



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

August 26, 1993

MFN No. 137-93
Docket No. STN 52-001

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Jerry N. Wilson, Acting Director
Standardization Project Directorate

Subject: **NEPA/SAMDAs Submittal for the ABWR**

In the Staff Requirements Memorandum (SRM) dated October 25, 1991, related to SECY-91-229, "Severe Accident Mitigation Design Alternatives for Certified Standard Designs" (July 31, 1991), the Commission directed the Staff to address severe accident mitigation design alternatives (SAMDA) for certified designs in a single rulemaking process that considers both the 10CFR50.34(f) and National Environmental Policy Act (NEPA) requirements, and to require applicants for a design certification to assess SAMDAs.

In accordance with this SRM, enclosed is a Technical Support Document (TSD) for the General Electric (GE) Advanced Boiling Water Reactor (ABWR). The TSD provides assessments of SAMDAs, severe accident prevention measures and radiological impacts from normal operation for the ABWR. This document is largely based upon the safety assessment of mitigative and preventive measures provided in Appendix 19P of the Standard Safety Analysis Report (SSAR) for the ABWR. GE believes that the TSD provides a sufficient basis for NRC to issue an amendment to 10CFR51 which concludes:

- 1) that the probability of severe accidents in the ABWR is remote and speculative,
- 2) that the risks of severe accidents and the radiological impacts of normal operation of the ABWR do not constitute a significant impact to the quality of the human environment, and
- 3) that there are no reasonable alternatives for reducing these risks or impacts.

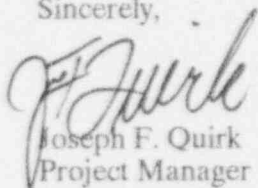
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If you have any questions on the attached TSD, please call Peter D. Knecht at (408)925-6215.

Sincerely,



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