

Completed Activities

	Main Activity	Sub-Activity 1	Sub-Activity 2	Sub-Activity 3	Completed Activities
1 - Knowledge	Competency Modeling to ensure adequate workforce skillset				✓
	Development of non-Light Water Reactor (LWR) Training for Advanced Reactors (Adv. Rxs) (NEIMA Section 103(a)(5))	FAST Reactor Technology			✓
		High Temperature Gas-cooled Reactor (HTGR) Technology			✓
		Molten Salt Reactor (MSR) Technology			✓
2 - Codes & Tools	Development of Non-LWR Computer Models and Analytical Tools	Code Assessment Report Volume 1 (Systems Analysis)	Reference plant model for Fluoride-Salt-Cooled High-Temperature Reactor		✓
			Reference plant model for Heat Pipe-Cooled Micro Reactor		✓
			Reference plant model for Sodium-Cooled Fast Reactor		✓
	Code Assessment Report Volume 3 (Source Term Analysis)	MACCS near-field atmospheric transport and dispersion model assessment			✓
		Non-LWR MELCOR (Source Term) Demonstration Project	Reference SCALE/MELCOR plant model for Heat Pipe-Cooled Micro Reactor		✓
			Reference SCALE/MELCOR plant model for High-Temperature Gas-Cooled R.		✓
Identification and Assessment of Available Codes				✓	
Develop Environmental ISG for Micro Reactors				✓	
Develop guidance for Non-power Liquid Fueled Molten Salt Reactors (NEIMA Section 103(a)(3))				✓	
Develop Molten Salt Reactor fuel qualification guidance	Interim MSR fuel qualification guidance			✓	
Develop non-LWR Design Criteria for Adv. Rxs				✓	
Develop non-LWR Source Term Information (NEIMA Section 103(c)(4)(II))				✓	
Develop prototype guidance for Adv. Rxs				✓	
Develop Regulatory Guide for Licensing Modernization Project				✓	
Develop Regulatory Roadmap for Adv. Rxs (NEIMA Section 103(a)(1))				✓	
EPRI Topical Report on Tri-structural Isotropic (TRISO) Fuel				✓	

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3 - Reviews	Develop Regulatory Roadmap for Adv. Rxs (NEIMA Section 103(a)(1))				✓	
	EPRI Topical Report on Tri-structural Isotropic (TRISO) Fuel				✓	
	Quality Assurance Program Plan for Sodium-cooled FAST Reactor Metallic Fuel Data Qualification				✓	
	Review of non-LWR Fuel Cycle Assessment of Regulatory Infrastructure.	Develop Metal Fuel Fabrication Safety and Hazards Final Report				✓
		Develop Report on possible Material Control and Accounting Approaches for a Pebble Bed Rea.				✓
		Develop Review of Hazards for Molten Salt Reactor Fuel Processing Operations				✓
		Disposal Options and Potential Challenges to Waste Packages and Waste Forms in Disposal of Spent.				✓
		Information Gaps and Potential Information Needs Associated with Transportation of Fresh (Unirradiat.				✓
		Potential Challenges with Storage of Spent (Irradiated) Advanced Reactor Fuel Types				✓
		Potential Challenges with Transportation of Fresh (Unirradiated) Advanced Reactor ..				✓
Review of Operating Experience for Transportation of Fresh (Unirradiated) Advanced Reactor ..					✓	
Storage Experience with Spent (Irradiated) Advanced Reactor Fuel Types				✓		
Transportation Experience and Potential Challenges with Transportation of Spent (Irradiated..				✓		
5 - Policy/Issues	Develop SECY paper related to Consequence Based Security (SECY-18-0076)				✓	
	Develop SECY paper related to EP for Small Modular Reactors and Other New Technologies (SECY-18-0103)				✓	
	Develop SECY paper related to Functional Containment (SECY-18-0096)				✓	
	SECY-20-0093 Policy and Licensing Considerations related to Micro Reactors				✓	
6 - Communication	NRC DOE Workshops				✓	
NEIMA Reporting	Provide report to Congress on preparing the licensing process for RTRs within existing Regulatory Fra..				✓	
	Provide report to Congress regarding licensing processes for Advanced Reactors (NEIMA Section 103(b))				✓	
	Provide report to Congress regarding the use of risk-informed and performance based techniques for A..				✓	