

recommendations for agency action. Any interested persons may attend in person as observers, subject to limited seating availability. On August 16, 2024, the Committee will meet to deliberate on and discuss recommendations for agency action. Any interested persons may watch the proceedings virtually as observers.

Individuals wishing to attend in person on August 15 or watch virtually on August 16 are advised to contact Alexandra Piper of the Institute of Museum and Library Services five (5) working days in advance of the meeting at [apiper@imls.gov](mailto:apiper@imls.gov) or write to the Committee at the Institute of Museum and Library Services, 955 L'Enfant Plaza SW, Suite 4000, Washington, DC 20024.

If you need special accommodations due to disability or would like to obtain further information in reference to the meeting, please contact Alexandra Piper at [apiper@imls.gov](mailto:apiper@imls.gov).

Dated: July 31, 2024.

**Brianna Ingram,**  
Paralegal Specialist.

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## NUCLEAR REGULATORY COMMISSION

[NRC-2023-0113]

### NUREG: Environmental Evaluation of Accident Tolerant Fuels With Increased Enrichment and Higher Burnup Levels

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Final report; issuance.

**SUMMARY:** The U.S. Nuclear Regulatory Commission (NRC) is issuing NUREG-2266, "Environmental Evaluation of Accident Tolerant Fuels with Increased Enrichment and Higher Burnup Levels." This study evaluates the reasonably foreseeable impacts of near-term accident tolerant fuel (ATF) technologies with increased enrichment and higher burnup levels for light-water reactors (LWRs) (*i.e.*, a bounding analysis). The final NUREG was revised based on public comments to reflect a bounding analysis of up to 10 wt% U-235 enrichment for the uranium fuel cycle and decommissioning to, among other things, add transportation impacts for half-batch reloads, and to provide clarification on the use of NUREG-2266 if exceeding 10 wt% U-235 for uranium fuel cycle and decommissioning, exceeding 8 wt% U-235 enrichment for the transportation of fuel and waste, or

exceeding assembly averaged burnup levels of 80 GWd/MTU.

**DATES:** NUREG-2266 is available on August 6, 2024.

**ADDRESSES:** Please refer to Docket ID NRC-2023-0113 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-2023-0113. Address questions about Docket IDs to Stacy Schumann; telephone: 301-415-0624; email: [Stacy.Schumann@nrc.gov](mailto:Stacy.Schumann@nrc.gov). For technical questions, contact the individual 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, at 301-415-4737, or by email to [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov). NUREG-2266, "Environmental Evaluation of Accident Tolerant Fuels with Increased Enrichment and Higher Burnup Levels" is available in ADAMS under Accession No. ML24207A210.

**FOR FURTHER INFORMATION CONTACT:** Donald Palmrose, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001; telephone: 301-415-3803; email: [Donald.Palmrose@nrc.gov](mailto:Donald.Palmrose@nrc.gov).

#### SUPPLEMENTARY INFORMATION:

##### I. Discussion

To support efficient and effective licensing reviews of new ATFs and to reduce the need for a complex site-specific environmental review for each ATF license amendment request, this study evaluated the likely impacts of near-term ATF technologies with increased enrichment and higher burnup levels on the uranium fuel cycle, transportation of fuel and waste, and decommissioning for LWRs (*i.e.*, a bounding analysis). Near-term first-generation ATF technologies are coated cladding and doped pellets; a second-generation ATF technology is iron-chrome-aluminum (FeCrAl) cladding. Long-term ATF technologies are not a part of this study. The NRC staff evaluated the impact of increased

enrichment and higher burnup levels by assessing and applying NRC-sponsored ATF technology reports, prior environmental reviews, transportation studies, and new or updated data sources to determine the bounding (generic) environmental impacts of deploying ATF technologies with increased enrichment and higher burnup levels in LWRs.

Based on findings in this study, the NRC staff concludes, with regard to near-term first- or second-generation ATF technologies (*i.e.*, coated cladding, doping, and FeCrAl cladding), the environmental effects associated with deploying and using ATF would be bounded by the NRC staff's prior analyses. With regard to the uranium fuel cycle and decommissioning, Table S-3, paragraph 51.51(b) of title 10 of the *Code of Federal Regulations* (10 CFR), NUREG-2157, "Generic Environmental Impact Statement for Continued Storage of Spent Nuclear Fuel," and NUREG-0586, "Generic Environmental Impact Statement on Decommissioning of Nuclear Facilities, Supplement 1" bound enrichments up to 10 wt% U-235 enrichment and assembly averaged burnup up to 80 GWd/MTU. For the transportation of ATF with increased enrichment and higher burnup levels, environmental impacts of Table S-4 of 10 CFR 51.52(c) are bounding for environmental impacts up to 8 wt% U-235 and assembly averaged burnup up to 80 GWd/MTU. Additionally, if in a future licensing action where the enrichment and burnup levels are greater than the previously mentioned values, an applicant can apply the methodology and guidance of NUREG-2266 for completing the needed revised analysis for the higher enrichment and burnup levels.

The NRC staff continues to prepare to review license applications related to ATF technologies and fuel with increased enrichment and higher burnup levels. Once such licensing applications are submitted after the final publication of NUREG-2266, the NRC staff will, as appropriate, evaluate new industry developments and other subsequent ATF activities using this NUREG as the environmental baseline for considering further refinements of the ATF environmental evaluation that those licensing actions may require.

##### II. Additional Information

The NRC published a notice in the **Federal Register** on September 1, 2023, (88 FR 60507) requesting public comment on draft NUREG-2266, "Environmental Evaluation of Accident Tolerant Fuels with Increased Enrichment and Higher Burnup Levels."

The comment period closed on October 31, 2023. Two members of the public and two organizations provided comments on the draft NUREG–2266. Appendix F of the final NUREG–2266 presents the comments received on the draft NUREG–2266, with responses to the comments and indicates whether and where the final NUREG–2266 was revised as a result of a comment. Other text revisions were made for additional clarity. All changes based on public comments are noted with an associated margin mark.

### III. Congressional Review Act

This NUREG–2266, “Environmental Evaluation of Accident Tolerant Fuels with Increased Enrichment and Higher Burnup Levels,” 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.

### IV. Backfitting, Forward Fitting, and Issue Finality

The NRC’s issuance and use of this report does not constitute backfitting as that term is defined in 10 CFR 50.109, 70.76, and 72.62, “Backfitting,” and as described in NRC Management Directive (MD) 8.4, “Management of Backfitting, Forward Fitting, Issue Finality, and Information Requests”; does not affect the issue finality of an approval under 10 CFR part 52, “Licenses, Certifications, and Approvals for Nuclear Power Plants” and does not constitute forward fitting as that term is defined and described in MD 8.4.

Dated: July 31, 2024.

For the Nuclear Regulatory Commission.

**Christopher M. Regan,**

*Director, Division of Rulemaking, Environmental, and Financial Support, Office of Nuclear Material Safety, and Safeguards.*

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## NUCLEAR REGULATORY COMMISSION

[NRC–2024–0133]

### Monthly Notice; Applications and Amendments to Facility Operating Licenses and Combined Licenses Involving No Significant Hazards Considerations

**AGENCY:** Nuclear Regulatory Commission.

**ACTION:** Monthly notice.

**SUMMARY:** Pursuant to section 189a.(2) of the Atomic Energy Act of 1954, as amended (the Act), the U.S. Nuclear

Regulatory Commission (NRC) is publishing this regular monthly notice. The Act requires the Commission to publish notice of any amendments issued, or proposed to be issued, and grants the Commission the authority to issue and make immediately effective any amendment to an operating license or combined license, as applicable, upon a determination by the Commission that such amendment involves no significant hazards consideration (NSHC), notwithstanding the pendency before the Commission of a request for a hearing from any person.

**DATES:** Comments must be filed by September 5, 2024. A request for a hearing or petitions for leave to intervene must be filed by October 7, 2024. This monthly notice includes all amendments issued, or proposed to be issued, from June 21, 2024, to July 18, 2024. The last monthly notice was published on July 9, 2024.

**ADDRESSES:** You may submit comments by any of the following methods; however, the NRC encourages electronic comment submission through the Federal rulemaking website.

- *Federal rulemaking website:* Go to <https://www.regulations.gov> and search for Docket ID NRC–2024–0133. Address questions about Docket IDs in *Regulations.gov* to Stacy Schumann; telephone: 301–415–0624; email: [Stacy.Schumann@nrc.gov](mailto:Stacy.Schumann@nrc.gov). For technical questions, contact the individual listed in the **FOR FURTHER INFORMATION CONTACT** section of this document.

- *Mail comments to:* Office of Administration, Mail Stop: TWFN–7–A60M, U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001, ATTN: Program Management, Announcements and Editing Staff.

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:

Paula Blechman, Office of Nuclear Reactor Regulation, U.S. Nuclear Regulatory Commission, Washington, DC 20555–0001, telephone: 301–415–2242; email: [Paula.Blechman@nrc.gov](mailto:Paula.Blechman@nrc.gov).

#### SUPPLEMENTARY INFORMATION:

##### I. Obtaining Information and Submitting Comments

###### A. Obtaining Information

Please refer to Docket ID NRC–2024–0133, facility name, unit number(s), docket number(s), application date, and subject 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 <https://www.regulations.gov> and search for Docket ID NRC–2024–0133.

- *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, at 301–415–4737, or by email to [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov). The ADAMS accession number for each document referenced (if it is available in ADAMS) is provided the first time that it is mentioned in this document.

- *NRC’s PDR:* The PDR, where you may examine and order copies of publicly available documents, is open by appointment. To make an appointment to visit the PDR, please send an email to [PDR.Resource@nrc.gov](mailto:PDR.Resource@nrc.gov) or call 1–800–397–4209 or 301–415–4737, between 8 a.m. and 4 p.m. eastern time (ET), Monday through Friday, except Federal holidays.

###### B. Submitting Comments

The NRC encourages electronic comment submission through the Federal rulemaking website (<https://www.regulations.gov>). Please include Docket ID NRC–2024–0133, facility name, unit number(s), docket number(s), application date, and subject, 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 will post all comment submissions at <https://www.regulations.gov> as well as enter 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 into ADAMS.