

alternate full compliance implementation date of August 31, 2010, approximately 5 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 Surry site.

The proposed action is in accordance with the licensee's application dated December 7, 2009.

#### *The Need for the Proposed Action*

The proposed action is needed to provide the licensee with additional time due to the large scope of work required to meet the requirements of the new 10 CFR 73.55.

#### *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 29, 2009 (74 FR 13967). There will be no change to radioactive effluents that effect 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-Stevens 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 proposed an environmental assessment and published a finding of no significant impact (Part 73, Power Reactor Security Requirements (74 FR 13926), March 27, 2009).

If this exemption is granted, 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.

#### *Environmental Impacts of the Alternatives to the Proposed Action*

As an alternative to the proposed actions, the NRC staff considered denial of the proposed actions (*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 Related to the Continuation of Construction and the Operation of Units 1 and 2, Surry Power Station," dated May 1972 and June 1972, respectively, as supplemented through the "Generic Environmental Impact Statement for License Renewal of Nuclear Plants: Supplement 6 Regarding Surry Power Station, Units 1 and 2—Final Report (NUREG-1437, Supplement 6)," dated November 2002.

#### *Agencies and Persons Consulted*

In accordance with its stated policy, on February 3, 2010, the NRC staff consulted with the Virginia State official, Mr. Leslie Foldesi, Division of Radiological Health of the Virginia Department of Health, 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 7, 2009. The attachments to the licensee's December 7, 2009, letter requesting this exemption, contain safeguards information and, accordingly, are not available to the public. Publicly available parts of these documents 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 Web site: <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 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 24th day of February 2010.

For the Nuclear Regulatory Commission.  
**Karen Cotton,**

*Project Manager, Plant Licensing Branch II-1, Division of Operating Reactor Licensing, Office of Nuclear Reactor Regulation.*

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## **NUCLEAR REGULATORY COMMISSION**

**[Docket No. 50-395; NRC-2010-0077]**

### **South Carolina Electric & Gas Company; Virgil C. Summer Nuclear Station; Environmental Assessment and Finding of No Significant Impact**

The U.S. Nuclear Regulatory Commission (NRC) is considering the issuance of an exemption from Title 10 of the *Code of Federal Regulations*, (10 CFR), Section 50.46, "Acceptance criteria for emergency core cooling systems for light-water nuclear power reactors," and 10 CFR 50, Appendix K, AECCS Evaluation Models, for the 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 (VCSNS), located in Fairfield County, South Carolina. In accordance with the requirements of 10 CFR part 51, the NRC has prepared an Environmental

Assessment (EA) in support of this exemption. Based on the EA, the NRC has concluded that a Finding of No Significant Impact (FONSI) is appropriate.

### **Environmental Assessment**

#### *Identification of the Proposed Action*

The proposed action would allow SCE&G to use Optimized ZIRLO™, an advanced alloy fuel cladding material for pressurized-water reactors. The proposed action is in accordance with the licensee's application dated June 9, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML091620072).

#### *The Need for the Proposed Action*

The proposed action is needed so that SCE&G can use Optimized ZIRLO™, an advanced alloy for fuel rod cladding and other assembly structural components at the VCSNS.

Section 50.46 of 10 CFR and 10 CFR part 50, appendix K, make no provisions for use of fuel rods clad in a material other than zircaloy or ZIRLO™. Since the chemical composition of the Optimized ZIRLO™ alloy differs from the specifications for zircaloy or ZIRLO, a plant-specific exemption is required to allow the use of the Optimized ZIRLO™ alloy as a cladding material or in other assembly structural components at the VCSNS.

#### *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 approve the use of an additional fuel rod cladding material 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 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). 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-Stevens 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. 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 staff considered denial of the proposed action (*i.e.*, the "no-action" alternative). Denial of the application request would result in no change in current environmental impacts. The environmental impacts of the proposed action and the alternative action 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 January 11, 2010, the staff consulted with the South Carolina State official, 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.

### **Further Information**

Documents related to this action, including the application for an exemption and license amendment and supporting documentation, are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. From this site, you can access the NRC's Agencywide Document Access and Management System (ADAMS), which provides text and image files of NRC's public documents. The ADAMS accession number for the document related to this notice, "License Amendment Request for Use of Optimized Zirlo™ Fuel Rod Cladding," dated June 9, 2009, is ML091620072. If you do not have access to ADAMS or if there are problems in accessing the documents located in ADAMS, contact the NRC Public Document Room (PDR) Reference staff at 1-800-397-4209, 301-415-4737 or by e-mail to [pdr.resource@nrc.gov](mailto:pdr.resource@nrc.gov).

The document may also be viewed electronically on the public computers located at the NRC's Public Document Room (PDR), O 1 F21, One White Flint North, 11555 Rockville Pike, Rockville, MD 20852. The PDR reproduction contractor will copy documents for a fee.

Dated at Rockville, Maryland, this 24th day of February 2010.

For the Nuclear Regulatory Commission.

**Robert E. Martin,**

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### **NUCLEAR REGULATORY COMMISSION**

**[Docket Nos. 50-321 and 50-366; NRC-2010-0024]**

**Southern Nuclear Operating Company, Inc.; Edwin I. Hatch Nuclear Plant, Units 1 and 2; Exemption**

#### **1.0 Background**

Southern Nuclear Operating Company, Inc. (SNC, the licensee), is the holder of Renewed Facility Operating License Nos. DPR-57 and