



June 9, 2009  
NND-09-0158

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001

ATTN: Document Control Desk

Subject: V. C. Summer Nuclear Station Units 2 and 3  
Docket Numbers 52-027 and 52-028  
Combined License Application – Environmental Report Audit  
Information Needs: ACC-5 (Item 1), AQ-9, BC-1, GW-7 (Item 3)  
and SE-S1

Reference: 1. Letter from S.A. Byrne to Document Control Desk, Submittal of  
a Combined License Application for V. C. Summer Nuclear  
Station Units 2 and 3, dated March 27, 2008.  
2. Letter from Ronald B. Clary to Document Control Desk,  
Submittal of Revision 1 to Part 3 (Environmental Report) of the  
Combined License Application for the V. C. Summer Nuclear  
Station Units 2 and 3, dated February 13, 2009.

By letter dated March 27, 2008, South Carolina Electric & Gas Company (SCE&G) submitted a combined license application (COLA) for two Westinghouse AP1000 units, designated V.C. Summer Nuclear Station (VCSNS) Units 2 and 3, to be located at the existing VCSNS site in Fairfield County, South Carolina. Subsequently the Environmental Report (ER), Part 3 of the application, was revised and submitted to the NRC (reference 2).

During the week of March 9, 2009, the NRC conducted an Environmental Audit to gather information to assist in the review of the ER. The purpose of this letter is to submit a portion of the ER Information Needs identified by the NRC including: ACC-5 (Item 1), AQ-9, BC-1, GW-7 (Item 3) and SE-S1.

Please address any questions to Mr. Alfred M. Paglia, Manager, Nuclear Licensing, New Nuclear Deployment, P. O. Box 88, Jenkinsville, S.C. 29065; by telephone at 803-345-4191; or by email at [apaglia@scana.com](mailto:apaglia@scana.com).

DOS3  
NRD

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

Executed on this 9<sup>th</sup> day of June 2009



Ronald B. Clary  
General Manager  
New Nuclear Deployment

ARR/RBC/ar

Enclosures

c (with Enclosures):

Patricia Vokoun  
Carl Berkowitz  
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Ronald B. Clary  
Bill McCall  
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Randolph R. Mahan  
Kathryn M. Sutton  
Rich Louie  
John J. DeBlasio  
April Rice

## VCSNS UNITS 2 and 3

### Response to NRC Information Needs Item

**Information Item Number:** ACC-5, Item 1 **Revision:** 0

#### **Statement of the Information Item:**

Information Item ACC-5, Item 1:

Provide expert to discuss the SAMAs (both the AP1000 SAMDA review and the Summer site specific SAMDA review that was performed.) Discuss the SAMAs to determine whether there are SAMDAs, procedural modifications, or training activities that can be justified to further reduce the risks of reactor severe accidents.

#### **SCE&G Follow Up Action:**

NRC staff is deliberating and will inform SCE&G if more information is required to meet regulatory requirements in this area.

NOTE: Subsequent to the audit, the following additional information was provided for this information need item as discussed between the NRC and SCE&G on 5/18/2009.

Justify application of NRC conclusions for DCD rev 15 via NUREG 1793 to DCD rev 17 based on design considerations.

#### **Response:**

A Severe Accident Mitigation Design Alternative (SAMDA) evaluation was conducted by Westinghouse for the AP1000 plant design located at a generic site and is documented in Appendix 1B of the AP1000 DCD. VCSNS Environmental Report Section 7.3 updates the Westinghouse AP1000 SAMDA analysis using VCSNS site-specific data in place of generic site data. Although the VCSNS Section 7.3 did not cite NUREG 1793, it did cite NRC's Finding of No Significant Impact for the AP1000 certification (SECY 05-0227), which contains nearly identical wording regarding the cost-benefit of potential SAMDAs.

In DCD Revision 15, Appendix 1B is based on DCD Revision 9 (that is, Appendix 1B has not been revised since DCD Revision 9). Between DCD Revision 15 and DCD Revision 17, several essentially editorial changes were made in Appendix 1B. None affects the results of the severe accident analysis.

A comparison of Appendix 1B, Table 1B-1 from Revision 15 and Revision 17 (tables attached) demonstrates that the core damage frequencies and the mean dose results associated with each release category did not change between revisions. The lack of changes to Table 1B-1 from DCD Revisions 15 to 17 supports the conclusion that changes made as part of Revision 16 and 17, including design changes, do not materially impact the generic AP1000 SAMDA evaluation. Therefore, the NRC staff's conclusions described in ER Subsection 7.3.2 regarding the SAMDA evaluation based on Revision 15 are also judged applicable to Revision 17.

#### **COLA Revisions:**

No COLA revision is required as a result of the response to this Information Needs item.

**1. Introduction and General Description of Plant** **AP1000 Design Control Document**

| Table 1B-1                                     |                                      |                             |                     |                                    |                                       |
|--|--------------------------------------|-----------------------------|---------------------|------------------------------------|---------------------------------------|
| POPULATION WHOLE BODY EDE DOSE RISK – 24 HOURS |                                      |                             |                     |                                    |                                       |
| Release Category                               | Release Frequency (per reactor year) | Mean Dose (person-sieverts) | Dose (person-REM)   | Risk (person-REM per reactor year) | Percentage Contribution to Total Risk |
| CFI  | 1.89E-10                             | 7.03E+03                    | 7.03E+05            | 1.33E-04                           | 0.3                                   |
| CFE  | 7.47E-09                             | 8.51E+03                    | 8.51E+05            | 6.36E-03                           | 14.7                                  |
| IC   | 2.21E-07                             | 7.19E+00                    | 7.19E+02            | 1.59E-04                           | 0.4                                   |
| BP   | 1.05E-08                             | 3.23E+04                    | 3.23E+06            | 3.39E-02                           | 78.4                                  |
| CI   | 1.33E-09                             | 2.01E+04                    | 2.01E+06            | 2.67E-03                           | 6.2                                   |
| CFL  | 3.45E-13                             | 7.37E+01                    | 7.37E+03            | 2.54E-09                           | 0.0                                   |
|  |                                      |                             | <b>Total Risk =</b> | 4.32E-02                           | 100.0                                 |

DCD Rev. 15

**1. Introduction and General Description of Plant** **AP1000 Design Control Document**

| Table 1B-1                                     |   |                                |                      |  |   |
|--|---|--------------------------------|----------------------|--|---|
| POPULATION WHOLE BODY EDE DOSE RISK – 24 HOURS |   |                                |                      |  |   |
| Release Category                               | Release Frequency<br>(per reactor year) | Mean Dose<br>(person-sieverts) | Dose<br>(person-REM) | Risk<br>(person-REM<br>per reactor year) | Percentage<br>Contribution<br>to Total Risk |
| CFI  | 1.89E-10                                | 7.03E+03                       | 7.03E+05             | 1.33E-04                                 | 0.3   |
| CFE  | 7.47E-09                                | 8.51E+03                       | 8.51E+05             | 6.36E-03                                 | 14.7  |
| IC   | 2.21E-07                                | 7.19E+00                       | 7.19E+02             | 1.59E-04                                 | 0.4   |
| BP   | 1.05E-08                                | 3.23E+04                       | 3.23E+06             | 3.39E-02                                 | 78.4  |
| CI   | 1.33E-09                                | 2.01E+04                       | 2.01E+06             | 2.67E-03                                 | 6.2   |
| CFL  | 3.45E-13                                | 7.37E+01                       | 7.37E+03             | 2.54E-09                                 | 0.0   |
|  |   |                                | <b>Total Risk =</b>  | 4.32E-02                                 | 100.0                                       |

## VCSNS UNITS 2 and 3

### Response to NRC Information Needs Item

Information Item Number:           AQ-9           Revision:   0  

**Statement of the Information Item:**

Information Item AQ-9:

Provide an expert to discuss the impacts to aquatic ecosystems stemming from the installation of transmission lines on offsite areas as well as the continued maintenance and operation of transmission lines.

SCE&G Follow Up Action:

Santee Cooper to provide acreage of wetlands and linear footage of streams affected by new T line corridor.

**Response:**

The attached MACTEC report dated April 2, 2009 provides the requested information related to the impacted wetlands for the new Santee Cooper transmission line.

**COLA Revisions:**

No COLA revision is required as a result of the response to this Information Needs item.



engineering and constructing a better tomorrow

April 2, 2009

Mr. Ken Johnson  
Santee Cooper  
Post Office Box 2946101  
One Riverwood Drive  
Moncks Corner, SC 29461-6101

**Subject: Summary of Findings: Jurisdictional Waters of the U.S. / Wetlands  
Proposed New Transmission Line Right-Of-Way for Santee Cooper  
V.C. Summer Nuclear Station  
Fairfield & Newberry Counties, South Carolina  
MACTEC Project No. 6671-07-0573**

Dear Mr. Johnson,

MACTEC Engineering and Consulting, Inc. (MACTEC) is pleased to submit this Summary of Findings regarding wetlands and jurisdictional waters of the U.S. on 2.44 miles of proposed new transmission line right-of-way (ROW) associated with the expansion of the V.C. Summer Nuclear Station (VCSNS) located in Fairfield County, South Carolina.

**BACKGROUND**

In August 2008, MACTEC completed a Transmission Line Siting Study on behalf of Santee Cooper for the proposed expansion of the VCSNS. The Transmission Line Siting Study was prepared to support the combined license application (COLA) for two proposed nuclear units to be added at the VCSNS. Santee Cooper has partnered with SCE&G on the VCSNS expansion project and is responsible for the transmission of a portion of the electricity expected to be generated from the new units. Santee Cooper has determined that two new 230 kV transmission lines will be necessary to transmit their portion of the electricity generated. The two new 230 kV transmission lines are referred to as the VCSNS-Flat Creek line and the VCSNS-Varnville line. The VCSNS-Flat Creek line extends approximately 72 miles in a generally northeast direction from the VCSNS to the Flat Creek substation located in Lancaster County, South Carolina. The VCSNS-Varnville line extends approximately 163 miles in a generally southern direction from the VCSNS to the Varnville substation located in Hampton County, South Carolina. Santee Cooper has been able to route 98.96% (approximately 232 miles) of the proposed transmission lines within existing, Santee Cooper maintained transmission rights-of-way to increase system reliability and reduce environmental impacts. The remaining 1.04% (2.44 miles) of new 100-foot wide ROW will require clearing of some undeveloped woodlands adjacent to existing maintained ROW and spanning the Parr Reservoir (Broad River Impoundment).

The purpose of this delineation was to evaluate jurisdictional waters of the U.S. and wetlands located along the 2.44 miles of new ROW (Figure 1). A delineation of wetlands and jurisdictional waters along the remaining 98.96% of the proposed new transmission lines was not required at this time, as these areas are currently being maintained as ROW. Estimates of the extent of potential regulated wetlands and other waters of the U.S. along the existing VCSNS-Flat Creek and VCSNS-Varnville transmission corridors are provided in the above referenced Siting Study. The field work for the delineation along the 2.44 miles of new ROW was conducted on July 15-17, 2008.

## **METHODOLOGY**

Jurisdictional waters of the U.S., including streams and wetlands, are defined by 33 CFR Part 328.3(b) and are protected by Section 404 of the Clean Water Act (33 USC 1344), which is administered and enforced in South Carolina by the U.S. Army Corps of Engineers (USACE), Charleston District. The extent of jurisdictional waters was determined using in-house research based on evaluation and data synthesis of the following documents:

- U.S. Geologic Survey (USGS) 7.5 minute topographic quadrangle, Jenkinsville, dated 1969
- Natural Resources Conservation Service (NRCS), Soil Surveys for Fairfield County, South Carolina, issued 1982, and Newberry County, South Carolina, issued 1960
- Infrared aerial photography, as provided by the South Carolina Department of Natural Resources, dated 2006
- Field maps and notes taken by MACTEC personnel during an on-site visit to observe property characteristics and features (dated July 2008)

The above-listed documents were used to determine the extent of the limits of jurisdictional waters of the U.S., including wetlands, found within the project area. This methodology is found in Part IV Methods, Section B, as defined in the 1987 Corps of Engineers Wetlands Delineation Manual<sup>1</sup>. The technique presented in the 1987 manual uses a multi-parameter approach that requires positive evidence of three wetland criteria:

- Hydrophytic vegetation
- Hydric soil
- Wetland hydrology

Areas exhibiting evidence of all three of the above criteria were classified as jurisdictional waters of the U.S./wetlands, flagged in the field, and are discussed below. The approximate locations of these boundaries are subject to change following an on-site verification by the USACE and survey. Use of this information is intended for preliminary planning purposes only.

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<sup>1</sup> *Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. U.S. Army Corps of Engineers, Washington, D.C.*



## **WATERS OF THE U.S./WETLANDS**

This delineation was made on the basis of available documents as well as on-site field observations. There are approximately 7.52 acres of jurisdictional waters of the U.S. and wetlands, which includes approximately 0.6 acres of wetlands, approximately 551 linear feet of stream, and approximately 6.7 acres of open water habitat, exist within the 2.44 miles of proposed new transmission line ROW. Jurisdictional boundaries have been flagged in the field and are recorded on the attached figures.

### **VCSNS-Flat Creek**

Based on the USGS topographic map of the Jenkinsville Quadrangle, surface drainage along the portion of proposed new transmission ROW on the VCSNS-Flat Creek Line generally flows to the southwest towards Mayo Creek, a perennial stream that flows to the southwest and eventually flows to the Broad River (a traditional navigable water). There are two jurisdictional waters of the U.S. that are located within the project boundary of the proposed new transmission corridor along the VCSNS-Flat Creek Line (Figure 2). The first waters of the U.S. is a small Piedmont forested stream (Stream A) that is the headwaters of Mayo Creek. This perennial stream is a bed and bank system only. The portion of the stream within the project boundaries has a length of approximately 120 linear feet (approximately 0.05-acre) in the proposed transmission right-of-way.

The second water of the U.S. is an unnamed, intermittent forested stream (Stream B) that flows directly into Mayo Creek. There are no wetlands associated with this intermittent stream. The portion of the stream within the project boundaries has an area of approximately 0.06-acre and a length of approximately 163 linear feet in the proposed transmission right-of-way.

### **VCSNS-Varnville**

Based on the USGS topographic map of the Jenkinsville Quadrangle, surface drainage along the portion of proposed new transmission ROW on the VCSNS-Varnville Line that is located on the eastern side of Broad River generally flows to the west, towards an unnamed tributary that flows southwest and eventually into the Broad River (Parr Reservoir). Surface drainage along the portion of proposed new transmission ROW on the VCSNS-Varnville Line that is located on the western side of Broad River generally flows to the north towards Cannons Creek, a perennial stream that eventually flows into Broad River (Parr Reservoir).

There are four jurisdictional waters of the U.S. that are located within the project boundary of the proposed new transmission corridor along the VCSNS-Varnville Line (Figure 3). The first water of the U.S. is a small Piedmont alluvial stream system with associated forested wetlands (Wetland A). The portion of the stream within the project boundaries has a length of approximately 128 linear feet (approximately 0.05-acre). This jurisdictional forested wetland area is approximately 0.6-acre and has braided drainage patterns within the area of the new 100-foot wide right-of-way.

The new VCSNS-Varnville transmission ROW also crosses two waters of the U.S. that are classified as open water habitat (Figure 3). The open water habitat to be crossed by the proposed new transmission line is an approximate 6.0-acre section of an impoundment of the Broad River, the Parr Reservoir. The second habitat to be crossed is an approximate 0.7-acre section of a small flooded embayment area that is also within the pool of Parr Reservoir.

The final water of the U.S. located along the VCSNS-Varnville Line is a small, intermittent forested stream which flows directly into Cannons Creek. There are no wetlands associated with

this intermittent stream. The portion of the stream within the project boundaries has a length of approximately 147 linear feet (approximately 0.06-acre) in the new 100-foot right-of-way.

### **SANTEE COOPER PROJECT IMPACTS**

The wetland and open water impacts that will occur due to the construction of the 2.44 miles of proposed new transmission ROW will be “small” as the clearing undertaken will be done using Best Management Practices (BMP) and there will be no mechanized land clearing or grubbing (Santee Cooper ER 2008, Sec. 4.2.2). There will be no filling or dredging resulting in a loss of wetland acreage or linear feet of stream, except for minor impacts associated with the placement of concrete pile foundations in Broad River (Parr Reservoir) for the new transmission towers. The construction of the new transmission towers will be located adjacent to existing transmission towers.

However, for the project to be fully constructed, some habitat alteration will be necessary. The primary impacts to the wetland and stream areas will be the clearing of trees and other vegetation in the project boundary to allow for the placement of new transmission towers and transmission lines. The primary impacts to the open water habitat will be the construction of transmission towers within the Parr Reservoir section of the Broad River. These transmission towers will be located adjacent to existing towers within the waterway and constructed using pile foundations. Approximately 6.7-acres of open water habitat will be spanned by new transmission lines. The impacts to waters of the U.S./wetlands are as follows:

- The VCSNS-Flat Creek Line will result in the conversion of 276 linear feet (0.11-acre) of forested stream to non-forested stream.
- The VCSNS-Varnville Line will result in the conversion of 0.60-acre of forested wetlands to non-forested (maintained herbaceous or shrub-scrub) wetlands and will convert 275 linear feet (0.11-acre) of forested stream to non-forested stream.

The construction of the VCSNS-Flat Creek Line and the VCSNS-Varnville Line will result in the conversion of 0.60-acre of forested wetlands to non-forested (maintained herbaceous or shrub-scrub) wetlands and will convert 551 linear feet (0.22-acre) of forested stream to non-forested stream.

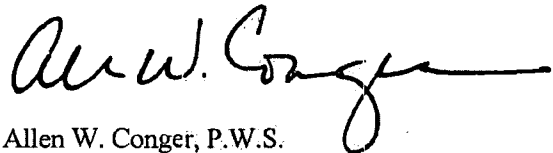
**CLOSING**

MACTEC is pleased to submit this Summary of Findings to Santee Cooper. Should you have any questions concerning this document, please contact Allen Conger at (803) 798-1200.

Sincerely,  
MACTEC ENGINEERING AND CONSULTING, INC.



William L. Medlin  
Staff Environmental Scientist



Allen W. Conger, P.W.S.  
Senior Principal Scientist

Attachments: Appendix A: Site Photographs  
Figure 1: Project Boundary Map  
Figure 2: Wetlands Field Map – Flat Creek Line  
Figure 3: Wetlands Field Map – Varnville Line

**APPENDIX A**

**SITE PHOTOGRAPHS**

**April 2, 2009**

**SANTEE COOPER**

**V.C. Summer Nuclear Station**

**Proposed New 2.44 Mile Transmission Right-of-Way (ROW)**

**Fairfield County, SC and Newberry County, SC**

**MACTEC Project No. 6671-07-0573**

**APPENDIX A  
 PROPOSED NEW 2.44 MILE TRANSMISSION RIGHT-OF-WAY (ROW)  
 FAIRFIELD COUNTY AND NEWBERRY COUNTY, SOUTH CAROLINA**

Photographic Log



| <b>PHOTOLOG SHEET</b>  |
|--|
| Client: Santee Cooper  |
| Site name: Proposed new 2.44 mile ROW, Fairfield County, SC<br>Project: 6671-07-0573   |
| Date: July 15, 2008  |
| Photo #: 147A3   |
| Photographer: J. Duncan  |
| Description: Photo showing forested, perennial stream (Stream A) located along the VCSNS-Flat Creek Line. Photo taken facing southwest (downstream). |



|   |
|---|
| Client: Santee Cooper   |
| Site name: Proposed new 2.44 mile ROW, Fairfield County, SC<br>Project: 6671-07-0573  |
| Date: July 16, 2008   |
| Photo #: 152A1  |
| Photographer: J. Duncan   |
| Description: Photo showing jurisdictional forested wetland (Wetland A) area located along the VCSNS-Varnville Line. Photo taken facing northwest. |

**APPENDIX A  
 PROPOSED NEW 2.44 MILE TRANSMISSION RIGHT-OF-WAY (ROW)  
 FAIRFIELD COUNTY AND NEWBERRY COUNTY, SOUTH CAROLINA**

Photographic Log



|  |
|--|
| <b>PHOTOLOG SHEET</b>  |
| Client: Santee Cooper  |
| Site name: Proposed new 2.44 mile ROW, Newberry County, SC   |
| Project: 6671-07-0573  |
| Date: July 16, 2008  |
| Photo #: 147A9   |
| Photographer: J. Duncan  |
| Description:<br>Photo showing transmission lines crossing Parr Reservoir on the VCSNS-Varnville Line. Photo taken facing east. |



|   |
|---|
| Client: Santee Cooper   |
| Site name: Proposed new 2.44 mile ROW, Newberry County, SC  |
| Project: 6671-07-0573   |
| Date: July 16, 2008   |
| Photo #: 147A14   |
| Photographer: J. Duncan   |
| Description:<br>Photo showing small flooded stream area located on Parr Reservoir on the VCSNS-Varnville Line. Photo taken facing east. |



Base Map: SCDNR 2006 Infrared Orthophoto

FIGURE 3



PROPOSED VCSNS-VARNVILLE AND VCSNS-FLAT CREEK SANTEE COOPER ELECTRIC TRANSMISSION LINES TO SERVE THE PROPOSED NEW UNITS 2 AND 3 AT THE V.C. SUMMER NUCLEAR STATION

**MACTEC**  
720 Gracern Road, Suite 132  
Columbia, SC

**Figure 1. Approximate project boundaries for the proposed VCSNS-Varnville and VCSNS-Flat Creek Transmission Corridors, Newberry and Fairfield County, SC**

Prepared By/Date: WLM 4/2/09

Checked By/Date: AWC 4/2/09

MACTEC Project #: 6671-07-0573



**PROPOSED VCSNS-FLAT CREEK SANTEE COOPER ELECTRIC TRANSMISSION LINES TO SERVE THE PROPOSED NEW UNITS 2 AND 3 AT THE V.C. SUMMER NUCLEAR STATION**

**MACTEC**  
720 Gracern Road, Suite 132  
Columbia, SC

**Figure 2. Approximate boundaries of Jurisdictional Waters of the U.S. within the proposed VCSNS-Flat Creek Transmission Corridor, Fairfield County, SC**



NOTE: EXISTING JURISDICTIONAL WETLAND, STREAM, AND OPEN WATER BOUNDARIES HAVE BEEN DELINEATED AND FLAGGED IN THE FIELD BY MACTEC PERSONNEL. HOWEVER, UNTIL A JURISDICTIONAL DETERMINATION HAS BEEN COMPLETED BY THE US ARMY CORPS OF ENGINEERS, THESE BOUNDARIES SHOULD BE USED FOR PRELIMINARY PLANNING PURPOSES ONLY. JURISDICTIONAL BOUNDARIES WERE MARKED USING A TRIMBLE SUB-METER GPS UNIT. ACREAGES AND LINEAR FEET ARE APPROXIMATE.



Base Map: SCDNR 2006 Infrared Orthophoto

| Legend |                           |
|--------|---------------------------|
|        | Proposed New Corridor     |
|        | Existing Corridor         |
|        | Stream C - 147' (0.06 ac) |
|        | Stream D - 128' (0.05 ac) |
|        | Reservoir A - 6.0 ac      |
|        | Reservoir B - 0.7 ac      |
|        | Wetland A - 0.6 ac        |



PROPOSED VCSNS-VARNVILLE SANTEE COOPER ELECTRIC TRANSMISSION LINES TO SERVE THE PROPOSED NEW UNITS 2 AND 3 AT THE V.C. SUMMER NUCLEAR STATION

**MACTEC**  
720 Gracern Road, Suite 132  
Columbia, SC

Figure 3. Approximate boundaries of Jurisdictional Waters of the U.S. within the proposed VCSNS-Varnville Transmission Corridor, Newberry and Fairfield County, SC

**VCSNS UNITS 2 and 3  
Response to NRC Information Needs Item**

**Information Item Number:** BC-1 **Revision:** 0

**Statement of the Information Item:**

Information Item BC-1:

Provide an expert to discuss the following:

- Important conclusion to be drawn from the summary in Table 10.4.2
- The balancing of all internal and external benefits and costs
- Characterization of the net benefit (or cost) to society of the proposed action, based on this assessment
- Accounting for costs and benefits that cannot be precisely determined at this time

SCE&G Follow Up Action:

Provide a narrative summary of requested information.

**Response:**

SCE&G is providing the requested information in the new ER text below.

**COLA Revisions:**

The next revision of the ER will contain the following changes:

10.4 BENEFIT-COST BALANCE

Sections 10.4.1 and 10.4.2 discuss in detail the benefits and costs of the proposed action, respectively, and Section 10.4.3 summarizes these discussions.

[Sections 10.4.1 and 10.4.2 unchanged]

10.4.3 SUMMARY

~~Table 10.4-2 summarizes benefits and costs of the proposed action. Costs that are environmental impacts are those anticipated after implementation of proposed mitigation measures.~~

Consistent with the National Environmental Policy Act, regulations of the Council on Environmental Quality and NRC, and judicial interpretations, SCE&G has identified in Chapters 4 and 5, and summarized in Section 10.1, the construction and operation environmental impacts from the proposed action. NRC has added another requirement that environmental reports include a balancing of benefits and costs, defining "costs" to include the internal monetary expense of constructing and operating the two units as well as the environmental impacts [10 CFR 51.45(c) and Regulatory Guide 4.2, Chapter 11]. Section 10.4.3 summarizes the balancing of benefits and costs for VCSNS Units 2 and 3.

**VCSNS UNITS 2 and 3**  
**Response to NRC Information Needs Item**

10.4.3.1 Benefits

Table 10.4-2 summarizes benefits that Section 10.4.1 expands upon. As shown, benefits from the proposed action are electricity to be generated, fuel diversity and an alternative to using natural gas, emissions avoidance, technology development, tax payments, and employment. Depending on assumptions used, the 2,214 megawatts of net capacity would produce 16 to 18 million megawatt-hours of baseload electricity. The nuclear option would enable state and utility decision makers to maintain a diverse fuel mix and reserve natural gas for uses that have no alternative feedstocks or primary energy source. Use of nuclear energy avoids sulfur dioxide, nitrogen oxide, carbon monoxide and dioxide, mercury, and particulate emissions that baseload alternatives produce. Demonstration and use of the proposed advanced light water reactor technology would help maintain a domestic nuclear technology capability as a hedge against the possible need to control global warming.

Tax revenues generated during construction would rise to an annual peak of approximately \$34.6 million. Negotiated fees in lieu of property taxes during operation would range from \$6.4 to \$24.6 million annually. The proposed action would create approximately 6,000 jobs in the local economy during construction and 2,500 jobs during operation.

Benefits that cannot be precisely determined at this time include personal and corporate income, sales, and use taxes during operation, and the value of having a baseload generation option in the 2020-to-2060 timeframe that does not contribute to global warming by emitting greenhouse gases to produce electricity.

10.4.3.2 Costs

Table 10.4-2 costs are environmental impacts anticipated after implementation of proposed mitigation measures. The costs fall into the general categories of land use (including cultural resources), water use, ecology, socioeconomic, and radiological impacts and materials usage. Land impacts would be conversion of approximately 240 acres of pine and hardwoods onsite to industrial usage and 1,360 acres offsite for uranium fuel production and spent fuel disposal over the 40-year operating life of the new units. There is a potential for impact to cultural resources. Land use impacts from construction and operation activities are discussed in detail in Sections 4.1 and 5.1, respectively.

Groundwater and surface water impacts would include a localized effect from dewatering during construction and withdrawal of approximately 37,200 gallons per minute (gpm) of withdrawal from Monticello Reservoir during operation, of which approximately 27,600 gpm would be consumptive loss due to evaporation.

Less than one acre of aquatic habitat and approximately one acre of wetlands habitat would be lost due to construction. Cooling system operation would result in loss due to impingement of small numbers of abundantly occurring Monticello Reservoir fish, none of which are endangered or threatened. Discharge of waste heat and wastewater to Parr Reservoir would affect a small area in the immediate vicinity of the discharge.

Construction would result in small impacts from noise, fugitive dust, and exhaust emissions and worker vehicles would have moderate to large impacts on traffic patterns in the vicinity. Low-level noise from cooling towers and public address systems may be audible offsite and intake

**VCSNS UNITS 2 and 3**  
**Response to NRC Information Needs Item**

and discharge structures and cooling tower plumes would be visible offsite. Operations-related traffic would increase at the beginning and end of the workday.

Annual radiological impacts from the two operating units combined would be 134 person-rem to the worker, 1.1 millirem to the maximally exposed member of the public, and 35.0 person-rem collective dose to the public.

Table 10.4-2 itemizes the largest quantities of material to be committed to the project (concrete, rebar, structural steel, cable, piping, and uranium).

Table 10.4-5 provides internal cost estimates of \$8.2 billion for overnight costs (as if the units could be constructed instantly, with no escalation or interest costs for the construction period), \$11.3 billion for construction (including escalation and interest), and first-year operating costs of \$343 million for Unit 2 and \$325 million for Unit 3. First-year operating costs for Unit 3 are lower, despite three additional years of escalation and interest, because shared costs are attributed to Unit 2. All estimates, however, are subject to change.

In conclusion, there are benefits that balance the environmental and monetary costs of the proposed action. While there can always be differing interpretations of the extent of the benefits and the significance of the costs, it is difficult to ignore value that society places on having available, reliable, electricity. It is also difficult to ignore the significant role that nuclear power plants have in a system that reliably produces electricity. Finally, it is becoming apparent that this country and the world are placing ever-increasing value on generating electricity without generating emissions that contribute to global warming, a service that nuclear power provides. SCE&G concludes that the benefits of its proposed VCSNS Units 2 and 3 substantially outweigh the cost.

**VCSNS UNITS 2 and 3  
Response to NRC Information Needs Item**

**Table 10.4-2 (Sheet 1 of 2)  
Benefit-Cost Summary**

| Benefit-Cost Category                           | Description  |
|---|--|
| <b>BENEFITS</b>                                 |  |
| Electricity generated                           | 16,000,000 to 18,000,000 MW-hours per year   |
| Generating capacity                             | 2,214 MW   |
| Fuel diversity and natural gas alternative      | Nuclear option to coal- and gas-fired baseload generation  |
| <del>Emissions reduction</del> <u>avoidance</u> | Avoidance of 34 to 7,044 tons per year sulfur dioxide<br><br>Avoidance of 558 to 1,495 tons per year nitrogen oxides<br><br>Avoidance of 116 to 1,495 tons per year carbon monoxide<br><br>Avoidance of 5,630,000 to 16,500,000 tons per year carbon dioxide<br><br>Avoidance of up to 0.25 tons per year mercury<br><br>Avoidance of 67 to 97 tons per year particulates            |
| Advanced Light Water Reactor development        | Maintaining domestic nuclear technology capability as hedge against possible need to control global warming  |
| Tax payments                                    | Payments in 2005 dollars could range from approximately \$6,400,000 to \$24,600,000 annually over the life of the units.   |
| Local economy                                   | Add 2,500 jobs to the local economy  |
| Cultural resources                              | Mitigative work adding to local historic and pre-historic knowledge base   |
| <b>ENVIRONMENTAL COSTS</b>                      |  |
| Construction cost                               | \$4.4 billion in 2003 dollars (overnight capital cost)   |
| Operating cost                                  | 6.5 cents per kilowatt-hour in 2003 dollars (levelized cost of electricity)  |
| Land use  | 240 acres occupied on long-term basis by nuclear plant and associated infrastructure. <u>Use of On off-site non-radioactive- and radioactive-waste landfills may restrict future uses of that land. 17 acres per unit per year committed for fuel cycle land use.</u><br><br>Portion of new transmission line corridor that is wooded would be converted to open scrub or grassland. |

**VCSNS UNITS 2 and 3  
Response to NRC Information Needs Item**

**Table 10.4-2 (Sheet 2 of 2)  
Benefit-Cost Summary**

| Benefit-Cost Category                                   | Description  |
|---|--|
| <b><u>ENVIRONMENTAL COSTS</u></b><br><b>(continued)</b> |  |
| Cultural resources                                      | Potential for destruction of historical, cultural, or paleontological resources  |
| Groundwater use   | During the construction period, dewatering of shallow, water-table aquifer would have only small, local effect.  |
| Surface water use                                       | During the 40-year operation period, approximately 37,200 gpm will be withdrawn from Monticello Reservoir and 9,400 gpm will be discharged to Parr and Monticello Reservoirs. <del>Of the</del> The balance, approximately 27,700 <del>600</del> gpm, would be lost through evaporation.   |
| <u>Ecology</u>  | <u>Loss of less than one acre of aquatic habitat and approximately one acre of wetlands habitat. Loss due to impingement of small numbers of abundantly occurring Monticello Reservoir fish. Discharge of waste heat and wastewater to Parr Reservoir.</u>   |
| <u>Socioeconomics</u>                                   | <u>Construction would result in small impacts from noise, fugitive dust, and exhaust emissions and worker vehicles would have moderate to large impacts on traffic patterns in the vicinity. Low-level noise from cooling towers and public address systems may be audible offsite and intake and discharge structures and cooling tower plumes would be visible offsite. Operations-related traffic would increase at the beginning and end of the day.</u> |
| Material <sup>(a)</sup>                                 | 150,000 yds concrete<br>22,000 tons rebar<br>24,000 tons structural steel<br>13,000,000 linear feet cable<br>275,000 feet of piping having diameter > 2.5 inches<br>1,960 metric tons of uranium   |
| Radiological  | Operation worker dose: 134 person-rem <sup>(b)</sup><br>Maximally exposed individual (public) dose: 1.1 millirem per year (total body) during operation<br>Collective dose to the public: 35.0 person-rem per year (total body) during operation   |

a) Includes materials for the reactor, turbine, annex, radiological waste, and diesel-generator building

b) Average dose for AP1000 from DCD Section 12.4 (doubled for two units)

**VCSNS UNITS 2 and 3**  
**Response to NRC Information Needs Item**

**Table 10.4-5**  
**Internal Costs (in millions of dollars)**

| <u>Description</u>                           | <u>SCE&amp;G</u> | <u>Santee</u>  | <u>Total</u>    |
|--|------------------|----------------|-----------------|
| EPC cost, 2007\$                             | \$3,854          | \$3,153        | \$7,007         |
| Owner's cost, 2007\$ (w/o transmission cost) | \$326            | \$267          | \$593           |
| Transmission cost, 2007\$                    | \$355            | \$221          | \$576           |
| <u>Subtotal, 2007\$ (overnight cost)</u>     | <u>\$4,535</u>   | <u>\$3,641</u> | <u>\$8,176</u>  |
| Cost escalation                              | \$1,514          | \$1,173        | \$2,687         |
| AFUDC  | \$264            | \$216          | \$480           |
| <u>Total, 2007\$(construction cost)</u>      | <u>\$6,313</u>   | <u>\$5,030</u> | <u>\$11,343</u> |

|  | <u>Unit 2</u> | <u>Unit 3</u> | <u>Unit 2</u> | <u>Unit 3</u> | <u>Unit 2</u> | <u>Unit 3</u> |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
|  | <u>(2016)</u> | <u>(2019)</u> | <u>(2016)</u> | <u>(2019)</u> | <u>(2016)</u> | <u>(2019)</u> |
| Annualized first year fixed operating costs    | \$191         | \$182         | \$119         | \$107         | \$310         | \$289         |
| Annualized first year variable operating costs | \$18          | \$20          | \$15          | \$16          | \$33          | \$36          |
| <u>Total, (first year operating costs)</u>     | <u>\$209</u>  | <u>\$202</u>  | <u>\$134</u>  | <u>\$123</u>  | <u>\$343</u>  | <u>\$325</u>  |

AFUDC = Allowance for funds used during construction (capitalized interest)

EPC = Engineering, procurement, and construction

## VCSNS UNITS 2 and 3

### Response to NRC Information Needs Item

**Information Item Number:** GW-7 Item 3      **Revision:** 0

**Statement of the Information Item:**

Information Item GW-7 Item 3:

Provide an expert to describe baseline groundwater quality at the site along with spatial and temporal changes.

SCE&G Follow Up Action:

Provide letter from applicant to DHEC and response letter from DHEC dated January 11, 2007 that discusses condensate polisher resin disposal.

**Response:**

Attached is the requested correspondence between DHEC and SCE&G dated January 11, 2007 and August 22, 2006,

**COLA Revisions:**

No COLA revision is required as a result of the response to this Information Needs item.



BOARD:  
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Vice Chairman  
Steven G. Klincer  
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C. Earl Hunter, Commissioner

*Promoting and protecting the health of the public and the environment*

BOARD:  
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GW-7 Item 3

January 11, 2007

Mr. Thomas D. Gatlin  
General Manager, Nuclear Plant Operations  
SCE&G, V. C. Summer Nuclear Station  
P. O. Box 88  
Jenkinsville, SC 29065

Dear Mr. Gatlin:

This refers to your letter dated August 22, 2006 regarding your request for termination of SC Regulation 61-6, Title A, RHA 3.28 [10 CFR 20.302 (a)] application at the Virgil C. Summer Nuclear Station. The request concerns two (2) sludge application sites previously approved for land application in 1987 and 1993. The locations of these sites are referenced in the attachments to your letter. Likewise, the results of the sampling and analysis your facility performed from these sites showed radiological concentration below the Low Limits of Detections (LLD) as described in your Offsite Dose Calculation Manual. The confirmatory sampling and analysis performed by our office on October 3, 2006 showed no detectable radionuclide concentration. Base upon these information, the Department provides approval to your request. Be reminded that documentation applicable to these specific sites must be complete and available for reference for any future facility license requirement.

Furthermore, requests for qualification of new land application sites must be received by the Department for our review and approval as described in RA 3.28.

If you have any questions or require further information, Please contact our office at (803) 896-4240.

Very truly yours,

Michael S. Moore, Section Manager  
Division of Waste Management  
Bureau of Land and Waste Management

cc Mr. Bob Trojanowski, US NRC

VCSUMMER SBR\_TDG\_st.SCE&G

Thomas D. Gatlin  
General Manager, Nuclear Plant Operations  
803.345-4342



August 22, 2006

Mr. Henry J. Porter  
Division of Waste Management  
Radioactive Waste Management Section  
Bureau of Land and Waste Management  
South Carolina Department of Health  
And Environmental Control  
2600 Bull Street  
Columbia, SC 29201

Dear Mr. Porter:

Subject: VIRGIL C. SUMMER NUCLEAR STATION  
REQUEST FOR TERMINATION OF 10 CFR 20.302 (a) APPLICATION

Reference: Letter from Mr. Heyward Shealy to Mr. Dan Nauman dated 12/09/87  
Letter from Mr. Virgil C. Autry to Mr. John L. Skolds dated 12/17/93

Virgil C. Summer Nuclear Station (VCSNS) has utilized two sludge application sites located approximately 0.75 miles south of the plant in an area designated L-50. These sites were previously approved for land application by your office in 1987 and 1993.

During the period of January 5 to February 1, 2006, samples collected and analyzed from these sites indicate radiological concentrations below the required Low Limits of Detection (LLD) specified in the Offsite Dose Calculation Manual (ODCM). The sample plan and results are attached for your review along with a Technical Work Record (TWR) discussing the Preoperational Soil Activity. Based on the results of the analyses, South Carolina Electric & Gas Company requests that the 10 CFR 20.302(a) application of November 9, 1987, be terminated and no further controls be required for this material or sites.

If any additional information is needed in processing this application, please call Ms. Susan B. Reese at 345-4591.

Very truly yours,

Thomas D. Gatlin

SBR/TDG/sr  
Attachments

c: M. B. Roberts  
P. A. Mothena  
A. R. Rice

RTS (C-06-2672)  
File (809.09-6)  
DMS (RC-06-0150)

Sample Plan for the Sludge Application Site

This is a 1.37 acre site approximately 0.75 miles south of VC Summer Nuclear Station in the area of L-50. See attached map for reference.

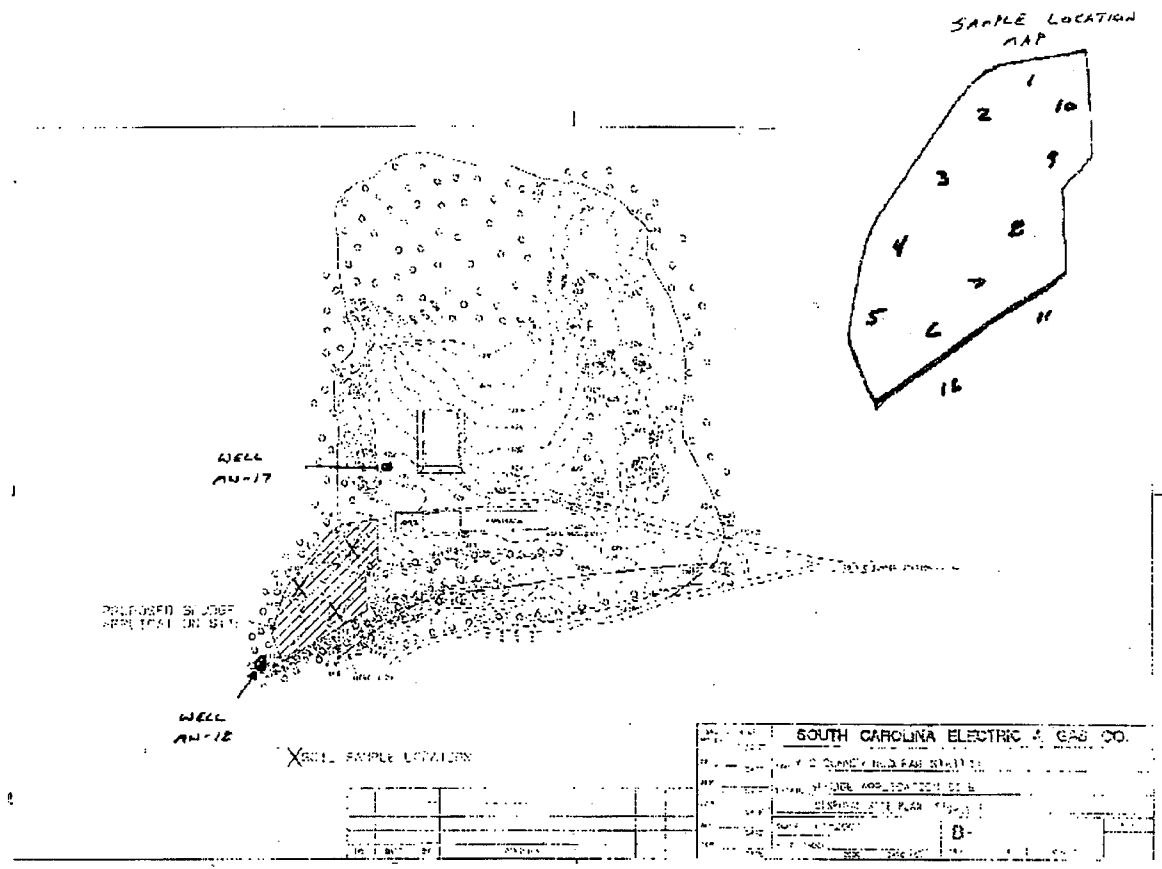
A total of twelve samples will be collected. Two samples will be collected in the low lying water retention areas east of the application site. The remaining samples will be evenly spaced through out the application site, ensuring all samples are a minimum of 20 feet from the edge of the site. This will be determined using the attached map and as indicated by the new growth pine trees planted following the completion of the site.

Collection of samples:

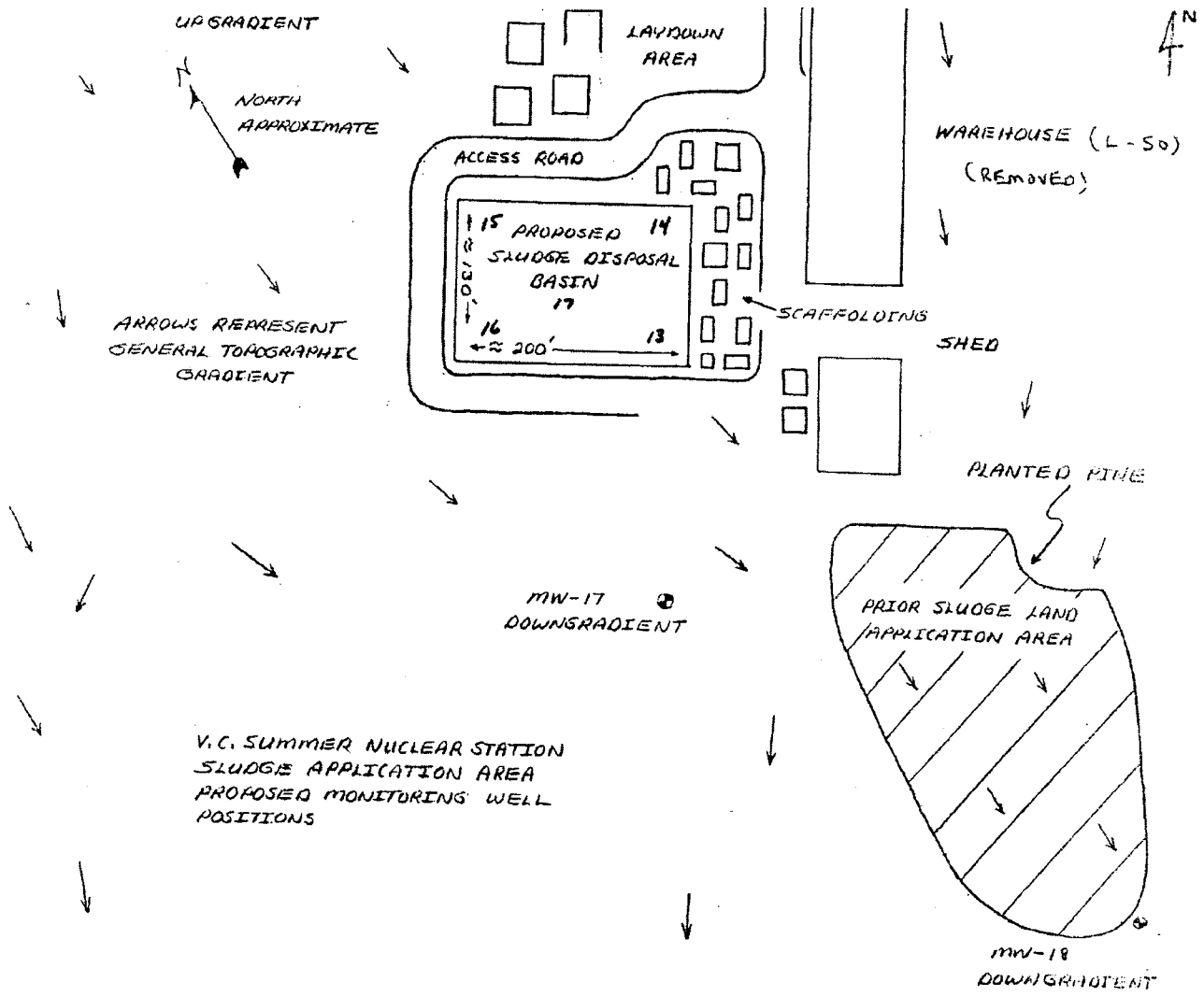
1. Record location of sample site on the table below and on the attached map.
2. Rake away pine straw and other vegetation from the sample site.
3. Using a posthole digger or other suitable tool remove soil to a depth of 8 to 12 inches. Remove and discard non-soil related obstructions (e.g. rocks, twigs, roots, etc.) from soil. (Very small pebbles, roots, etc. may remain, at the discretion of the sample collector.)
4. This soil will be collected and prepared in accordance with HPP-1021, Section 4.10.

| Sample | GPS Coordinates      |             |                | Sample Analysis # |
|--------|----------------------|-------------|----------------|-------------------|
|        |                      |             |                |                   |
| 1      | N34°17.069           | W081°19.260 | (25° / 1.02 m) | V10106            |
| 2      | N34°17.065           | W081°19.264 | (25° / 1.03 m) | V20106            |
| 3      | N34°17.050           | W081°19.267 | (25° / 1.04 m) | V30106            |
| 4      | N34°17.031           | W081°19.263 | (24° / 1.06 m) | V40106            |
| 5      | N34°17.022           | W081°19.272 | (25° / 1.07 m) | V50106            |
| 6      | N34°17.030           | W081°19.260 | (24° / 1.06 m) | V60106            |
| 7      | N34°17.040           | W081°19.254 | (24° / 1.05 m) | V70106            |
| 8      | N34°17.051           | W081°19.251 | (24° / 1.04 m) | V80106            |
| 9      | N34°17.058           | W081°19.247 | (24° / 1.03 m) | V90106            |
| 10     | N34°17.066           | W081°19.253 | (24° / 1.02 m) | V100106           |
| 11     | N34°17.056 Creek Bed | W081°19.232 | (23° / 1.03 m) | V11106            |
| 12     | N34°17.038 Creek Bed | W081°19.237 | (23° / 1.04 m) | V12106            |

( ) Bearing degrees and distance in miles from the plant.  
 Unable to obtain GPS coordinates for samples 13- 20.



Best Available Copy



V.C. SUMMER NUCLEAR STATION  
SLUDGE APPLICATION AREA  
PROPOSED MONITORING WELL  
POSITIONS

Sludge Application Site Sample Results

| Sample Location | Sample Analysis # | Cs-137 Activity pCi/kg | Detector Used |
|-----------------|-------------------|------------------------|---------------|
| 1               | V10106            | <12.27                 | 1             |
| 2               | V20106            | 10.82                  | 2             |
| 3               | V30106            | <18.48                 | 4             |
| 4               | V40106            | 26.20                  | 4             |
| 5               | V50106            | 13.89                  | 1             |
| 6               | V60106            | 11.03                  | 2             |
| 7               | V70106            | 30.73                  | 2             |
| 8               | V80106            | 38.92                  | 4             |
| 9               | V90106            | 34.45                  | 1             |
| 10              | V100106           | 18.15                  | 2             |
| 11              | V11106            | <14.32                 | 4             |
| 12              | V12106            | <12.21                 | 1             |
| 13              | V10406            | <10.85                 | 1             |
| 14              | V20406            | <10.64                 | 2             |
| 15              | V30406            | <16.17                 | 4             |
| 16              | V40406            | <8.53                  | 1             |
| 17              | V50406            | <9.00                  | 2             |

All sample results are well below the LLD for Cs-137 (180 pCi/kg) and are consistent with environmental levels attributed to atmospheric weapons testing.

Control Samples Taken Outside the Sludge Application Areas

| Sample Location | Sample Analysis # | Cs-137 Activity pCi/kg | Detector Used |
|-----------------|-------------------|------------------------|---------------|
| 18              | V60406            | 18.84                  | 4             |
| 19              | V70406            | 11.43                  | 2             |
| 20              | V80406            | <17.03                 | 4             |
| Site 18         | V1181106          | 217.5                  | 1             |

TWR 1-2 89-008

**SOUTH CAROLINA ELECTRIC & GAS**

Inter Office Correspondence

Corporate Health Physics & Environmental Programs

(Optional)

Subject: Preoperational Soil Activity

Date: January 11, 1989

To: G G Hall *GH*

Attention of

This is the Soil Analysis Summary compiling samples taken from the V. C. Summer Environmental Lab's fourteen original Air Sampling Sites. These samples were taken in 1982. When available, they consisted of surface and subsurface samples from each site.

F. D. Haddon  
Health Physics Specialist

*F. D. Haddon*

mn

cc: Reading File

SOIL ANALYSIS SUMMARY

| Sample No.         | Cs-137 | U-235   | Ac-228   | Bi-214  | K-40      | Pb-212   | Pb-214   | Ra-226   | Tl-208  |
|--------------------|--------|---------|----------|---------|-----------|----------|----------|----------|---------|
| V20144             | 2.43E2 | 8.33E1  | 2.21E3   | 1.04E3  | 5.38E3    | 2.22E-3  | 1.07E3   | 2.59E3   | 7.11E2  |
| V10244             | 8.66E2 | <8.70E1 | 6.99E2   | 4.71E2  | 9.45E3    | 6.46E2   | 4.80E2   | 1.22E3   | 2.18E2  |
| V20244             | 1.69E2 | <1.13E2 | 6.86E2   | 5.02E2  | 1.20E4    | 7.85E2   | 6.09E2   | 1.36E3   | 2.29E2  |
| V10444             | 7.24E1 | <1.46E2 | 1.44E3   | 5.76E2  | 1.40E4    | 1.49E3   | 6.67E2   | 1.51E3   | 4.84E2  |
| V20444             | 2.45E2 | 9.23E1  | 1.81E3   | 7.83E2  | 1.20E4    | 1.88E3   | 8.78E2   | 2.31E3   | 6.17E2  |
| V10844             | 1.12E2 | 1.02E2  | 3.03E3   | 1.06E3  | 1.04E4    | 2.85E3   | 1.15E3   | 2.77E3   | 9.72E2  |
| V20844             | 1.27E2 | 7.95E1  | 2.84E3   | 1.12E3  | 8.31E3    | 2.89E3   | 1.20E3   | 2.54E3   | 9.49E2  |
| V10642             | 2.22E2 | 6.51E1  | 1.94E3   | 9.21E2  | 6.12E3    | 1.98E3   | 9.52E2   | 2.16E3   | 6.91E2  |
| V20642             | 1.36E2 | 6.76E1  | 2.06E3   | 9.56E2  | 6.19E3    | 2.14E3   | 1.03E3   | 2.13E3   | 6.88E2  |
| V11142             | 9.28E2 | <1.10E2 | 1.04E3   | 9.02E2  | 3.05E4    | 1.33E3   | 9.66E2   | 2.13E3   | 4.51E2  |
| V21142             | 6.03E1 | <8.75E1 | 1.26E3   | 8.52E2  | 3.17E4    | 1.32E3   | 9.25E2   | 2.36E3   | 4.28E2  |
| V11044             | 2.61E2 | 1.41E2  | 2.03E3   | 1.41E3  | 2.15E4    | 2.08E3   | 1.50E3   | 3.84E3   | 6.88E2  |
| V21044             | 6.50E1 | 1.17E2  | 2.44E3   | 1.28E3  | 1.65E4    | 2.33E3   | 1.40E3   | 4.05E3   | 7.38E2  |
| V20542             | 1.05E2 | 1.04E2  | 2.41E3   | 9.64E2  | 3.58E3    | 2.42E3   | 1.06E3   | 2.36E3   | 7.80E2  |
| V11844             | 1.23E3 | 7.84E1  | 9.23E2   | 6.62E2  | 4.99E3    | 9.30E2   | 7.20E2   | 1.70E3   | 3.30E2  |
| V21844             | 3.25E2 | <9.77E1 | 1.16E3   | 5.85E2  | 5.39E3    | 1.16E3   | 6.44E2   | 1.54E3   | 3.80E2  |
| V11744             | 2.47E2 | 8.75E1  | 2.96E3   | 1.45E3  | 1.78E4    | 4.21E2   | 1.53E3   | 3.86E3   | 1.04E3  |
| V21744             | 1.62E2 | 8.68E1  | 3.91E3   | 1.51E3  | 2.07E4    | 4.01E3   | 1.73E3   | 4.36E3   | 1.30E3  |
| V11644             | 7.19E2 | 8.02E1  | 1.93E3   | 1.32E3  | 1.71E4    | 1.98E3   | 1.42E3   | 3.09E3   | 6.64E2  |
| V21644             | 1.62E2 | 9.52E1  | 1.72E3   | 1.29E3  | 1.73E4    | 1.86E3   | 1.38E3   | 2.90E3   | 5.88E2  |
| V11544             | 4.53E2 | 1.69E2  | 2.41E3   | 1.10E3  | 1.29E4    | 2.60E3   | 1.23E3   | 2.89E3   | 8.15E2  |
| V21544             | 1.81E2 | 1.24E2  | 2.42E3   | 3.61E1  | 1.24E4    | 2.41E3   | 1.11E3   | 2.79E3   | 7.71E2  |
| V11444             | 9.49E2 | 1.13E2  | 1.61E3   | 9.87E2  | 3.03E4    | 1.65E3   | 1.03E3   | 2.09E3   | 5.52E2  |
| V21444             | 1.32E2 | 7.22E1  | 1.44E3   | 8.66E2  | 3.02E4    | 1.43E3   | 9.38E2   | 2.01E3   | 4.75E2  |
| V11344             | 6.75E1 | 8.95E1  | 3.11E3   | 1.37E3  | 1.94E4    | 3.16E3   | 1.56E3   | 3.77E3   | 1.04E3  |
| V21344             | 2.84E1 | 1.09E2  | 3.70E3   | 1.40E3  | 2.15E4    | 3.71E3   | 1.56E3   | 3.98E3   | 1.21E3  |
| MEAN               | 317.99 | 97.83   | 2045.692 | 977.427 | 15292.692 | 1987.769 | 1105.346 | 2627.308 | 684.962 |
| STANDARD DEVIATION | 330.39 | 25.756  | 867.526  | 359.902 | 8572.175  | 894.767  | 333.957  | 895.962  | 281.238 |

Note: V1 = surface soil  
 V2 = subsurface soil  
 All units in pCi/kg



## VCSNS UNITS 2 and 3

### Response to NRC Information Needs Item

Information Item Number: SE-S1 Revision: 0

#### Statement of the Information Item:

Information Item SE-S1:

Provide a geographic summary of current VCS operating workforce sufficient to permit NRC staff to determine county of residence.

#### Response:

As described in ER Section 2.5.1.2, SCE&G assumed that the residential distribution of the new units' operational workforce would resemble the residential distribution of VCSNS's current workforce. Approximately 95% of current Unit 1 employees reside within Fairfield, Newberry, Lexington, and Richland counties. The remaining 5% are distributed across 19 other counties. The database of employee residence information that was used to determine the percentage distribution by county is attached.

#### COLA Revisions:

No COLA revision is required as a result of the response to this Information Needs item.

ER Information Item SE-S1

Employee Residence by County.xls

| Name | City           | State | Postal     | County     | Total by County |
|------|----------------|-------|------------|------------|-----------------|
| JRY  | Wagener        | SC    | 29164      | Aiken      | 1               |
| JTP  | Cameron        | SC    | 29030      | Calhoun    | 1               |
| AJW  | Mount Pleasant | SC    | 29466      | Charleston | 1               |
| DWR  | Chester        | SC    | 29706      | Chester    | 1               |
| CCB  | Edisto Beach   | SC    | 29438      | Colleton   | 1               |
| MLC  | Blair          | SC    | 29015      | Fairfield  | 1               |
| NLC  | Blair          | SC    | 29015      | Fairfield  | 1               |
| BGH  | Blair          | SC    | 29015      | Fairfield  | 1               |
| STH  | Blair          | SC    | 29015      | Fairfield  | 1               |
| DFR  | Blair          | SC    | 29015      | Fairfield  | 1               |
| BT   | Blair          | SC    | 29015      | Fairfield  | 1               |
| CAW  | Blair          | SC    | 29015-9601 | Fairfield  | 1               |
| AW   | Blair          | SC    | 29015      | Fairfield  | 1               |
| RJG  | Blythewood     | SC    | 29016      | Fairfield  | 1               |
| HMR  | Blythewood     | SC    | 29016      | Fairfield  | 1               |
| CEC  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| ECE  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| ACG  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| AJG  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| HLG  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| DEM  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| DMO  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| LSO  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| TWP  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| PLR  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| WRR  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| PHS  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| TRT  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| WSY  | Jenkinsville   | SC    | 29065      | Fairfield  | 1               |
| DMD  | Ridgeway       | SC    | 29130      | Fairfield  | 1               |
| PJF  | Ridgeway       | SC    | 29130      | Fairfield  | 1               |
| JRH  | Ridgeway       | SC    | 29130      | Fairfield  | 1               |
| BJM  | Ridgeway       | SC    | 29130      | Fairfield  | 1               |
| CVT  | Ridgeway       | SC    | 29130      | Fairfield  | 1               |
| RAW  | Ridgeway       | SC    | 29130      | Fairfield  | 1               |
| WDB  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| DGB  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| GJB  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| JEB  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| JTC  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| VMC  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| AKD  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| GGD  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| CSF  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| LG   | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| CAH  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| HH   | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| CCJ  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| MCJ  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| MBJ  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |
| DRM  | Winnsboro      | SC    | 29180      | Fairfield  | 1               |

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Employee Residence by County.xls

|     |              |    |            |            |   |     |
|-----|--------------|----|------------|------------|---|-----|
| PQR | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| RGR | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| CCR | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| MS  | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| LES | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| SLT | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| JWT | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| MW  | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| HHW | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| JDW | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| JRW | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| JDW | Winnsboro    | SC | 29180      | Fairfield  | 1 |     |
| PEF | Simpsonville | SC | 29680      | Greenville | 1 | 1   |
| TMC | Hodges       | SC | 29653      | Greenwood  | 1 | 1   |
| MEM | Troutman     | NC | 28166-8696 | Iredell    | 1 | 1   |
| CBS | Ridgeland    | SC | 29936      | Jasper     | 1 | 1   |
| BP  | Camden       | SC | 29020      | Kershaw    | 1 | 10  |
| RFR | Camden       | SC | 29020      | Kershaw    | 1 |     |
| BNA | Elgin        | SC | 29045      | Kershaw    | 1 |     |
| DWF | Elgin        | SC | 29045      | Kershaw    | 1 |     |
| CSR | elgin        | SC | 29045      | Kershaw    | 1 |     |
| TLT | Elgin        | SC | 29045      | Kershaw    | 1 |     |
| ALB | Lugoff       | SC | 29078      | Kershaw    | 1 |     |
| RRH | Lugoff       | SC | 29078      | Kershaw    | 1 |     |
| JWK | Lugoff       | SC | 29078      | Kershaw    | 1 |     |
| TAO | Lugoff       | SC | 29078      | Kershaw    | 1 |     |
| AWP | Van Wyck     | SC | 29744      | Lancaster  | 1 | 1   |
| CJD | Joanna       | SC | 29351      | Laurens    | 1 | 1   |
| RSB | Batesburg    | SC | 29006      | Lexington  | 1 | 219 |
| LPC | Cayce        | SC | 29033      | Lexington  | 1 |     |
| AAD | Cayce        | SC | 29033-2414 | Lexington  | 1 |     |
| RLD | Cayce        | SC | 29033      | Lexington  | 1 |     |
| DLH | Cayce        | SC | 29033      | Lexington  | 1 |     |
| THW | Cayce        | SC | 29033      | Lexington  | 1 |     |
| WKA | Chapin       | SC | 29036      | Lexington  | 1 |     |
| JBA | Chapin       | SC | 29036      | Lexington  | 1 |     |
| RLA | Chapin       | SC | 29036      | Lexington  | 1 |     |
| RAB | Chapin       | SC | 29036-7884 | Lexington  | 1 |     |
| CFB | Chapin       | SC | 29036      | Lexington  | 1 |     |
| WEB | Chapin       | SC | 29036      | Lexington  | 1 |     |
| SAB | Chapin       | SC | 29036      | Lexington  | 1 |     |
| BRC | Chapin       | SC | 29036      | Lexington  | 1 |     |
| GLC | Chapin       | SC | 29036      | Lexington  | 1 |     |
| WRC | Chapin       | SC | 29036      | Lexington  | 1 |     |
| MKC | Chapin       | SC | 29036      | Lexington  | 1 |     |
| KWC | CHAPIN       | SC | 29036      | Lexington  | 1 |     |
| TCC | Chapin       | SC | 29036      | Lexington  | 1 |     |
| MEE | Chapin       | SC | 29036      | Lexington  | 1 |     |
| JGF | Chapin       | SC | 29036      | Lexington  | 1 |     |
| MPF | Chapin       | SC | 29036      | Lexington  | 1 |     |
| MKF | Chapin       | SC | 29036      | Lexington  | 1 |     |
| DRF | Chapin       | SC | 29036      | Lexington  | 1 |     |

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Employee Residence by County.xls

|     |        |    |            |           |   |
|-----|--------|----|------------|-----------|---|
| DWF | Chapin | SC | 29036      | Lexington | 1 |
| GWF | Chapin | SC | 29036      | Lexington | 1 |
| LAG | Chapin | SC | 29036      | Lexington | 1 |
| DRG | Chapin | SC | 29036-7722 | Lexington | 1 |
| MCH | Chapin | SC | 29036      | Lexington | 1 |
| WEH | Chapin | SC | 29036      | Lexington | 1 |
| MJJ | Chapin | SC | 29036      | Lexington | 1 |
| RRJ | Chapin | SC | 29036      | Lexington | 1 |
| TAJ | Chapin | SC | 29036      | Lexington | 1 |
| RLJ | Chapin | SC | 29036      | Lexington | 1 |
| BHK | CHAPIN | SC | 29036      | Lexington | 1 |
| TGK | Chapin | SC | 29036      | Lexington | 1 |
| TKK | Chapin | SC | 29036      | Lexington | 1 |
| DAK | Chapin | SC | 29036-8104 | Lexington | 1 |
| LEK | Chapin | SC | 29036      | Lexington | 1 |
| ARK | Chapin | SC | 29036      | Lexington | 1 |
| DLL | Chapin | SC | 29036      | Lexington | 1 |
| APL | Chapin | SC | 29036      | Lexington | 1 |
| GTL | Chapin | SC | 29036-8334 | Lexington | 1 |
| ESL | Chapin | SC | 29036      | Lexington | 1 |
| RKM | Chapin | SC | 29036      | Lexington | 1 |
| BEM | Chapin | SC | 29036      | Lexington | 1 |
| WWM | Chapin | SC | 29036      | Lexington | 1 |
| ABM | Chapin | SC | 29036      | Lexington | 1 |
| SCM | Chapin | SC | 29036      | Lexington | 1 |
| GAM | Chapin | SC | 29036      | Lexington | 1 |
| FDM | Chapin | SC | 29036      | Lexington | 1 |
| WRM | Chapin | SC | 29036      | Lexington | 1 |
| FAM | Chapin | SC | 29036      | Lexington | 1 |
| MFM | Chapin | SC | 29036      | Lexington | 1 |
| GDM | Chapin | SC | 29036      | Lexington | 1 |
| AM  | Chapin | SC | 29036      | Lexington | 1 |
| JJN | Chapin | SC | 29036      | Lexington | 1 |
| JAO | Chapin | SC | 29036      | Lexington | 1 |
| RCO | Chapin | SC | 29036      | Lexington | 1 |
| PDP | Chapin | SC | 29036      | Lexington | 1 |
| REP | Chapin | SC | 29036      | Lexington | 1 |
| TMR | Chapin | SC | 29036      | Lexington | 1 |
| JJR | Chapin | SC | 29036      | Lexington | 1 |
| RJR | Chapin | SC | 29036      | Lexington | 1 |
| JLS | Chapin | SC | 29036      | Lexington | 1 |
| LMS | Chapin | SC | 29036      | Lexington | 1 |
| TWS | Chapin | SC | 29036      | Lexington | 1 |
| JRS | Chapin | SC | 29036      | Lexington | 1 |
| NMS | Chapin | SC | 29036      | Lexington | 1 |
| LHS | Chapin | SC | 29036      | Lexington | 1 |
| RES | Chapin | SC | 29036      | Lexington | 1 |
| RBS | Chapin | SC | 29036      | Lexington | 1 |
| BLT | Chapin | SC | 29036      | Lexington | 1 |
| MAT | Chapin | SC | 29036      | Lexington | 1 |
| RJW | Chapin | SC | 29036      | Lexington | 1 |
| SBW | Chapin | SC | 29036      | Lexington | 1 |

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Employee Residence by County.xls

|     |          |    |            |           |   |
|-----|----------|----|------------|-----------|---|
| JW  | Chapin   | SC | 29036      | Lexington | 1 |
| MRW | Chapin   | SC | 29036      | Lexington | 1 |
| JMW | Chapin   | SC | 29036      | Lexington | 1 |
| FA  | Columbia | SC | 29210      | Lexington | 1 |
| SHB | Columbia | SC | 29210      | Lexington | 1 |
| DAB | Columbia | SC | 29212      | Lexington | 1 |
| WHB | Columbia | SC | 29210      | Lexington | 1 |
| AJB | Columbia | SC | 29212      | Lexington | 1 |
| LRB | Columbia | SC | 29212      | Lexington | 1 |
| RRB | Columbia | SC | 29212      | Lexington | 1 |
| JCB | Columbia | SC | 29212-1336 | Lexington | 1 |
| JHB | Columbia | SC | 29212      | Lexington | 1 |
| MNB | Columbia | SC | 29212      | Lexington | 1 |
| JCB | Columbia | SC | 29212      | Lexington | 1 |
| ARC | Columbia | SC | 29212      | Lexington | 1 |
| CAC | Columbia | SC | 29212-8725 | Lexington | 1 |
| MEC | Columbia | SC | 29210      | Lexington | 1 |
| LRC | Columbia | SC | 29212      | Lexington | 1 |
| JMC | Columbia | SC | 29212      | Lexington | 1 |
| JAC | Columbia | SC | 29210      | Lexington | 1 |
| STC | Columbia | SC | 29212-8524 | Lexington | 1 |
| KDE | Columbia | SC | 29212      | Lexington | 1 |
| BTE | Columbia | SC | 29212      | Lexington | 1 |
| TSF | Columbia | SC | 29212      | Lexington | 1 |
| JEF | Columbia | SC | 29212-1128 | Lexington | 1 |
| DEF | Columbia | SC | 29210-4521 | Lexington | 1 |
| RMF | Columbia | SC | 29212      | Lexington | 1 |
| TBF | Columbia | SC | 29210      | Lexington | 1 |
| LHF | Columbia | SC | 29212      | Lexington | 1 |
| JHG | Columbia | SC | 29212      | Lexington | 1 |
| JEG | Columbia | SC | 29212      | Lexington | 1 |
| JRG | Columbia | SC | 29212      | Lexington | 1 |
| DAG | Columbia | SC | 29212      | Lexington | 1 |
| GMG | Columbia | SC | 29212-1233 | Lexington | 1 |
| MWG | Columbia | SC | 29210      | Lexington | 1 |
| JWH | Columbia | SC | 29212      | Lexington | 1 |
| WMH | Columbia | SC | 29212      | Lexington | 1 |
| TRH | Columbia | SC | 29212      | Lexington | 1 |
| RWJ | Columbia | SC | 29212      | Lexington | 1 |
| SKJ | Columbia | SC | 29212      | Lexington | 1 |
| TBJ | Columbia | SC | 29212      | Lexington | 1 |
| DLJ | Columbia | SC | 29212      | Lexington | 1 |
| TJK | Columbia | SC | 29212      | Lexington | 1 |
| DDK | Columbia | SC | 29210      | Lexington | 1 |
| JCL | Columbia | SC | 29210-4474 | Lexington | 1 |
| DAL | Columbia | SC | 29210      | Lexington | 1 |
| JJM | Columbia | SC | 29212      | Lexington | 1 |
| TLM | Columbia | SC | 29212      | Lexington | 1 |
| RFM | Columbia | SC | 29212      | Lexington | 1 |
| JAM | Columbia | SC | 29212      | Lexington | 1 |
| CJM | Columbia | SC | 29212      | Lexington | 1 |
| RPM | Columbia | SC | 29212      | Lexington | 1 |

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Employee Residence by County.xls

|     |             |    |            |           |   |
|-----|-------------|----|------------|-----------|---|
| AM  | Columbia    | SC | 29210      | Lexington | 1 |
| SEM | Columbia    | SC | 29212      | Lexington | 1 |
| MWM | Columbia    | SC | 29212      | Lexington | 1 |
| CO  | Columbia    | SC | 29210-4403 | Lexington | 1 |
| AMP | Columbia    | SC | 29212      | Lexington | 1 |
| WVP | Columbia    | SC | 29212      | Lexington | 1 |
| RTP | Columbia    | SC | 29212-0810 | Lexington | 1 |
| PJR | Columbia    | SC | 29212      | Lexington | 1 |
| SBR | Columbia    | SC | 29212      | Lexington | 1 |
| GAR | Columbia    | SC | 29212      | Lexington | 1 |
| SMR | Columbia    | SC | 29212      | Lexington | 1 |
| KDS | Columbia    | SC | 29212-2205 | Lexington | 1 |
| JLS | Columbia    | SC | 29210      | Lexington | 1 |
| ADU | Columbia    | SC | 29212      | Lexington | 1 |
| LRW | Columbia    | SC | 29212      | Lexington | 1 |
| DKW | Columbia    | SC | 29212      | Lexington | 1 |
| MPW | Columbia    | SC | 29212      | Lexington | 1 |
| MOW | Columbia    | SC | 29212      | Lexington | 1 |
| SMZ | Columbia    | SC | 29212      | Lexington | 1 |
| SRZ | Columbia    | SC | 29212-8523 | Lexington | 1 |
| RLS | Gaston      | SC | 29053      | Lexington | 1 |
| DSU | Gaston      | SC | 29053      | Lexington | 1 |
| PLB | GILBERT     | SC | 29054      | Lexington | 1 |
| JRC | Gilbert     | SC | 29054      | Lexington | 1 |
| WCH | Gilbert     | SC | 29054      | Lexington | 1 |
| REP | Gilbert     | SC | 29054      | Lexington | 1 |
| CSC | Great Falls | SC | 29055      | Lexington | 1 |
| HF  | Irmo        | SC | 29063      | Lexington | 1 |
| DJH | Irmo        | SC | 29063      | Lexington | 1 |
| RHM | irmo        | SC | 29063      | Lexington | 1 |
| BLN | Irmo        | SC | 29063      | Lexington | 1 |
| WDS | Irmo        | SC | 29063      | Lexington | 1 |
| RW  | Irmo        | SC | 29063      | Lexington | 1 |
| RDD | Leesville   | SC | 29070      | Lexington | 1 |
| CCE | Leesville   | SC | 29070      | Lexington | 1 |
| MDR | Leesville   | SC | 29070      | Lexington | 1 |
| TGB | Lexington   | SC | 29073      | Lexington | 1 |
| SJB | Lexington   | SC | 29073      | Lexington | 1 |
| JWB | Lexington   | SC | 29073      | Lexington | 1 |
| HJB | Lexington   | SC | 29072      | Lexington | 1 |
| JEC | Lexington   | SC | 29072      | Lexington | 1 |
| TRC | Lexington   | SC | 29072      | Lexington | 1 |
| GCF | Lexington   | SC | 29072-3930 | Lexington | 1 |
| TDG | Lexington   | SC | 29072      | Lexington | 1 |
| JAG | Lexington   | SC | 29072      | Lexington | 1 |
| RBH | Lexington   | SC | 29072      | Lexington | 1 |
| ALH | Lexington   | SC | 29073      | Lexington | 1 |
| JWH | Lexington   | SC | 29073      | Lexington | 1 |
| FLJ | Lexington   | SC | 29073      | Lexington | 1 |
| MCK | Lexington   | SC | 29072-7504 | Lexington | 1 |
| JEK | Lexington   | SC | 29072      | Lexington | 1 |
| JKK | Lexington   | SC | 29072      | Lexington | 1 |

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Employee Residence by County.xls

|     |                 |    |            |           |   |
|-----|-----------------|----|------------|-----------|---|
| DLM | Lexington       | SC | 29072      | Lexington | 1 |
| RDM | Lexington       | SC | 29072      | Lexington | 1 |
| CDM | Lexington       | SC | 29072      | Lexington | 1 |
| DWM | Lexington       | SC | 29072      | Lexington | 1 |
| JMM | Lexington       | SC | 29073      | Lexington | 1 |
| REM | Lexington       | SC | 29072      | Lexington | 1 |
| KWN | Lexington       | SC | 29072      | Lexington | 1 |
| CGN | Lexington       | SC | 29072      | Lexington | 1 |
| TBN | Lexington       | SC | 29072      | Lexington | 1 |
| JRP | Lexington       | SC | 29072      | Lexington | 1 |
| RJP | Lexington       | SC | 29072      | Lexington | 1 |
| VRP | Lexington       | SC | 29072      | Lexington | 1 |
| FBR | Lexington       | SC | 29072      | Lexington | 1 |
| TDR | Lexington       | SC | 29072      | Lexington | 1 |
| CWS | Lexington       | SC | 29073      | Lexington | 1 |
| KAS | Lexington       | SC | 29073-8818 | Lexington | 1 |
| DAS | Lexington       | SC | 29072      | Lexington | 1 |
| RGS | Lexington       | SC | 29073      | Lexington | 1 |
| JET | Lexington       | SC | 29072      | Lexington | 1 |
| WHT | Lexington       | SC | 29073      | Lexington | 1 |
| JW  | Lexington       | SC | 29073      | Lexington | 1 |
| GGW | Lexington       | SC | 29072      | Lexington | 1 |
| TLW | Lexington       | SC | 29072      | Lexington | 1 |
| RMY | Lexington       | SC | 29073-9705 | Lexington | 1 |
| BWH | Little Mountain | SC | 29075      | Lexington | 1 |
| MF  | Swansea         | SC | 29160      | Lexington | 1 |
| MBB | West Columbia   | SC | 29172      | Lexington | 1 |
| JEB | West Columbia   | SC | 29172      | Lexington | 1 |
| MWB | West Columbia   | SC | 29172      | Lexington | 1 |
| MTC | West Columbia   | SC | 29170      | Lexington | 1 |
| SFF | West Columbia   | SC | 29170      | Lexington | 1 |
| PLG | West Columbia   | SC | 29169      | Lexington | 1 |
| MRH | West Columbia   | SC | 29169      | Lexington | 1 |
| WPK | West Columbia   | SC | 29170      | Lexington | 1 |
| PJK | West Columbia   | SC | 29169      | Lexington | 1 |
| WMM | West Columbia   | SC | 29172      | Lexington | 1 |
| TGP | West Columbia   | SC | 29169      | Lexington | 1 |
| MBR | West Columbia   | SC | 29170      | Lexington | 1 |
| RW  | West Columbia   | SC | 29172      | Lexington | 1 |
| ROB | Chapin          | SC | 29036      | Newberry  | 1 |
| PRC | Chapin          | SC | 29036      | Newberry  | 1 |
| APD | Chapin          | SC | 29036      | Newberry  | 1 |
| CMR | Chapin          | SC | 29036      | Newberry  | 1 |
| GAL | Kinards         | SC | 29355      | Newberry  | 1 |
| REA | Little Mountain | SC | 29075      | Newberry  | 1 |
| JRB | Little Mountain | SC | 29075      | Newberry  | 1 |
| LLC | Little Mountain | SC | 29075      | Newberry  | 1 |
| CMC | Little Mountain | SC | 29075      | Newberry  | 1 |
| KBC | Little Mountain | SC | 29075      | Newberry  | 1 |
| DEF | Little Mountain | SC | 29075      | Newberry  | 1 |
| GCL | Little Mountain | SC | 29075      | Newberry  | 1 |
| SRM | Little Mountain | SC | 29075      | Newberry  | 1 |

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Employee Residence by County.xls

|     |                 |    |            |          |   |
|-----|-----------------|----|------------|----------|---|
| GPW | Little Mountain | SC | 29075      | Newberry | 1 |
| RDW | Little Mountain | SC | 29075      | Newberry | 1 |
| TCC | Little Mtn      | SC | 29075      | Newberry | 1 |
| DCH | Little Mtn      | SC | 29075      | Newberry | 1 |
| JEC | Lt Mountain     | SC | 29075      | Newberry | 1 |
| GAD | Ltle Mountain   | SC | 29075      | Newberry | 1 |
| RFB | Newberry        | SC | 29108      | Newberry | 1 |
| KGB | Newberry        | SC | 29108      | Newberry | 1 |
| VDB | Newberry        | SC | 29108-7238 | Newberry | 1 |
| HEC | Newberry        | SC | 29108      | Newberry | 1 |
| TME | Newberry        | SC | 29108      | Newberry | 1 |
| DMF | Newberry        | SC | 29108      | Newberry | 1 |
| JWG | Newberry        | SC | 29108      | Newberry | 1 |
| LCH | Newberry        | SC | 29108      | Newberry | 1 |
| TLJ | Newberry        | SC | 29108      | Newberry | 1 |
| RCK | Newberry        | SC | 29108      | Newberry | 1 |
| WFK | Newberry        | SC | 29108      | Newberry | 1 |
| JEL | Newberry        | SC | 29108      | Newberry | 1 |
| BDL | Newberry        | SC | 29108      | Newberry | 1 |
| SDL | Newberry        | SC | 29108      | Newberry | 1 |
| VTL | Newberry        | SC | 29108      | Newberry | 1 |
| CHL | Newberry        | SC | 29108      | Newberry | 1 |
| SRM | Newberry        | SC | 29108      | Newberry | 1 |
| TDM | Newberry        | SC | 29108      | Newberry | 1 |
| JRN | Newberry        | SC | 29108      | Newberry | 1 |
| LJP | Newberry        | SC | 29108      | Newberry | 1 |
| TBP | Newberry        | SC | 29108      | Newberry | 1 |
| TYR | Newberry        | SC | 29108      | Newberry | 1 |
| JRR | Newberry        | SC | 29108-9221 | Newberry | 1 |
| JMR | Newberry        | SC | 29108      | Newberry | 1 |
| EWR | Newberry        | SC | 29108      | Newberry | 1 |
| MBS | Newberry        | SC | 29108      | Newberry | 1 |
| TES | Newberry        | SC | 29108      | Newberry | 1 |
| APS | Newberry        | SC | 29108      | Newberry | 1 |
| DAS | Newberry        | SC | 29108      | Newberry | 1 |
| RDS | Newberry        | SC | 29108      | Newberry | 1 |
| WMW | Newberry        | SC | 29108      | Newberry | 1 |
| DHW | Newberry        | SC | 29108      | Newberry | 1 |
| TLW | Newberry        | SC | 29108      | Newberry | 1 |
| HAC | Peak            | SC | 29122      | Newberry | 1 |
| MDJ | Peak            | SC | 29122      | Newberry | 1 |
| GMP | Peak            | SC | 29122      | Newberry | 1 |
| CFS | Peak            | SC | 29122      | Newberry | 1 |
| EWB | Pomaria         | SC | 29126      | Newberry | 1 |
| PRC | Pomaria         | SC | 29126      | Newberry | 1 |
| RJC | Pomaria         | SC | 29126      | Newberry | 1 |
| ABG | Pomaria         | SC | 29126      | Newberry | 1 |
| DSG | Pomaria         | SC | 29126      | Newberry | 1 |
| GRG | Pomaria         | SC | 29126      | Newberry | 1 |
| TFH | Pomaria         | SC | 29126      | Newberry | 1 |
| MCH | Pomaria         | SC | 29126      | Newberry | 1 |
| LWH | Pomaria         | SC | 29126      | Newberry | 1 |



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Employee Residence by County.xls

|     |            |    |            |            |   |
|-----|------------|----|------------|------------|---|
| COH | Pomaria    | SC | 29126      | Newberry   | 1 |
| AHH | Pomaria    | SC | 29126      | Newberry   | 1 |
| PBJ | Pomaria    | SC | 29126-8926 | Newberry   | 1 |
| WKK | Pomaria    | SC | 29126      | Newberry   | 1 |
| MKN | Pomaria    | SC | 29126      | Newberry   | 1 |
| TJR | Pomaria    | SC | 29126      | Newberry   | 1 |
| MSR | Pomaria    | SC | 29126      | Newberry   | 1 |
| RCR | Pomaria    | SC | 29126      | Newberry   | 1 |
| RWR | Pomaria    | SC | 29126      | Newberry   | 1 |
| FDS | Pomaria    | SC | 29126      | Newberry   | 1 |
| EWS | Pomaria    | SC | 29126      | Newberry   | 1 |
| JS  | Pomaria    | SC | 29126      | Newberry   | 1 |
| TLW | Pomaria    | SC | 29126      | Newberry   | 1 |
| DOW | Pomaria    | SC | 29126      | Newberry   | 1 |
| DGW | Pomaria    | SC | 29126      | Newberry   | 1 |
| SEW | Pomaria    | SC | 29126      | Newberry   | 1 |
| JAA | Prosperity | SC | 29127      | Newberry   | 1 |
| HTA | Prosperity | SC | 29127      | Newberry   | 1 |
| JRB | Prosperity | SC | 29127      | Newberry   | 1 |
| MB  | Prosperity | SC | 29127      | Newberry   | 1 |
| SMB | Prosperity | SC | 29127      | Newberry   | 1 |
| BEB | Prosperity | SC | 29127      | Newberry   | 1 |
| DVB | Prosperity | SC | 29127      | Newberry   | 1 |
| LBB | Prosperity | SC | 29127      | Newberry   | 1 |
| RHB | Prosperity | SC | 29127      | Newberry   | 1 |
| CMC | Prosperity | SC | 29127      | Newberry   | 1 |
| SWC | Prosperity | SC | 29127      | Newberry   | 1 |
| TVD | Prosperity | SC | 29127      | Newberry   | 1 |
| JCF | Prosperity | SC | 29127      | Newberry   | 1 |
| JTF | Prosperity | SC | 29127      | Newberry   | 1 |
| KEF | Prosperity | SC | 29127      | Newberry   | 1 |
| RCH | Prosperity | SC | 29127      | Newberry   | 1 |
| LWH | Prosperity | SC | 29127      | Newberry   | 1 |
| RPK | Prosperity | SC | 29127      | Newberry   | 1 |
| HMK | Prosperity | SC | 29127      | Newberry   | 1 |
| SGL | Prosperity | SC | 29127      | Newberry   | 1 |
| WPM | Prosperity | SC | 29127-8069 | Newberry   | 1 |
| CBP | Prosperity | SC | 29127      | Newberry   | 1 |
| PAP | Prosperity | SC | 29127      | Newberry   | 1 |
| CWR | Prosperity | SC | 29127      | Newberry   | 1 |
| DER | Prosperity | SC | 29127      | Newberry   | 1 |
| JHS | Prosperity | SC | 29127      | Newberry   | 1 |
| BCS | Prosperity | SC | 29127      | Newberry   | 1 |
| DWS | Prosperity | SC | 29127      | Newberry   | 1 |
| BDS | Prosperity | SC | 29127      | Newberry   | 1 |
| JWS | Prosperity | SC | 29127      | Newberry   | 1 |
| TS  | Prosperity | SC | 29127      | Newberry   | 1 |
| CDT | Prosperity | SC | 29127      | Newberry   | 1 |
| DAW | Prosperity | SC | 29127      | Newberry   | 1 |
| SCW | Prosperity | SC | 29127      | Newberry   | 1 |
| TFH | Norway     | SC | 29113      | Orangeburg | 1 |
| RWH | Santee     | SC | 29142      | Orangeburg | 1 |

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Employee Residence by County.xls

|     |            |    |            |          |   |     |
|-----|------------|----|------------|----------|---|-----|
| RGB | Charlotte  | NC | 28227      | Other    | 1 | 3   |
| GKM | Luling     | LA | 70070      | Other    | 1 |     |
| GAH | Vicksburg  | MS | 39180      | Other    | 1 |     |
| JWD | Chapin     | SC | 29036      | Retired  |   |     |
| JFD | Ballentine | SC | 29002-0241 | Richland | 1 | 209 |
| GTB | Blythewood | SC | 29016      | Richland | 1 |     |
| DHC | Blythewood | SC | 29016      | Richland | 1 |     |
| CRC | Blythewood | SC | 29016      | Richland | 1 |     |
| WJD | Blythewood | SC | 29016-8930 | Richland | 1 |     |
| JMG | Blythewood | SC | 29016      | Richland | 1 |     |
| JWK | Blythewood | SC | 29016      | Richland | 1 |     |
| KL  | Blythewood | SC | 29016      | Richland | 1 |     |
| KNP | Blythewood | SC | 29016      | Richland | 1 |     |
| WBS | Blythewood | SC | 29016      | Richland | 1 |     |
| BPS | Blythewood | SC | 29016      | Richland | 1 |     |
| CVT | Blythewood | SC | 29016-0109 | Richland | 1 |     |
| ZVT | Blythewood | SC | 29016      | Richland | 1 |     |
| JWT | Blythewood | SC | 29016      | Richland | 1 |     |
| LAB | Chapin     | SC | 29036      | Richland | 1 |     |
| CFB | Chapin     | SC | 29036      | Richland | 1 |     |
| JRB | Chapin     | SC | 29036      | Richland | 1 |     |
| RJC | Chapin     | SC | 29036      | Richland | 1 |     |
| JLC | Chapin     | SC | 29036      | Richland | 1 |     |
| DMD | Chapin     | SC | 29036      | Richland | 1 |     |
| SJF | Chapin     | SC | 29036      | Richland | 1 |     |
| MAH | Chapin     | SC | 29036      | Richland | 1 |     |
| BH  | Chapin     | SC | 29036      | Richland | 1 |     |
| DDJ | Chapin     | SC | 29036      | Richland | 1 |     |
| MEJ | Chapin     | SC | 29036      | Richland | 1 |     |
| PDL | Chapin     | SC | 29036      | Richland | 1 |     |
| FSM | Chapin     | SC | 29036      | Richland | 1 |     |
| FBM | Chapin     | SC | 29036      | Richland | 1 |     |
| CHO | Chapin     | SC | 29036      | Richland | 1 |     |
| ARR | Chapin     | SC | 29036      | Richland | 1 |     |
| CHR | Chapin     | SC | 29036      | Richland | 1 |     |
| RLR | Chapin     | SC | 29036      | Richland | 1 |     |
| GWS | Chapin     | SC | 29036      | Richland | 1 |     |
| JTS | Chapin     | SC | 29036      | Richland | 1 |     |
| RAT | Chapin     | SC | 29036      | Richland | 1 |     |
| SGW | Chapin     | SC | 29036      | Richland | 1 |     |
| JEW | Chapin     | SC | 29036      | Richland | 1 |     |
| REW | Chapin     | SC | 29036      | Richland | 1 |     |
| MBW | Chapin     | SC | 29036      | Richland | 1 |     |
| MAB | Columbia   | SC | 29206      | Richland | 1 |     |
| EAB | Columbia   | SC | 29223      | Richland | 1 |     |
| DRB | Columbia   | SC | 29223      | Richland | 1 |     |
| JRB | Columbia   | SC | 29229      | Richland | 1 |     |
| RMB | Columbia   | SC | 29229      | Richland | 1 |     |
| GAB | Columbia   | SC | 29229      | Richland | 1 |     |
| JB  | Columbia   | SC | 29210      | Richland | 1 |     |
| MB  | Columbia   | SC | 29212      | Richland | 1 |     |
| SWB | Columbia   | SC | 29229      | Richland | 1 |     |

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Employee Residence by County.xls

|     |          |    |            |          |   |
|-----|----------|----|------------|----------|---|
| JJB | Columbia | SC | 29229      | Richland | 1 |
| DC  | Columbia | SC | 29210      | Richland | 1 |
| RBC | Columbia | SC | 29209      | Richland | 1 |
| MWD | Columbia | SC | 29210      | Richland | 1 |
| FME | Columbia | SC | 29223      | Richland | 1 |
| DE  | Columbia | SC | 29203      | Richland | 1 |
| SLE | Columbia | SC | 29229      | Richland | 1 |
| ELE | Columbia | SC | 29210      | Richland | 1 |
| DFE | Columbia | SC | 29206      | Richland | 1 |
| EG  | Columbia | SC | 29210-4304 | Richland | 1 |
| NSH | Columbia | SC | 29210      | Richland | 1 |
| LH  | Columbia | SC | 29209      | Richland | 1 |
| SMH | Columbia | SC | 29229      | Richland | 1 |
| WRH | Columbia | SC | 29223      | Richland | 1 |
| TLH | Columbia | SC | 29210      | Richland | 1 |
| SPH | Columbia | SC | 29223      | Richland | 1 |
| MDI | Columbia | SC | 29229      | Richland | 1 |
| AKK | Columbia | SC | 29212      | Richland | 1 |
| TAL | Columbia | SC | 29206      | Richland | 1 |
| SFL | Columbia | SC | 29209      | Richland | 1 |
| GAL | Columbia | SC | 29209      | Richland | 1 |
| TGM | Columbia | SC | 29212      | Richland | 1 |
| RAM | Columbia | SC | 29229      | Richland | 1 |
| WCM | Columbia | SC | 29203-9583 | Richland | 1 |
| TFM | columbia | SC | 29229      | Richland | 1 |
| SHM | Columbia | SC | 29223-8405 | Richland | 1 |
| AM  | Columbia | SC | 29210-6020 | Richland | 1 |
| ADM | Columbia | SC | 29209      | Richland | 1 |
| FWM | Columbia | SC | 29210      | Richland | 1 |
| MDM | Columbia | SC | 29210      | Richland | 1 |
| PAM | Columbia | SC | 29209      | Richland | 1 |
| DEO | Columbia | SC | 29205      | Richland | 1 |
| SEO | Columbia | SC | 29204      | Richland | 1 |
| GKP | Columbia | SC | 29210      | Richland | 1 |
| DLP | Columbia | SC | 29206      | Richland | 1 |
| RWP | Columbia | SC | 29212      | Richland | 1 |
| DJP | Columbia | SC | 29210      | Richland | 1 |
| JR  | Columbia | SC | 29206      | Richland | 1 |
| HFR | Columbia | SC | 29205      | Richland | 1 |
| RAR | Columbia | SC | 29210      | Richland | 1 |
| RJS | Columbia | SC | 29212-2410 | Richland | 1 |
| KAS | Columbia | SC | 29229      | Richland | 1 |
| NS  | Columbia | SC | 29229      | Richland | 1 |
| DS  | Columbia | SC | 29223      | Richland | 1 |
| JTS | Columbia | SC | 29223      | Richland | 1 |
| MCS | Columbia | SC | 29210      | Richland | 1 |
| WEW | Columbia | SC | 29229      | Richland | 1 |
| BGW | Columbia | SC | 29204      | Richland | 1 |
| SCY | Columbia | SC | 29206      | Richland | 1 |
| MJZ | Columbia | SC | 29223-2913 | Richland | 1 |
| RA  | Hopkins  | SC | 29061-9475 | Richland | 1 |
| AME | Hopkins  | SC | 29061      | Richland | 1 |

**ER Information Item SE-S1**

Employee Residence by County.xls

|     |         |    |            |          |   |
|-----|---------|----|------------|----------|---|
| HCG | Hopkins | SC | 29061      | Richland | 1 |
| RS  | Hopkins | SC | 29061      | Richland | 1 |
| APT | Hopkins | SC | 29061      | Richland | 1 |
| TBW | Hopkins | SC | 29061      | Richland | 1 |
| RA  | Irmo    | SC | 29063      | Richland | 1 |
| SLA | Irmo    | SC | 29063      | Richland | 1 |
| MRA | Irmo    | SC | 29063-1934 | Richland | 1 |
| HBA | Irmo    | SC | 29063-2739 | Richland | 1 |
| WFB | Irmo    | SC | 29063-8255 | Richland | 1 |
| TSB | Irmo    | SC | 29063      | Richland | 1 |
| WDB | Irmo    | SC | 29063      | Richland | 1 |
| WHB | Irmo    | SC | 29063      | Richland | 1 |
| BCB | Irmo    | SC | 29063      | Richland | 1 |
| KEB | Irmo    | SC | 29063      | Richland | 1 |
| JGC | Irmo    | SC | 29063      | Richland | 1 |
| TOC | Irmo    | SC | 29063      | Richland | 1 |
| MC  | Irmo    | SC | 29063      | Richland | 1 |
| JRC | Irmo    | SC | 29063      | Richland | 1 |
| CAC | Irmo    | SC | 29063      | Richland | 1 |
| GLC | Irmo    | SC | 29063      | Richland | 1 |
| WFC | Irmo    | SC | 29063-4017 | Richland | 1 |
| DRD | Irmo    | SC | 29063      | Richland | 1 |
| RLD | Irmo    | SC | 29063      | Richland | 1 |
| ESD | Irmo    | SC | 29063      | Richland | 1 |
| DGD | Irmo    | SC | 29063      | Richland | 1 |
| DJE | Irmo    | SC | 29063      | Richland | 1 |
| GEE | Irmo    | SC | 29063      | Richland | 1 |
| LFF | Irmo    | SC | 29063      | Richland | 1 |
| WDF | Irmo    | SC | 29063      | Richland | 1 |
| HCF | Irmo    | SC | 29063      | Richland | 1 |
| RRF | Irmo    | SC | 29063      | Richland | 1 |
| CEG | Irmo    | SC | 29063      | Richland | 1 |
| RTG | Irmo    | SC | 29063      | Richland | 1 |
| ACH | Irmo    | SC | 29063-9107 | Richland | 1 |
| JFH | Irmo    | SC | 29063      | Richland | 1 |
| MGH | Irmo    | SC | 29063      | Richland | 1 |
| JHH | Irmo    | SC | 29063      | Richland | 1 |
| DDJ | Irmo    | SC | 29063      | Richland | 1 |
| YAJ | Irmo    | SC | 29063      | Richland | 1 |
| LJK | Irmo    | SC | 29063      | Richland | 1 |
| KK  | Irmo    | SC | 29063      | Richland | 1 |
| SPK | Irmo    | SC | 29063      | Richland | 1 |
| TDK | Irmo    | SC | 29063      | Richland | 1 |
| DRK | Irmo    | SC | 29063      | Richland | 1 |
| MJK | Irmo    | SC | 29063      | Richland | 1 |
| DDK | Irmo    | SC | 29063      | Richland | 1 |
| JAL | Irmo    | SC | 29063      | Richland | 1 |
| RCL | Irmo    | SC | 29063      | Richland | 1 |
| EFL | Irmo    | SC | 29063      | Richland | 1 |
| JPM | Irmo    | SC | 29063      | Richland | 1 |
| AEM | Irmo    | SC | 29063      | Richland | 1 |
| KGM | Irmo    | SC | 29063      | Richland | 1 |

**ER Information Item SE-S1**

Employee Residence by County.xls

|     |                 |    |            |          |   |
|-----|-----------------|----|------------|----------|---|
| TAM | Irmo            | SC | 29063      | Richland | 1 |
| CRM | Irmo            | SC | 29063      | Richland | 1 |
| DBM | Irmo            | SC | 29063      | Richland | 1 |
| BLM | Irmo            | SC | 29063      | Richland | 1 |
| KCM | Irmo            | SC | 29063      | Richland | 1 |
| VPM | Irmo            | SC | 29063      | Richland | 1 |
| ESN | Irmo            | SC | 29063      | Richland | 1 |
| NLO | Irmo            | SC | 29063      | Richland | 1 |
| WFO | Irmo            | SC | 29063      | Richland | 1 |
| JDO | Irmo            | SC | 29063      | Richland | 1 |
| DP  | Irmo            | SC | 29063      | Richland | 1 |
| RJP | Irmo            | SC | 29063      | Richland | 1 |
| PBP | Irmo            | SC | 29063      | Richland | 1 |
| JWP | Irmo            | SC | 29063      | Richland | 1 |
| JLP | Irmo            | SC | 29063      | Richland | 1 |
| WRQ | Irmo            | SC | 29063      | Richland | 1 |
| CBR | Irmo            | SC | 29063      | Richland | 1 |
| DLR | Irmo            | SC | 29063      | Richland | 1 |
| JRR | Irmo            | SC | 29063      | Richland | 1 |
| DBR | Irmo            | SC | 29063      | Richland | 1 |
| PAR | Irmo            | SC | 29063      | Richland | 1 |
| VJR | Irmo            | SC | 29063      | Richland | 1 |
| BRR | Irmo            | SC | 29063      | Richland | 1 |
| DS  | Irmo            | SC | 29063      | Richland | 1 |
| BPS | Irmo            | SC | 29063      | Richland | 1 |
| SCS | Irmo            | SC | 29063      | Richland | 1 |
| HES | Irmo            | SC | 29063      | Richland | 1 |
| MJS | Irmo            | SC | 29063      | Richland | 1 |
| DDS | Irmo            | SC | 29063      | Richland | 1 |
| MLS | Irmo            | SC | 29063      | Richland | 1 |
| RES | Irmo            | SC | 29063      | Richland | 1 |
| WAS | Irmo            | SC | 29063      | Richland | 1 |
| RES | Irmo            | SC | 29063      | Richland | 1 |
| SCS | Irmo            | SC | 29063      | Richland | 1 |
| RLS | Irmo            | SC | 29063      | Richland | 1 |
| GWS | Irmo            | SC | 29063      | Richland | 1 |
| KRS | Irmo            | SC | 29063      | Richland | 1 |
| RGT | Irmo            | SC | 29063      | Richland | 1 |
| ADT | Irmo            | SC | 29063      | Richland | 1 |
| JMW | Irmo            | SC | 29063-7854 | Richland | 1 |
| ELW | Irmo            | SC | 29063      | Richland | 1 |
| POW | Irmo            | SC | 29063      | Richland | 1 |
| DOW | Irmo            | SC | 29063      | Richland | 1 |
| GMW | Irmo            | SC | 29063      | Richland | 1 |
| SKW | Irmo            | SC | 29063      | Richland | 1 |
| RMW | Irmo            | SC | 29063      | Richland | 1 |
| RBW | Irmo            | SC | 29063      | Richland | 1 |
| CEW | Irmo            | SC | 29063      | Richland | 1 |
| LBW | Irmo            | SC | 29063      | Richland | 1 |
| JW  | Irmo            | SC | 29063      | Richland | 1 |
| RDY | Irmo            | SC | 29063-2211 | Richland | 1 |
| FMS | Little Mountain | SC | 29075      | Richland | 1 |

**ER Information Item SE-S1**

Employee Residence by County.xls

|     |                 |    |            |             |     |     |
|-----|-----------------|----|------------|-------------|-----|-----|
| ELW | Little Mountain | SC | 29075      | Richland    | 1   |     |
| AJC | Little Mountain | SC | 29075      | Richland    | 1   |     |
| GCM | White Rock      | SC | 29177      | Richland    | 1   |     |
| HPP | White Rock      | SC | 29177-0533 | Richland    | 1   |     |
| CR  | White Rock      | SC | 29177      | Richland    | 1   |     |
| RHG | Saluda          | SC | 29138      | Saluda      | 1   | 2   |
| JTR | Saluda          | SC | 29138      | Saluda      | 1   |     |
| JMG | Cowpens         | SC | 29330      | Spartanburg | 1   | 1   |
| TAS | Carlisle        | SC | 29031      | Union       | 1   | 5   |
| SAT | Carlisle        | SC | 29031-9348 | Union       | 1   |     |
| ACL | Union           | SC | 29379      | Union       | 1   |     |
| MGR | Union           | SC | 29379      | Union       | 1   |     |
| RWB | Whitmire        | SC | 29178      | Union       | 1   |     |
|     |                 |    |            |             | 635 | 635 |

| County       | No. | Percentage | Percentage in ROI |
|--------------|-----|------------|-------------------|
| Fairfield    | 58  | 9.1%       | 9.65%             |
| Lexington    | 219 | 34%        | 36.44%            |
| Newberry     | 115 | 18%        | 19.13%            |
| Richland     | 209 | 33%        | 34.78%            |
| <i>ROI</i>   | 601 | 95%        | 100.00%           |
| Other        | 34  | 5%         |                   |
| <i>Total</i> | 635 | 100%       |                   |

Reference

RFI 112C00329-009, Current VCSNS Employee's Residence. 2006