



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001  
February 18, 2010

Mr. Jeffrey B. Archie  
Vice President, Nuclear Operations  
South Carolina Electric & Gas Company  
Post Office Box 88  
Jenkinsville, SC 29065


SUBJECT: VIRGIL C. SUMMER NUCLEAR STATION, UNIT 1 – ENVIRONMENTAL  
ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT (TAC NO.  
ME2917)

Dear Mr. Archie:

Enclosed is a copy of the Environmental Assessment and Finding of No Significant Impact related to your application for exemption dated December 11, 2009. The proposed exemption from specific requirements of Title 10 of the *Code of Federal Regulations* (10 CFR), Part 73, for the Virgil C. Summer Nuclear Station, Unit 1, would extend the deadline from March 31, 2010, until September 30, 2010, for the implementation of certain measures in 10 CFR Part 73.

The assessment is being forwarded to the Office of the Federal Register for publication.

Sincerely,

  
Robert E. Martin, Senior Project Manager  
Plant Licensing Branch 2-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-395

Enclosure:  
Environmental Assessment

cc w/encl: Distribution via Listserv

NUCLEAR REGULATORY COMMISSION  
SOUTH CAROLINA ELECTRIC AND GAS COMPANY  
DOCKET NO. 50-395  
VIRGIL C. SUMMER NUCLEAR STATION, UNIT 1  
ENVIRONMENTAL ASSESSMENT AND  
FINDING OF NO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (NRC) is considering issuance of an Exemption, pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Section 73.5, "Specific exemptions," from the implementation date for certain new requirements of 10 CFR Part 73, "Physical protection of plants and materials," for Renewed Facility Operating License No. NPF-12, issued to South Carolina Electric & Gas Company (SCE&G, the licensee), for operation of the Virgil C. Summer Nuclear Station, Unit 1 (VCSNS), located in Fairfield County, South Carolina. In accordance with 10 CFR 51.21, the NRC prepared an environmental assessment documenting its finding. The NRC concluded that the proposed action will have no significant environmental impact.

ENVIRONMENTAL ASSESSMENT

Identification of the Proposed Action:

The proposed action would exempt VCSNS from the required implementation date of March 31, 2010, for two new requirements of 10 CFR Part 73. Specifically, VCSNS would be granted an exemption from being in full compliance with two new requirements contained in 10 CFR 73.55 by the March 31, 2010, deadline. SCE&G has proposed an alternate full compliance implementation date of September 30, 2010, approximately 6 months beyond the date required by 10 CFR Part 73. The proposed action, an extension of the schedule for

completion of certain actions required by the revised 10 CFR Part 73, does not involve any physical changes to the reactor, fuel, plant structures, support structures, water, or land at the VCSNS, Unit 1 site.

The proposed action is in accordance with the licensee's application contained in two letters dated December 11, 2009, SCE&G designation RC-09-0154 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML093490316) and RC-09-0148 (NRC ADAMS ML093480496 and ML093480497). SCE&G's letter RC-09-0148 contains security-related information and, accordingly, is not available to the public. SCE&G's letter RC-09-0154 is a redacted version of RC-09-0148 that does not contain security related information.

The Need for the Proposed Action:

The proposed action is needed to provide the licensee with additional time to complete the design, planning, procurement, construction, testing and project closeout activities for the required upgrades to the SCE&G security system, while simultaneously maintaining the current security defensive strategy.

Environmental Impacts of the Proposed Action:

The NRC has completed its environmental assessment of the proposed exemption. The staff has concluded that the proposed action to extend the implementation deadline would not significantly affect plant safety and would not have a significant adverse effect on the probability of an accident occurring.

The proposed action would not result in an increased radiological hazard beyond those previously analyzed in the environmental assessment and finding of no significant impact made by the Commission in promulgating its revisions to 10 CFR Part 73, as discussed in a *Federal Register* notice dated March 27, 2009 (74 FR 13967). There will be no change to radioactive effluents that affect radiation exposures to plant workers and members of the public.

Therefore, no changes or different types of radiological impacts are expected as a result of the proposed exemption.

The proposed action does not result in changes to land use or water use, or result in changes to the quality or quantity of non-radiological effluents. No changes to the National Pollution Discharge Elimination System permit are needed. No effects on the aquatic or terrestrial habitat in the vicinity of the plant, or to threatened, endangered, or protected species under the Endangered Species Act, or impacts to essential fish habitat covered by the Magnuson-Steven's Act are expected. There are no impacts to the air or ambient air quality.

There are no impacts to historical and cultural resources. There would be no impact to socioeconomic resources. Therefore, no changes to or different types of non-radiological environmental impacts are expected as a result of the proposed exemption.

Accordingly, the NRC concludes that there are no significant environmental impacts associated with the proposed action. In addition, in promulgating its revisions to 10 CFR Part 73, the Commission prepared an environmental assessment and published a finding of no significant impact [Part 73, Power Reactor Security Requirements, 74 FR 13926, 13967 (March 27, 2009)].

The licensee currently maintains a security system acceptable to the NRC and will continue to provide acceptable physical protection of the VCSNS. Therefore, the extension of the implementation date for certain new requirement of 10 CFR Part 73 to September 30, 2010, would not have any significant environmental impacts.

The NRC staff's safety evaluation will be provided in the exemption that will be issued as part of the letter to the licensee approving the exemption to the regulation, if granted.

Environmental Impacts of the Alternatives to the Proposed Action:

As an alternative to the proposed action, the NRC staff considered denial of the proposed action (i.e., the "no-action" alternative). Denial of the exemption request would result

in no change in current environmental impacts. If the proposed action was denied, the licensee would have to comply with the March 31, 2010, implementation deadline. The environmental impacts of the proposed exemption and the "no action" alternative are similar.

Alternative Use of Resources:

The action does not involve the use of any different resources than those considered in the Final Environmental Statement for the Virgil C. Summer Nuclear Station, Unit No. 1, NUREG-0719, dated May 1981 (ADAMS Accession No. ML072750234) and the Generic Environmental Impact Statement for License Renewal Of Nuclear Plants, NUREG-1437, Supplement 15, dated February 2004 (ADAMS Accession No. ML040540718).

Agencies and Persons Consulted:

In accordance with its stated policy, on December 17, 2009, the NRC staff consulted with the South Carolina State official, Ms. Susan Jenkins of the South Carolina Department of Health and Environmental Control, regarding the environmental impact of the proposed action. The State official had no comments.

Finding Of No Significant Impact

On the basis of the environmental assessment, the NRC concludes that the proposed action will not have a significant effect on the quality of the human environment. Accordingly, the NRC has determined not to prepare an environmental impact statement for the proposed action.


For further details with respect to the proposed action, see the licensee's letter dated December 11, 2009 (RC-09-0154). The licensee's letter RC-09-0148, dated December 11, 2009 contains security-related information and, accordingly, is not available to the public pursuant to 10 CFR 2.390. The licensee's letter RC-09-0154 may be examined, and/or copied for a fee, at the NRC's Public Document Room (PDR), located at One White Flint North, Public File Area O-1F21, 11555 Rockville Pike (first floor), Rockville, Maryland 20852. Publicly

available records will be accessible electronically from the Agencywide Document Access and Management System (ADAMS) Public Electronic Reading Room on the Internet at the NRC Website: <http://www.nrc.gov/reading-rm/adams.html>.

Persons who do not have access to ADAMS or who encounter problems in accessing the documents located in ADAMS should contact the NRC PDR Reference staff by telephone at 1-800-397-4209 or 301-415-4737, or send an e-mail to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov).

Dated at Rockville, Maryland, this 18th day of February 2010.

FOR THE NUCLEAR REGULATORY COMMISSION

  
Robert E. Martin, Sr. Project Manager  
Plant Licensing Branch II-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

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Vice President, Nuclear Operations  
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Sincerely,

/RA/

Robert E. Martin, Senior Project Manager  
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Office of Nuclear Reactor Regulation

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Environmental Assessment

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\* By memo dated

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