

# Welcome from Director John Lubinski

John Lubinski  
*Director,  
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**National State Liaison Officer  
G2G Meeting 2025**

# **Transforming Materials Regulation**

**John Lubinski, Director  
Office of Nuclear Materials Safety and Safeguards (NMSS)  
U.S. Nuclear Regulatory Commission (NRC)**

**June 24, 2025  
2025 State Liaison Officer Government-to-Government Meeting**

# **ADVANCE Act**

**House Vote  
393-13**

**Senate Vote  
88-2**





# Transformative Legislation

- Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy Act of 2024 – or the ADVANCE Act – was signed into law on July 9, 2024.
- Fiscal Responsibility Act (FRA), signed in June 2023, made several overarching changes to the National Environmental Policy Act (NEPA).
- Executive Order 14300
- The NRC has been and will continue to reach out to the public to discuss the various initiatives that are taking place across the NRC.

# **What are some of the changes we implemented so far?**

- New NRC Mission Statement
- Environmental Review Changes
- Microreactors
- Executive Order 14300



# NRC Mission Statement

The NRC protects public health and safety and advances the nation's common defense and security by enabling the safe and secure use and deployment of civilian nuclear energy technologies and radioactive materials through efficient and reliable licensing, oversight, and regulation for the benefit of society and the environment.



**Element I – *The NRC protects the public health and safety and advances the nation's common defense and security...***

- North Star: Safety and Security
- Risk Inform Decision Making
- Credibility

**Element II - ... *by enabling safe and secure use and deployment of civilian nuclear energy and radioactive materials...***

- Timeliness
- Goal-driven
- Focus on great service among ourselves and with external stakeholders

**Element III - ... *through efficient and reliable licensing, oversight, and regulation...***

- Principles of Good Regulation
- Project management
- Performance management
- Organizational cohesion
- Clarity of expectations

**Element IV - ... *for the benefit of society and the environment.***

- Public service motivation
- Setting ambitious organizational goals
- Consider both what can go wrong and also what can go right in applying Be riskSMART
- Meaningful public engagement
- We are all responsible for our culture: promote desired behaviors and be a model for others
- Courageous and bold
- Leadership at all levels
- Mistake tolerance; continuous learning; from what we did well and what we did with our mistakes



# Environmental Reviews and FRA

- Reducing environmental review times and page counts of environmental documents, including:
  - addressing the scope of, the purpose and need for, and the evaluation of a reasonable range of alternatives to the proposed agency action
  - ensuring level of review is commensurate with level of potential environmental impact
  - developing procedures to allow applicants to prepare environmental documents
  - increasing use of technology throughout the review process
  - optimizing processes for consultations with other agencies
  - streamlining the administrative processes related to publishing environmental documents



# ADVANCE Act and Executive Orders

- On May 23, 2025, the President signed a series of executive orders aimed at revitalizing the U.S. nuclear energy sector, with a particular emphasis on microreactors and other advanced nuclear technologies.
  - EO 14300, “Ordering the Reform of the Nuclear Regulatory Commission.”
  - Approve new reactor licenses within 18 months and establish a process for high-volume licensing of microreactors and modular reactors
- The NRC is also coordinating its efforts to address these EOs with the actions that were already underway to implement the provisions of the ADVANCE Act, which was signed into law on July 9, 2024.
- Safety is our North Star.

# Microreactors

- NRC has actively been focusing on developing and implementing strategies and guidance to license and regulate microreactors in eight topical areas, including transportation. The NRC staff developed the Integrated Microreactor Activities Plan (ML25036A199), which is a comprehensive overview of microreactor licensing and deployment activities
- Consistent with the EO and the ADVANCE Act, the staff will explore any efficiencies that can be gained in the licensing process for near-term microreactor applications, including within the regulatory framework for transportation of radioactive materials.
- Staff will continue engaging with potential applicants, federal partners, and international counterparts to better prepare for the expected workload.

# Linear No-Threshold Model

- EO 14300 directs the NRC to reconsider how it uses the LNT model and ALARA.
- The NRC staff will engage with external stakeholders: power reactor licensees and new reactor applicants, professional societies, other government agencies, and the public.
  - NRC staff will consult with the DOE, DOD and EPA in developing its response.
- The NRC staff will evaluate the radiation protection regulatory framework to support innovation in the nuclear energy sector and promote clearer communication and more effective implementation of radiation protection standards.



# How to Follow Our Progress



Follow NRC's ADVANCE Act implementation with this Dashboard



# For Upcoming and Past Meetings



For NRC's public meeting  
information on ADVANCE Act

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## ADVANCE Act (Accelerating Deployment of Versatile, Advanced Nuclear for Clean Energy Act of 2024)



Public Meetings	Questions, Comments, or Ideas
<ul style="list-style-type: none"><li>Upcoming Meetings</li><li>Past Meetings</li></ul>	<ul style="list-style-type: none"><li>Contact Us about the ADVANCE Act</li></ul>

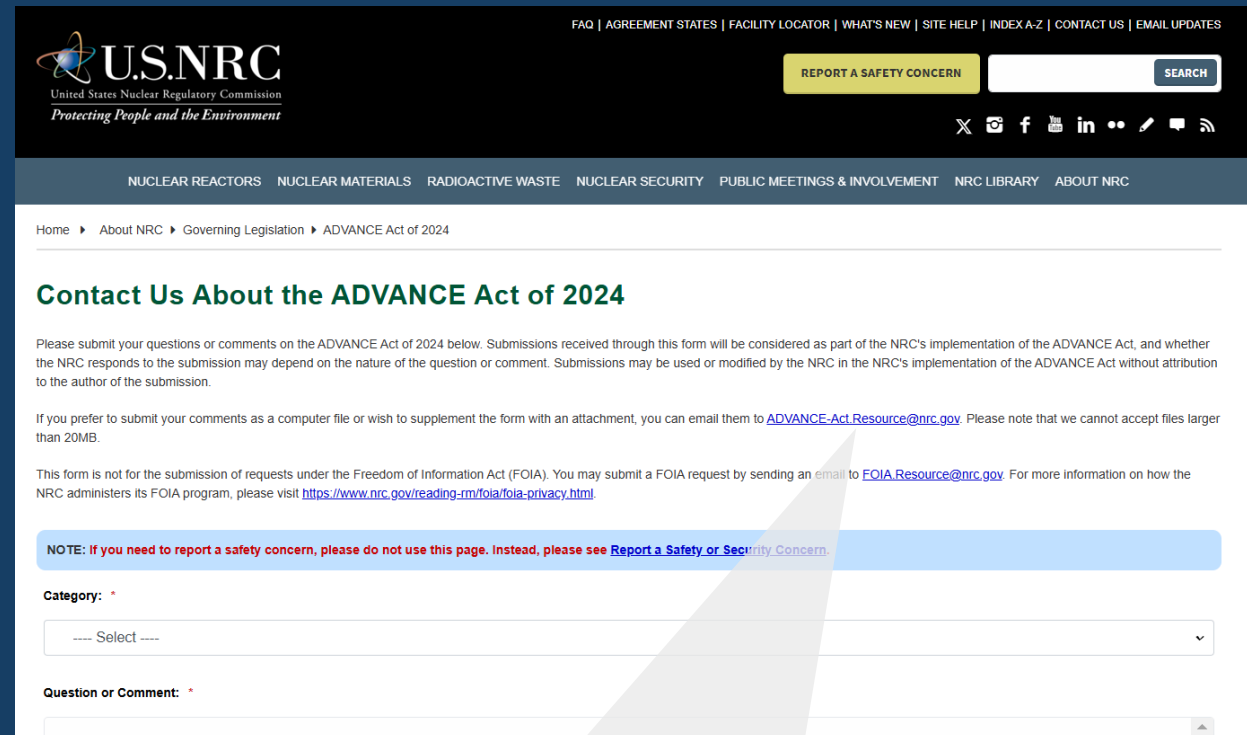
A large orange arrow points from the 'Upcoming Meetings' and 'Past Meetings' links in the 'Public Meetings' column to the 'Contact Us about the ADVANCE Act' link in the 'Questions, Comments, or Ideas' column.



# How to Ask Questions and Submit Ideas



Contact us with ADVANCE Act questions, comments, and ideas



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## Contact Us About the ADVANCE Act of 2024

Please submit your questions or comments on the ADVANCE Act of 2024 below. Submissions received through this form will be considered as part of the NRC's implementation of the ADVANCE Act, and whether the NRC responds to the submission may depend on the nature of the question or comment. Submissions may be used or modified by the NRC in the NRC's implementation of the ADVANCE Act without attribution to the author of the submission.

If you prefer to submit your comments as a computer file or wish to supplement the form with an attachment, you can email them to [ADVANCE-Act.Resource@nrc.gov](mailto:ADVANCE-Act.Resource@nrc.gov). Please note that we cannot accept files larger than 20MB.

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