

For the Nuclear Regulatory Commission.

**Andrew L. Bates,**

*Acting Secretary of the Commission.*

**Attachment 1—General Target  
Schedule for Processing and Resolving  
Requests for Access to Sensitive  
Unclassified Non-Safeguards  
Information in This Proceeding**

Day	Event/activity
0 .....	Publication of <b>Federal Register</b> notice of hearing and opportunity to petition for leave to intervene, including order with instructions for access requests.
10 .....	Deadline for submitting requests for access to Sensitive Unclassified Non-Safeguards Information (SUNSI) with information: Supporting the standing of a potential party identified by name and address; describing the need for the information in order for the potential party to participate meaningfully in an adjudicatory proceeding.
60 .....	Deadline for submitting petition for intervention containing: (i) Demonstration of standing; (ii) all contentions whose formulation does not require access to SUNSI (+25 Answers to petition for intervention; +7 requestor/petitioner reply).
20 .....	Nuclear Regulatory Commission (NRC) staff informs the requestor of the staff's determination whether the request for access provides a reasonable basis to believe standing can be established and shows need for SUNSI. (NRC staff also informs any party to the proceeding whose interest independent of the proceeding would be harmed by the release of the information.) If NRC staff makes the finding of need for SUNSI and likelihood of standing, NRC staff begins document processing (preparation of redactions or review of redacted documents).
25 .....	If NRC staff finds no "need" or no likelihood of standing, the deadline for requestor/petitioner to file a motion seeking a ruling to reverse the NRC staff's denial of access; NRC staff files copy of access determination with the presiding officer (or Chief Administrative Judge or other designated officer, as appropriate). If NRC staff finds "need" for SUNSI, the deadline for any party to the proceeding whose interest independent of the proceeding would be harmed by the release of the information to file a motion seeking a ruling to reverse the NRC staff's grant of access.
30 .....	Deadline for NRC staff reply to motions to reverse NRC staff determination(s).
40 .....	(Receipt +30) If NRC staff finds standing and need for SUNSI, deadline for NRC staff to complete information processing and file motion for Protective Order and draft Non-Disclosure Affidavit. Deadline for applicant/licensee to file Non-Disclosure Agreement for SUNSI.
A .....	If access granted: Issuance of presiding officer or other designated officer decision on motion for protective order for access to sensitive information (including schedule for providing access and submission of contentions) or decision reversing a final adverse determination by the NRC staff.
A + 3 .....	Deadline for filing executed Non-Disclosure Affidavits. Access provided to SUNSI consistent with decision issuing the protective order.
A + 28 .....	Deadline for submission of contentions whose development depends upon access to SUNSI. However, if more than 25 days remain between the petitioner's receipt of (or access to) the information and the deadline for filing all other contentions (as established in the notice of hearing or opportunity for hearing), the petitioner may file its SUNSI contentions by that later deadline.
A + 53 .....	(Contention receipt +25) Answers to contentions whose development depends upon access to SUNSI.
A + 60 .....	(Answer receipt +7) Petitioner/Intervenor reply to answers.
> A + 60 .....	Decision on contention admission.

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**NUCLEAR REGULATORY  
COMMISSION**

[Docket Nos. 50-317 and 50-318; NRC-  
2011-0004]

**Calvert Cliffs Nuclear Power Plant,  
LLC; Calvert Cliffs Nuclear Power  
Plant, Unit Nos. 1 and 2 Environmental  
Assessment and Finding of No  
Significant Impact**

The Nuclear Regulatory Commission (NRC) is considering issuance of an exemption from Title 10 of the Code of Federal Regulations (10 CFR) 50.46 and 10 CFR part 50, appendix K, for Facility Operating License Nos. DPR-53 and DPR-69, issued to Calvert Cliffs Nuclear Power Plant, LLC, the licensee, for operation of the Calvert Cliffs Nuclear Power Plant, Unit Nos. 1 and 2 (Calvert

Cliffs), located in Calvert County, Maryland. Therefore, as required by 10 CFR 51.21, the NRC is issuing this environmental assessment and finding of no significant impact.

**Environmental Assessment**

*Identification of the Proposed Action*

The proposed action would provide an exemption from the requirements of: (1) 10 CFR 50.46, "Acceptance criteria for emergency core cooling systems for light-water nuclear power reactors," which requires that the calculated emergency core cooling system (ECCS) performance for reactors with zircaloy or ZIRLO fuel cladding meet certain criteria, and (2) 10 CFR part 50, appendix K, "ECCS Evaluation Models," which presumes the use of zircaloy or ZIRLO fuel cladding when doing calculations for energy release, cladding oxidation, and hydrogen generation

after a postulated loss-of-coolant-accident.

The proposed action would allow the licensee to use M5, an advanced alloy fuel cladding material for pressurized-water reactors (PWRs), in lieu of zircaloy or ZIRLO, the materials assumed to be used in the cited regulations, at Calvert Cliffs. The proposed action is in accordance with the licensee's application dated November 23, 2009 (Agencywide Document Access and Management System (ADAMS) Accession No. ML093350189).

*The Need for the Proposed Action*

The Commission's regulations in 10 CFR 50.46 and 10 CFR part 50, appendix K require the demonstration of adequate ECCS performance for light-water reactors that contain fuel consisting of uranium oxide pellets enclosed in zircaloy or ZIRLO tubes. Each of these regulations, either

implicitly or explicitly, assumes that either zircaloy or ZIRLO is used as the fuel rod cladding material.

In order to accommodate the high fuel rod burnups that are required for modern fuel management and core designs, Framatome developed the M5 advanced fuel rod cladding material. M5 is an alloy comprised primarily of zirconium (~99 percent) and niobium (~1 percent) that has demonstrated superior corrosion resistance and reduced irradiation-induced growth relative to both standard and low-tin zircaloy. However, since the chemical composition of the M5 advanced alloy differs from the specifications of either zircaloy or ZIRLO, use of the M5 advanced alloy falls outside of the strict interpretation of these regulations. Therefore, approval of this exemption request is needed to permit the use of the M5 advanced alloy as a fuel rod cladding material at Calvert Cliffs.

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

The NRC has completed its environmental assessment of the proposal to use M5 advanced alloy for fuel rod cladding at Calvert Cliffs and has concluded that the proposed exemption will not present any undue risk to public health and safety. The underlying purposes of 10 CFR 50.46 and 10 CFR part 50, appendix K, are to ensure that facilities have adequate acceptance criteria for the ECCS, and to ensure that cladding oxidation and hydrogen generation are appropriately limited during a loss-of-coolant accident (LOCA) and conservatively accounted for in the ECCS evaluation model, respectively. Topical Report (TR) BAW-10227P, "Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel," which was approved by the NRC on February 4, 2000, demonstrated that the effectiveness of the ECCS will not be affected by a change from zircaloy to M5. In addition, TR BAW-10227P demonstrated that the Baker-Just equation (used in the ECCS evaluation model to determine the rate of energy release, cladding oxidation, and hydrogen generation) is conservative in all post-LOCA scenarios with respect to M5 advanced alloy as a fuel rod cladding material or in other assembly structural components. The licensee will use NRC-approved methods for the reload design process for Calvert Cliffs reloads with M5. The details of the 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.

The proposed action will not significantly increase the probability or consequences of accidents. No changes are being made in the types of effluents that may be released offsite. There is no significant increase in the amount of any effluent released offsite. There is no significant increase in occupational or public radiation exposure. Therefore, there are no significant radiological environmental impacts associated with the proposed action.

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 noticeable effect on socioeconomic conditions in the region. Therefore, no changes or different types of non-radiological environmental impacts are expected as a result of the proposed action.

Accordingly, the NRC concludes that there are no significant environmental impacts associated with the proposed action.

#### *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 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 previously considered in the Final Environmental Statement for Calvert Cliffs dated April 1973, and the Generic Environmental Impact Statement for License Renewal of Nuclear Plants, Calvert Cliffs Nuclear Power Plant (NUREG-1437, Supplement 1), dated October 1999.

#### *Agencies and Persons Consulted*

In accordance with its stated policy, on November 29, 2010, the staff consulted with the Maryland State official, Susan Gray of the Maryland Department of Natural Resources,

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 November 23, 2009 (ADAMS Accession No. ML093350189). 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 O1 F21, 11555 Rockville Pike (first floor), Rockville, Maryland. Publicly available records will be accessible electronically from the Agencywide Documents 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 1-800-397-4209 or 301-415-4737, or send an e-mail to [pdr@nrc.gov](mailto:pdr@nrc.gov).

Dated at Rockville, Maryland, this 3rd day of January 2011.

For the Nuclear Regulatory Commission.

**Douglas V. Pickett,**

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

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## **OVERSEAS PRIVATE INVESTMENT CORPORATION**

### **Sunshine Act Notice**

#### **OPIC Annual Public Hearing**

OPIC's Sunshine Act notice of its Annual Public Hearing was published in the **Federal Register** (Volume 75, Number 236, Page 76758) on December 9, 2010. No requests were received to provide testimony or submit written statements for the record; therefore, OPIC's Annual Public Hearing scheduled for 3:30 p.m., January 20, 2011 has been cancelled.

*Contact Person for Information:* Information on the hearing cancellation may be obtained from Connie M. Downs at (202) 336-8438, via facsimile at (202)