



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

December 30, 2015

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 05200025/2015008 and 05200026/2015008**

Dear Mr. Yox:

On November 19, 2015, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Vogtle Electric Generating Plant (VEGP) Units 3 and 4. The enclosed inspection report documents the inspection results, which the inspectors discussed on November 19, 2015, with Ms. Amanda Pugh 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 your license. These activities included programmatic elements to include 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 ADAMS. ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this letter, please contact me at 404-997-4530.

Sincerely,

/RA/

Rebecca Nease, Chief
Construction Projects Branch 2
Division of Construction Projects

Docket Nos.: 5200025, 5200026

Combined Licenses (COL) Nos.: NPF-91, NPF-92

Enclosure: NRC Inspection Report (IR)
05200025/2015008, 05200026/2015008
W/attachment: Supplemental Information

cc w/encls:

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W/attachment: Supplemental Information

cc w/encls:

Publicly Available Non-Publicly Available Sensitive Non-Sensitive
Adams: AMS Accession No.: ML15364A548 SUNSI Review Complete Form 665 Attached

OFFICE	RII:DCP	RII:DCIP	RII:DCP	RII:DCP	RII:DCP	RII:DCP
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DATE	12/29/15	12/29/15	12/29/15	12/30/15	12/29/15	
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\CCI\DCP\CPB2\Project Vogtle\Inspection Reports\2015\2015-015
Vogtle QA Inspection Report 2015-15.docx

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Letter to M. Yox from Rebecca Nease dated December 30, 2015

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT UNITS 3 AND 4 – NRC
INTEGRATED INSPECTION REPORTS 05200025/2015008, and
05200026/2015008

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**U.S. NUCLEAR REGULATORY COMMISSION
Region II**

Docket Numbers: 5200025
5200026

License Numbers: NPF-91
NPF-92

Report Numbers: 05200025/2015008
05200026/2015008

Licensee: Southern Nuclear Operating Company, Inc.

Facility: Vogtle Electric Generating Plant, Unit 3
Vogtle Electric Generating Plant, Unit 4

Location: Waynesboro, GA

Inspection Dates: November 16, 2015 through November 19, 2015

Inspectors: C. Taylor, Senior Construction Project Inspector, DCP
D. Piccirillo, Senior Construction Project Inspector, DCP
P. O'Bryan, Reactor Operations Engineer, DCIP
P. Braxton, Resident Inspector, DCP
N. Karlovich, Resident Inspector, DCP

Accompanying Personnel: Rebecca Nease

Approved by: Rebecca Nease, Chief
Construction Projects Branch 2
Division of Construction Projects

SUMMARY OF FINDINGS

Inspection Report (IR) 05200025/2015008, 05200026/2015008; 11/16/2015 through 11/19/2015; Vogtle Electric Generating Plant Units 3 and 4; Routine Program Inspection for Quality Assurance Program Implementation During Construction Activities.

This report covers a one week period of inspection by regional inspectors. The Nuclear Regulatory Commission's (NRC's) program for overseeing the construction of commercial nuclear power reactors is described in 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

Inspection Manual Chapter (IMC) 2504, Construction Inspection Program – Inspection of Construction and Operational Programs

1P01 Inspection of Construction Quality Assurance Implementation - Appendix 3, Inspection of Criterion III – Design Control

a. Inspection Scope

The inspectors reviewed design activities to determine if design control was implemented per the quality assurance program to the approved design during the construction phase. To accomplish this scope, the inspectors interviewed responsible engineering and licensing personnel, reviewed samples of engineering and design coordination reports (E&DCRs), design change proposals (DCPs), and license document change requests (LDCRs).

A sample of E&DCRs was reviewed to verify applicable requirements and standards from the current licensing basis were identified and either implemented in the new design solutions or otherwise reconciled as acceptable exceptions. Specifically, the inspectors verified that documented justifications were provided for design changes, design results were independently verified, and that design outputs were approved by the designated design authority. The inspectors reviewed a sample of DCPs to verify proposed changes to design were evaluated to identify departures from the current licensing basis and the plant programs that would require revision to address the proposed changes. The companion LDCRs and additional LDCRs that changed Tier 2 information without prior NRC approval were also reviewed to verify identified departures were adequately described and justified, and were supported by screening evaluations that conformed to the requirements of 10 CFR 50.59.

b. Findings

No findings were identified.

1P02 Inspection of Construction Quality Assurance Implementation - Appendix 5, Inspection of Criterion V – Instructions, Procedures, and Drawings

a. Inspection Scope

The inspectors selected and reviewed a sample of revised or modified controlled implementation program documents. Specifically, the inspectors reviewed procedures, design drawings, and engineering specifications from the controlled master documents that prescribe activities affecting quality, to ensure consistency with the NRC-approved quality assurance program description (QAPD) and commitments in the updated final safety analysis report (UFSAR).

In addition, the inspectors reviewed the applicable section of the licensee's QAPD and UFSAR to ensure that appropriate QA program documents had been developed to address the QAPD requirements and UFSAR commitments for preparing changes to implementing documents.

The inspectors reviewed selected instructions and procedures to determine if they were created, revised, and maintained using appropriate procedures, and whether the following requirements were addressed:

- Inclusion of the reason for any changes in the implementing document
- Review and update of implementing documents on a periodic basis
- Implementing document was revised/modified as a result of anticipated changes, determination during implementation that it does not reflect work process, required periodic reviews, and corrective action
- Provisions for making temporary or immediate changes, when necessary, including expiration date

The inspectors obtained the names of personnel or locations that received controlled copies of the change and verified that the correct revision was located at the various work areas. The inspectors also interviewed personnel to determine if they followed the proper procedures when initiating and changing instructions, processes, and drawings.

b. Findings

No findings were identified.

4. OTHER INSPECTION RESULTS

4OA6 Meetings, Including Exit

1. Exit Meeting

On November 19, 2015, the inspectors presented the inspection results to Amanda Pugh, Vogtle 3&4 Construction Licensing Manager, along with other licensee and consortium staff members. The inspectors stated that no proprietary information would be included in the inspection report.

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensees and Contractor Personnel

A. Chamberlain, SNC Licensing
L. Grissom, SNC Licensing
G. Couture, WEC Licensing
G. Koucheravy, WEC Project Director
J. Jones, SNC Engineering
J. Lowery, SNC Quality Assurance
D. McComb, SNC Engineering Director
K. Pigg, CBI Licensing
A. Pugh, SNC Licensing Manager
P. Ridgway, SNC Regulatory Affairs
J. Simmons, CBI Licensing
F. Willis, SNC Licensing
K. Wichman, SNC Licensing
M. Yox, SNC Regulatory Affairs

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 1P01

Licensing Document Change Request (LDCR)

LDCR-2015-005, Addition of Vent to the Normal Residual Heat Removal System and Addition of Brief Descriptions of System Gas Accumulation Assessments and Venting, Revision (Rev). 0

LDCR 2015-064, Chilled Water System Logic Changes, Version 1.0

LDCR 2015-012, Addition of Recirculation Function to Boric Acid Storage Tank

LDCR 2015-056, Modified Weld Joint for SC Shield Building Panels

LDCR 2015-063, Changes to In-Core Instrumentation (ICI) Guide Tube Configuration

LDCR 2015-076, Containment Air Filtration System (VFS) Penetration Piping Configuration Change, Version 1.0

LDCR 2015-111, Revision of Steam Generators Primary to Secondary Differential Pressure Design Value, Version 1.0

LDCR 2015-098, Corrections of Errors in UFSAR Figures 6.3-1 and 6.3-2, Version 1.0

LDCR-2015-056, Modified Weld Joint for SC Shield Building Panels, Rev. 0

LDCR-2015-063, Changes to In-Core Instrumentation (ICI) Guide Tube Configuration, Rev. 0

LDCR-2015-006, Replacement of Passive Core Cooling System Hermetically Sealed Small Diameter Valves with Non-Hermetically Seal Valves to Increase their Design Pressures, Rev. 0

LDCR 2014-138, Modification of Epoxy Topcoat on Containment Vessel Interior Shell, Version 1.0

LDCR 2014-056, Pressurizer Support Changes, Rev.0

LDCR 2014-102, RCS Changes Required for Construction Hydrostatic Test, Rev. 0

LDCR 2014-137, Changes to RNS Cooldown using the Fire Protection System, Rev.1

LDCR 2014-141, Differences Between Annex Building Design and DCD General Arrangement Figures, Rev. 0

LDCR 2014-120, ADS-4 Valve Effective Flow Area, Version 1.0

LDCR 2014-156, DVI Flow Diverter Addition, Version 1.0

LDCR 2014-099, Modification of Support Configuration for Containment Isolation Valve CVS-PL-V090, Version 1.0

LDCR 2014-100, Changes to the Radwaste Building HVAC System (VRS) Supply Fan Modulation Controls, Version 1.0

LDCR 2013-097, PSS Containment Atmosphere Sample Supply Line Size and Inlet Location, Version 1.0

LDCR 2013-079, Annex Building Egress Access Doors, Rev.1

LDCR-2014-155, ASME Section VIII Vessel Overpressure Protection - Vessel Rerating (Domestic Projects), Rev. 0

LDCR-2014-068, Pressurizer Venting During Normal Operations, Rev.1

LDCR-2014-115, Change to the AP1000 Reactor Vessel Flow Skirt Hole Pattern, Rev. 0

APP-FSAR-GLR-047, Generic Licensing Impact Determination for RCS Piping and Supports, Rev. 1

APP-FSAR-GLR-051, Generic Licensing Impact Determination for PXS Piping and Supports, Rev.1

APP-FSAR-GLR-070, Generic Licensing Impact Determination for Digital Rod Control System, Rev.0

NDQA-2015-S013: NRC QA Inspection Readiness

Engineering Documents Coordination Requests (E&DCR)

SV0-0000-GEF-000196, Concrete General Note Changes, Rev. 0
 SV0-0000-GEF-000202, Material Change for Module Shim Material, Rev. 0
 SV0-1208-GEF-000013, Bending of Shield Building Tie Rods, Rev. 0
 SV0-CA00-GEF-000031, NDE Requirements for Damaged Welds, Rev.0
 SV0-CA05-GEF-000014, Installation Tolerances for SA-738 Type B Plate on Module CA05, Rev. 0
 SV0-CA05-GEF-000021, CA05 MK #2 Plate Dimensional Error, Rev. 0
 SV0-CB00-GEF-000007, CB63 Piping Penetration Dimension Change, Rev. 0
 SV0-CC01-GEF-000256, Anchoring to D Class Structures, Rev. 0
 SV0-CR01-GEF-000376, Horizontal U-Bar Modification, Rev. 0
 SV0-CR01-GEF-000396, Construction Joint Modification, Rev.
 APP-MP01-GEF-034, Maximum Hardness Limits on Non-Pressure Boundary Material in the AP1000 Reactor Coolant Pumps, Rev. 0

Nonconformance and Disposition Reports (N&D)

SV4-MT02-GNR-021, Field Deviation Report – Vogtle Unit #4 Accumulator Tank Shipping Acceleration Non-conformance, Rev. 0
 SV3-WLS-GNR-000073, WLS ASME Piping – Indeterminate Quality Issues #1, Rev. 0
 SV3-CA02-GNR-000025, CA02-02 Fillet Welds Drilled Into, Rev. 0
 SV3-SS01-GNR-000343, NI3 Stud Spacing, Rev. 0
 SV3-CA03-GNR-000017, CA03-06 Deviation from Flatness, Rev. 0
 SV3-CA01-GNR-000643, CA01 Final Location in Unit 3 CVBH, Rev. 0
 SV3-CA01-GNR-000660, CA01 Basemat Shear Lug Weld, Rev. 0
 SV3-CR01-GNR-000299, West Shield Bldg. Horizontal. #11 & #6, Rev. 0
 SV3-CA01-GNR-000404, SV3-CA01-11 Undersized Weld, Rev. 0
 SV3-CE01-GNR-000106, Embedment Plate in Wall J, Rev. 0

Design Change Proposals (DCP)

APP-GW-GEE-4867, Assembly Changes to Cask Loading/Washdown Pits, Rev. 0,
 APP-GW-GEE-4878, RCP Minimum Speed and Acceleration Strategy, Rev. 0
 APP-GW-GEE-4935, MA01 Vendor Drawing Reconciliation for Domestic Projects, Rev. 0
 APP-GW-GEE-4949, Incorporate E&DCR's into Module CA31, Rev. 0
 APP-GW-GEE-4956, Deleting Water Heater MB 02, from 82' Level Clean Auxiliary to Address Flooding Standard Plant & Domestic Plants, Rev. 0
 APP-GW-GEE-4959, Condensate Storage Tank - Minimum Startup Feedwater Volume ITAAC, Rev. 0
 APP-GW-GEE-4981, Addition of Thermal Lag to Steam Generator Lower Lateral Support Analysis, Rev. 0
 APP-GW-GEE-4998, Flow Resistance Corrections for PV31, 32, 33 40 and 41, Rev. 0
 APP-GW-GEE-5068, CMS Consolidation of FOLLOW ON E&DCRs, Rev. 0
 APP-GW-GEE-5070, Nullify Duration Limits on RCP Imposed by DCP 3316, Rev. 0
 APP-GW-GEE-5071, Updates to FPDS Software Requirements and Applications, Rev. 0

Conditions Reports (CR)

CR 10134365, NDQA Surveillance NDQA-2015-S013-Finding (Level 2)
 CR 10115486, Violation of NQA-1 1994 Basic Requirement 6 Document Control

CR 10115518, E&DCR for Shield Building Alternate Weld Detailed Failed to Reference Licensing Change

Section 1P02

Procedures

APP-GW-GZP-004, Configuration Management Procedure for US AP1000 Projects, Revision (Rev.) 1

APP-GW-GAP-140, AP1000 Licensing Applicability Determination and 10 CFR 50.59/10 CFR 52 Appendix D Section VIII Screening, Rev.0

APP-GW-GAP-420, Engineering & Design Coordination Reports (E&DCRs), Rev. 8

APP-GW-GAP-480, Advanced Authorization E&DCRs, Rev 1

NEPG04-30-1, Engineering Configuration Management Control dated January 6, 2014

DAPP 5-3-1, AP1000 Design Change Incorporation Guidance dated April 2, 2015

DAPP 5-22-2, AP1000 Configuration Management dated February 18, 2015

DAPP 5-14, AP1000 E&DCR, Rev 5

LIST OF ACRONYMS

ADAMS	Agencywide Documents Access & Management System
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
CAR	Corrective Action Report
CB&I	Chicago Bridge and Iron
CFR	Code of Federal Regulations
CMT	Core Makeup Tanks
CMTR	Certified Material Test Report CSI
CV	Containment Vessel
COL	Combined Operating License
CVBH	Containment Vessel Bottom Head CVS
DCP	Design Change Proposal
E&DCR	Engineering and Design Coordination Report EPC
UFSAR	Updated Final Safety Analysis Report
IP	Inspection Procedures
IR	Inspection Report
LDCR	Licensing Document Change Request
N&D	Nonconformance and Disposition Report
NRC	Nuclear Regulatory Commission
PARS	Publicly Available Records
PQR	Procedure Qualification Record
QA	Quality Assurance
QAD	Quality Assurance Directive
QAPD	Quality Assurance Program Description
QC	Quality Control
QS	Quality Standard
SC	Steel Concrete Composite
SCC	Self-Consolidating Concrete
SNC	Southern Nuclear Operating Company SSC
VEGP	Vogtle Electric Generating Plant Units 3 and 4
WEC	Westinghouse Electric Company