

**FOR FURTHER INFORMATION CONTACT:**

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*Agency Mission:* The National Council on Disability (NCD) is an independent federal agency composed of 15 members appointed by the President and confirmed by the U.S. Senate. Its overall purpose is to promote policies, programs, practices, and procedures that guarantee equal opportunity for all people with disabilities, including people from culturally diverse backgrounds, regardless of the nature or significance of the disability; and to empower people with disabilities to achieve economic self-sufficiency, independent living, and inclusion and integration into all aspects of society.

*Accommodations:* Those needing sign language interpreters or other disability accommodations should notify NCD at least one week before this meeting.

*Language Translation:* In accordance with E.O. 13166, Improving Access to Services for Persons with Limited English Proficiency, those people with disabilities who are limited English proficient and seek translation services for this meeting should notify NCD at least one week before this meeting.

*Multiple Chemical Sensitivity/ Environmental Illness:* People with multiple chemical sensitivity/ environmental illness must reduce their exposure to volatile chemical substances to attend this meeting. To reduce such exposure, NCD requests that attendees not wear perfumes or scented products at this meeting. Smoking is prohibited in meeting rooms and surrounding areas.

Dated: January 28, 2005.

**Ethel D. Briggs,**

*Executive Director.*

[FR Doc. 05-1941 Filed 1-28-05; 1:37 pm]

**BILLING CODE 6820-MA-P**

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## **NATIONAL FOUNDATION ON THE ARTS AND THE HUMANITIES**

### **National Endowment for the Arts; Arts Advisory Panel**

Pursuant to section 10(a)(2) of the Federal Advisory Committee Act (Pub. L. 92-463), as amended, notice is hereby given that a meeting of the Arts Advisory Panel, Museums section (American Masterpieces category) to the National Council on the Arts will be held from February 23-25, 2005, in

Room 716 at the Nancy Hanks Center, 1100 Pennsylvania Avenue, NW., Washington, DC 20506. This meeting, from 9 a.m. to 5:30 p.m. on February 23rd and 24th, and from 9 a.m. to 11:30 a.m. on February 25th, will be closed. Please note that the ending day and time of this meeting is tentative, and the meeting may conclude on February 24th.

This meeting is for the purpose of Panel review, discussion, evaluation, and recommendations on financial assistance under the National Foundation on the Arts and the Humanities Act of 1965, as amended, including information given in confidence to the agency. In accordance with the determination of the Chairman of April 30, 2003, these sessions will be closed to the public pursuant to subsection (c)(6) of section 552b of Title 5, United States Code.

Further information with reference to this meeting can be obtained from Ms. Kathy Plowitz-Worden, Office of Guidelines & Panel Operations, National Endowment for the Arts, Washington, DC 20506, or call 202/682-5691.

Dated: January 26, 2005.

**Kathy Plowitz-Worden,**

*Panel Coordinator, Panel Operations, National Endowment for the Arts.*

[FR Doc. 05-1798 Filed 1-31-05; 8:45 am]

**BILLING CODE 7537-01-P**

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## **NATIONAL SCIENCE FOUNDATION**

### **Notice of Meeting**

The National Science Foundation announces the following meeting:

*Name:* Interagency Arctic Research Policy Committee (IARPC).

*Date and Time:* Tuesday, March 1, 2005, 2-3:30 p.m.

*Place:* National Science Foundation, Room 1235, 4201 Wilson Blvd., Arlington, VA.

*Type of Meeting:* Closed. The meeting is closed to the public because future fiscal year budgets will be discussed.

*Contact Person:* Charles E. Myers, Office of Polar Programs, Room 755, National Science Foundation, Arlington, VA 22230, Telephone : (703) 292-8029.

*Purpose of Committee:* The Interagency Arctic Research Policy Committee was established by Public Law 98-373, the Arctic Research and Policy Act, to help set priorities for future arctic research, assist in the development of national arctic research policy, prepare a multi-agency Plan for arctic research, and simplify coordination of arctic research.

*Proposed Meeting Agenda Items:*

1. U.S. Arctic Policy Review.
2. International Polar Year (IPY) Research Activities.
3. Discussion of Budget for IPY Activities.
4. Report of the Arctic Research Commission.

**Charles E. Myers,**

*Head, Interagency Arctic Staff, Office of Polar Programs.*

[FR Doc. 05-1786 Filed 1-31-05; 8:45 am]

**BILLING CODE 7555-01-M**

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## **NUCLEAR REGULATORY COMMISSION**

[Docket No. 50-395]

### **South Carolina Electric & Gas Company, Virgil C. Summer Nuclear Station; Exemption**

#### **1.0 Background**

The South Carolina Electric & Gas Company (SCE&G, the licensee) is the holder of the Renewed Facility Operating License No. NPF-12 which authorizes operation of the Virgil C. Summer Nuclear Station (VSNS). The license provides, among other things, that the facility is subject to all rules, regulations, and orders of the Nuclear Regulatory Commission (NRC or the Commission) now or hereafter in effect.

The facility consists of a pressurized-water reactor located in Fairfield County in South Carolina.

#### **2.0 Request/Action**

Title 10 of the Code of Federal Regulations (10 CFR), part 50, section 50.44 specifies requirements for the control of hydrogen gas generated after a postulated loss-of-coolant accident (LOCA) for reactors fueled with zirconium cladding. Acceptance criteria contained in 10 CFR 50.46 are for emergency core cooling systems (ECCSs) for reactors fueled with zircaloy or ZIRLO™ cladding. In addition, Appendix K to 10 CFR part 50 requires that the Baker-Just equation be used to predict the rates of energy release, hydrogen concentration, and cladding oxidation from the metal-water reaction.

In summary, the exemption request relates solely to the specific types of cladding material specified in these regulations. As written, the regulations presume the use of zircaloy or ZIRLO™ fuel rod cladding. Thus, an exemption from the requirements of 10 CFR 50.44, 10 CFR 50.46, and Appendix K to 10 CFR part 50 is needed to irradiate lead test assemblies (LTAs) consisting of developmental clad alloys at VSNS.

### 3.0 Discussion

#### 3.1 Fuel Mechanical Design

##### Optimized ZIRLO™

Optimized ZIRLO™ has a lower tin content than the licensed ZIRLO™. Tin is a solid solution strengthener and  $\alpha$ -phase stabilizer present entirely in the base  $\alpha$ -phase zirconium crystalline structure. Potential impacts of a reduced tin content on material properties include (1) a reduced tensile strength, (2) an increased thermal creep rate, (3) an increased irradiation growth rate, (4) a reduced  $\alpha \rightarrow \alpha + \beta$  phase transition temperature, and (5) an improved corrosion resistance. The slight reduction in tin content will not effect the size, shape, or distribution of any second phase or inter-metallic precipitates, nor the overall microstructure of this developmental zirconium alloy. With a consistent microstructure, low tin ZIRLO™ will exhibit many similar material characteristics as the licensed ZIRLO™. Further, the final annealing of Optimized ZIRLO™ has been designed to improve mechanical performance.

In the exemption request, SCE&G provides details of the planned post-irradiation examinations (PIEs) of the LTAs. Examinations include rod profilometry, rod growth, rod oxidation, and visual inspection. In response to a request for additional information, the licensee stated that PIE data, as well as data from other Westinghouse LTA programs, will be used to ensure existing design models remain valid.

As a result of the PIEs, any negative aspects of the low tin alloy's performance, including the potential impacts of a reduced tin content identified above, will be identified and resolved. Furthermore, significant deviations from model predictions will be reconciled.

The fuel rod burnup and fuel duty experienced by the LTAs in VSNS will remain well within the operating experience base and applicable licensed limits for ZIRLO™.

Utilizing currently approved fuel performance and fuel mechanical design models and methods, SCE&G and Westinghouse will perform cycle-specific reload evaluations to ensure that the LTAs satisfy existing design criteria.

Based upon LTA irradiation experience of similar low tin versions of ZIRLO™, expected performance due to similar material properties, and an LTA PIE program aimed at qualifying model predictions, the staff finds the LTA mechanical design acceptable for VSNS.

#### 3.2 Core Physics and Non-LOCA Safety Analysis

The SCE&G exemption request relates solely to the specific types of cladding material specified in the regulations. No new or altered design limits for purposes of 10 CFR part 50, Appendix A, General Design Criterion 10, "Reactor Design," need to be applied or are required for this program.

##### Optimized ZIRLO™

Due to similar material properties, any impact of low tin ZIRLO™ on the safety analysis models and methods is expected to be minimal. Utilizing currently approved core physics, core thermal-hydraulics, and non-LOCA safety analysis models and methods, SCE&G and Westinghouse will perform cycle-specific reload evaluations to ensure that the LTAs satisfy design criteria.

Nuclear design evaluations will ensure that LTAs be placed in nonlimiting core locations. As such, additional thermal margin to design limits will be maintained between LTA fuel rods and the hot rod evaluated in safety analyses. Thermal-hydraulic and non-LOCA evaluations will confirm that the LTAs are bounded by the current analysis of record.

Based upon the use of approved models and methods, expected material performance, and the placement of LTAs in nonlimiting core locations, the staff finds that the irradiation of up to four LTAs in VSNS will not result in unsafe operation nor violation of Specified Acceptable Fuel Design Limits. Furthermore, in the event of a Design Basis Accident, these LTAs will not promote consequences beyond those currently analyzed.

#### 3.3 Regulatory Evaluation

Pursuant to 10 CFR 50.12, the Commission may, upon application by any interested person or upon its own initiative, grant exemptions from the requirements of 10 CFR part 50 if, (1) the exemptions are authorized by law, will not present an undue risk to public health or safety, and are consistent with the common defense and security; and (2) special circumstances are present.

##### 3.3.1 10 CFR 50.44

The underlying purpose of 10 CFR 50.44 is to ensure that means are provided for the control of hydrogen gas that may be generated following a LOCA. The licensee has provided means for controlling hydrogen gas and has previously considered the potential for hydrogen gas generation stemming from a metal-water reaction. The LTA rods containing a low tin version of ZIRLO™

cladding are similar in chemical composition to zircaloy cladding. Metal-water reaction tests performed by Westinghouse on low tin versions of ZIRLO™ (documented in Appendix B of Addendum 1 to WCAP-12610-P-A) demonstrate comparable reaction rates. Accordingly, the previous calculations of hydrogen production resulting from a metal-water reaction will not be significantly changed. As such, application of 10 CFR 50.44 is not necessary for the licensee to achieve its underlying purpose in these circumstances.

##### 3.3.2 10 CFR 50.46

The underlying purpose of 10 CFR 50.46 is to establish acceptance criteria for ECCS performance. The applicability of these ECCS acceptance criteria has been demonstrated by Westinghouse. Ring compression tests performed by Westinghouse on low tin versions of ZIRLO™ (documented in Appendix B of Addendum 1 to WCAP-12610-P-A) demonstrate an acceptable retention of post-LOCA ductility up to 10 CFR 50.46 limits of 2200 °F and 17 percent Equivalent Cladding Reacted. Utilizing currently approved LOCA models and methods, Westinghouse will perform cycle-specific reload evaluations prior to use to ensure that the LTAs satisfy 10 CFR 50.46 acceptance criteria. Therefore, the exemption to expand the application of 10 CFR 50.46 to include Optimized ZIRLO™ is acceptable.

##### 3.3.3 10 CFR Part 50, Appendix K

Paragraph I.A.5 of Appendix K to 10 CFR part 50 states that the rates of energy, hydrogen concentration, and cladding oxidation from the metal-water reaction shall be calculated using the Baker-Just equation. Since the Baker-Just equation presumes the use of zircaloy clad fuel, strict application of the rule would not permit use of the equation for the LTA cladding for determining acceptable fuel performance. Metal-water reaction tests performed by Westinghouse on low tin versions of ZIRLO™ (documented in Appendix B of Addendum 1 to WCAP-12610-P-A) demonstrate conservative reaction rates relative to the Baker-Just equation. Thus, application of Appendix K, Paragraph I.A.5 is not necessary for the licensee to achieve its underlying purpose in these circumstances.

##### 3.3.4 Special Circumstances

In summary, the staff reviewed the licensee's request of proposed exemption to allow up to four LTAs containing fuel rods, guide thimble tubes, and instrumentation tubes

fabricated with Optimized ZIRLO™. Based on the staff's evaluation, as set forth above, the staff considers that granting the proposed exemption will not defeat the underlying purpose of 10 CFR 50.44, 10 CFR 50.46, or Appendix K to 10 CFR part 50. Accordingly, special circumstances, are present pursuant to 10 CFR 50.12(a)(2)(ii).

### 3.3.5. Other Standards in 10 CFR 50.12

The staff examined the rest of the licensee's rationale to support the exemption request, and concluded that the use of Optimized ZIRLO™ would satisfy 10 CFR 50.12(a) as follows:

(1) The requested exemption is authorized by law:

No law precludes the activities covered by this exemption request. The Commission, based on technical reasons set forth in rulemaking records, specified the specific cladding materials identified in 10 CFR 50.44, 10 CFR 50.46, and 10 CFR part 50, Appendix K. Cladding materials are not specified by statute.

(2) The requested exemption does not present an undue risk to the public health and safety as stated by the licensee:

The LTA safety evaluation will ensure that these acceptance criteria [in the Commission's regulations] are met following the insertion of LTAs containing Optimized ZIRLO™ material. Fuel assemblies using Optimized ZIRLO™ cladding will be evaluated using NRC-approved analytical methods and plant specific models to address the changes in the cladding material properties. The safety analysis for VSNS is supported by the applicable technical specification. The VSNS reload cores containing Optimized ZIRLO™ cladding will continue to be operated in accordance with the operating limits specified in the technical specifications. LTAs utilizing Optimized ZIRLO™ cladding will be placed in non-limiting core locations. Thus, the granting of this exemption request will not pose an undue risk to public health and safety.

The NRC staff has evaluated these considerations as set forth in Section 3.1 of this exemption. For the reasons set forth in that section, the staff concludes that Optimized ZIRLO™ may be used as a cladding material for no more than four LTAs to be placed in nonlimiting core locations during VSNS's next refueling outage, and that an exemption from the requirements of 10 CFR 50.44, 10 CFR 50.46, and 10 CFR part 50, Appendix K does not pose an undue risk to the public health and safety.

#### 4.0 Conclusion

Accordingly, the Commission has determined that, pursuant to 10 CFR 50.12(a), the exemption is authorized by

law, will not present an undue risk to the public health and safety, and is consistent with the common defense and security. Also, special circumstances are present. Therefore, the Commission hereby grants SCE&G exemptions from the requirements of 10 CFR 50.44, 10 CFR 50.46, and 10 CFR part 50, Appendix K, to allow four LTAs containing fuel rods with Optimized ZIRLO™ and several different developmental clad alloys.

Pursuant to 10 CFR 51.32, the Commission has determined that the granting of this exemption will not have a significant effect on the quality of the human environment (70 FR 1742).

This exemption is effective upon issuance.

Dated in Rockville, Maryland, this 14th day of January 2005.

For the Nuclear Regulatory Commission.

**James E. Lyons,**

*Deputy Director, Division of Licensing Project Management, Office of Nuclear Reactor Regulation.*

[FR Doc. 05-1772 Filed 1-31-05; 8:45 am]

**BILLING CODE 7590-01-P**

## NUCLEAR REGULATORY COMMISSION

[Docket No. 50-390]

### Utility Name; Notice of Consideration of Issuance of Amendment to Facility Operating License, Proposed No Significant Hazards Consideration Determination, and Opportunity for a Hearing

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. NPF-90 issued to the Tennessee Valley Authority (the licensee) for operation of the Watts Bar Nuclear Plant (WBN), Unit 1, located in Rhea County, Tennessee.

The proposed change allows entry into a mode or other specified condition in the applicability of a Technical Specification (TS), while in a condition statement and the associated required actions of the TS, provided the licensee performs a risk assessment and manages risk consistent with the program in place for complying with the requirements of title 10 of the Code of Federal Regulations (10 CFR), part 50, section 50.65(a)(4). Limiting Condition for Operation (LCO) 3.0.4 exceptions in individual TSs would be eliminated, several notes or specific exceptions are revised to reflect the related changes to LCO 3.0.4, and Surveillance Requirement (SR) 3.0.4 is revised to

reflect the LCO 3.0.4 allowance. The No Significant Hazards Consideration Determination concerning this change was published in the **Federal Register** on January 18, 2005 (70 FR 2901).

A separate change, not described in the above **Federal Register** notice, was also included in the licensee's application. In accordance with TS Task Force (TSTF)—285, Charging Pump Swap Low-Temperature Over-Pressurization Allowance, LCO 3.4.12, Cold Overpressure Mitigation System (COMS), is being revised to modify and relocate two notes in the WBN TSs. The changes are all administrative, except a change which would allow two charging pumps to be made capable of injecting into the Reactor Coolant System to support pump swap operations for a period not to exceed 1 hour instead of the currently allowed 15 minutes.

Before issuance of the proposed license amendment, the Commission will have made findings required by the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations.

The Commission has made a proposed determination that the amendment request involves no significant hazards consideration. Under the Commission's regulations in 10 CFR 50.92, this means that operation of the facility in accordance with the proposed amendment would not (1) involve a significant increase in the probability or consequences of an accident previously evaluated; or (2) create the possibility of a new or different kind of accident from any accident previously evaluated; or (3) involve a significant reduction in a margin of safety. As required by 10 CFR 50.91(a), the licensee has provided its analysis of the issue of no significant hazards consideration, which is presented below:

1. Does the proposed change involve a significant increase in the probability or consequences of an accident previously evaluated?

Response: No.

The proposed change to the WBN TS is consistent with improvements made to the Standard Technical Specifications for Westinghouse Plants and continues to provide controls for safe operation within the required limits. The probability of occurrence or the consequences of an accident are not significantly increased as a result of the increased time from 15 minutes to one hour to allow pump swap operations. The one hour time period is reasonable considering the small likelihood of an event during this brief period and the other administrative controls available (e.g., operator action to stop any pump that inadvertently starts) and considering the required vent paths in accordance with the LCO. The proposed change does not affect degradation of accident mitigation systems. The proposed