GE Nuclear Energy

General Electric Company
175 Curtner Avenue, San Jose, CA 95125

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US Nuclear Regulatory Commission
Washington, DC 20555

Attn: Mr. Paul Boehnert
ACRS Staff

SUBJECT: ***RESPONSES TO QUESTIONS FROM THE 1/12/95 417TH ACRS MEETING***

Ref: ***E-Mail Correspondence between P. Boehnert and J. Leatherman - February, 1995***

Dear Mr. Boehnert,

The attachment to this letter provides GE responses to the three ACRS questions posed in the referenced correspondence. The question numbering scheme is the same as that used in the referenced correspondence.

Sincerely yours,

James E. Quinn, Projects Manager
LMR and SBWR Programs

CC: RW Hasselberg)
SQ Ninh) NRC
JH Wilson)

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RESPONSES TO QUESTIONS FROM THE 1/12/95 417TH ACRS MEETING

(Q-1) Jay Carroll raised an issues concerning the capability of the isolation condenser to withstand the loadings resulting from a tube rupture. Specifically, whether the isolation valve(s) can close against the resulting flow.

(R-1) Yes, the isolation valve design will be qualified by testing and analysis to demonstrate that it is capable of closing against full flow and differential pressure due to a rupture of the isolation condenser. The qualification will be in accordance with ANSI B16-41 "Functional Qualification Testing for Power Operated Active Valve Assemblies for Nuclear Power Plants", coupled with special effects testing and analysis for valve sizes too large to test under pipe break conditions due to test facility limitations.

(Q-2) Carl Michelson raised the issue of mitigation of the consequences of a break in the RWCU line. He asked if GE plans to add a "third (isolation) valve".

(R-2) The response to Carl Michelson's concern was provided in GE Response 165-166 in GE/ACRS letter MFN No. 149-94 dated November 23, 1994. Among the issues we will review when the design review is restarted is the ABWR "Third (isolation) valve" issue with regard to the SBWR RWCU line.

(Q-3) Jay Carroll had asked if the valve in the vessel drain line could be remotely closed, given a break in that line. Someone of your team thought it could, but said they would verify this.

(R-3) Yes, given a break in the vessel drain line, the isolation valve can be remotely closed. The appropriate SSAR figure is 21.5.4-2, sheet 1, valve F004A, which can be remotely closed from the Control Room.