



NUCLEAR REGULATORY COMMISSION

[Docket No. 70-7045; NRC-2026-3598]

Radiant Nuclear, LLC; Radiant's Special Nuclear Material License; License Application

AGENCY: Nuclear Regulatory Commission.

ACTION: Opportunity to request a hearing and to petition for leave to intervene; order imposing procedures.

SUMMARY: The U.S. Nuclear Regulatory Commission (NRC) received a license application, by letters dated February 25, 2026, March 15, 2026, and April 17, 2026, from Radiant Nuclear, LLC (Radiant) to possess special nuclear material at its R-50 microreactor facility, to be located in Oak Ridge, Tennessee. Radiant requests a special nuclear material license to possess fuel, consisting of coated uranium particles enriched to less than 20 weight percent uranium-235 (U-235), and load the fuel into assemblies intended for use in commercial microreactors. Because the license application contains Sensitive Unclassified Non-Safeguards Information (SUNSI), an order imposes procedures to obtain access to SUNSI for contention preparation.

DATES: A request for a hearing or petition for leave to intervene must be filed by **[INSERT DATE 60 DAYS AFTER PUBLICATION IN THE *FEDERAL REGISTER*]**. Any potential party as defined in Section 2.4 of title 10 of the *Code of Federal Regulations* (10 CFR) who believes access to SUNSI is necessary to respond to this notice must request document access by **[INSERT DATE 10 DAYS AFTER DATE OF PUBLICATION IN THE *FEDERAL REGISTER*]**.

ADDRESSES: Please refer to Docket ID NRC-2026-3598 when contacting the NRC about the availability of information regarding this action. 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 NRC-2026-3598. Address questions about Docket IDs in Regulations.gov to

Bridget Curran; telephone: 301-415-1003; email: Bridget.Curran@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 ADAMS Public 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. For the convenience of the reader, instructions about obtaining materials referenced in this document are provided in the “Availability of Documents” section.

- **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 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.

FOR FURTHER INFORMATION CONTACT: James Downs, Office of Nuclear Material Safety and Safeguards, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, telephone: 301-415-7744; email: James.Downs@nrc.gov.

SUPPLEMENTARY INFORMATION:

I. Introduction

Radiant notified the NRC, by a regulatory engagement plan dated October 13, 2023, of its intent to submit an application for a specific license under 10 CFR part 70, “Domestic Licensing of Special Nuclear Material,” for the possession of special nuclear material at its R-50 microreactor facility, to be located in Oak Ridge, Tennessee. The regulatory engagement plan also outlined Radiant’s plans to request

additional licenses from the NRC to address the manufacturing, transportation, and commercial use of the microreactors produced at the R-50 facility.

Prior to submission of the application, Radiant submitted a gap analysis for 10 CFR part 70 dated April 24, 2024. The gap analysis was used to inform the licensing framework for the application necessary to request licensing of the special nuclear material needed to fuel the microreactors that Radiant plans to manufacture. The NRC staff provided feedback on the gap analysis for 10 CFR part 70 by letter dated October 4, 2024.

Radiant submitted the license application under 10 CFR part 70 by letter dated February 25, 2026. The license application was supplemented by letters dated March 15, 2026, and April 17, 2026. The license application was accepted for a detailed technical review on May 1, 2026.

Radiant plans to locate a microreactor manufacturing facility in Oak Ridge, Roane County, Tennessee. The proposed facility will encompass approximately 84 acres (ac.) (34 hectares (ha)). The construction associated with the license application under 10 CFR part 70 is limited to the Fueling Building, which will house the licensed special nuclear material and contain the operation to load fuel into the assemblies that are intended for use in microreactors. Section 1.2 of the environmental report provides additional details regarding the proposed action.

The scope of Radiant's license application under 10 CFR part 70 is limited to the receipt, storage, and handling of unirradiated SNM (enriched uranium with less than 20 wt% U-235) in the form of uranium ceramic kernels, contained within coated tri-structural isotropic particles that have been pressed into cylindrical fuel compacts. The project includes construction and operation of specific processes within the Fueling Building. Handling activities include the assembly of reactor fuel assemblies, and the license application discusses the proposed support functions to perform those activities safely. No fuel manufacturing (e.g., grinding, cutting, chemical conversion) will occur at Radiant's site under the scope of the license application under 10 CFR part 70. Loading

the fueled assemblies into the core of a microreactor is not within the scope of the current license application under 10 CFR part 70.

Prior to a decision on the proposed action, the NRC will make the findings required by the Atomic Energy Act of 1954 as amended (the Act), and the NRC's regulations. The NRC's findings will be documented in a safety evaluation report. Additionally, in accordance with the National Environmental Policy Act of 1969, the NRC will prepare an environmental assessment (EA). The EA will be the subject of other notices in the *Federal Register*. The NRC's license determination is scheduled to be completed by December 18, 2026. The NRC staff may grant an initial license term of up to 10 years of operations. Radiant plans to commence operations in early-2027.

II. Availability of Documents

The documents identified in the following table are available to interested persons through ADAMS.

DOCUMENT DESCRIPTION	ADAMS ACCESSION NO.
Radiant's Pre-Application Regulatory Engagement Plan, dated October 13, 2023	ML23286A328
Radiant's 10 CFR Part 70 Gap Analysis, dated April 24, 2024	ML24115A321
NRC's Feedback on Radiant's 10 CFR part 70 Gap Analysis, dated October 4, 2024	ML24262A066
Radiant's Initial License Application, dated February 25, 2026 1. Cover letter 2. Proposed License Conditions and Exemptions (Proprietary) 3. Safety Analysis Report (Proprietary) 4. Foreign Ownership, Control or Domination (Proprietary) 5. Environmental Report 6. Material Control and Accounting Plan (Proprietary) 7. Physical Security Plan (Proprietary) 8. Safety Summary (Proprietary) 9. NRC Form 313 10. NRC Form 313 Attachment (Proprietary) 11. Criticality Validation (Proprietary)	ML26058A374 (package) 1. ML26058A375 2. ML26058A376 (non-public, withheld pursuant to 10 CFR 2.390) 3. ML26058A377 (non-public, withheld pursuant to 10 CFR 2.390) 4. ML26058A378 (non-public, withheld pursuant to 10 CFR 2.390) 5. ML26058A379 6. ML26058A380 (non-public, withheld pursuant to 10 CFR 2.390) 7. ML26058A381 (non-public, withheld pursuant to 10 CFR 2.390) 8. ML26058A382 (non-public, withheld pursuant to 10 CFR 2.390) 9. ML26058A383 10. ML26058A384 (non-public, withheld pursuant to 10 CFR 2.390) 11. ML26058A385 (non-public, withheld

12. Affidavit Supporting Request for Withholding from Public Disclosure 10 CFR 2.390 13. Basis for expedited NRC Review (Proprietary) 14. Basis for Radiant CAAS Exemption (Proprietary)	pursuant to 10 CFR 2.390) 12. ML26058A386 13. ML26058A387 (non-public, withheld pursuant to 10 CFR 2.390) 14. ML26058A388 (non-public, withheld pursuant to 10 CFR 2.390)
Radiant's Supplement to License Application, dated March 15, 2026 1. Cover letter 2. Affidavit Supporting Request for Withholding from Public Disclosure 10 CFR 2.390 3. Physical Security Plan (Proprietary)	ML26074A001 (package) 1. ML26074A002 2. ML26074A003 3. ML26074A004 (non-public, withheld pursuant to 10 CFR 2.390)
NRC's Request for Supplemental Information, dated April 1, 2026 1. Cover letter 2. Enclosure 1 (Security-Related) 3. Supplemental Concurrence Document	ML26085A233 (package) 1. ML26085A468 2. ML26085A469 (non-public, withheld pursuant to 10 CFR 2.390) 3. ML26085A472 (non-public, withheld pursuant to 10 CFR 2.390)
Radiant's Response to NRC's Request for Supplemental Information, dated April 17, 2026 1. Cover letter 2. Affidavit for Withholding from Public Disclosure 10 CFR 2.390 3. Radiant's response to the Request for Supplemental Information (Proprietary) 4. Safety Analysis Report Chapters 2 and 5 (Proprietary) 5. Safety Summary Revision 1 (Proprietary)	ML26107A168 (package) 1. ML26107A169 2. ML26110A219 3. ML26107A171 (non-public, withheld pursuant to 10 CFR 2.390) 4. ML26107A172 (non-public, withheld pursuant to 10 CFR 2.390) 5. ML26107A173 (non-public, withheld pursuant to 10 CFR 2.390)
NRC's Acceptance of Radiant's License Application, dated May 1, 2026 1. Cover letter 2. Observations (Security-Related) 3. Supplemental Concurrence Document	ML26111A377 (package) 1. ML26112A019 2. ML26112A017 (non-public, withheld pursuant to 10 CFR 2.390) 3. ML26112A018 (non-public, withheld pursuant to 10 CFR 2.390)
Content of Petition to Intervene	ML20340A053
Guidance for Electronic Submissions to the NRC	ML13031A056

III. Opportunity to Request a Hearing and Petition for Leave to Intervene

Within 60 days after the date of publication of this notice, any person (petitioner) whose interest may be affected by this action may file a request for a hearing and petition for leave to intervene (petition) with respect to the action. Petitions shall be filed

in accordance with the Commission's "Agency Rules of Practice and Procedure" in 10 CFR part 2. Interested persons should consult 10 CFR 2.309. If a petition is filed, the presiding officer will rule on the petition and, if appropriate, a notice of a hearing will be issued.

Petitions must be filed no later than 60 days from the date of publication of this notice in accordance with the filing instructions in the "Electronic Submissions (E-Filing)" section of this document. Petitions and motions for leave to file new or amended contentions that are filed after the deadline will not be entertained absent a determination by the presiding officer that the filing demonstrates good cause by satisfying the three factors in 10 CFR 2.309(c)(1)(i) through (iii).

A State, local governmental body, Federally recognized Indian Tribe, or designated agency thereof, may submit a petition to the Commission to participate as a party under 10 CFR 2.309(h) no later than 60 days from the date of publication of this notice. Alternatively, a State, local governmental body, Federally recognized Indian Tribe, or designated agency thereof, may participate as a non-party under 10 CFR 2.315(c).

For information about filing a petition and about participation by a person not a party under 10 CFR 2.315 see ADAMS Accession No. ML20340A053 and on the NRC's public website (<https://www.nrc.gov/about-nrc/regulatory/adjudicatory/hearing.html#participate>).

IV. Electronic Submissions (E-Filing)

All documents filed in NRC adjudicatory proceedings including documents filed by an interested State, local governmental body, Federally recognized Indian Tribe, or designated agency thereof that requests to participate under 10 CFR 2.315(c), must be filed in accordance with 10 CFR 2.302. The E-Filing process requires participants to submit and serve all adjudicatory documents over the internet, or in some cases, to mail copies on electronic storage media, unless an exemption permitting an alternative filing method, as further discussed, is granted. Detailed guidance on electronic submissions is

located in the “Guidance for Electronic Submissions to the NRC” (ADAMS Accession No. ML13031A056) and on the NRC’s public website (<https://www.nrc.gov/site-help/e-submittals.html>).

To comply with the procedural requirements of E-Filing, at least 10 days prior to the filing deadline, the participant should contact the Office of the Secretary by email at Hearing.Docket@nrc.gov, or by telephone at 301-415-1677, to (1) request a digital identification (ID) certificate, which allows the participant (or its counsel or representative) to digitally sign submissions and access the E-Filing system for any proceeding in which it is participating; and (2) advise the Secretary that the participant will be submitting a petition or other adjudicatory document (even in instances in which the participant, or its counsel or representative, already holds an NRC-issued digital ID certificate). Based upon this information, the Secretary will establish an electronic docket for the proceeding if the Secretary has not already established an electronic docket.

Information about applying for a digital ID certificate is available on the NRC’s public website (<https://www.nrc.gov/site-help/e-submittals/getting-started.html>). After a digital ID certificate is obtained and a docket created, the participant must submit adjudicatory documents in Portable Document Format. Guidance on submissions is available on the NRC’s public website (<https://www.nrc.gov/site-help/electronic-sub-ref-mat.html>). A filing is considered complete at the time the document is submitted through the NRC’s E-Filing system. To be timely, an electronic filing must be submitted to the E-Filing system no later than 11:59 p.m. ET on the due date. Upon receipt of a transmission, the E-Filing system time-stamps the document and sends the submitter an email confirming receipt of the document. The E-Filing system also distributes an email that provides access to the document to the NRC’s Office of the General Counsel and any others who have advised the Office of the Secretary that they wish to participate in the proceeding, so that the filer need not serve the document on those participants separately. Therefore, applicants and other participants (or their counsel or representative) must apply for and receive a digital ID certificate before adjudicatory

documents are filed to obtain access to the documents via the E-Filing system.

A person filing electronically using the NRC's adjudicatory E-Filing system may seek assistance by contacting the NRC's Electronic Filing Help Desk through the "Contact Us" link located on the NRC's public website (<https://www.nrc.gov/site-help/e-submittals.html>), by email to MSHD.Resource@nrc.gov, or by a toll-free call at 1-866-672-7640. The NRC Electronic Filing Help Desk is available between 9 a.m. and 6 p.m., ET, Monday through Friday, except Federal holidays.

Participants who believe that they have good cause for not submitting documents electronically must file an exemption request, in accordance with 10 CFR 2.302(g), with their initial paper filing stating why there is good cause for not filing electronically and requesting authorization to continue to submit documents in paper format. Such filings must be submitted in accordance with 10 CFR 2.302(b)-(d). Participants filing adjudicatory documents in this manner are responsible for serving their documents on all other participants. Participants granted an exemption under 10 CFR 2.302(g)(2) must still meet the electronic formatting requirement in 10 CFR 2.302(g)(1), unless the participant also seeks and is granted an exemption from 10 CFR 2.302(g)(1).

Documents submitted in adjudicatory proceedings will appear in the NRC's electronic hearing docket, which is publicly available on the NRC's public website (<https://ehd.nrc.gov>), unless otherwise excluded pursuant to an order of the presiding officer. If you do not have an NRC-issued digital ID certificate as previously described, click "cancel" when the link requests certificates and you will be automatically directed to the NRC's electronic hearing docket where you will be able to access any publicly available documents in a particular hearing docket. Participants are requested not to include personal privacy information such as social security numbers, home addresses, or personal phone numbers in their filings unless an NRC regulation or other law requires submission of such information. With respect to copyrighted works, except for limited excerpts that serve the purpose of the adjudicatory filings and would constitute a Fair Use application, participants should not include copyrighted materials in their

submission.

**Order Imposing Procedures for Access to Sensitive Unclassified Non-Safeguards
Information and Safeguards Information for Contention Preparation**

A. This Order contains instructions regarding how potential parties to this proceeding may request access to documents containing Sensitive Unclassified Non-Safeguards Information (SUNSI).

B. Within 10 days after publication of this notice of hearing or opportunity for hearing, any potential party who believes access to SUNSI is necessary to respond to this notice may request access to SUNSI. A “potential party” is any person who intends to participate as a party by demonstrating standing and filing an admissible contention under 10 CFR 2.309. Requests for access to SUNSI submitted later than 10 days after publication of this notice will not be considered absent a showing of good cause for the late filing, addressing why the request could not have been filed earlier.

C. The requestor shall submit a letter requesting permission to access SUNSI to the Office of the Secretary, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, Attention: Rulemakings and Adjudications Staff, and provide a copy to the Deputy General Counsel for Licensing, Hearings, and Enforcement, Office of the General Counsel, U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001. The expedited delivery or courier mail address for both offices is: U.S. Nuclear Regulatory Commission, 11555 Rockville Pike, Rockville, Maryland 20852. The email addresses for the Office of the Secretary and the Office of the General Counsel are Hearing.Docket@nrc.gov and RidsOgcMailCenter.Resource@nrc.gov, respectively.¹ The request must include the following information:

(1) A description of the licensing action with a citation to this *Federal Register* notice;

¹ While a request for hearing or petition to intervene in this proceeding must comply with the filing requirements of the NRC’s “E-Filing Rule,” the initial request to access SUNSI under these procedures should be submitted as described in this paragraph.

(2) The name and address of the potential party and a description of the potential party's particularized interest that could be harmed by the action identified in C.(1); and

(3) The identity of the individual or entity requesting access to SUNSI and the requestor's basis for the need for the information in order to meaningfully participate in this adjudicatory proceeding. In particular, the request must explain why publicly available versions of the information requested would not be sufficient to provide the basis and specificity for a proffered contention.

D. Based on an evaluation of the information submitted under paragraphs C, the NRC staff will determine within 10 days of receipt of the request whether:

(1) There is a reasonable basis to believe the petitioner is likely to establish standing to participate in this NRC proceeding; and

(2) The requestor has established a legitimate need for access to SUNSI.

E. If the NRC staff determines that the requestor satisfies both D.(1) and D.(2), the NRC staff will notify the requestor in writing that access to SUNSI has been granted. The written notification will contain instructions on how the requestor may obtain copies of the requested documents, and any other conditions that may apply to access to those documents. These conditions may include, but are not limited to, the signing of a Non-Disclosure Agreement or Affidavit, or Protective Order², setting forth terms and conditions to prevent the unauthorized or inadvertent disclosure of SUNSI by each individual who will be granted access to SUNSI.

F. Filing of Contentions. Any contentions in these proceedings that are based upon the information received as a result of the request made for SUNSI must be filed by the requestor no later than 25 days after receipt of (or access to) that information. 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

² Any motion for Protective Order or proposed Non-Disclosure Affidavit or Agreement for SUNSI must be filed with the presiding officer or the Chief Administrative Judge if the presiding officer has not yet been designated, within 30 days of the deadline for the receipt of the written access request.

notice of hearing or opportunity for hearing), the petitioner may file its SUNSI contentions by that later deadline.

G. Review of Denials of Access.

(1) If the request for access to SUNSI is denied by the NRC staff after a determination on standing and requisite need, the NRC staff shall immediately notify the requestor in writing, briefly stating the reason or reasons for the denial.

(2) The requestor may challenge the NRC staff's adverse determination by filing a challenge within 5 days of receipt of that determination with: (a) the presiding officer designated in this proceeding; (b) if no presiding officer has been appointed, the Chief Administrative Judge, or if this individual is unavailable, another administrative judge, or an Administrative Law Judge with jurisdiction pursuant to 10 CFR 2.318(a); or (c) if another officer has been designated to rule on information access issues, with that officer.

(3) Further appeals of decisions under this paragraph must be made pursuant to 10 CFR 2.311.

H. Review of Grants of Access. A party other than the requestor may challenge an NRC staff determination granting access to SUNSI whose release would harm that party's interest independent of the proceeding. Such a challenge must be filed within 5 days of the notification by the NRC staff of its grant of access and must be filed with: (a) the presiding officer designated in this proceeding; (b) if no presiding officer has been appointed, the Chief Administrative Judge, or if this individual is unavailable, another administrative judge, or an Administrative Law Judge with jurisdiction pursuant to 10 CFR 2.318(a); or (c) if another officer has been designated to rule on information access issues, with that officer.

If challenges to the NRC staff determinations are filed, these procedures give way to the normal process for litigating disputes concerning access to information. The availability of interlocutory review by the Commission of orders ruling on such NRC staff

determinations (whether granting or denying access) is governed by 10 CFR 2.311.³

I. The Commission expects that the NRC staff and presiding officers (and any other reviewing officers) will consider and resolve requests for access to SUNSI, and motions for protective orders, in a timely fashion in order to minimize any unnecessary delays in identifying those petitioners who have standing and who have propounded contentions meeting the specificity and basis requirements in 10 CFR Part 2. The attachment to this Order summarizes the general target schedule for processing and resolving requests under these procedures.

IT IS SO ORDERED.

Authority: 42 U.S.C. 2011 *et seq.*

Dated: July 23, 2026.

For the Nuclear Regulatory Commission.

Jody Martin,
Secretary of the Commission.

³ Requestors should note that the filing requirements of the NRC's E-Filing Rule (72 FR 49139; August 28, 2007, as amended at 77 FR 46562; August 3, 2012, 78 FR 34247, June 7, 2013) apply to appeals of NRC staff determinations (because they must be served on a presiding officer or the Commission, as applicable), but not to the initial SUNSI request submitted to the NRC staff under these procedures.

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 <i>Federal Register</i> notice of hearing or opportunity for hearing, including order with instructions for access requests.
10	Deadline for submitting requests for access to Sensitive Unclassified Non- Safeguards Information (SUNSI) with information: (i) supporting the standing of a potential party identified by name and address; and (ii) 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; and (ii) all contentions whose formulation does not require access to SUNSI (+25 Answers to petition for intervention; +7 requestor/petitioner reply).
20	U.S. 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 proposed Non-Disclosure Agreement or Affidavit. Deadline for applicant/licensee to file Non-Disclosure Agreement or Affidavit 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 Agreements or 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 opportunity to request a hearing and petition for leave to intervene), 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.

[FR Doc. 2026-15130 Filed: 7/24/2026 8:45 am; Publication Date: 7/27/2026]