

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 Duke Energy Carolinas (Duke) is responsible for the establishment and execution of quality assurance program requirements during the design, construction, and operations phases of Lee Nuclear Station Units 1 and 2. Duke may delegate, and has delegated to others, as discussed below, the work of establishing and executing the quality assurance program, or any parts thereof, but retains responsibility for the quality assurance program.

The Duke Energy Quality Assurance (QA) Program defines the QA program requirements for design and construction 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.

Implementation of the applicable portions of the "Quality Assurance Program Description" QAPD discussed in **Section 17.5** begins at COL issuance. The program establishes the QA program requirements for the remaining portion of the design and construction phases and for operations; however, full implementation of the operations related requirements will be no later than as indicated in **Table 13.4-201**.

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 “Nuclear Plant Development Quality
Assurance Program Description (QAPD)”, which is maintained as a separate
STD COL 17.5-4 document. The QAPD is included in the Lee COL application as Part 11 and is
incorporated by reference. This QAPD is based on NEI 06-14A, “Quality
STD COL 17.5-8 Assurance Program Description,” which was approved by the NRC ([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 07-02A, "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.

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.

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- WLS SUP 17.8-1 201. Enercon Services, Inc., "Enercon Quality Assurance Project Planning Document," PPD No. DUK010, Revision 6, July 2008.
202. Duke Energy Carolinas, "Duke Energy Carolinas Topical Report - Quality Assurance Program," DUKE-1-A.
203. Nuclear Energy Institute, "Quality Assurance Program Description," NEI 06-14A, Revision 4, July 23, 2007.
204. Nuclear Energy Institute, "Generic FSAR Template Guidance for Maintenance Rule Program Description for Plants Licensed Under 10 CFR Part 52," NEI 07-02A, Revision 0.
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