

June 13, 1984

Docket No. 50-271

Mr. J. B. Sinclair
Licensing Engineer
Vermont Yankee Nuclear Power Corporation
1671 Worcester Road
Framingham, Massachusetts 01701

Dear Mr. Sinclair:

SUBJECT: PLANT SPECIFIC ANALYSIS TO DETERMINE GAS AND WATER
CLEARING THRUST LOADS ASSOCIATED WITH SECOND SRV
ACTUATIONS IN RELIEF VALVE DISCHARGE LINES

Re: Vermont Yankee Nuclear Power Station

One of the issues to be resolved related to the Mark I Containment Long Term Program (LTP) was whether following the initial safety relief valve (SRV) actuation, sufficient time for the water leg to stabilize exists prior to a second actuation. To satisfy the acceptance criteria in NUREG-0661 "Mark I Containment Long Term Program" related to water clearing thrust loads in the relief valve discharge lines, associated with second SRV actuations, some licensees have made system logic changes to reduce these loads. The logic changes used include various combinations of lower SRV opening and closing setpoints and lower reactor vessel water level prior to main steam isolation valve (MSIV) closure.

We have recently become aware that at least one licensee has determined that these logic changes to reduce thrust loads, that it had previously intended to make, were no longer needed. A revised analysis performed by General Electric utilizing a methodology not approved in NUREG-0661 provided the basis for the licensee's decision. Since the methodology utilized appears to deviate from the methodology found acceptable by the staff, this letter is being sent to all BWR licensees that have Mark I containments that have not made setpoint logic changes to reduce water clearing thrust loads associated with second SRV actuations.

Within 45 days of receipt of this letter it is requested that you notify us if any analyses were performed utilizing methodology not previously approved in NUREG-0661 in determining if setpoint logic changes were needed to reduce water clearing thrust loads associated with second SRV actuations. In addition identify if any credit for operator action is required to prevent or reduce the thrust loads associated with second actuations of SRVs and if so, the kind of action and how long after event initiation the action is required.

8406250174 840613
PDR ADOCK 05000271
PDR

Mr. J. B. Sinclair

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This request for information was approved by the Office of Management and Budget under clearance number 3150-0091 which expires October 31, 1985.

Sincerely,

Original signed by/

Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

cc: See next page

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Mr. J. B. Sinclair
Vermont Yankee Nuclear Power Corporation
Vermont Yankee Nuclear Power Station

cc:

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