  
Post Office Box 388  
Forked River, New Jersey 08731

Dear Mr. Fiedler:

SUBJECT: CLOSE OUT OF TMI ACTION PLAN ITEM II.K.3.18, AUTOMATIC  
DEPRESSURIZATION SYSTEM (ADS) LOGIC MODIFICATION FOR  
ISOLATION CONDENSER BOILING WATER REACTORS

Re: Oyster Creek Nuclear Generating Station

In a letter from T. J. Dente to D. G. Eisenhut dated October 28, 1982, the BWR Owners Group proposed a response to TMI Action Plan Item II.K.3.18, "Modification of ADS Logic." The staff approved two of the options proposed.

The first option removes the high drywell pressure permissive from the logic and adds a manually operated inhibit switch. The second option adds a timer which begins on low water level, and when timed out, bypasses the high drywell pressure permissive. A manually operated inhibit switch is also included in the second option. All BWR licensees were requested to implement one of the approved options.

In a letter from C. V. Mangan (Niagara Mohawk Power Corporation) to D. B. Vassallo (NRC) dated March 6, 1984, the staff received additional information regarding the impact of the approved options on plants with isolation condensers. It was indicated that certain events would be adversely impacted by either of the approved options. These events involve the loss of high pressure makeup capability and are normally readily mitigated by the operation of the isolation condenser. During these events, all ADS initiation signals are present except for high drywell pressure. Bypassing the high drywell pressure permissive (as in both approved options) would, therefore, result in actuation of the ADS. Vessel depressurization greatly reduces the effectiveness of the isolation condenser and can defeat its function.

The modifications which the staff has approved are intended to provide additional protection for only a small number of events such as a stuck open relief valve or a small break LOCA outside containment. Since for PWRs with isolation condensers other events are adversely impacted, the proposed modifications provide no clear overall safety enhancement.

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The staff concludes, therefore, that for plants with isolation condensers, no modifications to the ADS logic are required and that implementation of emergency procedures is sufficient for satisfying Action Plan Item II.K.3.18. This letter thus closes out TMI Action Item II.K.3.18 for the Oyster Creek Nuclear Generating Station.

Sincerely,

Original signed by

John A. Zwolinski, Chief  
Operating Reactors Branch #5  
Division of Licensing

cc: See next page

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