

17 Quality Assurance

Section 17.0.1, Table 17.0-1, and Section 17.1.1 describe the GE Quality Assurance (QA) Program which was implemented for the ABWR project. These Sections and Table are retained in their entirety as historically applicable to the ABWR design. Sections 17.0.2 and 17.1.2 describe the Toshiba QA Program which applies to the ABWR design.

17.0 Introduction

17.0.1 GE Quality Assurance Program

Section 17.1.1 describes the Quality Assurance (QA) Program which is implemented by GE for the ABWR project. It is based upon the standard GE QA Program documented in the GE Nuclear Energy topical report NEDO-11209-04A (Reference 17.1-1) and the additional information in this chapter describing and clarifying GE's interfaces and responsibilities with its technical associates on the ABWR. These technical associates are major international corporations who are licensees of GE's technology and have extensive independent experience in the design and construction of nuclear power stations.

The standard program is used throughout GE Nuclear Energy on all other nuclear power plant work and has been accepted by the Nuclear Regulatory Commission. It is in compliance with Title 10, Code of Federal Regulations, Part 50 (10CFR50), Appendix B; ANSI/ASME N45.2; ANSI/ASME N45.2-series standards; and NRC Regulatory Guides with some NRC-accepted GE Nuclear Energy alternate positions.

The GE QA Program described in this chapter meets Regulatory Guide 1.28, Revision 3 and is organized to show its relationship to Reference 17.1-1, ANSI/ASME NQA-1-1983 and NQA-1a-1983, and GE's interfaces with its technical associates. The terms and definitions of supplement S-1 of NQA-1a-1983 apply. Table 17.0-1 summarizes the GE QA Program compliance with the quality related Regulatory Guides.

The COL applicant/holder is responsible to prepare and implement a QA program for the construction phase of Section 17.1 and the operations phase of Section 17.2. See Subsection 17.0.3 for COL license information.

17.0.2 Toshiba Quality Assurance Program

Section 17.1.2 describes the Quality Assurance (QA) Program which is implemented by Toshiba for the ABWR project. It is based upon the standard Toshiba QA Program documented in Reference 17.1-3.

The standard program is used throughout Toshiba Corporation Power Systems Company, Nuclear Energy (Toshiba PSNE) on all nuclear power plant work. It is in compliance with Title 10, Code of Federal Regulations, Part 50 (10CFR50), Appendix B, and ASME NQA-1-1994.

The Toshiba QA Program described in this chapter meets Regulatory Guide 1.28 - 1985 and is organized to show its relationship to Reference 17.1-3, and ASME NQA-1-1994.

The COL applicant/holder is responsible to prepare and implement a QA program for the construction phase of Section 17.1 and the operations phase of Section 17.2. See Subsection 17.0.3 for COL license information.

17.0.3 COL License Information

17.0.3.1 QA Programs for Construction and Operation

The COL applicant/holder shall prepare and implement a Quality Assurance Program for the construction phase of Section 17.1 and the operations phase of Section 17.2. They will meet the requirements of ASME NQA-1-1994 and the quality related Regulatory Guides, Generic Letters, and Standards listed in Appendix 1 of Reference 17.1-3.

Table 17.0-1 GE ABWR Compliance with Quality Related Regulatory Guides

Regulatory Guide	Rev.	Comments
1.8	1	No exceptions.
1.26	3	No exceptions.
1.28	3	Except for NRC accepted alternate positions documented in Table 2-1 of Reference 17.1-1.
1.29	3	No exceptions.
1.30	0	No exceptions.
1.37	0	Except for NRC accepted alternate positions documented in Table 2-1 of Reference 17.1-1.
1.38	2	Except for NRC accepted alternate positions documented in Table 2-1 of Reference 17.1-1.
1.39	2	No exceptions.
1.58		Superseded by Reg. Guide 1.28, Rev. 3 except for NRC accepted alternate positions documented in Table 2-1 of Reference 17.1-1.
1.64		Superseded by Reg. Guide 1.28, Rev. 3 except for NRC accepted alternate positions documented in Table 2-1 of Reference 17.1-1.
1.74		Superseded by Reg. Guide 1.28, Rev. 3.
1.88		Superseded by Reg. Guide 1.28, Rev. 3 except for NRC accepted alternate positions documented in Table 2-1 of Reference 17.1-1.
1.94	1	No exceptions. Will be applied during construction.
1.116	0-R	Except for NRC accepted alternate positions documented in Table 2-1 of Reference 17.1-1.
1.123		Superseded by Reg. Guide 1.28, Rev. 3 except for NRC accepted alternate positions documented in Table 2-1 of Reference 17.1-1.
1.144		Superseded by Reg. Guide 1.28, Rev. 3.
1.146		Superseded by Reg. Guide 1.28, Rev. 3 except for NRC accepted alternate positions documented in Table 2-1 of Reference 17.1-1.