



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

January 20, 2016

Mr. Ronald A. Jones  
Vice President, New Nuclear Operations  
South Carolina Electric and Gas  
P.O. Box 88 (Mail Code P40)  
Jenkinsville, SC 29065-0088

**SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION UNITS 2 AND 3 – NRC  
PERIODIC INSPECTION OF QUALITY ASSURANCE PROGRAM,  
REPORTS 05200027/2015008 and 05200028/2015008**

Dear Mr. Jones:

On December 10, 2015, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at the Virgil C. Summer Nuclear Station Units 2 and 3. The enclosed inspection report documents the inspection results, which the inspectors discussed on December 10, 2015, with Mr. Alan Torres 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 implementation of elements of the quality assurance program as described in your license. The inspectors reviewed selected procedures and records 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 Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

R. Jones

2

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

Sincerely,

**/RA/**

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

Docket Nos.: 5200027, 5200028

Combined Licenses (COL) Nos.: NPF-93, NPF-94

Enclosure: NRC Inspection Report (IR)  
05200027/2015008, 05200028/2015008  
W/attachment: Supplemental Information

cc w/encls.

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cc w/encls.

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ADAMS Accession No.: ML16021A317    □    ■ SUNSI Review Complete    ■ Form 665 Attached

OFFICE	RII:DCP	RII:DCP	RII:DCP	RII:NRO	RII:DCI	RII:DCP
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DATE	1/20/16	1/20/2016	1/19/16	1/13/16	1/14/16	1/20/16
E-MAIL COPY?	YES NO	YES	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G/CCI/DCP/CPB2/Project Summer/Inspection Reports/2016

cc w/encls:

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Letter to R. Jones from Rebecca Nease dated January 20, 2016

SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION UNITS 2 AND 3 – NRC  
PERIODIC INSPECTION OF QUALITY ASSURANCE PROGRAM,  
REPORTS 05200027/2015008 and 05200028/2015008

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

Docket Numbers: 5200027  
5200028

License Numbers: NPF-93  
NPF-94

Report Numbers: 05200027/2015008  
05200028/2015008

Licensee: South Carolina Electric & Gas

Facility: Virgil C. Summer Nuclear Station Unit 2  
Virgil C. Summer Nuclear Station Unit 3

Location: Jenkinsville, SC

Inspection Dates: December 7, 2015 through December 10, 2015

Inspectors: J. Kent, Construction Project Inspector, DCP  
T. Fredette, Reactor Operations Engineer, DCIP  
B. Griman, Construction Inspector, DCI  
N. Karlovich, Resident Inspector, DCP  
G. Khouri, Senior Construction Project Inspector, DCP  
M. Shannon, Senior Construction Inspector, DCI

Accompanying Personnel: Brian Griman

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

Enclosure

## **SUMMARY OF FINDINGS**

Inspection Report (IR) 05200027/2015008, 05200028/2015008; 12/07/2015 through 12/10/2015; Virgil C. Summer Nuclear Station Unit 2, Virgil C. Summer Nuclear Station Unit 3, routine program inspection for quality assurance program implementation during construction.

This report covers 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 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**

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 samples of Engineering and Design Coordination Reports (E&DCRs), Nonconformance and Disposition reports (N&Ds), Design Change Proposals (DCPs), and Revision Notices (RNs) taken from July 2014 - July 2015 and interviewed responsible engineering and licensing personnel to evaluate the adequacy of the implementation of the approved design control program.

The inspectors reviewed a sample of E&DCRs, N&Ds, and DCPs to determine whether these field changes were performed in accordance with the approved licensee procedures and the requirements for departure from Tier 2 DCD information in 10 CFR Part 52, Appendix D, Paragraph VIII. The inspectors reviewed the licensing impact determination screening associated with each of these field changes to determine whether the change was properly evaluated against the current licensing basis as described in the VC Summer Units 2 and 3 Combined Licenses (COLs), Updated Final Safety Analysis Reports (UFSARs); Technical Specifications, Technical Specification Bases, and Technical Requirements Manuals.

The inspectors also reviewed a sample of RNs associated with changes to the UFSAR Tier 2 information without prior NRC approval to determine if these changes affected Tier 1 information, Tier 2\* information, or Technical Specifications. The inspectors evaluated these changes to verify that the identified departures were adequately described and justified, and were supported by screening evaluations that conformed to the requirements of site approved procedures and the requirements of 10 CFR Part 52, Appendix D, Paragraph VIII.

The inspectors also reviewed these field and design changes to determine whether they received a proper level of engineering review and if the changes were incorporated into all affected documents.

##### 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 reviewed the South Carolina Electric and Gas (SCE&G) VC Summer Units 2 and 3 processes and procedures for the control of design changes to ensure that the modified design continues to conform to the current licensing basis. The design change process conducted under 10 CFR 50.59/10 CFR Part 52, Appendix D, Paragraph VIII contains a screening/evaluation process to conclude whether each design change will require prior NRC approval before implementation.

The inspectors reviewed the SCE&G and Westinghouse Electric Company (WEC) procedures to ensure that design changes described in the DCPs, E&DCRs, N&Ds, and RNs were performed in accordance with their design control program and properly evaluated against the current licensing basis as described in the VC Summer Units 2 and 3 COLs, UFSARs; Technical Specifications, Technical Specification Bases, and Technical Requirements Manuals.

The inspectors also reviewed a sample of corrective action documents (CAPAL for WEC; Condition Reports (CRs) and Self-Assessment Reports for SCE&G; and Corrective Action Reports (CARs) for Chicago Bridge & Iron (CB&I)) associated with the design control to determine if the licensee was performing adequate corrective actions on any identified issues.

b. Findings

No findings were identified.

**4. OTHER INSPECTION RESULTS**

4OA6 Meetings, Including Exit

1. Exit Meeting

On December 10, 2015, the inspectors presented the inspection results to Alan Torres, VC Summer 2&3 SCE&G General Manager of Construction, 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

F. Salter, SCE&G Licensing  
K. Brown, SCE&G Licensing  
C. Baucom, Consortium Licensing  
J. Cole, Consortium Licensing  
S. Leighy, Consortium Licensing

**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

#### CAPALs:

Westinghouse CAPAL 100348837, Screening Question Error, December 9, 2015

#### Condition Reports:

CR-NND-14-00812, 'Missed Tier 1 Impact to Departure GLN-087' Condition Report, July 1, 2014

CR-NND-15-01585, "Adverse Trend in Missed Licensing Basis Impacts Associated with Design Basis Activities' Condition Report, September 23, 2015

#### Corrective Action Reports:

2015-0456, SNC Oversight Review of N&Ds – N&D Missing WEC Disposition. (CR 10021028), 21 July 2015

#### DCPs:

APP-GW-GEE-4740, CA31 Neutron Shield Block Clarifications and Analysis Changes to Reflect the Plant Design and As-Built Conditions, Rev 0

APP-GW-GEE-4776, AP1000 Normal Shutdown After a Fire Design Requirements, Rev 0

APP-GW-GEE-4799, Implementation of Intermediate Breaks from APP-RCS-PIR-020 Into AP1000 Design, Rev 0

APP-GW-GEE-4823, ADS & IRWST Injection Blocking Device Logic Change, Rev 0

APP-GW-GEE-4881, Enhanced RCP Thrust Bearing Protection from Thermal Transients, Rev 0

APP-GW-GEE-4936, Changes to PXS Core Makeup Tank Narrow Range Level Setpoints, Rev. 0

APP-GW-GEE-4951, Modified Weld Joint for SC Shield Building Panels, Rev 0

APP-GW-GEE-5021, Class 1 E MOV Locked Rotor Current Increase, Rev 0

APP-GW-GEE-5028, PMS Software documentation updates to resolve ITAAC 11C comments, Rev 0

#### E&DCRs:

VS2-CR01-GEF-000083, Q-Line EL 82'6" Vertical Hooks, Rev. 0

VS3-1110-GEF-000002, Safety Class/Seismic Category, Rev. 0

VS2-CA20-GEF-000113, CA20 North Wall Horizontal Bracing, Rev. 0

VS2-CA20-GEF-000122, CA20 Spent Fuel Pool Repair, Rev. 0

VSG-CR01-GEF-000209, J-Line Pen Detail at 7.3-line (A3), Rev. 0

VSG-CC01-GEF-000163, Concrete Mix B2H for OC/CA20 Wedge, Rev. 0

VSG-1020-GEF-000016, Annulus Construction Joint, Rev. 0

APP-1020-GEF-041, Inside Embedment Plate Revisions Between Azimuths of 0 degrees and 90 degrees in the Lower Annulus of the Shield Building, Rev. 0

APP-1020-GEF-047, Auxiliary Building EL 92'6" Area 3 & 4 Slab to Shield Building Wall Radial Dowel Interferences, Rev. 0

APP-1208-GEF-113, Shield Building- Additional Tie Bar Weld Details, Rev. 0

APP-1208-GEF-149, Shield Building- Tie Bar Spacing Correction in Panel Group 80-A, Rev. 0

APP-1208-GEF-150, Shield Building- Update Concrete Reinforcement Drawing from EL 100'-0" to 146'-10", Rev. 0  
 APP-1208-GEF-160, Shield Building – Correct Coupler Spacing, Rev. 0  
 APP-1208-GEF-165, Shield Building – Update Area 3 Roof Connection Calculation Near Wall 7.3, Rev. 0  
 APP-1208-GEF-168, Shield Building – Gusset Plate Weld Calculation at EL 146'-10", Rev. 0  
 APP-1208-GEF-174, Shield Building – Erection Tolerances, Rev. 0  
 APP-1208-GEF-181, Shield Building – Revise Finish Weld Profiles, Rev. 0  
 APP-1208-GEF-187, Shield Building- Wall 7.3 2" Radial Snipes, Rev. 0

N&Ds:

VS2-CA01-GNR-000006, CA01\_02 Stud Omission  
 VS3-CC01-GNR-000097, Unit 3 I&Shield wall major repairs  
 VS2-1110-GNR-000005, 6" conduit/ rebar conflict  
 VS2-CA01-GNR-000016, Excessive Reinforcement Weld on CA01\_35  
 APP-GW-GNR-850141, WPS 10-10-316 (NCR 14-130) Struc. WPS Non-Compliance to AWS Code Requirements  
 VS2-CA05-GNR-000022, CA05 Internal Surface Conditions  
 VS2-CA20-GNR-000447, CA20 Hold-Down Bracket Shims  
 VS2-PH01-GNR-000002, SG Embedments Fabrication OOT  
 VS2-CA01-GNR-000274, CA01\_32 Rebar Clear Spacing N&D  
 VS2-WLS-GNR-000026, ASME III Valve Documentation Discrepancy – VS2-WLS-PL-V072B & VS2-WLS-PL-V071B  
 VS2-CC01-GNR-000285, Major Defects on SB between M and L, elev. 78'-6"  
 VS2-1020-GNR-000001, LOWER ANNULUS TUNNEL FLOOR ELEVATION  
 VS2-1238-GNR-000016, U2 SB Course 02 As-built – Vertical Weld Seams  
 VS2-CC01-GNR-000289, Major Defect on Shield Building Az. 228-222  
 APP-1208-GNR-850348, NNI NCR 1246A Final Critical Measurement VS3-1208-SC-04K  
 VS2-SFS-GNR-000004, VS2-SFS-PLW-35K Piping Penetration Discrepancy  
 VS2-CR01-GNR-000184, Annulus Tunnel Entrance Clear Cover  
 VS2-1210-GNR-000005, Damage to partially embedded rebar  
 VS2-CC01-GNR-000157, Deep/Substantial Concrete Repairs Shield Building Elev. 72'-6"  
 APP-CA04-GNR-850026, SMCI VS3 CA04 Module 02, NCR2014-406, MK#05 Base Metal Reduction  
 VS2-CA04-GNR-000026, Weld Change – APP-CA04-GEF-039  
 VS2-CA20-GNR-000452, Overlay Plate E2 Out of Tolerance  
 VS2-CA04-GNR-000027, Excessive Root Gap CA04 Vertical Seams  
 APP-1208-GNR-850233, NNI NCR 987A VS2-1208-SC-09M Stud removal area excavated deeper than 1/8"  
 VS2-CC01-GNR-000271, Major Defects on SB, Elev 78'-6"  
 VS3-CC01-GNR-000143, Concrete for KQ 11 Skirt was placed 1" low  
 VS2-CA20-GNR-000543, Excessive Fillet Weld Gap on CA20-03 and -07  
 VS2-CC01-GNR-000284, Major Defect on Shield Building Az. 203 to 250  
 VSG-CA20-GNR-000003, SA3 Floor CJP Welds  
 VS3-1213-GNR-000001, Room 12153 north wall block out

Revision Notices:

Revision Notice 12-053, Passive Core Cooling System – Change of Sensor Type for Containment Flood-up Level, 10 Oct 2014  
 Revision Notice 13-040, Equipment and Maintenance Hatch Hoist Load Rating, 15 Aug 2014  
 Revision Notice 14-019, Passive Containment Cooling System (PCS) Changes, 31 Aug 2014  
 Revision Notice 14-021, Addition of Pressure Relief Valve to Passive Containment Cooling Water Storage Tank (PCCWST) Recirculation Heater, 31 Aug 2014  
 Revision Notice 14-058, Main Control Room Emergency Habitability System (VES) Emergency Air Storage Tank Clarification, 1 Oct 2014  
 Revision Notice 13-054, In-Containment Refueling Water Storage Tank (IRWST) Changes, 29 May 2015  
 Revision Notice 14-070, Spent Fuel Pool Cooling System (SFS) Changes  
 Revision Notice 14-073, Passive Core Cooling System (PXS) Core Makeup Tank Instrumentation Changes, 5 Feb 2015  
 Revision Notice 14-119, Reactor Vessel Flow Skirt Changes, 13 Jun 2015  
 Revision Notice 14-127, Containment Recirculation Cooling System (VCS) Temperature Instrument Location Changes, 29 May 2015  
 Revision Notice 14-132, Clarification of Inadequate Core Cooling Instrumentation, 6 Feb 2015

Self-Assessment Reports:

SA15-NND-NL-02S, Self-Assessment Report – 10 CFR 52 App D Section VIII Departure Process, September 14, 2015  
 SA14-NND-NL-02, Self-Assessment Report – Licensing Change Review Process, August 1, 2014

**Section 1P02**Procedures:

APP-GW-GAP-140, AP1000 Licensing Applicability Determination and 10 CFR 50.59 / 10 CFR 52 Appendix D Section VIII Screening, Revision 0  
 F-APP-GW-GAP-140-1, AP1000 Licensing Applicability Determination Screening Document for Departure  
 APP-GW-GAP-420, Engineering & Design Coordination Report, Revision 8  
 APP-GW-GAP-428, Control of Nonconforming Items for the AP1000 Program, Revision 4  
 APP-FSAR-GLN-029 ('Passive Core Cooling Sensor Changeout' Rev. 0), Revision 2  
 APP-GW-GAP-142, AP1000 10 CFR 52 Appendix D Section VIII 'Processes for Changes and Departures' Evaluations, Revision 0  
 APP-GW-GAP-147, AP1000 Current Licensing Basis Review, Revision 1  
 NND-AP-0203, 50.59 / 52 Appendix D Section VIII Change Review, Revision 4  
 NND-AP-0203, 50.59 / 52 Appendix D Section VIII Change Review, Revision 5  
 NND-AP-0209, Consortium Licensing Change Package Review, Revision 0  
 NND-AP-0204, Licensing Basis Document Change Processing, Revision 4  
 NNDG-AP-0004, Guidance for 10CFR 52 Appendix D Section VIII Applicability Determinations, Revision 0  
 WEC 3.4.1, Change Control for the AP 1000 Plant Program, Revision 3  
 WEC 16.2, Westinghouse Corrective Action Program, Revision 8

Licensing Basis Documents:

VC Summer 2 and 3 COLs

VC Summer 2 and 3 UFSAR, Revision 3

VC Summer 2 and 3 Technical Specifications, Amendment 20

Technical Requirements Manual Unit 2&3, Revision 0

Technical Specification Bases Unit 2&3, Revision 2

## LIST OF ACRONYMS

CAR	Corrective Action Report
CB&I	Chicago Bridge and Iron
COL	Combined License
CR	Condition Report
DCP	Design Change Proposal
E&DCR	Engineering & Design Coordination Report
N&D	Nonconformance and Disposition Report
RN	Revision Notice
SCE&G	South Carolina Electric and Gas
UFSAR	Updated Final Safety Analysis Report
WEC	Westinghouse Electric Company