



GE Nuclear Energy

P. W. Marriott, Manager
Advanced Plant Technologies

General Electric Company
175 Curtner Avenue, MC 781 San Jose, CA 95125-1014
408 925-6948 (phone) 408 925-1193 (facsimile)

December 1, 1994

MFN No. 150-94
Docket STN 52-004

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington DC 20555

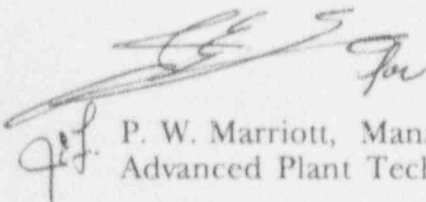
Attention: Paul A. Boehnert
Advisory Committee on Reactor Safeguards (ACRS)

Subject: **Response to Open Items from the August 24, 1994, ACRS
"Subcommittee Meeting on Thermal Hydraulic Phenomena"**

References: 1. Official Transcript of Proceedings, Wednesday,
August 24, 1994, Ann Riley & Associates, Ltd.

The enclosure to this letter contains responses to open items from the referenced
ACRS Subcommittee meeting.

Sincerely,



P. W. Marriott, Manager
Advanced Plant Technologies

Enclosures: Responses to Open Items from the August 24, 1994 ACRS
Thermal Hydraulic Subcommittee Meeting.

cc: W. R. Borchardt (NRC)
R. W. Hasselberg (NRC)
J. H. Wilson (NRC)

9412150036 941201
PDR ADDCK 05200004
A PDR

3040

Attachment to MFN No. 150-94

- | | |
|---------------------|--|
| Open Item 164&165 | Provide a discussion of the SBWR unique modeling/analysis to address hydrodynamic loads in the SBWR suppression pool. |
| GE Response 164&165 | The SBWR treatment of hydrodynamic loads is presented in Appendix 6A of the SBWR SSAR. |
| Open Item 176&177 | Provide a description of the GDCS squib valves to include a discussion as to their reliability. |
| GE Response 176&177 | A discussion of the squib valves is provided in Section 6.3.2 of the SBWR SSAR. The design of the GDCS squib valves is similar to that of the DPVs, for which an FMEA has been performed and is presented in Appendix 1B of the SBWR SSAR. |
| Open Item 177&178 | Describe GE's investigation of the use of Inconel 690 in the SBWR/ABWR, and the material and design considerations of use of Inconel 600 grade materials in the SBWR IC in particular. |
| GE Response 177&178 | The open literature contains numerous articles discussing the use of Inconel 600 alloys, including Inconel 690, in nuclear applications for both BWRs and PWRs. GENE continues to monitor this information as well as conduct its own research on the use of Inconel 600 and other alloys. The culmination of this experience is reflected in a GE specification covering materials and process controls for SBWR application. |