

NUCLEAR REGULATORY COMMISSION

[NRC-2017-0236]

Preparing To License Accident Tolerant Fuel**AGENCY:** Nuclear Regulatory Commission.**ACTION:** Draft project plan; request for comment.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) is issuing for public comment a draft project plan, "Draft Project Plan to Prepare the U.S. Nuclear Regulatory Commission to License and Regulate Accident Tolerant Fuel." The NRC has established a steering committee of senior managers to oversee and set direction for a staff working group to prepare the agency for the anticipated licensing and use of accident tolerant fuel (ATF) in U.S. commercial power reactors. This draft project plan lays out the tasks that must be completed by the agency ahead of licensing submittals in order to conduct meaningful and timely reviews of ATF designs. The plan is expected to be a living document that may evolve as ATF concepts are more clearly defined and schedules for lead test assemblies (LTAs) and batch loading are refined.

DATES: Submit comments by February 5, 2018. Comments received after this date will be considered if it is practical to do so, but the Commission is able to ensure consideration only for comments received before this date.

ADDRESSES: You may submit comments by any of the following methods:

- *Federal Rulemaking website:* Go to <http://www.regulations.gov> and search for Docket ID NRC-2017-0236. Address questions about NRC dockets to Carol Gallagher; telephone: 301-415-3463; email: Carol.Gallagher@nrc.gov. For technical questions, contact the individual listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

- *Mail comments to:* May Ma, Office of Administration, Mail Stop: OWFN-2-A13, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001.

For additional direction on obtaining information and submitting comments, see "Obtaining Information and Submitting Comments" in the **SUPPLEMENTARY INFORMATION** section of this document.

FOR FURTHER INFORMATION CONTACT:

Andrew Proffitt, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington DC 20555-0001; telephone: 301-415-1418, email: Andrew.Proffitt@nrc.gov.

SUPPLEMENTARY INFORMATION:**I. Obtaining Information and Submitting Comments***A. Obtaining Information*

Please refer to Docket ID NRC-2017-0236 when contacting the NRC about the availability of information for this action. You may obtain publicly-available information related to this action by any of the following methods:

- *Federal Rulemaking website:* Go to <http://www.regulations.gov> and search for Docket ID NRC-2017-0236.
- *NRC's Agencywide Documents Access and Management System (ADAMS):* You may obtain publicly-available documents online in the ADAMS Public Documents collection at <http://www.nrc.gov/reading-rm/adams.html>. To begin the search, select "ADAMS Public Documents" and then 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. The "Draft Project Plan to Prepare the U.S. Nuclear Regulatory Commission to License and Regulate Accident Tolerant Fuel," is available in ADAMS under Package Accession No. ML17325B771.
- *NRC's PDR:* You may examine and purchase copies of public documents at the NRC's PDR, Room O1-F21, One White Flint North, 11555 Rockville Pike, Rockville, Maryland 20852.

B. Submitting Comments

Please include Docket ID NRC-2017-0236 in your comment submission.

The NRC cautions you not to include identifying or contact information that you do not want to be publicly disclosed in your comment submission. The NRC posts all comment submissions at <http://www.regulations.gov> as well as entering the comment submissions into ADAMS. The NRC does not routinely edit comment submissions to remove identifying or contact information.

If you are requesting or aggregating comments from other persons for submission to the NRC, then you should inform those persons not to include identifying or contact information that they do not want to be publicly disclosed in their comment submission. Your request should state that the NRC does not routinely edit comment submissions to remove such information before making the comment submissions available to the public or entering the comment submissions into ADAMS.

II. Discussion

The Offices of Nuclear Reactor Regulation, New Reactors, Nuclear Material Safety and Safeguards, and Nuclear Regulatory Research are preparing for anticipated licensing and use of ATF in the United States commercial power reactors.

Several fuel vendors, in coordination with Department of Energy (DOE), have announced plans to develop and seek approval for various fuel designs with enhanced accident tolerance (*i.e.*, fuels with longer coping times during loss of cooling conditions). The designs being considered in the development of this plan include Cr coated claddings, Cr-doped UO₂ pellets, FeCrAl cladding, SiC cladding, U₃Si₂ pellets, and metallic fuels. For these ATF designs, the time frames for initial irradiation of LTA programs and topical report/license amendment request review were used as a basis for the timelines discussed in this plan.

The NRC has entered into a Memorandum of Understanding with DOE to collaborate on the nuclear safety research of enhanced ATFs that will reduce duplication of efforts and make the appropriate data available for regulatory decision processes. In preparing the agency to conduct meaningful and timely reviews of these advanced fuel designs, the NRC is conducting advanced planning, reviewing the existing regulatory infrastructure, and identifying needs for additional analysis capabilities and the development of unique critical skillsets within the staff.

This project plan outlines the preliminary strategy for preparing the NRC to license ATF designs. It also identifies the lead organization for each planned activity. The project plan does not cover existing licensing activities, as they follow existing processes for which schedules and regulatory approaches are well-established. Current preparation for ATF licensing is focused on light water reactor (LWR) fuel for the operating fleet. There may be synergies between the revolutionary LWR ATF fuel development and fuel safety qualification of some types of non-LWR fuels for advanced reactor designs. As appropriate, the NRC will leverage any synergies to optimize licensing efficiency and effectiveness.

The NRC is issuing the plan for public comment to solicit feedback and insight from stakeholders to ensure that the plan will appropriately prepare the NRC to license and regulate the ATF designs the industry is currently pursuing on a schedule consistent with industry timelines.

Dated at Rockville, Maryland, this 18th day of December 2017.

For the Nuclear Regulatory Commission.

Mirela Gavrilas,

Director, Division of Safety Systems, Office of Nuclear Reactor Regulation.

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NUCLEAR REGULATORY COMMISSION

[NRC-2017-0235]

Licensing Support Network Advisory Review Panel: Meeting Notice

AGENCY: U.S. Nuclear Regulatory Commission.

ACTION: Notice of meeting.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) will convene a meeting of the Licensing Support Network Advisory Review Panel (LSNARP) on January 30-31, 2018, at the NRC's Headquarters Offices in Room 01C3, Three White Flint North Building, 11601 Landsdown Street, Rockville, Maryland 20852.

The meeting is being held to carry out the NRC's responsibilities under the U.S. Court of Appeals for the District of Columbia Circuit's decision in the case *In re Aiken County*, 645 F.3d 428 (D.C. Cir. 2011), and the Commission's July 31, 2017, direction in the Staff

Requirements Memorandum associated with COMSECY-17-0019 that a next step in the Yucca Mountain licensing process is for the NRC to initiate information-gathering activities regarding reinstating or replacing the Licensing Support Network (LSN). The LSN, which was used to make documentary material associated with the Yucca Mountain adjudicatory proceeding available to hearing participants and the public, was decommissioned when the adjudication was suspended in 2011. The information being collected will assist the Commission in making efficient, informed decisions concerning appropriate means for reconstituting the LSN's functionality if the currently-suspended Yucca Mountain adjudication were to re-commence in the future.

The meeting will be open to the public pursuant to the Federal Advisory Committee Act (FACA) (Pub. L. 94-463, 86 Stat. 770-776) and will be conducted as a virtual meeting with representatives of LSNARP member organizations utilizing the capabilities of GoToMeeting® and the general public having access via GoToWebinar®. Representatives of LSNARP member organizations and the public may also attend in person at the location indicated above.

Agenda: The meeting will be held from 10:00 a.m. to 6:30 p.m. EST on

Tuesday, January 30, 2018, and 10:00 a.m. to 5:00 p.m. EST on Wednesday, January 31, 2018. If attending the meeting in person, please plan your arrival to allow additional time (e.g., 15 to 30 minutes) for security screening. The preliminary agenda is listed below. Additional details regarding timing of presentations and changes to the agenda may be obtained through the contacts listed below and will be announced prior to the meeting.

The primary focus of the meeting will be on the options available for reconstituting the LSN's functionality. The NRC has prepared a paper describing the options (Agencywide Documents Access and Management System (ADAMS) Accession No. ML17347B671) to be examined and discussed at the meeting with the objective of soliciting the views of the LSNARP member organizations on the best path forward for reconstituting the LSN or developing a suitable replacement system if the Yucca Mountain licensing adjudication is resumed in the future. Additionally, at the conclusion of the January 30 meeting session, the NRC will provide an orientation session regarding the ADAMS LSN Library, which currently houses the documentary material previously accessible via the LSN and provides the technical basis for one of the options to be discussed at the meeting.

	EST/PST
January 30, 2018:	
Security Check-in for Onsite Attendees	9:30 a.m./6:30 a.m.
Introduction and Overview	10:00 a.m./7:00 a.m.
Meeting Process/Ground Rules	
Status of Adjudicatory Proceeding	
Status of E-Filing/Electronic Hearing Docket and New Exhibit Submission Process	
Break	
History of the LSN	
Introduction of LSN Reconstitution/Replacement Options and New Functional Requirements	
Lunch	
Option 1, Traditional Discovery	
Member Comment and Discussion	
Public Comments	
Break	
Option 2, NRC ADAMS LSN Library	
Member Comment and Discussion	
Public Comments	
Wrap-up/Adjourn	
Break	
ADAMS LSN Library Orientation	(Approx. 1 Hour.)
End of Day 1	6:30 p.m./3:30 p.m.
January 31, 2018:	
Security Check-in for Onsite Attendees	9:30 a.m./6:30 a.m.
Introduction and Overview	10:00 a.m./7:00 a.m.