

NATIONAL SCIENCE FOUNDATION**Advisory Committee for Environmental Research and Education; Notice of Meeting**

In accordance with the Federal Advisory Committee Act (Pub. L. 92-463, as amended), the National Science Foundation (NSF) announces the following meeting:

Name and Committee Code: Advisory Committee for Environmental Research and Education (9487).

Date and Time: April 19, 2022; 11:00 a.m.–5:30 p.m. (EDT), April 20, 2022; 11:00 a.m.–4:00 p.m. (EDT).

Place: National Science Foundation, 2415 Eisenhower Avenue, Room E 2020, Alexandria, VA 22314 | Virtual.

Registration for the virtual meeting can be accessed at <https://nsf.zoomgov.com/meeting/register/vJIsduytqTMsEg8W7iTzUbYliGfTpaW8cNM>.

Type of Meeting: Open.

Contact Person: Dr. Arnoldo Valle-Levinson, Staff Associate, Office of Integrative Activities/Office of the Director/ National Science Foundation, 2415 Eisenhower Avenue, Alexandria, VA 22314; (email: avellele@nsf.gov; Telephone: (703) 292-7946).

Summary of Minutes: May be obtained from the AC ERE website: <https://www.nsf.gov/ere/ereweb/minutes.jsp>.

Purpose of Meeting: To provide advice, recommendations, and oversight concerning support for environmental research and education.

Agenda: Approval of minutes from past meeting. Updates on agency support for environmental research and activities. Discussion with NSF Director and Assistant Directors. Plan for future advisory committee activities. Updated agenda will be available on the AC ERE website: <https://www.nsf.gov/ere/ereweb/minutes.jsp>.

Dated: March 10, 2022.

Crystal Robinson,

Committee Management Officer.

[FR Doc. 2022-05456 Filed 3-14-22; 8:45 am]

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NUCLEAR REGULATORY COMMISSION

[NRC-2021-0112]

Fuel Qualification for Advanced Reactors

AGENCY: Nuclear Regulatory Commission.

ACTION: NUREG; issuance.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) is issuing NUREG-2246, “Fuel Qualification for Advanced Reactors.” The purpose of this NUREG report is to provide a fuel qualification

assessment framework for use by applicants for proposed advanced reactors using fuel designs and operating environments that differ from traditional light water reactor fuel. Specifically, the framework provides objective criteria, derived from regulatory requirements, that when satisfied, would support regulatory findings for licensing.

DATES: NUREG-2246, Revision 0 is available on March 15, 2022.

ADDRESSES: Please refer to Docket ID NRC-2021-0112 when contacting the NRC about the availability of information regarding this document. You may obtain publicly available information related to this document using any of the following methods:

- *Federal Rulemaking Website:* Go to <https://www.regulations.gov> and search for Docket ID NRC-2021-0112. Address questions about Docket IDs in [Regulations.gov](https://www.regulations.gov) to Stacy Schumann; telephone: 301-415-0624; email: Stacy.Schumann@nrc.gov. For technical questions, contact the individuals listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

- *NRC’s Agencywide Documents Access and Management System (ADAMS):* You may obtain publicly available documents online in the ADAMS Public Documents collection at <https://www.nrc.gov/reading-rm/adams.html>. To begin the search, select “Begin Web-based ADAMS Search.” For problems with ADAMS, please contact the NRC’s Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by email to PDR.Resource@nrc.gov. NUREG-2246, “Fuel Qualification for Advanced Reactors,” is available in ADAMS under Accession No. ML22063A131.

- *NRC’s PDR:* You may examine and purchase copies of public documents, by appointment, at the NRC’s PDR, Room P1 B35, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852. To make an appointment to visit the PDR, please send an email to PDR.Resource@nrc.gov or call 1-800-397-4209 or 301-415-4737, between 8:00 a.m. and 4:00 p.m. (ET), Monday through Friday, except Federal holidays.

FOR FURTHER INFORMATION CONTACT:

Timothy Drzewiecki, telephone: 301-415-5184, email: Timothy.Drzewiecki@nrc.gov and Jordan Hoellman, telephone: 301-415-5481, email: Jordan.Hoellman2@nrc.gov. Both are staff of the Office of Nuclear Reactor Regulation at the U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

SUPPLEMENTARY INFORMATION:**I. Discussion**

Proposed advanced reactor technologies use fuel designs and operating environments (e.g., neutron energy spectra, fuel temperatures, neighboring materials) that differ from those described in previous NRC guidance and frameworks applicable to traditional light-water reactor fuel. As such, the purpose of this report is to identify criteria that will be useful for advanced reactor fuel designs through an assessment framework that would support regulatory findings associated with nuclear fuel qualification. The report begins by examining the regulatory basis and related guidance applicable to fuel qualification, noting that the role of nuclear fuel in the protection against the release of radioactivity for a nuclear facility depends heavily on the reactor design. The report considers the use of accelerated fuel qualification techniques and lead test specimen programs that may shorten the timeline for qualifying fuel for use in a nuclear reactor at the desired parameters (e.g., burnup). The assessment framework particularly emphasizes the identification of key fuel manufacturing parameters, the specification of a fuel performance envelope to inform testing requirements, the use of evaluation models in the fuel qualification process, and the assessment of the experimental data used to develop and validate evaluation models and empirical safety criteria.

II. Additional Information

Draft NUREG-2246, Revision 0, was published in the **Federal Register** for public comment on June 30, 2021 (86 FR 34794) with a 60-day comment period. The NRC received three public comments from private citizens and industry organizations. The NRC staff’s evaluation and resolution of the public comments are documented in Appendix B to NUREG-2246 in ADAMS under Accession No. ML22063A131.

III. Congressional Review Act

NUREG-2246, Revision 0, is a rule as defined in the Congressional Review Act (5 U.S.C. 801-808). However, the Office of Management and Budget has not found it to be a major rule as defined in the Congressional Review Act.

Dated: March 9, 2022.

For the Nuclear Regulatory Commission.

Steven T. Lynch,

Acting Chief, Advanced Reactor Policy Branch, Division of Advanced Reactors and Non-Power Production and Utilization Facilities, Office of Nuclear Reactor Regulation.

[FR Doc. 2022-05382 Filed 3-14-22; 8:45 am]

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NUCLEAR REGULATORY COMMISSION

694th Meeting of the Advisory Committee on Reactor Safeguards (ACRS)

In accordance with the purposes of Sections 29 and 182b of the Atomic Energy Act (42 U.S.C. 2039, 2232(b)), the Advisory Committee on Reactor Safeguards (ACRS) will hold meetings on April 6–8, 2022. The Committee will be conducting meetings that will include some members being physically present at the U.S. Nuclear Regulatory Commission (NRC) while other members participating remotely. Interested members of the public are encouraged to participate remotely in any open sessions via MS Teams or via phone at 301-576-2978, passcode 314 240 222#. A more detailed agenda including the MS Teams link may be found at the ACRS public website at <https://www.nrc.gov/reading-rm/doc-collections/acrs/agenda/index.html>. If you would like the MS Teams link forwarded to you, please contact the Designated Federal Officer as follows: Quynh.Nguyen@nrc.gov or Lawrence.Burkhart@nrc.gov

Wednesday, April 6, 2022

8:30 a.m.–8:35 a.m.: Opening Remarks by the ACRS Chairman (Open)—The ACRS Chairman will make opening remarks regarding the conduct of the meeting.

8:35 a.m.–10:00 a.m.: Radiation Embrittlement of Reactor Vessel Materials (Open)—The Committee will have presentations and discussion with representatives from the NRC staff regarding the subject topic.

10:00 a.m.–11:00 a.m.: Committee Deliberation on Radiation Embrittlement of Reactor Vessel Materials (Open)—The Committee will deliberate regarding the subject topic.

12:30 p.m.–2:00 p.m.: BWRX-300 Topical Report on Containment Evaluation Methodology (Open/Closed)—The Committee will have presentations and discussion with representatives from GE-Hitachi and NRC staff regarding the subject topic. [Note: Pursuant to 5 U.S.C 552b(c)(4), a portion of this session may be closed in

order to discuss and protect information designated as proprietary.]

2:00 p.m.–3:00 p.m.: Committee Deliberation BWRX-300 Topical Report on Containment Evaluation Methodology (Open/Closed)—The Committee will deliberate regarding the subject topic. [Note: Pursuant to 5 U.S.C 552b(c)(4), a portion of this session may be closed in order to discuss and protect information designated as proprietary.]

3:00 p.m.–6:00 p.m.: Point Beach Subsequent License Renewal Application (Open)—The Committee will have presentations and discussion with representatives from NextEra and NRC staff regarding the subject topic.

Thursday, April 7, 2022

8:30 a.m.–8:35 a.m.: Opening Remarks by the ACRS Chairman (Open)—The ACRS Chairman will make opening remarks regarding the conduct of the meeting.

8:35 a.m.–10:00 a.m.: SHINE Operating License Application Review—Interim Letter (Open/Closed)—The Committee will have presentations and discussion with representatives from SHINE and the NRC staff regarding the subject topic. [Note: Pursuant to 5 U.S.C 552b(c)(4), a portion of this session may be closed in order to discuss and protect information designated as proprietary.]

10:00 a.m.–11:00 a.m.: Committee Deliberation on the SHINE Operating License Application Review—Interim Letter (Open/Closed)—The Committee will deliberate regarding the subject topic. [Note: Pursuant to 5 U.S.C 552b(c)(4), a portion of this session may be closed in order to discuss and protect information designated as proprietary.]

1:00 p.m.–3:30 p.m.: BWRX-300 Topical Report on Advanced Civil Construction and Design Approach (Open/Closed)—The Committee will have presentations and discussion with representatives from GE-Hitachi and NRC staff regarding the subject topic. [Note: Pursuant to 5 U.S.C 552b(c)(4), a portion of this session may be closed in order to discuss and protect information designated as proprietary.]

3:30 p.m.–4:30 p.m.: Committee Deliberation on the BWRX-300 Topical Report on Advanced Civil Construction and Design Approach (Open/Closed)—The Committee will deliberate regarding the subject topic. [Note: Pursuant to 5 U.S.C 552b(c)(4), a portion of this session may be closed in order to discuss and protect information designated as proprietary.]

4:30 p.m.–6:00 p.m.: Preparation of Reports (Open/Closed)—The Committee will continue its discussion of proposed ACRS reports. [Note: Pursuant to 5 U.S.C 552b(c)(4), a portion of this

session may be closed in order to discuss and protect information designated as proprietary.]

Friday, April 8, 2022

8:30 a.m.–11:30 a.m.: Future ACRS Activities/Report of the Planning and Procedures Subcommittee and Reconciliation of ACRS Comments and Recommendations/Preparation of Reports (Open/Closed)—The Committee will hear discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the Full Committee during future ACRS meetings, and/or proceed to preparation of reports as determined by the Chairman. [Note: Pursuant to 5 U.S.C. 552b(c)(4), a portion of this session may be closed in order to discuss and protect information designated as proprietary.] [Note: Pursuant to 5 U.S.C. 552b(c)(2) and (6), a portion of this meeting may be closed to discuss organizational and personnel matters that relate solely to internal personnel rules and practices of the ACRS, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.]

1:00 p.m.–6:00 p.m.: Preparation of Reports (Open/Closed)—The Committee will continue its discussion of proposed ACRS reports. [Note: Pursuant to 5 U.S.C 552b(c)(4), a portion of this session may be closed in order to discuss and protect information designated as proprietary.]

Procedures for the conduct of and participation in ACRS meetings were published in the **Federal Register** on June 13, 2019 (84 FR 27662). In accordance with those procedures, oral or written views may be presented by members of the public, including representatives of the nuclear industry. Persons desiring to make oral statements should notify Quynh Nguyen, Cognizant ACRS Staff and the Designated Federal Officer (DFO) (Telephone: 301-415-5844, Email: Quynh.Nguyen@nrc.gov), 5 days before the meeting, if possible, so that appropriate arrangements can be made to allow necessary time during the meeting for such statements. In view of the possibility that the schedule for ACRS meetings may be adjusted by the Chairman as necessary to facilitate the conduct of the meeting, persons planning to attend should check with the Cognizant ACRS staff if such rescheduling would result in major inconvenience.

An electronic copy of each presentation should be emailed to the Cognizant ACRS Staff at least one day before meeting.