

PUBLIC MEETING ANNOUNCEMENT

Title: Workshop: SCALE/MELCOR Non-Light Water Reactor (non-LWR) Source Term & Fuel Cycle Demonstration Project for a Microreactor

Date(s) and Time(s): March 26, 2025, 01:00 PM to 04:00 PM ET

Location: Teleconference

Category: This is an Information Meeting with a Question and Answer Session. The purpose of this meeting is for the NRC staff to meet directly with individuals to discuss regulatory and technical issues. Attendees will have an opportunity to ask questions of the NRC staff or make comments about the issues discussed throughout the meeting; however, the NRC is not actively soliciting comments towards regulatory decisions at this meeting.

Purpose: NRC is sponsoring public workshops on the SCALE/MELCOR non-LWR Source Term & Fuel Cycle Demonstration Projects. The workshops are part of the agency's efforts to prepare for safety reviews of non-LWR license applications. On March 26, 2025, from 1 – 4 P.M., the NRC will host a workshop for a heat pipe microreactor. The workshop will cover the use of NRC's neutronics (SCALE) and accident progression (MELCOR) computer codes for modeling key phenomena under normal and accident conditions.

The workshop will highlight the following topics:

- Overview of the reactor design
- Overview of the fuel cycle that covers enrichment and transportation of UF₆, fresh fuel manufacturing, spent fuel transportation and storage
- SCALE methods & results for core fission product inventory, reactivity feedback effects, criticality, shielding, and decay heat
- MELCOR methods & results for accident progression, radionuclide release, and transport

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Participants: NRC External
NRC Staff Industry Representatives
Oak Ridge National Lab
Sandia National Lab

Teleconference: Bridge Number Conference ID Pass Code
(301) 576-2978 N/A 951626170

Webinar: URL Meeting Number Password
https://teams.microsoft.com/l/meetup-join/19%3ameeting_Y2M1ZDAwZmYtMzVjNC00MDQxLWFjMDktYWQ4MTdkNTkzOWY5%40thread.v2/0?context=%7b%22id%22%3a%22e8d01475-c3b5-436a-a065-5def4c64f52e%22%2c%22oid%22%3a%22c06327e2-0a86-46ba-8b4a-4a49a8aadb54%22%7d N/A N/A

Comments: In addition to the webinar link provided, participants can alternatively call into the meeting

by using the following Microsoft Teams bridgeline and conference ID:
Bridgeline: 301-576-2978
Conference ID: 951 626 170#

For additional details, please call the NRC meeting contact listed on the NRC Public Meeting Schedule or call the NRC's toll-free number, 1-800-368-5642, and ask the operator to be connected to the meeting contact Lucas Kyriazidis.

If you need a reasonable accommodation due to a disability to participate in this meeting or need meeting materials in another format (e.g. braille, large print), please email Reasonable_Accommodations.Resource@nrc.gov. Determinations on requests for reasonable accommodation will be made on a case-by-case basis and the agency may choose between which effective accommodations to provide. At least ten (10) days advance notice is recommended in order for a request to be processed and implemented if approved. However, every effort will be made to address any reasonable accommodations requests received with less notice.

If you have difficulty understanding and/or communicating in English, free language assistance or other aids and services may be available, upon request. Please email lepresources@nrc.gov. Determinations on requests will be made on a case-by-case basis. At least ten (10) days advance notice is recommended in order for a request to be processed and implemented if approved. However, every effort will be made to address any reasonable accommodations requests received with less notice.

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Time	Topic	Speaker
1:00 - 1:10 pm	Introduction to Volume 3 & 5	NRC
1:10 - 1:20 pm	Overview of the Microreactor	NRC
1:20 - 1:30 pm	Overview of the Microreactor Fuel Cycle	NRC
1:30 - 2:30 pm	SCALE Approach and Results	Oak Ridge National Laboratory
2:30 - 2:40 pm	Break	All
2:40 - 3:40 pm	MELCOR Approach and Results	Sandia National Laboratories
3:40 - 4:00 pm	Questions & Answers	All

ADAMS Accession Number: ML25038A073

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Link to meeting details: <https://www.nrc.gov/pmns/mtg?do=details&Code=20250196>