

June 13, 2003

Dr. Rodger E. Stroup, Director
South Carolina Department of Archives
and History
Archives and History Center
8301 Parklane Road
Columbia, SC 29223

SUBJECT: V. C. SUMMER NUCLEAR STATION LICENSE RENEWAL REVIEW AND
NATIONAL HISTORIC PRESERVATION ACT, SECTION 106 REVIEW
PROCESS

Dear Dr. Stroup:

The U. S. Nuclear Regulatory Commission (NRC) is evaluating an application submitted by South Carolina Electric and Gas Company (SCE&G) for the renewal of the operating license for the V. C. Summer Nuclear Station (V. C. Summer), located in the southeastern corner of rural Fairfield County, South Carolina, approximately 26 miles northwest of Columbia, South Carolina. As part of its review of the proposed action, the NRC staff is preparing a site-specific Supplemental Environmental Impact Statement (SEIS) to its "Generic Environmental Impact Statement for License Renewal of Nuclear Plants" (GEIS), NUREG-1437. The SEIS will include analyses of relevant environmental issues, including potential impacts on historic and cultural resources from refurbishment activities, and for the extended period of operation. The application for renewal was submitted by SCE&G on August 6, 2002, pursuant to NRC requirements of Title 10 of the *Code of Federal Regulations*, Part 54 (10 CFR Part 54). SCE&G has indicated that it does not plan on any major refurbishment activity that would result in additional land disturbance in the site area.

For your reference, the Agency official (the Director, Office of Nuclear Reactor Regulation) has determined that the area of potential effect (APE) for a license renewal action is the area at the power plant site and its immediate environs which may be impacted by post-license renewal land disturbing operation or projected refurbishment activities associated with the proposed action. The APE may extend beyond the immediate environs in those instances where post-license renewal land disturbing operations or projected refurbishment activities specifically related to license renewal of the nuclear power plant potentially have an effect on known or proposed historic sites. This determination is made irrespective of ownership or control of the lands of interest.

On January 19, 2001, SCE&G sought feedback from the South Carolina State Historic Preservation Office (SHPO) regarding license renewal at V. C. Summer. In its letter, SCE&G stated that there are no plans to alter current operations, no plans to expand existing facilities, no plans to implement major structural modifications, no plans to initiate new construction, and no plans for additional land disturbance in support of license renewal. On January 29, 2001, the South Carolina SHPO responded to the SCE&G letter and stated that "license renewal for the continuing operation of plants such as this one typically has no effect on historic properties." The SHPO encouraged SCE&G to search the SHPO's Geographical Information System (GIS) database for a more accurate, up-to-date source of information.

During our independent review, the NRC staff met with a representative of your office on December 12, 2002, to discuss the potential impacts of the proposed V. C. Summer license renewal. Enclosed is the NRC's cultural resources review for this action. This review reports the results of the literature review conducted by the staff and information from historic and cultural records, which includes information from the SHPO GIS database (Enclosure 1). The results indicate that this undertaking will have no effect on historic properties.

We plan to issue the Draft SEIS for the V. C. Summer license renewal action for public comment in June 2003; it will reflect our interactions to date. If you have any questions or require additional information, please contact Gregory Suber, the NRC Environmental Project Manager for the V. C. Summer license renewal project, at 301-415-1124 or GXS@nrc.gov.

Sincerely,

/RA/

Pao-Tsin Kuo, Program Director
License Renewal and Environmental Impacts
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket No.: 50-395

Enclosures: As stated

cc w/o encl.: See next page

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Accession nos.:

1. Ltr. to R. Stroup w/Encl 1: **ML031640645**
2. Att. 1 to Encl. 1 (SCE&G): **ML031690234**
3. Att. 2 to Encl. 1 (Response from SC): **ML031690126**
4. Att. 3 to Encl. 1 (Ltr. To Mr. K. Plumb): **ML031690121**
5. Att. 4 to Encl. 1 (Ltr. To G. Blue, Native American Tribes): **ML023380747**
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*See previous concurrence

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**U.S. NUCLEAR REGULATORY COMMISSION (NRC)
OFFICE OF NUCLEAR REACTOR REGULATION
DIVISION OF REGULATORY IMPROVEMENT PROGRAMS**

**CULTURAL RESOURCES REPORT NARRATIVE
VIRGIL C. SUMMER NUCLEAR STATION LICENSE RENEWAL**

May 2003

CULTURAL RESOURCES REPORT NARRATIVE VIRGIL C. SUMMER NUCLEAR STATION LICENSE RENEWAL

PROJECT DESCRIPTION

The U.S. Nuclear Regulatory Commission (NRC) licenses the operation of domestic nuclear power plants in accordance with the Atomic Energy Act of 1954, as amended and NRC implementing regulations. The proposed Federal action is the renewal of the Operating License for the Virgil C. Summer Nuclear Station (V. C. Summer), which is operated by South Carolina Electric & Gas Company (SCE&G). The current operating license will expire August 6, 2022. The renewed license would subsume the remaining time of the current license and permit an additional 20 years of plant operation beyond the expiration of the current operating license.

This report presents the findings of the Section 106 review conducted to establish whether any historic properties will be affected by the license renewal of V. C. Summer.

AREA OF POTENTIAL EFFECT

V. C. Summer is located in Fairfield County, South Carolina, approximately 15 miles west of Winnsboro and 26 miles northwest of Columbia. The site is in a sparsely-populated, largely rural area, with forests and small farms comprising the dominant land use. The Broad River flows in a northwest-to-southeast direction approximately one mile west of the site.

An exclusion area must be defined by the applicant wherein it can control access in the event of an emergency situation. In this case, the exclusion area is owner controlled (i.e., not subject to an alternative routine use such as leased farming) and encompasses the area within approximately one mile of the reactor building; the exclusion area is posted and access to land portions of this area is controlled at all times. The V. C. Summer property covers approximately 2245 acres, and includes the southern portion of Monticello Reservoir and parts of the Fairfield Pumped Storage Facility.

In conjunction with this license renewal action, SCE&G does not plan to undertake a major refurbishment activity in the site vicinity or along the transmission lines expressly constructed to connect the plant to the electrical grid when the plant was initially licensed. Therefore, the area of potential effect (APE) for this license renewal action is the area at the power plant site and its immediate environs which may be impacted. Specifically, this area consists of the exclusion area boundary (1-mile radius) and the Monticello reservoir shoreline.

NOTIFICATIONS AND PUBLIC INVOLVEMENT

On January 19, 2001, SCE&G wrote the South Carolina State Historic Preservation Office (SHPO) regarding license renewal at V. C. Summer. On January 29, 2001, the South Carolina SHPO responded to SCE&G letter and stated that license renewal for the continued operation of plants, such as this one, typically has no effect on historic properties. The SHPO encouraged that the SHPO Geographical Information System (GIS) database be searched for a more accurate, up-to-date source of information.

On December 12, 2002, NRC staff met with Marta Matthews and Chad Long at the South Carolina SHPO's office, and Keith Derding and Diane Boyd at the South Carolina Institute of Archaeology and Anthropology (SCIAA). Archaeological site file searches were conducted at SCIAA. The GIS database and files at the South Carolina SHPO's office were searched for cultural resource information that may pertain to the proposed action. At the time of this visit, Dr. Matthews and Mr. Long raised the issue of potential impacts to cultural resources caused by erosion on the Monticello shoreline. This report addresses those concerns that were raised during the site visit in the section called "Identification of Historic Properties".

Four Native American Tribes were sent letters on November 27, 2002, providing them an opportunity to have input regarding cultural resource issues in the vicinity of V. C. Summer and inviting them to participate in the National Environmental Policy Act (NEPA) scoping process. The Tribes were the Catawba Indian Nation, Eastern Band of the Cherokee, Cherokee Nation (Western Cherokee in Oklahoma), and the United Keetoowah Band of Cherokee (Attachment 4 contains an example of this letter).

The NRC public involvement process is conducted in accordance with NEPA principles; in general, the NRC actively pursues stakeholder engagement in excess of the minimum requirements. The Commission has determined that the NRC will prepare an environmental impact statement (EIS) as that discussed in Section 102 of NEPA (42 USC 4332) to assess whether the license renewal action would significantly affect the quality of the human environment. The NRC staff will prepare an EIS and, in the case of license renewal, it is a site-specific supplement (SEIS) to the NRC Generic EIS for License Renewal of Nuclear Power Plants (GEIS), NUREG-1437, for the renewal of a reactor Operating License (OL). NUREG-1437 considered almost 100 environmental issues across all nuclear power plants to determine whether issues could be resolved generically. The potential impact to cultural resources cannot be resolved generically and, therefore, must be addressed on a site-specific basis in each SEIS.

On October 24, 2002, the NRC published a Notice of Intent in the *Federal Register* to notify the public of the staff's intent to prepare a site-specific supplement to the GEIS to assess the environmental impacts of the proposed action (renewal of the OL for the V. C. Summer plant) and to conduct scoping. The NRC invited the applicant, Federal, State, and local government agencies; Tribes; local organizations; and individuals to participate in the scoping process by providing oral comments at the scheduled public meetings and/or submitting written suggestions and comments to the NRC no later than January 6, 2003. Two public scoping meetings were held on December 11, 2002, at the Fellowship Hall at the Whitehall A.M.E. Church in Jenkinsville, South Carolina, to afford the public yet another opportunity to provide comments.

The draft Supplemental Environmental Impact Statement (SEIS) regarding license renewal at V. C. Summer is scheduled to be issued in July 2003. The NRC staff plans to conduct two public meetings on August 25, 2003, to present an overview of the draft V. C. Summer site-specific supplement to the GEIS, and to accept public comments on the document. The public comment period will end on September 15, 2003. The Final SEIS will be issued in February 2004.

Information regarding license renewal and documents associated with license renewal at V. C. Summer can be viewed at the NRC's website www.nrc.gov.

IDENTIFICATION OF HISTORIC PROPERTIES

Historic and archaeological site file searches were conducted at the South Carolina Master File in the South Carolina Department of Archives and History and the Institute of Archaeology and Anthropology at the University of South Carolina to identify cultural resources that might be present at V. C. Summer. In addition, record searches were conducted for nearby locations to gain perspective on the types of historic resources that may be present in the previously undeveloped and unsurveyed portions of V. C. Summer.

The Final Environmental Statement (FES) (AEC 1973) for the construction of V. C. Summer listed three historic sites in the vicinity of the station. At that time, it was determined that none of the sites were "endangered" by the construction and operation of the proposed V. C. Summer plant. Four archaeological sites were discovered within or near the site boundary and Dr. Robert L. Stephenson, State Archaeologist, recommended that the area be surveyed and that two of the known sites be excavated (AEC 1973).

In 1972, SCE&G supported an archaeological survey that was conducted by a team from the University of South Carolina Institute of Archaeology and Anthropology (Teague 1979). The archaeological survey was conducted to assess the nature and distribution of the sites present and to assess the effect of the Parr Hydroelectric Project on historic and archaeological resources. The Parr Hydroelectric Project included: raising the level of the Parr Reservoir by elevating the Parr Reservoir Dam; construction of a series of dams on Frees Creek to create the upper reservoir for a new pumped-storage facility and supply cooling water for V. C. Summer; and construction of the Fairfield Pumped Storage Facility and V. C. Summer.

The Institute of Archaeology and Anthropology team identified 27 additional sites and excavated two others. Four of the five sites were inundated by water when Monticello Reservoir was filled in 1978 and are now inaccessible. The remaining sites lie along the banks of Monticello and Parr Reservoirs. Periods represented included the Early Archaic, Middle Archaic, Woodland, Mississippian, and Early Historic (SCE&G 2002).

Since the publication of the 1973 FES, 41 sites have been added to the National Register of Historic Places for Fairfield County. Ten of these sites fall within a 6-mile radius of V. C. Summer. Twenty-eight sites have been added to the National Register for Newberry County. Four of these sites fall within a 6-mile radius of V. C. Summer. No sites listed on the National Register of Historic Places fall within a 1-mile radius of V. C. Summer.

Two other historic sites exist within a 6-mile radius of V. C. Summer that are not listed on the National Register of Historic Places but are protected by SCE&G. One is the Mayo family cemetery, which is in a wooded area approximately 2.5 miles south of V. C. Summer on land that is owned by SCE&G, but is not within the exclusion area boundary of the V.C. Summer site. This small family plot contains headstones dating back to 1895. The other historic site, approximately 1.5 miles southwest of V. C. Summer, is a large monument erected in 1943 by the Daughters of the American Revolution marking the grave of General John Pearson, a Fairfield County native who served with distinction in the Revolutionary War. This monument is

in a wooded area on land that is not within the exclusion area of the V. C. Summer site, but is maintained as a buffer zone around the site. SCE&G's Forestry Operations group is familiar with these two other historic sites, which are marked on its timber inventory and land cover maps, and takes appropriate measures to protect them when conducting forest management activities in the vicinity of either historic site (SCE&G 2002).

Properties within the APE

The following table provides a summary of selected sites within the APE. No sites listed on the National Register fall within a 1-mile radius of V. C. Summer.

Site Number	Description	National Register Status	Location
38-FA-33	Savannah River and Morrow Mountain projectile points, several pottery shards - all materials were collected	Not Evaluated	Monticello Lake east shoreline - outside 1 mile radius of V. C. Summer
38-FA-37	50 pieces of quartzite chipping debris were dispersed over 500 square meters. 3 flakes were collected.	Not Evaluated	Monticello Lake west shoreline - outside 1 mile radius of V. C. Summer
38-FA-41	McMeekin Rock Shelter - excavated. This site is currently under water.	Nominated for the National Register of Historic Places in 1974 Site #74001854	Underwater - Lake Monticello
38-FA-42	Located along a road cut through a plowed field. 25 quartzite flakes, 1 biface, 1 Guilford projectile point base were found. The biface and projectile point were collected.	Not Evaluated	North of Monticello - outside 1 mile radius of V. C. Summer
38-FA-43	1 Savannah River projectile point base, 1 biface fragment, and 25 quartzite flakes were collected. This site is currently under water.	Not Evaluated	Underwater - Lake Monticello
38-FA-46	25 flakes and broken stone tools. 3 flakes and 2 Savannah River projectile points were collected. This site is currently under water.	Not Evaluated	Underwater - Lake Monticello

38-FA-47	12 quartzite flakes (5 were collected). The site has been disturbed by a road cut and no intact archaeological deposits remain.	Not Evaluated	Within 1 mile of V. C. Summer
38-FA-51	5 quartzite flakes were collected. This site is currently under water.	Not Evaluated	Underwater - Lake Monticello
38-FA-53	50 quartzite flakes and 2 projectile points were seen. The projectile points were collected. This site is currently under water.	Not Evaluated	Underwater - Lake Monticello
38-FA-56	Davis Plantation - two story house built about 1840-50	Nominated for the National Register of Historic Places in 1971 Site #74000776	South of Monticello on SC 215 - outside 1 mile radius of V. C. Summer
38-FA-125	Guilford projectile points of quartz, 1 Kirk point, 1 Savannah River point, 1 finely shaped flint blade. This site is currently under water.	Not Evaluated	Underwater - Lake Monticello
38-FA-298	2 steatite bowl fragments. Artifacts were collected. Site form suggests if associated with an archaeological site it would be under water.	Not Evaluated	Boat Ramp - north end of Lake Monticello - outside 1 mile radius of V. C. Summer

Only one archaeological site (38-FA-47) is located within a 1-mile radius of V. C. Summer. This site has not been evaluated for inclusion on the National Register of Historic Places. At the time of recording, the site consisted of 12 quartzite flakes (5 were collected). Upon reviewing the National Register Criteria for Evaluation, site 38-FA-47 is not likely to be eligible for the National Register.

Several of the archaeological sites were flooded by the impoundment of Monticello Lake. The majority of these sites have not been evaluated for inclusion on the National Register of Historic Places. These sites are not likely to be eligible for inclusion when applying the criteria for evaluation.

The McMeekin Rock Shelter (38-FA-41) was evaluated and nominated to the National Register in 1974. The site was recorded, excavated and evaluated. Results are documented in the 1972 archaeological survey that was conducted by a team from the University of South Carolina Institute of Archaeology and Anthropology (Teague 1979). The McMeekin Rock Shelter is currently underwater and is located outside of the 1-mile radius of V. C. Summer.

The Davis Plantation (38-FA-56) was evaluated and nominated to the National Register in 1971. The site is a two-story house built in approximately 1845, and is located south of the town of Monticello on SC 215. The Davis Plantation is located outside the 1-mile radius of V. C. Summer. The Davis Plantation is not located on the shoreline of Monticello Lake.

Several archaeological sites were considered during the cultural resources review due to their proximity to the shoreline of Monticello Lake and the potential concern of impacts associated with erosion. During the environmental site audit conducted for the NEPA review in December 2002, the NRC team of environmental specialists toured V. C. Summer and the surrounding area. The team walked portions of the Monticello Lake shoreline. Environmental impacts that could be associated with erosion were not observed. The team included specialists in archaeology, aquatic and terrestrial biology, and hydrology. The team visited several locations of known archaeological sites in the area. No cultural materials were observed at any of the locations.

SCE&G has established a land use and shoreline management plan (SCE&G 2002). The purpose of this plan is to help maintain and conserve the area's natural and man-made resources as well as assist in providing a balance between recreational use, development, environmental preservation, and control. This management plan addresses environmental policies including the exclusion area and public access for fishing, boating, hunting, and other shoreline activities. Erosion control measures are identified, as are restrictions on the removal of underbrush.

FINDINGS

In October 1972, upon reviewing the cultural resources literature associated with the construction of V. C. Summer, the South Carolina SHPO (Attachment 3) determined that no adverse effects to historic properties would result from SCE&G Construction Project #1894.

Major refurbishment of V. C. Summer is not anticipated for continued operation during the license renewal period; therefore, there is no expectation that land in the undeveloped portions of the site will be disturbed for operations during the renewal period. Operation of V. C. Summer, as planned under the application for license renewal, would protect undiscovered historic or archaeological resources on the site because the undeveloped natural landscape and vegetation would remain undisturbed, and access to the site would remain restricted.

In January 2001, SCE&G wrote the South Carolina SHPO (Attachment 1), requesting their comments on the V. C. Summer license renewal process. In its letter, SCE&G suggested that the continued operation of V. C. Summer will have no effect on historic properties (SCE&G 2001). In a response dated January 29, 2001, the South Carolina SHPO (Attachment 2) stated that license renewal for the continuing operation of plants such as this one typically has no effect on historic properties (SHPO 2001).

Operating procedures of SCE&G consider actions upon the inadvertent discovery of historic and archaeological remains at V. C. Summer. Based on the cultural resources analysis, the representation by SCE&G that it does not plan to undertake major refurbishment activities related to the renewal of V. C. Summer, and the expectation that operations will continue within

the bounds of previously analyzed conditions, as evaluated in the FES (AEC 1973) and subsequent environmental assessments, the NRC staff concludes that there will be no effect on historic properties within the APE and no additional mitigation is warranted.

ATTACHMENTS

1. Letter - January 19, 2001 SCE&G wrote the South Carolina SHPO regarding license renewal at V. C. Summer. Includes Maps of V.C. Summer and surrounding environment.
2. Letter - January 29, 2001 South Carolina SHPO responded to SCE&G letter - agreed that license renewal for the continuing operation of plants such as this one typically has no effect on historic properties.
3. Letter - October 20, 1972 SHPO wrote letter to Federal Power Commission regarding the SCE&G construction Project 1894 - determined that no adverse effects to historic properties would result from this project.
4. Letter - November 27, 2002 the NRC wrote letters to the four Tribes - example of the letter that was sent to the Catawba Indian Nation.

CERTIFICATION OF RESULTS

I certify that I conducted the investigation reported here, that my observations and methods are fully documented, and that this report is complete and accurate to the best of my knowledge.

Tara O. Eschbach

Reporter,
Pacific Northwest National
Laboratory on behalf of the
U.S. Nuclear Regulatory Commission

Signature

Date

Darby C. Stapp, Ph.D., RPA

Reviewer,
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Laboratory on behalf of the
U.S. Nuclear Regulatory Commission

Concurrence (Signature)

Date

REFERENCES

South Carolina Electric and Gas (SCE&G), 2002. *Virgil C. Summer Nuclear Station Application for Renewed Operating License , Appendix E - Environmental Report*. Docket No. 50-395, Columbia, South Carolina.

South Carolina Electric and Gas Company, 2002. FERC Project 1894 Land Use and Shoreline Management Plan Monticello and Parr Reservoirs - Effective April 1, 2002. Columbia, South Carolina.

Teague, G.A., 1979. *An Assessment of Archeological Resources in the Parr Project Area, South Carolina*. Institute of Archeology and Anthropology. University of South Carolina. Columbia, South Carolina.

U.S. Atomic Energy Commission (AEC), 1973. *Final Environmental Statement Related to the Virgil C. Summer Nuclear Station Unit 1; South Carolina Electric & Gas Company*. Docket No. 50-395, Washington, D.C.

U.S. Nuclear Regulatory Commission (NRC), 1999. *Generic Environmental Impact Statement for License Renewal of Nuclear Plants: Main Report*. NUREG-1437, Volume 1, Addendum 1, Washington, D.C.