



### Advanced Reactor Program - Summary of Integrated Schedule and Regulatory Activities\*

Strategy 1 Strategy 2 Strategy 3 Strategy 4 Strategy 5 Strategy 6	Knowledge, Skills, and Capability Computer Codes and Review Tools Guidance Consensus Codes and Standards Policy and Key Technical Issues Communication	<b>Legend</b> Concurrence (Division/Interoffice) Federal Register Publication Public Comment Period Draft Issuance of Deliverable Final Issuance of Deliverable	● EDO Concurrence Period Commission Review Period** ▼ ACRS SC/FC (Scheduled or Planned) External Stakeholder Interactions ↓ Public Meeting (Scheduled or Planned)
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Version  
8/12/22

Strategy	Regulatory Activity	Commission Papers	Guidance	Rulemaking	NEIMA	Complete	2021												2022											
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3	Develop guidance for Non-power Liquid Fueled Molten Salt Reactors (NEIMA Section 103(a)(3))		x		x	x																								
	Review of non-LWR Fuel Cycle Assessment of Regulatory Infrastructure.																													
	Develop Report on possible Material Control and Accounting Approaches for a Pebble Bed Reactor.					x																								
	Develop Metal Fuel Fabrication Safety and Hazards Final Report					x																								
	Develop Review of Hazards for Molten Salt Reactor Fuel Processing Operations					x																								
	Review of Operating Experience for Transportation of Fresh (Unirradiated) Advanced Reactor Fuel Types					x																								
	Potential Challenges with Transportation of Fresh (Unirradiated) Advanced Reactor Fuel Types					x																								
	Storage Experience with Spent (Irradiated) Advanced Reactor Fuel Types					x																								
	Potential Challenges with Storage of Spent (Irradiated) Advanced Reactor Fuel Types					x																								
	Transportation Experience and Potential Challenges with Transportation of Spent (Irradiated) Adv. Rx Fuel Types					x																								
	Disposal Options and Potential Challenges to Waste Packages and Waste Forms in Disposal of Spent (Irradiated) Advanced Reactor Fuel					x																								
	Information Gaps and Potential Information Needs Associated with Transportation of Fresh (Unirradiated) Adv. Rx Fuel Types					x																								
	Develop MC&A guidance for Cat II facilities (NUREG-2159)																													
	Material Compatibility Interim Staff Guidance																													
	PRA for Initial Licensing Interim Staff Guidance																													
Systems Approach to Training (SAT) Program Interim Staff Guidance																														
Draft Regulatory Guides for risk-informed and performance-based (RIPB) seismic design approaches and adopting seismic isolation technologies																														
Develop contractor report on technology-inclusive human factors engineering reviews					x																									
Develop supplemental human factors engineering review guidance associated with four technical areas where we have identified knowledge gaps																														
4	Develop Regulatory Guide for endorsement of the non-LWR Probabilistic Risk Assessment Standard		x																											
	Develop Regulatory Guide for endorsement of the ASME Section III, Division 5 Standard		x																											
	Alloy 617 Code Cases (N-872 and N-898)																													
	Develop Regulatory Guide endorsing ASME Section XI Division 2 Reliability and Integrity Management (RIM)																													
5	Develop SECY paper related to Consequence Based Security (SECY-18-0076)					x																								
	Develop SECY paper related to EP for Small Modular Reactors and Other New Technologies (SECY-18-0103)					x	x																							
	Develop SECY paper related to Functional Containment (SECY-18-0096)					x	x																							
	SECY-20-0093 Policy and Licensing Considerations related to Micro Reactors	x				x																								
	Report regarding review of the insurance and liability for advanced reactors (Price-Anderson Act)	x				x																								
	Annual Fees for Non-Light Water Reactors and Microreactors																													
	Develop SECY Paper regarding Population-Related Siting Considerations for Advanced Reactors	x				x																								
Revise Regulatory Guide (RG) 4.7 to implement pending SRM to SECY-20-0045	x	x																												
6	Develop annual SECY paper regarding status of non-LWR activities	x																												
	NRC DOE Workshops					x																								
Rulemaking	Part 53 Plan - Risk-Informed, Technology Inclusive Regulatory Framework for Advanced Reactors (NEIMA Section 103(a)(4))			x	x																									
	Public Meetings																													
	ACRS Interactions																													
	Physical Security for Advanced Reactors			x																										
	Develop draft Generic Environmental Impact Statement for Advanced Reactors. Final GEIS.*(Has been voted to rulemaking by Comm.)			x																										
	Emergency Preparedness Requirements for Small Modular Reactors and Other New Technologies.(NEIMA Section 103(a)(2))			x	x																									

\*Dates reflected above are best estimates. Actual dates will be updated as additional information becomes available.

\*\*The timeframe for the Commission's review is for planning purposes only, and does not reflect an expected date for Commission decision.

For additional technical and policy issues related to Adv. Rx's, please visit:

<https://www.nrc.gov/reactors/new-reactors/smr.html#techPolicyIssues>