



Wendell P. Johnson
Vice President

Public Service of New Hampshire

August 1, 1985
SBN- 852
T.F. 02.2.2

New Hampshire Yankee Division

United States Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

Attention: Mr. Richard W. Starostecki, Director
Division of Project and Resident Programs

References: (a) Construction Permits CPPR-135 and CPPR-136, Docket
Nos. 50-443 and 50-444
(b) Telecon of July 24, 1985, W. N. Fadden and D. E. Groves
(YNSD) to J. Grant (Region 1)

Subject: Interim 10CFR50.55(e) Report; Emergency Feedwater System High
Flow Isolation Logic Seal-In (CDR 85-00-10)

Dear Sir:

On July 24, 1985, we reported a 10CFR50.55(e) item to Region 1
[Reference (b)]. The following information is provided under the reporting
requirements of 10CFR50.55(e):

Description of Deficiency

Emergency Feedwater (EFW) flow to a steam generator faulted by a
Feedwater (FWLB) or Main Steam Line Break (MSLB) is isolated automatically
with redundant isolation valves when high flow is detected. This is required
to ensure flow to the intact steam generators, to limit the energy release to
the containment and to conserve the water in the CST.

The isolation logic includes an interlock to block a concurrent high flow
isolation of the nonfaulted steam generators, on a train basis, when a high
flow condition exists. The final design does not seal-in the high flow
logic. The interlock will be removed automatically when the faulted steam
generator's EFW isolation valves close and reduce flow below the high flow
signal reset point. With the faulted steam generator isolated, the flow to
the intact steam generators will increase above the high flow setpoint. This
will result in the sequential isolation of emergency feedwater to all steam
generators.

Analysis of Safety Implications

The accident analysis for the FWLB and MSLB assumes that emergency
feedwater flow to the intact steam generators is at design flow 1 minute after
the event. A complete isolation and a 10 minute delay for operator action to
open the isolation valves for the intact steam generators may result in steam
generator dryout.

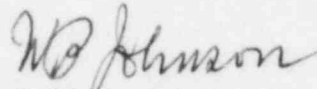
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The high flow signal seal-in was to be included in the design to prevent the sequential isolation of all steam generators. The seal-in was not included when producing the detailed design drawings. This is considered an isolated event.

Corrective Action

We will correct this problem by providing a seal-in for the high flow signal so that the interlock will remain in place until manually reset from the Control Room. This will prevent closure of the remaining emergency feedwater isolation valves on the same power train. EFW will always be available to at least 2 steam generators. High flow isolation/logic seal-in will be alarmed. A final report will be submitted when the corrective action has been completed.

Very truly yours,



Wendell P. Johnson
Vice President

cc: Atomic Safety and Licensing Board Service List

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