



June 29, 2010  
NND-10-0247

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

ATTN: Document Control Desk

Subject: Virgil C. Summer Nuclear Station (VCSNS) Units 2 and 3 Combined License Application (COLA) - Docket Numbers 52-027 and 52-028 Revisions to VCSNS COLA Part 2, Chapter 1.

References: 1. Letter from Ronald B. Clary (SCE&G) to Document Control Desk (NRC), Submittal of Revision 2 of the Combined License Application for V. C. Summer Nuclear Station Units 2 and 3, dated January 28, 2010 (ML100350739).

2. NRC Phone Call Summary, Discussion of FSAR Section 1.4, May 18, 2010 (ML101390203).

By letter dated January 28, 2010, South Carolina Electric and Gas Company (SCE&G) submitted Revision 2 to the COLA (Reference 1). During verbal discussions with the NRC on May 18, 2010, revisions to FSAR Section 1.4 were identified (Reference 2). The requested clarifications identified during these discussions are included in Attachment 1. COLA changes are shown in green underline for insertions and red strike through text for deletions. The COLA changes identified in these responses will be incorporated in a future COLA update.

Should you have any questions, please contact Mr. Alfred M. Paglia by telephone at (803) 345-4191, or by email at [apaglia@scana.com](mailto:apaglia@scana.com).

I declare under penalty of perjury that the foregoing is true and correct.

Executed on this 29<sup>th</sup> day of June, 2010.

Sincerely,

Ronald B. Clary  
Vice President  
New Nuclear Deployment

D083  
NRO

JMG/RBC/jg

c: Luis A. Reyes  
Joseph M. Sebrosky  
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Attachment 1

Associated VCSNS FSAR Section 1.4 Revisions

(3 total pages)

## 1.4 IDENTIFICATION OF AGENTS AND CONTRACTORS

This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.

### 1.4.1 APPLICANT — PROGRAM MANAGER

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VCS SUP 1.4-1

Add the following paragraphs as the first paragraphs in DCD Subsection 1.4.1.

SCE&G has been authorized by the South Carolina Public Service Authority (Santee Cooper) to act as their agent in applying for a Combined License (COL) for Units 2 and 3. SCE&G and Santee Cooper will jointly own the facility and share in the costs (including the cost of decommissioning) and output of the facility as follows: SCE&G, 55%; Santee Cooper, 45%. SCE&G will retain sole responsibility for operation of VCSNS Units 2 and 3 after the requirements of 10 CFR 52.103(g) are satisfied.

~~SCE&G has constructed and currently operates Unit 1. Unit 1 began construction in April 1974 and has been commercially operated since January 1984.~~

SCE&G is the principal subsidiary of SCANA Corporation, an energy-based holding company with headquarters in Cayce, South Carolina. SCE&G is a regulated public utility engaged in the generation, transmission, distribution, and sale of electricity in South Carolina. SCE&G is also engaged in the purchase and sale of natural gas in central and southern South Carolina. SCE&G has constructed and currently operates V.C. Summer Unit 1. Unit 1 began construction in April 1973 and has been commercially operated since January 1984.

Santee Cooper is South Carolina's state-owned electric and water utility with headquarters in Moncks Corner, South Carolina. Santee Cooper also generates the power distributed by the state's 20 electric cooperatives.

SCE&G has an Engineering, Procurement, and Construction (EPC) contract with a Consortium comprised of Westinghouse Electric Company, LLC and Stone and Webster, Inc. Stone and Webster, Inc. was acquired by the Shaw Group, Inc. (also referred to as Shaw) in 2000. The Consortium will act as the AP1000 provider, architect-engineer and constructor for VCSNS Units 2 and 3.

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Add the following paragraphs to the end of DCD Subsection 1.4.1:

VCS SUP 1.4-3

Shaw is a Fortune 500 company which has been an active participant in the nuclear industry for nearly 60 years (as Stone and Webster, Inc.), from providing engineering and design services for Shippingport, the nation's first commercial nuclear power plant, to the restart of the Tennessee Valley Authority's Browns Ferry Unit 1, which at the time was the largest nuclear construction project in the western hemisphere. Shaw continues to prove its leadership role in the nuclear industry by being part of the AP1000 Consortium.

Westinghouse Electric Company, LLC (Westinghouse) offers a wide range of nuclear plant products and services to utilities throughout the world, including fuel, service and maintenance, instrumentation and control, and advanced nuclear plant designs, including the AP1000 certified

reactor design. Westinghouse has operations in twelve states and fourteen countries. After designing the world's first commercial pressurized water reactor nuclear power plant at Shippingport in 1957, Westinghouse and its licensees provided more than 40 percent of the world's 434 operating commercial nuclear plants. By the end of 2003, reactors based on Westinghouse technology had amassed over 2500 reactor-years of power generation.

Westinghouse is responsible for the overall plant design, AP1000 Design Certification revisions, procurement of primary NSSS equipment and power block major components including the Turbine Generator, and plant training simulator. Shaw is responsible for site development, construction, site specific design related work, secondary equipment procurement, module fabrication, and supply of bulk materials and commodities. Westinghouse and Shaw are jointly responsible for testing and startup.

#### 1.4.2.7 Other Participants

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VCS SUP 1.4-2

Add the following paragraphs to the end of DCD Subsection 1.4.2.7.

Support was received in the development of the COL Application for Units 2 and 3 from a project team consisting of Bechtel Power Corporation; Westinghouse Electric Company LLC; NuStart Energy, Inc.; MACTEC Engineering & Consultants; William A. Lettis and Associates, Inc., and Tetra Tech NUS, Inc.

##### **Bechtel Power Corporation**

Bechtel Power Corporation prepared and published the COL Application and acted as the program manager for the COL Application.

##### **MACTEC Engineering and Consulting, Inc.**

MACTEC Engineering and Consulting, Inc. performed geotechnical field investigations and laboratory testing in support of the COL Application. This included performing standard penetration tests, obtaining core samples and rock cores, and installing ground water observation wells as a subcontractor to Bechtel Power Corporation.

##### **NuStart Energy, Inc.**

NuStart Energy, Inc. prepared the Reference COLA used as a template for preparation of the non-site-specific portions of the COL Application.

##### **Risk Engineering, Inc.**

Risk Engineering, Inc. performed the probabilistic seismic hazard analyses for development of the site-specific ground motion response spectra as a subcontractor to Bechtel Power Corporation.

##### **Tetra Tech NUS, Inc.**

Tetra Tech NUS, Inc. provided services for site investigations and preparation of the Environmental Report and portions of the FSAR as a subcontractor to Bechtel Power Corporation.

**William A. Lettis and Associates, Inc.**

William Lettis & Associates, Inc. performed the investigations and analyses required to prepare the geology, seismology, and geotechnical engineering section of the COL Application as a subcontractor to Bechtel Power Corporation. This included investigating the subsurface materials present at the site, performing a comprehensive geotechnical exploration, and performing geophysical surveys to assess the dynamic response of soil and rock.

**Westinghouse Electric Company LLC**

~~Westinghouse Electric Company LLC provided information on the design and safety analysis of the AP1000 for use in preparing the site-specific portions of the COL Application.~~

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