

November 23, 1994

Mr. Joseph Quirk  
ABWR Certification Program Manager  
GE Nuclear Energy  
175 Curtner Avenue, Mail Code-782  
San Jose, California 95125

Dear Mr. Quirk:

This letter transmits a revised final design approval (FDA) for the U.S. advanced boiling water reactor (ABWR) standard design, issued pursuant to Appendix O of Part 52 of Title 10 of the Code of Federal Regulations. The FDA now has a term length of 15 years from the July 13, 1994, issuance of the original FDA and will expire on July 13, 2009, unless extended by the staff. The staff has not changed any of its findings from those in the final safety evaluation report. A copy of the Notice of Issuance of FDA for the ABWR design, which has been sent to the Federal Register for publication, is also enclosed for your information.

Sincerely,  
*Original Signed*  
William T. Russell, Director  
Office of Nuclear Reactor Regulation

Docket No. 52-001

Enclosures:

1. FDA for U.S. ABWR standard design
2. Federal Register Notice

cc w/enclosures:

See next page

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Mr. Joseph Quirk  
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Docket No. 52-001

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DOCKET NO. 52-001

GE NUCLEAR ENERGY (GE)

U.S. ABWR STANDARD DESIGN

FINAL DESIGN APPROVAL (FDA)

PURSUANT TO 10 CFR PART 52, APPENDIX O

- (1) GE has submitted to the Nuclear Regulatory Commission (NRC) staff, for its review, a standardized design for a major portion of a nuclear power facility of the type described in Section 50.22 of Title 10 of the Code of Federal Regulations (10 CFR). GE's standard design is described in the U.S. ABWR standard safety analysis report (SSAR), including Amendments 1 through 35 thereto.
- (2) The SSAR contains design information required by 10 CFR Part 52, Appendix O, Paragraph 3, for a standard design. The U.S. ABWR standard design, whose scope is defined in SSAR Section 1.1.2, is for a nuclear power facility with a rated reactor core power level of 3926 megawatts thermal.
- (3) The NRC staff and the Advisory Committee on Reactor Safeguards (ACRS) have reviewed the U.S. ABWR standard design. The findings of the staff's evaluation of the U.S. ABWR standard design are presented in the final safety evaluation report (FSER) dated June 1994. The ACRS reported on the application for design certification in a letter dated April 14, 1994 (see Chapter 21 of the FSER), as required by 10 CFR 52.53.
- (4) On the basis of its review and the findings in the FSER, the staff concludes that the information in the SSAR, with respect to the U.S. ABWR standard design as described in Paragraph 2 above, complies with the requirements of 10 CFR Part 52, Appendix O.
- (5) The U.S. ABWR standard design is acceptable for use as a reference design for construction permit and operating license applications and combined license applications for facilities that are located at sites whose characteristics are within the envelope of site parameters given in the SSAR, and the out-of-scope portions of the plant that interface with the approved design conform to the interface requirements given in the SSAR.
- (6) This FDA and all applications for operating licenses incorporating it by reference are subject to all applicable provisions of the Atomic Energy Act, as amended, and the rules and regulations and orders of the Commission now or hereafter in effect.

- (7) This FDA does not constitute a commitment to issue a permit, design certification, or license, or in any way affect the authority of the Commission, the Atomic Safety and Licensing Board, and other presiding officers in any proceeding pursuant to 10 CFR Part 2.
- (8) This FDA is effective as of its date of issuance and shall expire on July 13, 2009, unless extended by the staff. The expiration of this FDA shall not affect its use in applications docketed before such date.

Dated in Rockville, Maryland, this 23rd day of November , 1994.

FOR THE NUCLEAR REGULATORY COMMISSION



William T. Russell, Director  
Office of Nuclear Reactor Regulation