

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.

WLS COL 17.5-1 The Duke Energy Quality Assurance (QA) Program along with the Westinghouse Electric Company Quality Management System (**DCD Section 17.6** Reference 9) defines the QA program requirements for design activities. These program requirements remain in effect until such time as the Quality Assurance Program Description (QAPD) discussed in **Section 17.5** becomes effective.

Duke Energy contracted with Enercon Services, Inc. to develop the Lee Nuclear Station Combined License (COL) application, including site characterization activities. The process of collection, review and analysis of specific data for site characterization was performed under the Enercon Quality Assurance Program and is described in the Enercon Quality Assurance Project Planning Document (**Reference 201**). Duke Energy maintains oversight under its existing 10 CFR Part 50, Appendix B program, as described in "Duke Energy Carolinas Topical Report Quality Assurance Program" (**Reference 202**). Duke Energy oversight is provided through its review and approval of the Enercon QA Plan, by conducting QA audits and surveillances of Enercon activities, and by direct participation in COL development activities. This includes providing site specific applicant input and review of COL application content, signing the COL application as applicant at submittal, and working directly with Enercon and contractors to respond to NRC requests for additional information.

The QAPD discussed in **Section 17.5** will become effective after receipt of a COL, and establishes the QA program requirements for the remaining portion of the design and construction phases. Duke Energy will include flowdown requirements based on the QAPD into contracts issued for design, construction, or procurement of safety-related structures, systems, and components.

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

DCD Section 17.5, Combined License Information, is renumbered in this FSAR section to 17.7.

WLS COL 17.5-1 The Quality Assurance Program in place during the design, construction, and
STD COL 17.5-2 operations phases is described in the QAPD, which is maintained as a separate
STD COL 17.5-4 document. This QAPD is based on NEI 06-14, “Quality Assurance Program
STD COL 17.5-8 Description,” which was approved by the NRC in [Reference 203](#).

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

WLS 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 07-02 Revision 3, "Generic FSAR Template Guidance for Maintenance Rule Program Description for Plants Licensed Under 10 CFR Part 52," which is currently under review by the NRC staff, 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 07-02 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 07-02 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.

WLS 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.

201. Enercon Services, Inc., "Enercon Quality Assurance Project Planning Document," PPD No. DUK010, Revision 4, July 2007.
 202. Duke Energy Carolinas, "Duke Energy Carolinas Topical Report - Quality Assurance Program," Duke-1-A, May 2007.
 203. U.S. Nuclear Regulatory Commission, "Final Safety Evaluation Report for Technical Report NEI 06-14 "Quality Assurance Program Description," April 25, 2007.
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