CHAPTER 17

QUALITY ASSURANCE

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CHAPTER 17

QUALITY ASSURANCE

17.1 QUALITY ASSURANCE DURING THE DESIGN AND CONSTRUCTION PHASES

This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.

LNP COL 17.5-1

The COL application development through and including COL issuance was conducted in accordance with the quality assurance requirements for the existing Progress Energy nuclear plants. The application of these requirements to the COL development activities is defined in the Progress Energy Program Manual (NGGM-PM-0030), Quality Assurance Plan for New Nuclear Plant Development and Construction Activities.

COL application development and site characterization services were procured in accordance with the existing Progress Energy Quality Assurance Program requirements from three companies that formed the Joint Venture Team; Sargent & Lundy LLC; WorleyParsons Group, Inc.; and CH2M HILL Inc. Each company performed their assigned tasks in accordance with the requirements of their own Quality Assurance Program that had been reviewed and approved by Progress Energy for conduct of safety-related work. The process of collection, review, and analysis of specific data for site characterization was performed under the CH2M HILL Quality Assurance Program as described in the Nuclear Business Group Quality Manual, NBG-QA-02-00.

Progress Energy maintains oversight of the Joint Venture Team activities performed in support of the COL application development contract in accordance with its existing 10 CFR 50 Appendix B program as described in NGGM-PM-0030, Quality Assurance Plan for New Nuclear Plant Development and Construction Activities. Progress Energy oversight of the COL development activities is provided through conducting Quality Assurance audits and surveillances of the Joint Venture Team activities and processes, and by direct participation in COL development activities, including providing site-specific applicant input and review of COL application content, signing the COL application as the applicant at submittal, and working directly with the Joint Venture Team to respond to NRC requests for additional information.

Upon approval of the COLA, the Progress Energy, Inc. Quality Assurance Program Description (QAPD) discussed in Section 17.5 will be utilized for activities related to the remaining portion of the design, construction, and operational phases for the new nuclear facilities.

17.2 QUALITY ASSURANCE DURING THE OPERATIONS PHASE

This section of the referenced DCD is incorporated by reference with no departures or supplements.

17.3 QUALITY ASSURANCE DURING DESIGN, PROCUREMENT, FABRICATION, INSPECTION, AND/OR TESTING OF NUCLEAR POWER PLANT ITEMS

This section of the referenced DCD is incorporated by reference with no departures or supplements.

17.4 DESIGN RELIABILITY ASSURANCE PROGRAM

This section of the referenced DCD is incorporated by reference with no departures or supplements.

STD DEP 1.1-1

17.5 QUALITY ASSURANCE PROGRAM DESCRIPTION – NEW LICENSE APPLICANTS

LNP COL 17.5-1
STD COL 17.5-2
STD COL 17.5-4
STD COL 17.5-8

The Quality Assurance Program in place during the design, construction, and operations phases is described in the QAPD, which is maintained as a separate document. This QAPD is based on NEI 06-14A, "Quality Assurance Program Description," which was approved by the NRC as indicated in Reference 201.

Table 13.4-201 provides milestones for operational quality assurance program implementation.

LNP COL 17.5-1

The Quality Assurance Program in place prior to implementation of the QAPD is described in Section 17.1.

STD DEP 1.1-1

17.6 MAINTENANCE RULE PROGRAM

STD SUP 17.6-1

This section incorporates by reference NEI 07-02A, "Generic FSAR Template Guidance for Maintenance Rule Program Description for Plants Licensed Under 10 CFR Part 52," with the following supplemental information. See Table 1.6-201.

Table 13.4-201 provides milestones for maintenance rule program implementation.

The text of the template provided in NEI 07-02A is generically numbered as "17.X."
When the template is incorporated by reference into this FSAR, section numbering is changed from "17.X" to "17.6."

STD SUP 17.6-1

Descriptions of the programs listed in Subsection 17.6.3 of NEI 07-02A are provided in the following FSAR chapters/sections:

The maintenance rule program (Section 17.6)

The quality assurance program (Section 17.5)

Inservice inspection program (Sections 5.2 and 6.6)

Inservice testing program (Section 3.9)

The technical specifications surveillance test program (Chapter 16)

STD DEP 1.1-1

17.7 COMBINED LICENSE INFORMATION ITEMS

Section 17.5 of the referenced DCD is incorporated by reference with the following departures and/or supplements.

LNP COL 17.5-1

This COL Item is addressed in Sections 17.1 and 17.5.

STD COL 17.5-2

This COL Item is addressed in Section 17.5.

STD COL 17.5-4

This COL Item is addressed in Section 17.5.

STD COL 17.5-8

This COL Item is addressed in Section 17.5.

STD DEP 1.1-1

17.8 REFERENCES

Section 17.6 of the referenced DCD is incorporated by reference with the following departures and/or supplements.

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201. U.S. Nuclear Regulatory Commission, “Final Safety Evaluation Report for Technical Report NEI 06-14A “Quality Assurance Program Description,” Rev. 4, ML072200084, July 2007.