

**V. C. Summer Nuclear Station, Units 2 and 3
COL Application
Part 2, FSAR**

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.

Replace the information in **DCD Section 17.1** with the following information.

VCS COL 17.5-1 The VCSNS COLA has been assembled from material incorporated by reference from the Westinghouse AP1000 DCD, from standard departure and supplemental materials developed by NuStart, and from site-specific materials developed by SCE&G and its contractors.

The quality program applicable to the development of the AP 1000 DCD material is described in **Section 17.3** of the DCD which is incorporated by reference.

NuStart was created by multiple utilities for the purpose of demonstrating the licensing process defined by 10 CFR Part 52. For the standard DCD departure and supplemental materials, NuStart maintains oversight for those activities performed as part of its COL application contract. SCE&G maintains oversight through the NuStart-member review and approval of the NuStart QA Plan (**Reference 201**), NuStart-member review and approval of the industry-standard COL sections, and through direct participation in generic COL development activities.

The SCE&G quality assurance program for design, construction, and operations is defined in **Section 17.5**. The QA program will evolve in a phased approach through COL preparation, site preparation, construction, start-up testing and eventually operations. A version of the current QA program for VC Summer Unit 1 was used during preparation of the COLA. This plan provided QA guidance meeting the requirements of 10CFR50 Appendix B applicable to safety-related site characterization activities and oversight of COLA content providers. An interim version of the program described in **Section 17.5** (eliminating, for example, operational considerations) will be implemented upon receipt of the VCSNS COL. The **Section 17.5** program will be fully incorporated and implemented prior to execution of safety-related operational activities.

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17.2 QUALITY ASSURANCE DURING THE OPERATIONS PHASE

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

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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.

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17.4 DESIGN RELIABILITY ASSURANCE PROGRAM

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

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STD DEP 1.1-1 17.5 QUALITY ASSURANCE PROGRAM DESCRIPTION - NEW LICENSE APPLICANTS

VCS COL 17.5-1 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 in [Reference 203](#).
STD COL 17.5-2
STD COL 17.5-4
STD COL 17.5-8

[Table 13.4-201](#) provides milestones for operational quality assurance program implementation.

VCS COL 17.5-1 The Quality Assurance Program in place prior to implementation of the QAPD is described in [Section 17.1](#).

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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](#))

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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.

VCS 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**.

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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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- VCS SUP 17.8-1 201. NuStart Energy, LLC., "NuStart Energy Project Instruction – Quality Assurance Plan," PI-009.
202. "NRC Audit Report for the South Carolina Electric and Gas (SCE&G) VC Summer Nuclear Plant Combined License Application Review," J. W. Chung to A. M. Monroe, November 16, 2007 (ML073100387).
203. U.S. Nuclear Regulatory Commission, "Final Safety Evaluation Report for Technical Report NEI 06-14A, "Quality Assurance Program Description," Rev. 4, ML072200084, July 2007.
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