



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

December 20, 2016

Michael Yox
Regulatory Affairs Director
Southern Nuclear Operating Company
7835 River Road, Bldg. 140, Vogtle 3 & 4
Waynesboro, GA 30830

**SUBJECT: VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4 – NRC PERIODIC
INSPECTION OF QUALITY ASSURANCE PROGRAM, REPORTS
05200025/2016008, 05200026/2016008**

Dear Mr. Yox:

On November 18, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at your Vogtle Electric Generating Plant (VEGP) Units 3 and 4. The enclosed inspection report documents the inspection results, which the inspectors discussed on November 18, 2016 with you and other members of your staff.

The inspection examined a sample of construction activities conducted under your Combined License (COL) as it relates to safety and compliance with the Commission's rules and regulations and with the conditions of these documents. These activities included implementation of elements of the quality assurance program as described in your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any), will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system Agencywide Documents Access & Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this letter, please contact us.

Sincerely,

/RA/

Jamie Heisserer, Chief
Construction Inspection Branch 1
Division of Construction Oversight

Docket Nos.: 5200025, 5200026

License Nos: NPF-91, NPF-92

Enclosure: NRC Inspection Report (IR) 05200025/2016008, 05200026/2016008
W/attachment: Supplemental Information

cc w/encls.

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Sincerely,

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W/attachment: Supplemental Information

cc w/encls.

ADAMS Accession No.: **ML16356A258**

Publicly Available Non-Publicly Available Sensitive Non-Sensitive SUNSI Review Complete Form 665 Attached

OFFICE	RII:DCO/CIB1	DCO/CIB4	DCO/CIB2	DCO/CIB1	DCO/CIB1		
SIGNATURE	/RA via email/	/RA via email/	/RA via email/	/RA via email/	/RA/		
NAME	S. Temple	C. Jones	T. Steadham	T. Brimfield	J. Heisserer		
DATE	12/19/2016	12/19/2016	12/19/2016	12/19/2016	12/20/2016		
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY

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U.S. NUCLEAR REGULATORY COMMISSION
Region II

Docket Numbers: 5200025
5200026

License Numbers: NPF-91
NPF-92

Report Numbers: 05200025/2016008
05200026/2016008

Licensee: Southern Nuclear Operating Company, Inc.

Facility: Vogtle Electric Generating Plants Units 3 & 4

Location: Waynesboro, GA

Inspection Dates: November 14, 2016, through November 18, 2016

Inspectors: T. Brimfield, Resident Inspector, Division of Construction Oversight (DCO)
C. Jones, Senior Construction Inspector, DCO
T. Steadham, Senior Construction Inspector, DCO
S. Temple, Resident Inspector, DCO

Approved by: Jamie Heisserer, Branch Chief,
Construction Inspection Branch 1
Division of Construction Oversight

Enclosure

SUMMARY OF FINDINGS

Inspection Report (IR) 05200025/2016008, 05200026/2016008; 11/14/2016 through 11/18/2016; Vogtle Unit 3 Combined License, Vogtle Unit 4 Combined License, NRC program inspection for annual Quality Assurance Program Implementation.

This report covers an announced team inspection during the week of November 14 through 18, 2016, of the quality assurance program procedures and implementation by regional and resident inspectors. The NRC's program for overseeing the construction of commercial nuclear power reactors is described in Inspection Manual Chapter (IMC) 2506, "Construction Reactor Oversight Process General Guidance and Basis Document."

A. NRC-Identified and Self Revealed Findings

No findings were identified

B. Licensee-Identified Violations

No findings were identified

REPORT DETAILS

1. CONSTRUCTION REACTOR SAFETY

Cornerstones: Design/Engineering, Procurement/Fabrication, Construction/Installation, Inspection/Testing

IMC 2503, Inspections, Tests, Analyses, and Acceptance Criteria (ITAAC) - Related Work Inspections

1A01 (Units 3 & 4) ITAAC Number 2.2.03.02a (159) / Family 06F

a. Inspection Scope

The inspectors performed a direct inspection of construction activities associated with ITAAC Number 2.2.03.02a (159). The inspectors used the following NRC Inspection Procedures (IPs)/sections to perform this inspection:

- 65001.F- Inspection of the ITAAC-Related Design and Fabrication Requirements
- 65001.F-02.02-Fabrication Records Review
- 65001.F-02.04-General Quality Assurance (QA) Review

The inspectors reviewed the licensee's QA external audit program to determine whether Westinghouse Electric Company (WEC) had effectively implemented their QA audit program as required for supplier oversight and whether the records established an adequate basis for the acceptance of applicable ITAAC with design and fabrication attributes. The inspectors reviewed WEC Supplier Quality Program Audit Report WES-2016-010 and associated documentation, including the audit plan, audit findings and follow-up actions, and the purchase order to determine whether:

- personnel conducting the audit evaluated programmatic compliance and effectiveness of the implementation of the applicable QA program;
- the audit plan was prepared and issued;
- the audit report included a determination of effectiveness of implementation and compliance with the applicable QA program, was reviewed by management responsible for audited areas, was distributed to designated organizations, and included a summary of identified deficiencies and nonconformances and response due dates;
- deficiencies and nonconformances identified during the audit were tracked and have been resolved;
- the scope of the audit verified that the supplier would sufficiently demonstrate that structures, systems, and components were fabricated in conformance with requirements of applicable codes and standards, the facility license, the Updated Final Safety Analysis Report (UFSAR), and regulations;
- the scope of the audit verified that the supplier had established and effective method for tracking, evaluating, dispositioning, and documenting changes, modifications, nonconformances, and deviations;

- the status of the supplier on the applicable quality approved supplier list reflected the audit status and any open audit findings;
- the purchase order appropriately specified acceptable quality, technical, and 10 CFR Part 21 requirements; and
- the scope of the audit sufficiently encompassed the scope of the purchase order.

b. Findings

No findings were identified.

IMC 2504, Construction Inspection Program – Inspection of Construction and Operational Programs

1P01 Construction QA Criterion 1

- 35007-A1 - Appendix 1. Inspection of Criterion I – Organization
- 35007-A1.04 – Inspection Requirements and Guidance
- 35007-A1.04.02 - Inspection of QA Program Implementation

a. Inspection Scope

The inspectors reviewed the licensee's organization to determine whether the licensee had effectively implemented its QA implementing documents for organization, including delegation of authority. The inspectors reviewed the QA organizations for Southern Nuclear Company (SNC), the licensee; WEC, the design authority; (WECTEC), the contractor; and Williams, a subcontractor. Specifically, the inspectors reviewed organizational descriptions, reviewed documented delegations, interviewed personnel with specific QA functions outlined in the Quality Assurance Program Descriptions (QAPDs), and interviewed personnel performing work under the QA programs to determine whether:

- the QA program organizations were established and their requirements were clear;
- implementation of the organizational structures, responsibilities, and authorities met the requirements of the applicable QA programs;
- individuals working under a QA program had an adequate understanding of the program, their roles and responsibilities, and the importance of their compliance with the applicable QA program;
- staff performing QA functions were independent from the work being performed and had organizational freedom to identify quality problems, initiate or recommend solutions, and verify implementations of solutions;
- staff understood their responsibilities and lines of authority;
- delegation of work to others, both internally and to contractors, was at the appropriate reporting level within the organization;
- delegated responsibilities to contractors and subcontractors clearly describes which QA program would be followed for performing work; and

- the licensee and delegating authority had adequate measures in place to verify that the contractors and subcontractors followed the applicable QA program.

The inspectors reviewed recent changes made to the organizational structure of SNC, WEC, and WECTEC, focusing on the relationships between the licensee and contractor management and the organizations responsible for QA functions, to verify these changes did not adversely impact the ability of the licensee and contractors to effectively implement the applicable QA programs.

b. Findings

No findings were identified.

1P02 Construction QA Criterion 18

- 35007-A18 - Appendix 18. Inspection of Criterion XVIII – Audits
- 35007-A18.04 - Inspection Requirements and Guidance
- 35007-A18.04.02 - Inspection of QA Program Implementation

a. Inspection Scope

The inspectors reviewed the licensee's QA internal and external audit programs to verify that SNC, WEC, and WECTEC had effectively implemented their programs as required by the applicable QAPDs and commitments in the UFSAR. The inspectors reviewed procedures for planning and implementing QA oversight of activities affecting quality as conducted by Vogtle Unit 3 and Unit 4 project personnel and by their external suppliers. The review of audit schedules and procedures was performed to determine whether:

- implementation of the licensee's process for conducting audits met the requirements of the applicable QAPDs;
- the areas to be audited and audit frequencies for internal audits were identified and consistent with commitments in the QA program;
- external audits were conducted prior to placing the supplier on the quality approved supplier list and implementation reviews were conducted after initial purchases as necessary.

The inspectors conducted interviews with auditors and reviewed a sample of audit reports, surveillance reports, and associated documentation, including audit plans, checklists, audit findings, follow-up actions, procurement documents, and contract documents to determine whether:

- personnel conducting audits and surveillances evaluated programmatic compliance and effectiveness of the implementation of the applicable QA program;
- audits were included in the audit schedule and were performed within the scheduled time frames;
- audits were independent of the organizations being audited and were conducted by qualified auditors;
- audit plans and checklists were prepared and issued;

- audit reports included a determination of effectiveness of implementation and compliance with the applicable QA program;
- audit and surveillance reports were reviewed by management responsible for audited areas;
- audit reports were distributed to designated organizations;
- each audit and surveillance report included a summary of identified deficiencies and nonconformances, and a response due dates;
- deficiencies and nonconformances identified during audits and surveillances were tracked and resolved;
- findings corrected during audits and surveillances were documented and verified during a follow-up process;
- the status of suppliers on the applicable quality approved supplier list reflected the audit status and any open audit findings; and
- the scope of the audits sufficiently encompassed the scope of the procurement or contract documents.

The inspectors conducted interviews with and reviewed qualification records for a sample of auditors associated with the audit reports reviewed to determine whether:

- auditors did not have direct responsibility in the areas that were audited, nor did they perform the work being audited;
- auditors were trained and auditor training was maintained in accordance with the requirements of the applicable QA program;
- specialists who participated on the audit team received an audit briefing prior to the start of the audit;
- auditors had direct access to the levels of management of the activities being audited; and
- audits and surveillances were accurately documented.

b. Findings

No findings were identified.

1P03 Construction QA Criterion 2

- 35007-A2 - Appendix 2. Inspection of Criterion II – Quality Assurance Program
35007-A2.04 - Inspection Requirements and Guidance
- 35007-A2.04.02 - Inspection of QA Program Implementation

a. Inspection Scope

The inspectors reviewed the licensee's QA implementing documents and observed work being performed to verify if the licensee had effectively implemented its QA program. The inspectors reviewed the SNC, WEC, and WECTEC QAPDs, including overall program structures, to determine whether major organizations participating in the QA programs, along with their designated functions, were described. The inspectors reviewed current revisions of the applicable QAPDs, including recent QA program changes, to determine whether changes were documented and submitted to the NRC as required. Additionally, the inspectors observed implementation of the QA

program through review of a sample of work instructions, work plans, field activities, and work records to determine whether implementation of the QA program ensured:

- activities affecting quality were accomplished under controlled conditions, including use of appropriate equipment, conduct of work under suitable environmental conditions, and fulfillment of prerequisites;
- work plans were approved by the appropriate personnel responsible for the work;
- work was performed to approved instructions, procedures, and drawings;
- records were adequate to furnish evidence of activities affecting quality;
- recorded information was complete, accurate, and met the requirements of the QA program; and
- records were reviewed and approved by the responsible organization.

The inspectors interviewed and reviewed training and qualification records for a sample of individuals performing work under the QA program, including Quality Control (QC) inspectors, auditors, surveillants, craft, and test personnel to determine whether:

- staff members understood which Structures, Systems, and Components (SSCs) were covered by the QA program they supported;
- personnel performing activities affecting quality were qualified, received adequate indoctrination and training, and orientation and training were completed within the specified time frame; and
- individuals performing QA functions had the authority to stop work when necessary.

The inspectors reviewed a sample of stop work documentation to determine whether work was stopped by designated onsite QA personnel and potentially affected management personnel and organizations were notified of the stop work condition in a timely manner. The inspectors reviewed a sample of management assessments, assessment schedules, and associated corrective actions to determine whether:

- assessments were performed on schedule and were documented;
- assessments were conducted at an appropriate frequency, at sufficient depth, and in a comprehensive, objective, and self-critical manner;
- assessment results and recommendations are reviewed by management having responsibility for the area evaluated; and
- any conditions adverse to quality identified as a result of an assessment were promptly brought to the attention of the appropriate level of management for action and were entered into the corrective action program.

b. Findings

No findings were identified.

1P04 Construction QA Criterion 5

- 35007-A5 - Appendix 5. Inspection of Criterion V – Instructions, Procedures, and Drawings
- 35007-A5.04 - Inspection Requirements and Guidance
- 35007-A5.04.02 - Inspection of QA Program Implementation

a. Inspection Scope

The inspectors reviewed the licensee's QA implementing instructions, procedures, and drawings and interviewed personnel to determine whether the documents accurately translated design information, individuals were trained to follow them, and the licensee had effectively implemented its QA program for revising implementing documents. Specifically, the inspectors reviewed a sample of QA program documents for SNC, WEC, and WECTEC that specifically addressed preparation and modification of implementing documents to determine whether they were consistent with the applicable NRC approved QAPDs and commitments in the UFSAR. Additionally, the inspectors reviewed a sample of recently revised and modified implementing documents, including procedures, specifications, and work instructions, to determine whether:

- implementing documents were established and approved prior to the commencement of work;
- design requirements, including standards and specifications, were adequately translated or referenced;
- recent changes, revisions, and modifications were prepared and available to personnel in a timely manner and did not alter or reduce established program requirements; and
- changes were adequately marked, including a description of the reason for changing the document.

The inspectors reviewed a sample of in-process work instructions in the field to determine whether the latest approved revisions of instructions, procedures, drawings, and referenced documents were available at the work area. The inspectors conducted interviews with a sample of individuals performing work under the QA program, including QC inspectors, auditors, surveillants, craft, test personnel, and managers, to determine whether individuals performing safety-related work followed approved implementing procedures and personnel conducting work under the QA program were trained and knowledgeable of QA implementing documents.

b. Findings

No findings were identified.

4. **OTHER INSPECTION RESULTS**

4OA6 Meetings, Including Exit

On November 18, 2016, the inspectors presented the inspection results to Mark Rauckhorst, Executive Vice President Vogtle 3&4 Construction, along with other licensees and contractor staff members. The inspectors verified that no propriety information was retained by the inspectors or documented in this report.

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licenses and Contractor Personnel

D. Adams, SNC QA Supervisor
H. Agha, SNC Licensing Engineer
M. Blose, WEC Principal Quality Engineer
A. Buckley, WECTEC Licensing Engineer
R. Calia III, WEC Performance Improvement Director
F. Hundley, SNC Performance Improvement & Corrective Action Program Manager
G. Koucheravy, WEC Site Vice President & Project Director, Vogtle Project
L. Lubic, WEC Quality Programs & Audit Manager
A. Parton, SNC Nuclear Development Quality Assurance Manager
T. Saunders, SNC Construction Compliance Director
P. Shaw, WEC Licensing Engineer
F. Willis, SNC Licensing Manager

LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED

<u>Item Number</u>	<u>Type</u>	<u>Status</u>	<u>Description</u>
None			

LIST OF DOCUMENTS REVIEWED

Section 1A01

Corrective Action Documents:

Westinghouse SCAR 100361654
Westinghouse SCAR 100361706
Westinghouse SCAR 100361732
Westinghouse SCAR 100361733
Westinghouse SCAR 100361736
Westinghouse SCAR 100361739
Westinghouse SCAR 100361756
Westinghouse SCAR 100361757
Westinghouse SCAR 100361780
Westinghouse SCAR 100361782
Westinghouse SCAR 100361785
Westinghouse SCAR 100361787

Miscellaneous:

Audit Plan WES-2016-010, NIAC # 21085, "NIAC Assessment Plan," 01/18/2016
Change to Purchase Order 4500340946, 02/17/2014
Change to Purchase Order 4500340946, 10/10/2014

Purchase Order 4500340946, "Vogtle Project, Units 3 and 4, PV16, ASME Section III Auxiliary Relief Valves (Classes 2 and 3)," 03/31/2010
 WEC Supplier Quality Program Audit Report WEC-2016-010, NIAC Audit 21085, "Pentar Valves & Controls, US LP," 02/26/2016

Procedures:

QA-2.8, "Qualification of Audit Personnel," Revision 0.0
 QAD 02.13, "Qualification and Certification of Personnel Performing Quality Assurance Audits," Revision 03.00
 QAD 07.19, "Use of Nuclear Industry Assessment Committee (NIAC) Member Audits," Revision 3.01
 QAD 18.01, "Quality Assurance Audits," Revision 9.01
 QS 18.01, "Quality Audit Program," Revision 4
 W2-9.5-104, "Supplier Oversight," Revision 0.2

Quality Assurance Manuals:

SNC, "Nuclear Development Quality Assurance Manager," Revision 14.0
 WEC, "Quality Management System-A," Revision 7

Section 1P01

Audits, Surveillances, and Assessments:

NDQA-2016-S003, "Surveillance of the effectiveness and status of the Contractor Transition," 2/26/2016
 WES-2016-024, "CBI Services Vogtle," Revision 0
 SNC-ND-2016.03, "Audit of WEC SITE QA," 3/30/2016

Miscellaneous:

WECTEC, "Vogtle Units 3 & 4 Project Quality Assurance Plan", Revision 5
 WEC, "AP1000 Projects Vogtle 3&4 Organizational Chart", 09/01/16

Procedures and Specifications:

APP-GW-GAH-004, "AP1000 Program Project Quality Plan", Revision 4
 APP-GW-GAH-010, "Project Quality Assurance Program Interface Plan for Domestic AP1000 Projects", Revision 7
 APP-GW-GAH-030, "Quality Assurance Requirements for Safety Related Components/Services of Standard AP1000 Plants", Revision 7
 APP-GW-GAH-040, "AP1000 Owner Designee's Responsibilities Project Quality Plan", Revision 0
 APP-GW-GAP-147, "AP1000 Current Licensing Basis Review", Revision 3
 APP-GW-GAP-434, "New Plants & Major Projects AP1000 Change Notice Procedure", Revision 3
 ND-CO-003, "Unit 3&4 Construction Conduct of Operations", Revision 7.1
 ND-CO-006, "Technical Compliance - Engineering Conduct of Operations", Revision 11.2
 ND-CO-007, "Nuclear Development Supplier Compliance Conduct of Operations," Revision 11.1
 ND-CO-014, "Construction Compliance Conduct of Operations", Revision 6
 ND-CO-015, "Nuclear Development Quality Assurance Conduct of Operations", Revision 3.3
 ND-CO-020, "Project Management and Project Controls Conduct of Operations", Revision 2.2
 QMS-A, "Quality Management System-A", Revision 7
 SV0-GW-GAH-010, "Vogtle 3 & 4 Supplemental Project Quality Assurance Plan", Revision 4
 SV0-GW-GAH-010, "Vogtle 3 & 4 Supplemental Project Quality Assurance Plan", Revision 5
 SV0-GW-GBH-300, "Vogtle 3 & 4 Project Execution Plan", Revision 3

W2-9.5-104, "Supplier Oversight," Revision 0.2
 WEC 23-33, "Westinghouse WECTEC Interface Agreement," Revision 1.0

Quality Assurance Manuals:

SNC, "Nuclear Development Quality Assurance Manager," Revision 14.0
 WEC, "Quality Management System-A," Revision 7
 WECTEC, "Quality Assurance Manual," Revision 0
 WECTEC, "Vogtle Units 3 & 4 Project: Project Quality Assurance Plan," Revision 005
 Williams, "Quality Assurance Manual," Revision 3

Section 1P02

Audit Plans:

WES-2016-024, "Westinghouse Quality Program Audit Plan," Revision 1
 V2015-42, "Audit of NNI QA Program," 05/15/2015
 WES-2016-010, NIAC # 21085, "NIAC Assessment Plan," 01/18/2016
 WES-2014-086, "Westinghouse Quality Program Audit Plan," 09/03/2014

Audits, Surveillances, and Assessments:

CB&I V2015-42, "Audit of Newport News Industrial Corporation QA Program," 07/07/2015
 CMP-NI-2016-11-12578, "Unit 4 Nuclear Island – Examination of Column Line 7.3 Wall Reinforcing to Ensure Compliance with Design Requirements," 11/16/2016
 NDQA-2016-S003, "Surveillance of the effectiveness and status of the Contractor Transition," 2/26/2016
 NDQA-2016-S008, "Surveillance of Training and Qualifications," 3/31/2016
 NDQA-2016-S016, "Surveillance of Work Management, Work Package Quality," 6/28/2016
 NDQA-2016-S017, "Surveillance of Procedure Use and Adherence by WECTEC QC," 6/30/2016
 NDQA-2016-S033, "Craft Qualifications," 11/3/2016
 SNC-ND-2016.03, "Audit of WEC SITE QA," 3/30/2016
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 SV3-2016-0051, "PCI (WECTEC): Machining of Weld Overlay-Unit 3 SG B Intermediate Lateral Support B," 11/01/2016
 SV3-2016-0061, "PCI: Welding – Bracket Install for Vogtle Unit 3 SG "B" Intermediate Lateral Support "A," 11/22/2016
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 Westinghouse SCAR 100366381
 Westinghouse SCAR 100366382
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 SNC 2017 Nuclear Development Quality Assurance Audit Schedule, Revision 1
 SV0-MV50-Z5-004, "Appendix 3: Technical for the AP1000 Containment Vessel Purchase Agreement for the Vogtle 3 & 4 Project," Revision 3
 SV3-PH01-GNR-000012, "PCI N&D 911082-002 Base Metal Mk 09 CA01-06," Revision 0
 WEC Internal Audit Schedule – 2016, Updated September 2016
 WEC Quality Suppliers List, 10/10/2016
 WEC Vogtle Exhibit Q Supplier Audit, Surveillance, & Activity Schedule Affecting Vogtle, 09/30/2016
 WECTEC 2016-2017 Audit Schedule
 WECTEC Quality Rating List, 09/21/2016

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 ND-QA-003, "Nuclear Development Quality Assurance Surveillances," Revision 12.0
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 ND-QA-009, "Supplier Quality-Related Program Audits," Revision 8.0
 ND-QA-013, "Nuclear Development Quality Assurance Assessments," Revision 9.1
 ND-QA-014, "Audits of the NDQA Department", Revision 7.0
 QA-2.8, "Qualification of Audit Personnel," Revision 0.0
 QAD 02.13, "Qualification and Certification of Personnel Performing Quality Assurance Audits," Revision 03.00
 QAD 07.19, "Use of Nuclear Industry Assessment Committee (NIAC) Member Audits," Revision 3.01
 QAD 18.01, "Quality Assurance Audits," Revision 9.01
 QAD 18.12, "Quality Assurance Surveillances," Revision 04.00
 QAD 18.13, "Quality Assurance Supplier Surveillances," Revision 3.01
 QAD 18.14, "Supplier Source Surveillances," Revision 0
 QS 18.01, "Quality Audit Program," Revision 4
 SV0-GW-GTP-001, "Vogtle 3 & 4 AP1000 Site Quality Training and Qualification Procedure," Revision 3
 SV0-GW-GTP-001, "Vogtle 3 & 4 Site Quality Training and Qualification Procedure," Revision 2
 W2-4.2-101, "Internal Quality Assurance Audits," Revision 1.0
 W2-9.5-104, "Supplier Oversight," Revision 0.2
 WEC 23-33, "Westinghouse WECTEC Interface Agreement," Revision 1.0

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 CAR 2015-1697

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 132175-MSOW-16-0001, "Management Suspension of Work", 03/17/16
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 APP-GW-GAP-147, "AP1000 Current Licensing Basis Review", Revision 3, 09/18/15
 APP-GW-GAP-434, "New Plants & Major Projects AP1000 Change Notice Procedure", Revision 3
 NCSP02-19, "Work Package Planning, Development, Approval and Closure", Revision 7.03
 ND-CO-003, "Unit 3&4 Construction Conduct of Operations", Revision 7.1
 ND-CO-006, "Technical Compliance - Engineering Conduct of Operations", Revision 11.2
 ND-CO-007, "Nuclear Development Supplier Compliance Conduct of Operations," Revision 11.1
 ND-CO-014, "Construction Compliance Conduct of Operations", Revision 6
 ND-CO-015, "Nuclear Development Quality Assurance Conduct of Operations", Revision 3.3
 ND-CO-020, "Project Management and Project Controls Conduct of Operations", Revision 2.2
 ND-DC-008, "Procedure Preparation and Control", Revision 17
 ND-QA-003, "Nuclear Development Quality Assurance Surveillances," Revision 12.0
 ND-QA-007, "Quality Assurance Escalation and Stop Work", Revision 9
 ND-QA-008, "Quality Assurance Training and Qualification of Personnel," Revision 17.0
 ND-QA-009, "Supplier Quality-Related Program Audits," Revision 8.0
 ND-QA-013, "Nuclear Development Quality Assurance Assessments," Revision 9.1
 ND-QA-014, "Audits of the NDQA Department", Revision 7.0

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 QMS-A, "Quality Management System-A", Revision 7
 SV0-GW-GTP-001, "Vogtle 3 & 4 Site Quality Training and Qualification Procedure", Revision 2
 SV0-GW-GTP-001, "Vogtle 3 & 4 AP1000 Site Quality Training and Qualification Procedure,"
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 SWO-2015-003, "Stop Work Order", 05/06/15
 W2-4.2-101, "Internal Quality Assurance Audits," Revision 1.0
 W2-9.14-103, "Stop Work", Revision 0.1
 W2-9.5-104, "Supplier Oversight," Revision 0.2
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 WECTEC, "Quality Assurance Manual," Revision 0
 WECTEC, "Vogtle Units 3 & 4 Project: Project Quality Assurance Plan," Revision 005
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 Reinforcing to Ensure Compliance with Design Requirements," 11/16/2016
 SA-PI-15.01, Corrective Action Program Self-Assessment, 04/15/15
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 SA-QA-14.08, Procurement QA Self-Assessment, 04/04/14
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 Intermediate Lateral Support A," 11/09/2016
 SV3-2016-0051, "PCI (WECTEC): Machining of Weld Overlay-Unit 3 SG B Intermediate Lateral
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 SV3-2016-0061, "PCI: Welding – Bracket Install for Vogtle Unit 3 SG "B" Intermediate Lateral
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 SV3-2016-0062, "PCI: Welding – Industrial Safety," 11/22/2016
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 SNC AQAM, "ASME Quality Assurance Manual for Owner's Oversight Activities", Revision 4
 WEC, "Quality Management System-A," Revision 7
 WECTEC, "Quality Assurance Manual," Revision 0
 WECTEC, "Vogtle Units 3 & 4 Project: Project Quality Assurance Plan," Revision 005

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F-S511-001, "Quality Inspection Plan for Rebar Bending and threading, IR No. C112-16-12115",
 Revision 11
 PCI Quality Assurance Traveler 911082-003, "Bracket Install for Vogtle Unit 3 SC "B"
 Intermediate Lateral Support "A"," Revision 0

Quality Inspection Plan F-S561-004, "Structural Weld Inspection-Modules, and 'Fabrication' and 'Submodule Assembly' Tolerances," Revision 20
 V-16-MT-302-3667, "Mistras Magnetic Particle Examination Report, Work Order Pkg. SV3-1153-ERW-861556", 11/16/16
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 APP-GW-GAH-004, "AP1000 Program Project Quality Plan", Revision 4
 APP-GW-GAH-030, "Quality Assurance Requirements for Safety Related Components/Services of Standard AP1000 Plants", Revision 7
 APP-GW-GAP-115, "Stop Work Interface Procedure", Revision 1
 APP-GW-GAP-147, "AP1000 Current Licensing Basis Review", Revision 3, 09/18/15
 APP-GW-GAP-434, "New Plants & Major Projects AP1000 Change Notice Procedure", Revision 3
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 ND-CO-006, "Technical Compliance - Engineering Conduct of Operations", Revision 11.2
 ND-CO-007, "Nuclear Development Supplier Compliance Conduct of Operations," Revision 11.1
 ND-CO-014, "Construction Compliance Conduct of Operations", Revision 6
 ND-CO-015, "Nuclear Development Quality Assurance Conduct of Operations", Revision 3.3
 ND-CO-020, "Project Management and Project Controls Conduct of Operations", Revision 2.2
 ND-DC-008, "Procedure Preparation and Control", Revision 17
 ND-QA-003, "Nuclear Development Quality Assurance Surveillances," Revision 12.0
 ND-QA-007, "Quality Assurance Escalation and Stop Work", Revision 9
 ND-QA-008, "Quality Assurance Training and Qualification of Personnel," Revision 17.0
 ND-QA-009, "Supplier Quality-Related Program Audits," Revision 8.0
 ND-QA-013, "Nuclear Development Quality Assurance Assessments," Revision 9.1
 ND-QA-014, "Audits of the NDQA Department", Revision 7.0
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 QA-2.8, "Qualification of Audit Personnel," Revision 0.0
 QAD 02.13, "Qualification and Certification of Personnel Performing Quality Assurance Audits," Revision 03.00
 QAD 07.19, "Use of Nuclear Industry Assessment Committee (NIAC) Member Audits," Revision 3.01
 QAD 18.01, "Quality Assurance Audits," Revision 9.01
 QAD 18.12, "Quality Assurance Surveillances," Revision 04.00
 QAD 18.13, "Quality Assurance Supplier Surveillances," Revision 3.01
 QAD 18.14, "Supplier Source Surveillances," Revision 0
 QMS-A, "Quality Management System-A", Revision 7
 QS 18.01, "Quality Audit Program," Revision 4
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 SV0-GW-GAH-010, "Vogtle 3 & 4 Supplemental Project Quality Assurance Plan", Revision 4
 SV0-GW-GAH-010, "Vogtle 3 & 4 Supplemental Project Quality Assurance Plan", Revision 5
 SV0-GW-GBH-300, "Vogtle 3 & 4 Project Execution Plan", Revision 3

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Revision 3
W2-4.2-101, "Internal Quality Assurance Audits," Revision 1.0
W2-8.3-105, "Preparation and Control of Drawings and Sketches", Revision 1
W2-9.14-103, "Stop Work", Revision 0.1
W2-9.5-104, "Supplier Oversight," Revision 0.2
WEC 23-33, "Westinghouse WECTEC Interface Agreement," Revision 1.0

LIST OF ACRONYMS

ADAMS	Agency wide Documents Access & Management System
CFR	Code of Federal Regulation
COL	Combined Operating License
DCO	Division of Construction Oversight
IMC	Inspection Manual Chapter
IP	Inspection Procedures
IR	Inspection Report
ITAAC	Inspections, Tests, Analysis, and Inspection Criteria
NRC	Nuclear Regulatory Commission
PARS	Publicly Available Records
QA	Quality Assurance
QAPD	Quality Assurance Program Description
QC	Quality Control
SNC	Southern Nuclear Operating Company
SSC	Structures, Systems, and Components
UFSAR	Updated Final Safety Analysis Report
VEGP	Vogtle Electric Generating Plant Units 3 and 4
WEC	Westinghouse Electric Company

ITAAC INSPECTED

No.	ITAAC No.	Design Commitment	Inspections, Tests, Analysis	Acceptance Criteria
159	2.2.03.02a	2.a) The components identified in Table 2.2.3-1 as ASME Code Section III are designed and constructed in accordance with ASME Code Section III requirements.	Inspection will be conducted of the as-built components as documented in the ASME design reports.	The ASME Code Section III design reports exist for the as built components identified in Table 2.2.3-1 as ASME Code Section III.