



U.S. Nuclear Regulatory Commission  
**37<sup>th</sup> ANNUAL REGULATORY  
INFORMATION CONFERENCE**

\*This presentation does not represent the views of the NRC.

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[#nrcric2025](https://twitter.com/nrcric2025)

# **RIC 2025**

## ***CHARTING THE NEXT 50 YEARS***

**MARCH 11-13**  
**BETHESDA NORTH MARRIOTT  
HOTEL & CONFERENCE CENTER**

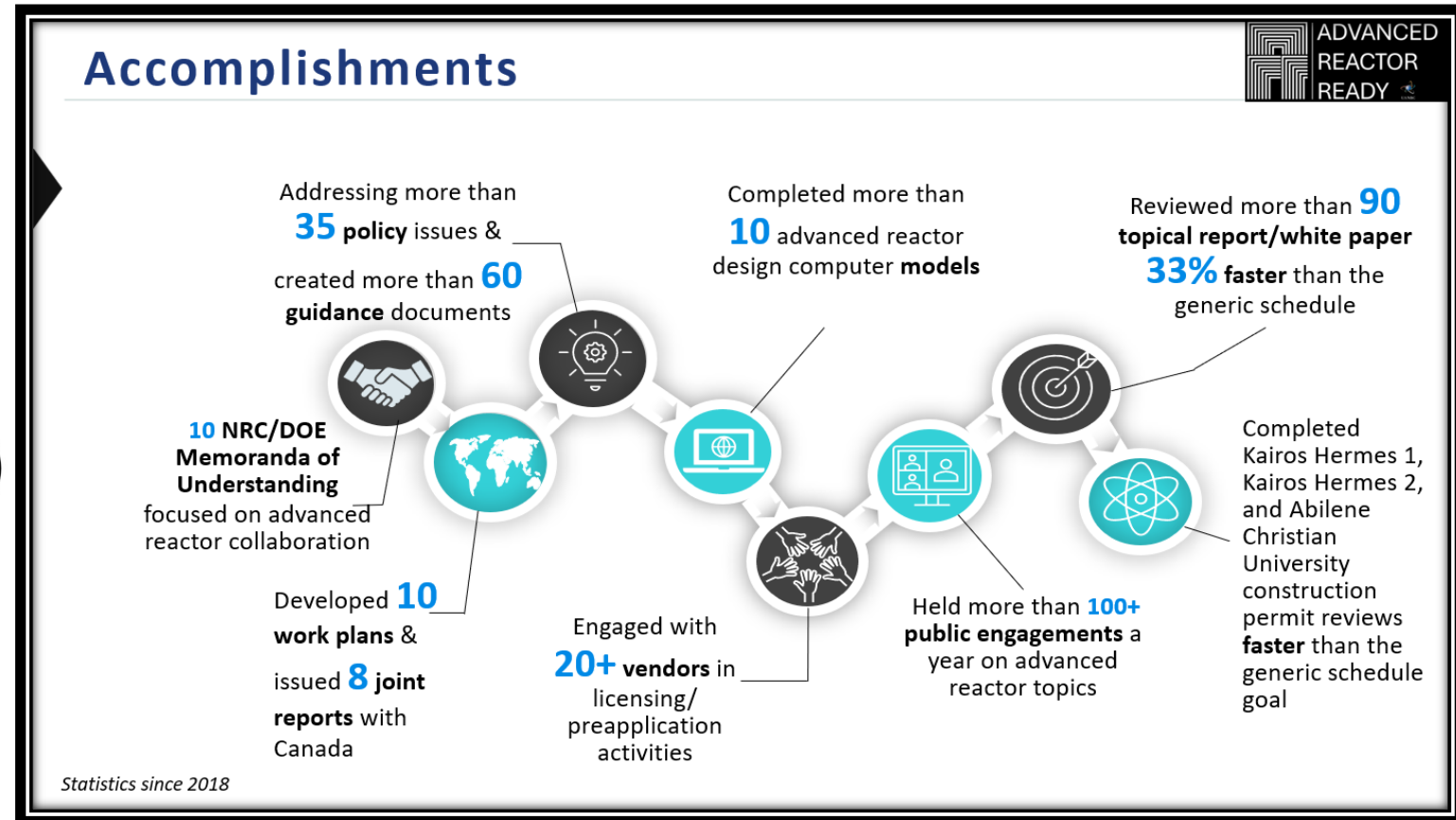


## The NRC Is Advanced Reactor Ready!

## Nuclear Reactor Regulation

### Vision and Strategy

This exhibit provides an overview of the status of advanced reactor licensing and regulatory infrastructure enhancements.





## Recent Activities and Accomplishments

- Construction permits issued for Kairos Hermes 1 and 2 and Abilene Christian University
- Completed public comment period for 10 CFR Part 53
- Released white paper on “Nth-of-a Kind Microreactor Licensing and Deployment Considerations” and held a dedicated public meeting for feedback
- Established strategy and project teams to implement the ADVANCE Act of 2024

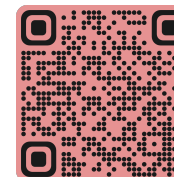


## Broad and Extensive Advanced Reactor Engagement Is Ongoing

### Construction Permit Application Issued

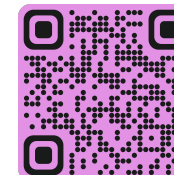


### Fuel Fabrication Review

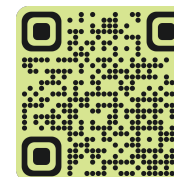


*Licensing Reviews  
(non-light-water reactor)*

### License Review in Progress



*Licensing Reviews (light-water  
reactor small modular reactor)*



*Fuel Fabrication Reviews*

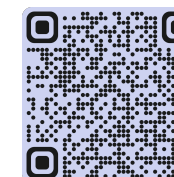
### Ongoing Preapplication Activities/Potential Applications



HITACHI



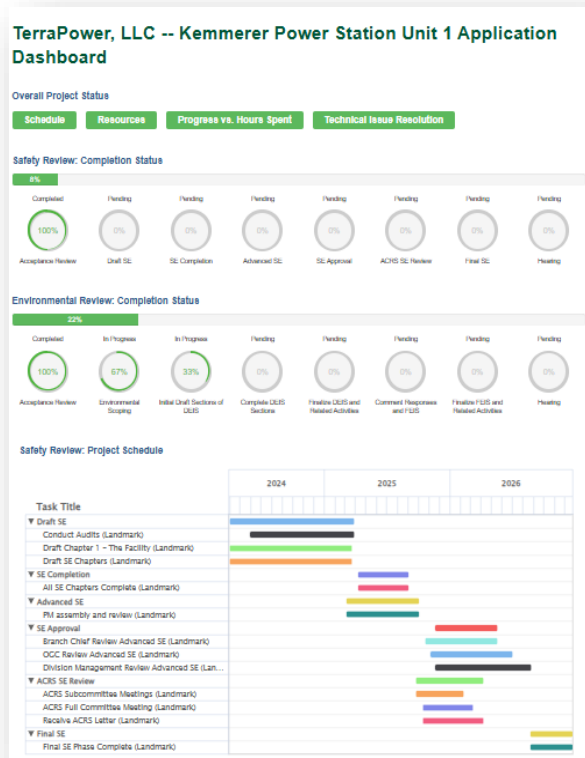
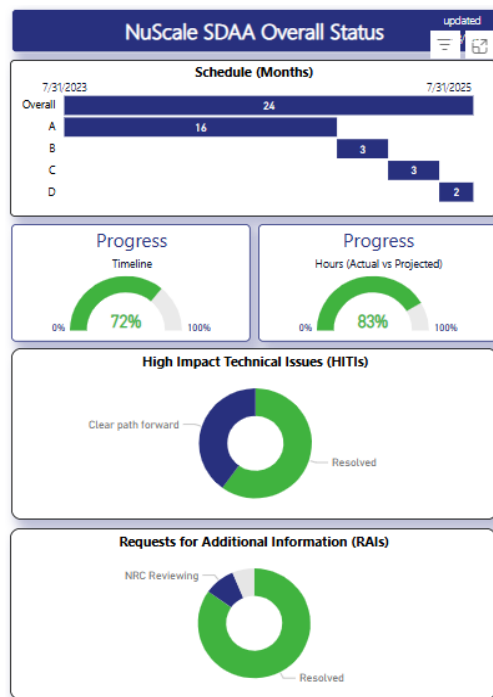
TERRESTRIAL  
ENERGY USA



*Preapplication Activities*



## We Prioritize Clear Communication and Efficient Execution



New Reactors Site



Kemmerer Unit 1 Dashboard



Advanced Reactor Stakeholders Site



Integrated Review Schedule Dashboard



*The NRC has prioritized public engagement for all advanced reactor activities. In addition to conducting over 100 public meetings per year, we have published numerous dashboards to provide further transparency on the staff's progress on licensing actions.*





## Developing Advanced Reactor Licensing Infrastructure

### 10 CFR Part 53—Risk-Informed, Technology-Inclusive Regulatory Framework for Advanced Reactors:



- The NRC proposes to establish an optional regulatory framework for use by applicants for new commercial advanced nuclear reactors.
- Key documents related to the 10 CFR Part 53 rulemaking can be found at Regulations.gov under Docket ID NRC-2019-0062.
- The NRC staff expects to provide the draft final rule package to the Commission by May 1, 2026.



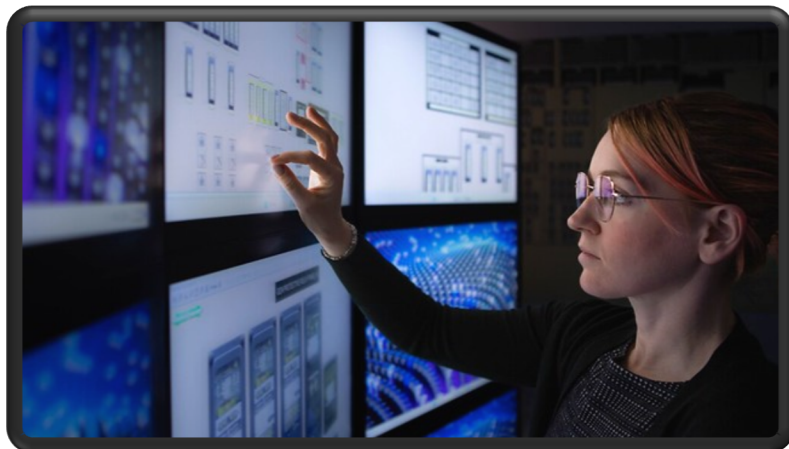
### New Nuclear Reactor Generic Environmental Impact Statement (NR GEIS):



- The NRC staff has prepared a proposed rule for the Generic Environmental Impact Statement for Licensing of New Nuclear Reactors, Draft NUREG-2249.
- The NRC staff uses the values and assumptions in a plant parameter envelope to evaluate a new nuclear reactor.
- The NRC staff changed the applicability of the NR GEIS to any new nuclear reactor licensing application.



## We Continue to Modernize Our Regulatory Framework



The NRC staff has created over 60 documents since 2018 to support modernizing our regulatory framework.



*Rulemaking and Guidance for  
Advanced Reactors*

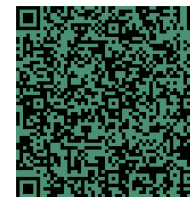
Innovative and Streamlined Licensing



ADVANCE ACT of 2024



Emergency Preparedness Rulemaking



Licensing Modernization Project



## Reference Documents and Contact Information

### Contact Information

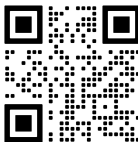
*Office of Public Affairs*

- [OPA.Resource@nrc.gov](mailto:OPA.Resource@nrc.gov)
- 301-415-8200

*Social media accounts (linked right)*

### Reference Documents

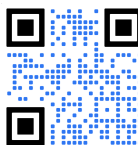
- NUREG/BR-0298: New Reactor Licensing Process (ML042120007)
- SECY-23-0022: 2023 Advanced Reactor Program Status (ML22353A284)
- SECY-23-0080: Environmental Review Approach for the Kairos Power, LLC, Hermes 2 Construction Permit Application (ML23214A165)
- Advanced Reactor Content of Application Project (ML23292A025)



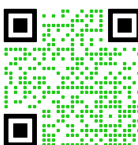
*NRC Instagram*



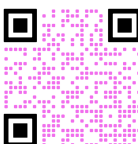
*NRC YouTube*



*NRC Facebook*



*NRC Email  
Updates (GovDelivery)*



*NRC Flickr Photostream*

