

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

U.S. Nuclear Regulatory Commission  
38<sup>th</sup> Annual Regulatory Information Conference

# RIC2026

Regulation, Innovation and  
Collaboration for a Safer Tomorrow

March 10-12, 2026

Bethesda North Marriott Hotel  
and Conference Center  
Rockville, MD

Advance Reactor Progress  
and Lessons Learned

#NRCRIC2026

NRC.gov



# Executing the NRC Mission for Advanced Reactors

The NRC is delivering on its commitment to enable safe deployment of advanced reactors.

- Executive Order (EO) 14300 response
- ADVANCE Act
- NEIMA requirements

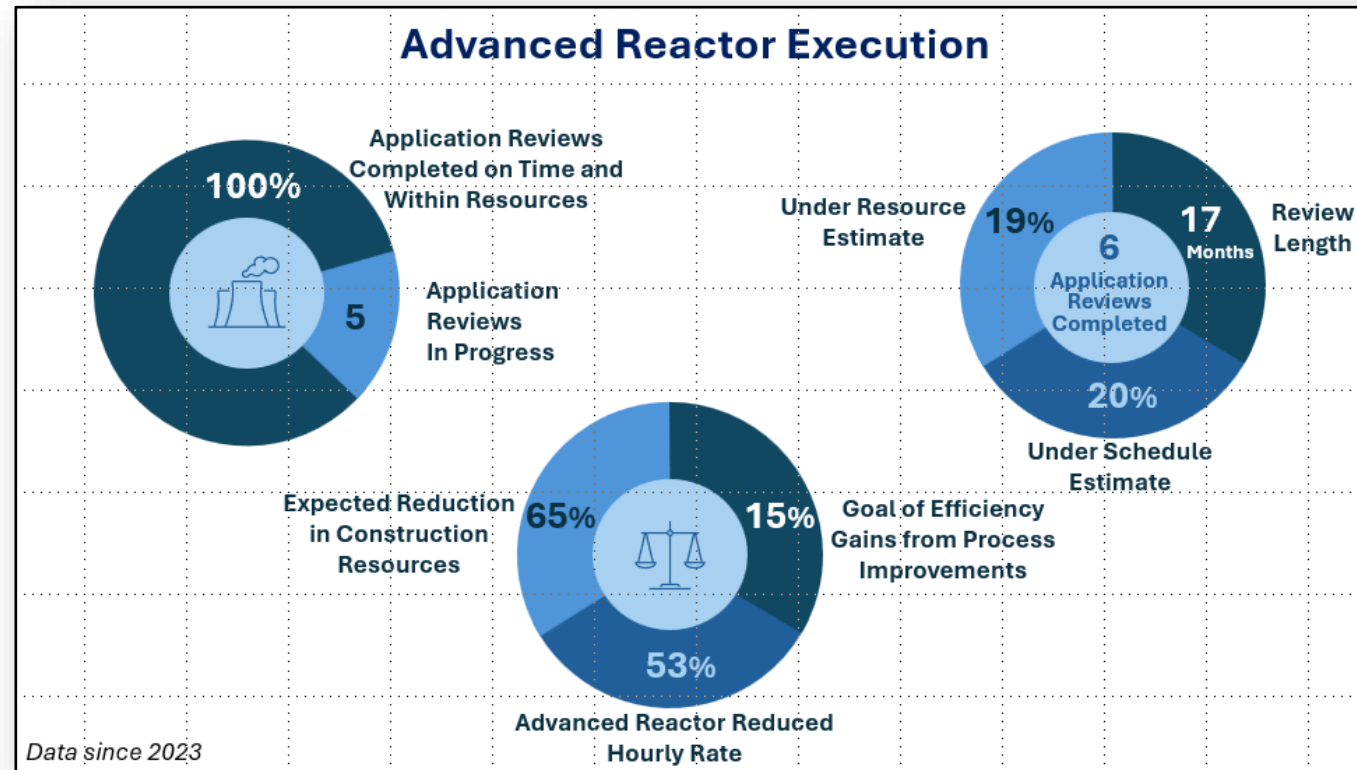
Regulatory Activities



Project Dashboards



Stakeholders Site



NEIMA Vision and Strategy



*Disclaimer: The content and views captured are those of the RIC participant and do not necessary represent the official view of the NRC.*

## Advanced Reactors Major Accomplishments

- Standard design approval for NuScale
- Final safety evaluation and final environmental impact statement for TerraPower
- SECY-25-0052, “Nth-of-a Kind Microreactor [NOAK] Licensing and Deployment Considerations”
- Reduced hourly rate for advanced reactors
- Non-Power Production or Utilization Facility License Renewal rule
- ADVANCE Act activities
- The Sunset Rule as a direct final rule
- SECY-25-0074, “Expedited Construction of Certain Structures, Systems, and Components”

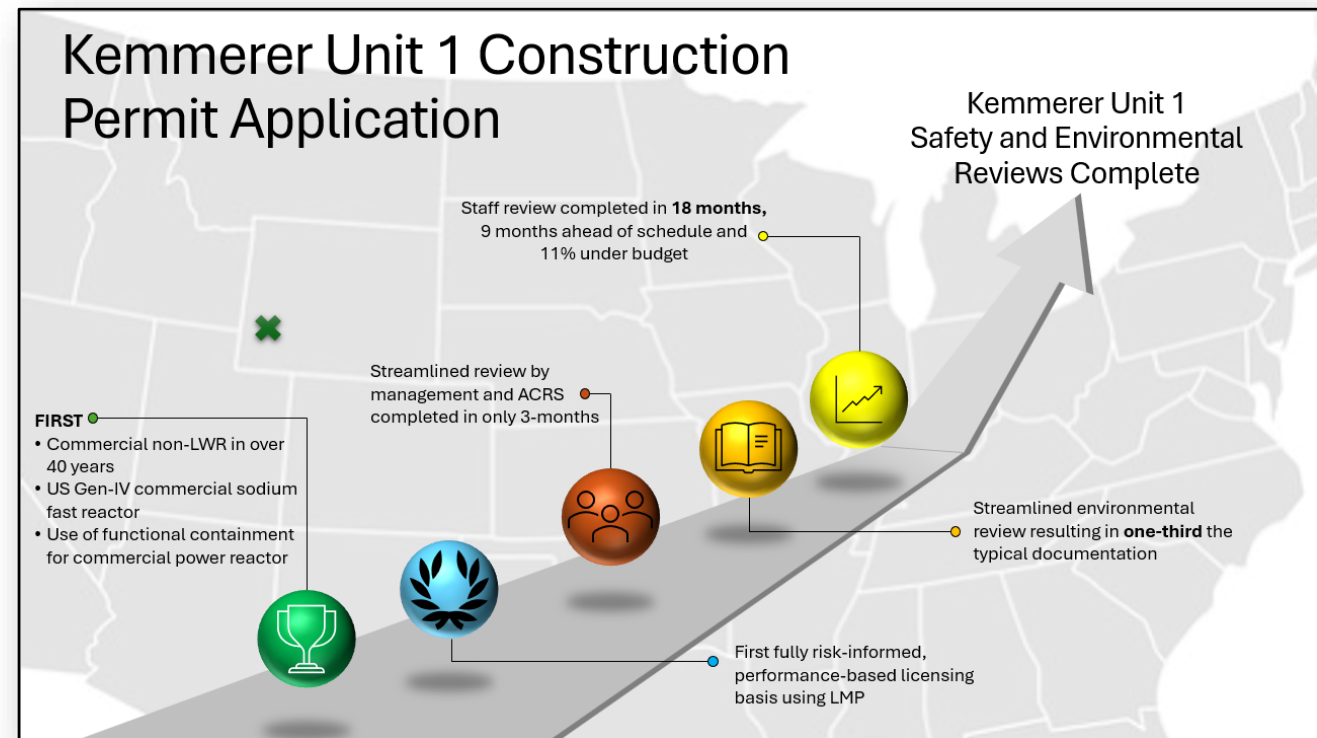


## The NRC Is Integrating **Lessons Learned** Across Advanced Reactor Applications

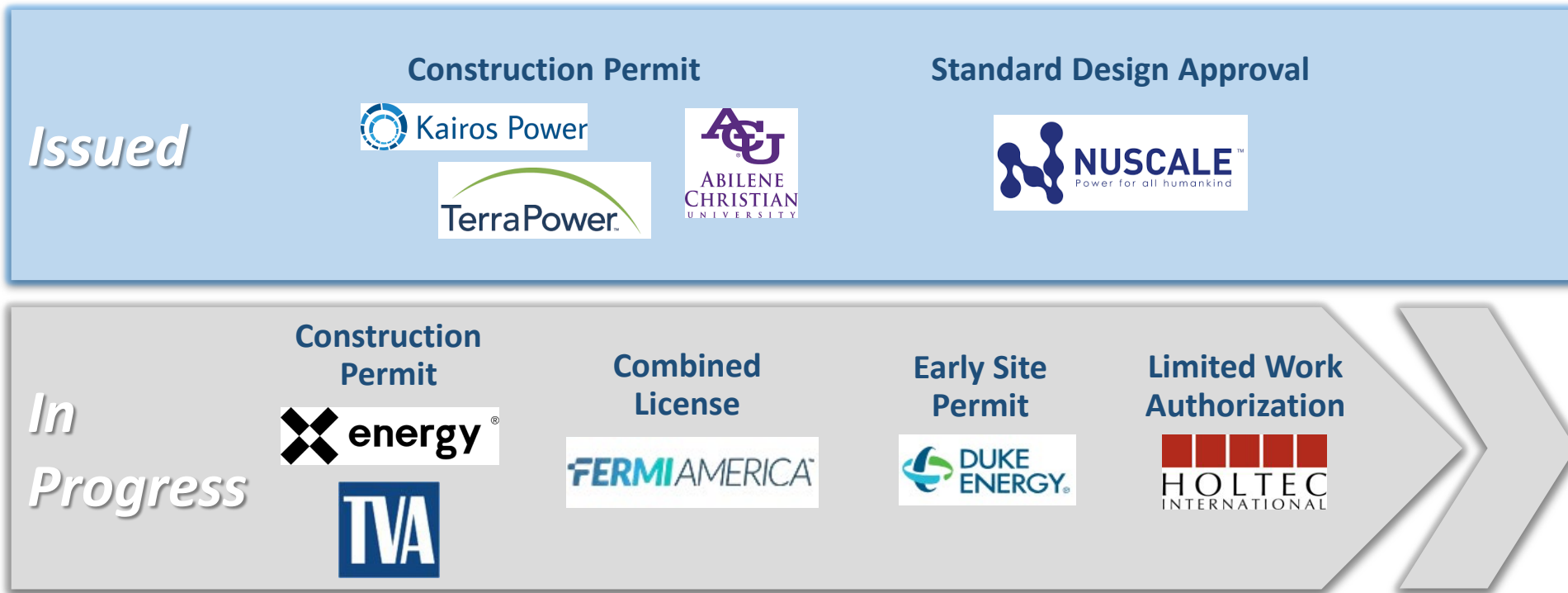


Kemmerer—LMP Implementation

- Leveraging audits, voluntary supplements, and requests for confirmation of information (RCI) over the use of requests for additional information (RAI).
- Emphasizing early engagement through extensive preapplication engagement.
- Using core teams to more effectively risk-inform reviews and focus on safety-significant issues.
- Proactively identifying novel topics to determine safety significance and identify an appropriate regulatory pathway to address them.



# Advanced Reactor Engagement: Licensing



*Advanced Reactor  
Application Projects*



*New Reactor Site*



## Advanced Reactor Engagement: Pre-application

*Prospective Applicant Landing Page*



*Preapplication Activities*



# Developing Advanced Reactor Licensing Infrastructure

## Microreactor Licensing and Deployment Considerations:

- The NRC staff issued a paper on Nth-of-a-Kind Microreactor Licensing and Deployment Considerations, SECY-25-0052, which describes a standardization strategy that may result in the NRC completing NOAK microreactor licensing actions in significantly less time than the 18-month deadline specified in EO 14300 (90 FR 22587).
- The NRC staff is developing a proposed rule to address licensing requirements for microreactors and other low-consequence reactors as required by section 5(e) of EO 14300. The strategy for this rule was described in public meetings over the summer. A summary of that discussion is included on the microreactors public website.

## RIC Session W12

**Wednesday, March 11 (3:45 p.m. – 5:15 p.m.)**

*“Enabling the Safe and Timely Deployment of Microreactors: Meeting Critical U.S. Needs Through Innovation and Regulatory Readiness”*



**NOAK  
Microreactors,  
SECY-25-0052**



**Microreactors  
Public Website**



**Public Meeting:  
Microreactors Licensing &  
Rulemaking Strategy  
(ML25223A181)**

## Developing Advanced Reactor Licensing Infrastructure (cont.)

### Pathway to Leveraging U.S. Department of Energy (DOE) and U.S. Department of War (DOW) Authorizations:

- The NRC staff issued the memorandum, “Expectation for NRC Staff Involvement with Prospective NRC License Applicants Planning to Refer to DOE and DOW Authorization Processes”, ML25322A208.
- The NRC and DOE signed “Addendum No. 9 to the Memorandum of Understanding between U.S.DOE and U.S.NRC on Nuclear Energy Innovation”, ML25303A288.

### RIC Session T1

Tuesday, March 10 (1:30 p.m. - 3:00 p.m.)

*“One Government, One Mission: Advancing Safe Deployment of Nuclear Energy”*



*NRC Involvement with Applicants Planning to Reference DOE/DOW Authorizations*



*Addendum 9 to Memorandum of Understanding with DOE*

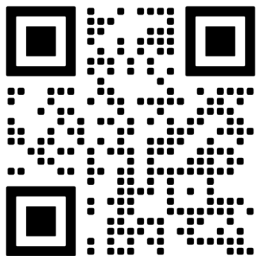


*Modernizing How We Regulate*

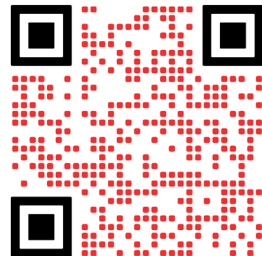
## Stay Informed!



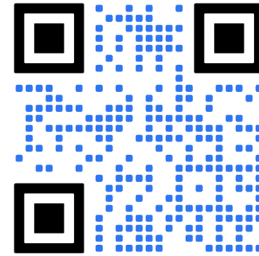
*Instagram*



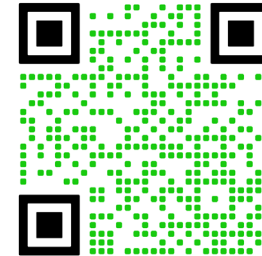
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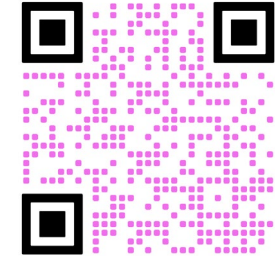
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