

FY2022 Annual Request for Risk-Informed Activity Information

Ticket - Enclosure 1

*Missing FY2021 information

Office	Arena	Title	FY2021 Risk-Informed Activity Website		Public Website
			Link	Risk Assessment Requires more than general statements of “risk insights and approaches”	
NMSS*	Fuel Cycle	Building Smarter Fuel Cycle Licensing and Inspection Programs	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/materials-safety-fuel-cycle.html#building	Reference to Risk Insights but lacks examples	N/A
NMSS	Fuel Cycle	ANS Standard 57.11, Integrated Safety Assessments for Fuel Cycle Facilities	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/materials-safety-fuel-cycle.html#ans	✓	N/A
NMSS	Fuel Cycle	Rulemaking – Cyber Security for Fuel Cycle Facilities	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/materials-safety-fuel-cycle.html#cybersecurity	✓	https://www.nrc.gov/reading-rm/doc-collections/rulemaking-ruleforum/active/ruledetails.html?id=13
NMSS	Fuel Cycle	Rulemaking for Reprocessing Facilities	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/materials-safety-fuel-cycle.html#rulemaking	Discontinued Remove 2022	N/A
NMSS	Low Level Waste	Greater Than Class-C Waste	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/waste-management.html#class-c	✓	Rulemaking Website
NMSS	Low Level Waste	Low-Level Radioactive Waste Disposal (10 CFR Part 61) Rulemaking	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/waste-management.html#class-c	✓	Rulemaking Website

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NMSS	Low Level Waste	Very Low-Level Waste Scoping Study	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/waste-manage-llw.html#very	Risk-informed performance based framework lacking examples	N/A
NMSS	Cross-Cutting	Consideration of Safety Significance in Addressing NMSS Licensing Basis and Potential Violation Questions	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#safety	✓	N/A
NMSS	Cross-Cutting	Rulemaking Activities	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#rulemaking	✓	https://www.nrc.gov/about-nrc/regulatory/rulemaking/rules-petitions.html Updated, 11/9/2021
NMSS	Cross-Cutting	Consolidated Decommissioning Guidance (NUREG-1757)	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#decom_guidance	✓	N/A
NMSS	Byproduct Materials	Inspection Manual Chapter 2800, "Materials Inspection Program"	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/materials-safety-byproduct.html#imc2800	Risk-Informed statement lacks examples.	N/A
NMSS	Byproduct Materials	Animal Release Following Veterinary Treatment	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/materials-safety-byproduct.html#animal	Be riskSMART lacked specific examples of what can go right or wrong	N/A

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NMSS	Byproduct Materials	Decommissioning Financial Assurance for Sealed and Unsealed Radioactive Materials Rulemaking (10 CFR Part 30, Appendix B)	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/materials-safety-byproduct.html#decomm	Radionuclide risk-informed values lacking examples	Rulemaking Website Updated 6/6/2022
NMSS	Spent Fuel Storage & Transportation	Risk Tool for Spent Fuel Dry Cask Storage	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/waste-manage-spent-fuel.html#risk	✓	
NMSS	Spent Fuel Storage & Transportation	Thermal Evaluation Model Topical Report	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/waste-manage-spent-fuel.html#thermal	Use of a risk-informed approach but lack examples.	N/A
NMSS	Spent Fuel Storage & Transportation	Graded Approach for Spent Fuel Storage and Transportation System Certificates of Compliance	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/waste-manage-spent-fuel.html#regulatory	Use of risk insights lacking examples	N/A
NMSS	Spent Fuel Storage & Transportation	Method of Evaluation for Defining Authorized Shielding-Related Specifications of Spent Fuel Storage System Contents	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/waste-manage-spent-fuel.html#method	Risk-informed review approach lacks examples	
NMSS	Cross-Cutting	Regulatory Improvements for Production and	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-	Reduction in risk over time lacks examples	Rulemaking Website Updated 6/6/2022

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		Utilization Facilities Transitioning to Decommissioning Rulemaking	cutting.html#regulatory-improvements		
NRR*	Cross-Cutting	Achieving the Vision of Becoming a Modern, Risk-Informed Regulator	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#achieving	✓	No Link to Public Website Updated 10/9/2020
NRR*	Light Water Rx (LWR)	Evaluate and Develop Risk-Informed ROP Regulatory Guidance for New Reactors	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-new.html#evaluate	✓	No Link to Public Website Updated 9/30/2021
NRR*	Adv Rx	Risk-informed Emergency Planning Zone Size Evaluation	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-advanced.html#nuscale	Risk-Informed approach/methodology was not described and lacked examples	No Link to Public Website Updated 3/29/22
NRR*	Adv Rx	Risk-Informed Review of Small Modular Reactor (SMR) Designs	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-advanced.html#smr	✓	No Link to Public Website Updated 7/12/22
NRR*	Adv Rx	Non-Light Water Reactor Licensing Modernization	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-advanced.html#modernization	Risk lacking examples	LMP Link incorrectly to Advanced Reactor Public Website
NRR	Operating Rx	Graded Approach to the Use of Safety Significance in the Low Safety	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#graded	✓	N/A

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		Significance Issue Resolution Process			
NRR*	Cross-Cutting	Risk-Informed Steering Committee (RISC)	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#risc	✓	N/A
NRR*	Operating Rx	Implementing Lessons Learned from Fukushima	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#fukushima	✓	No Link to Public Website Updated 12/7/2021
NRR*	Operating Rx	Risk Assessment of Operation Events (RASP Handbook)	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#risk-assessment	✓	N/A
NRR*	Operating Rx	National Fire Protection Association (NFPA) Standard 805	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#nfpa805	Risk Informed reviews lack examples	<u>N/A</u>
NRR	Operating Rx	Assess Debris Accumulation on PWR Sump Performance, GSI-191	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#gsi191	✓	No Link to Public Website Updated 3/24/2021
NRR*	Operating Rx	Develop Risk-Informed Improvements to Standard Technical Specs	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#sts	✓	N/A
NRR*	Operating Rx	Implement 10CFR50.69: Risk-	https://www.nrc.gov/about-nrc/regulatory/risk-	✓	N/A

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		Informed Categorization and Treatment of SSCs for Nuclear Power Reactors	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#10cfr5069		
NRR*	Advanced Rx	Advanced Reactor Regulatory Framework	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-advanced.html#framework	Risk lacking examples	Many links
NRR*	Advanced Rx	Physical Security for Advanced Reactors	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-advanced.html#physical	Links to a website lacking reference to risk.	SMR Policy Issues Updated 7/12/2022
NSIR	Operating Rx	Revisions to NUREG-0654, Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness for NPP	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#NUREG-0654	Mention of risk-informed approach lacking examples.	
NSIR	Operating Rx	Revision to NUREG/CR-7002, "Criteria for Development of Evacuation Time Estimate Studies"	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#NUREG-CR-7002	✓	No Link to Public Website Updated 3/24/2021
NSIR	Operating Rx	Power Reactor Cyber Security	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-	✓	No Link to Public Website Updated 7/13/2021

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		Program Improvements	operating.html#pwr-reactor-cyber		
NSIR	Operating Rx	Guidance for Unattended Opening Evaluations	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#guidance	✓	N/A
NSIR	Operating Rx	Risk-Informed Adversary Timeline Calculations	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#riatc	✓	N/A
NSIR	Operating Rx	Transition from Physical Security Plan to Safeguards Contingency Pan	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#transition	✓	No Link to Public Website Updated 8/29/2017
NSIR	Operating Rx	Emergency Preparedness (EP) Program Review 24-Month Frequency Performance Indicators Development to Satisfy 10 CFR 50.54(t) Requirements	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#transition	✓	N/A
NSIR	Operating Rx	Ensure Force-on-Force (FoF) Scenarios Are Realistic and Reasonable	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#fof	✓	No Link to Public Website Updated 8/29/2020

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NSIR	Operating Rx	Consequence-Based Security for Advanced Reactors	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#consequence	✓	N/A
NSIR	Operating Rx	Revision of the Emergency Preparedness Significance Determination Process	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#revision	✓	N/A
NSIR	Operating Rx	Baseline Security Program Revision	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#baseline	✓	N/A
RES-PRB	Advanced Rx	Regulatory Guidance on Advanced Non-LWR PRA Acceptability	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-advanced.html#regulatory	✓	N/A
RES-PRB	Cross-Cutting	Update RG 1.200, An Approach for Determining the Technical Adequacy of PRA Results for Risk-Informed Activities	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#rg1200	✓	N/A
RES-PRB	Cross-Cutting	PRA Standards Development	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#pra	✓	N/A

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RES-PRB	Cross-Cutting	Industry Peer Review Guidance Development	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#industry	✓	N/A
RES-PRB	Cross-Cutting	Update RG 1.174, An Approach for Using PRA in Risk-Informed Decisions on Plant Specific Changes to the Licensing Basis	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#rg1174	✓	N/A
RES-PRB	Cross-Cutting	Update NUREG 1855, Guidance on the Treatment of Uncertainties Associated with PRAs in Risk-Informed Decisionmaking	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/cross-cutting.html#nureg1855	✓	Training Link
RES-PRB	Operating Rx	Accident Sequence Precursor (ASP) Program	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#asp	✓	https://www.nrc.gov/about-nrc/regulatory/research/asp.html Updated 7/7/2022
RES-FX	Operating Rx	Probabilistic Flood Hazard Assessment (PFHA)	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#pfha	✓	N/A
RES-PRAB	Operating Rx	Maintenance and Development of SAPHIRE Code	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#maintenance	✓	N/A

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RES-PRAB	Operating Rx	SPAR Models	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#spar	✓	N/A
RES-PRAB	Operating Rx	Full Scope Site Level 3 PRA	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#level-3	✓	No Link to Public Website Updated 7/8/2020
RES-HFRB	Operating Rx	Data Collection for Human Reliability Analysis (HRA)	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#hra-data-collection	✓	N/A
RES-HFRB	Operating Rx	Human Reliability Analysis (HRA) Methods and Practices	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#hra-methods	✓	N/A
RES-DE	Operating Rx	State-of-the-Art Reactor Consequence Analyses	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#state-of-the-art	✓	N/A
RES-DE	Operating Rx	Risk-Informed Reviews of Instrumentation and Control (I&C) Systems and Components: Integrating Risk Insights into the Digital I&C (DI&C)	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#risk-informed-reviews	Mention of risk insights and approaches are lacking examples.	No Link to Public Website Updated 6/5/2020 No Link to Public Website Updated 12/1/2021

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			Link	Risk Assessment Requires more than general statements of "risk insights and approaches"	
		Regulatory Framework			
RES-DE	Operating Rx	Use of Systems-Theoretic Accident Model and Processes (STAMP)-based Methods for Digital Nuclear Safety System Evaluation	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#stamp	No mention of how risk is involved in the safety evaluation and lacks examples.	N/A
RES-DE	Operating Rx	Technical Assistance for Integration of Risk-Informed Performance Based Approach to Seismic Safety of Nuclear Facilities	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#tech-assist2	✓	Completed Remove in 2022
RES-DE	Advanced Rx	Technical Assistance for Research on Innovative Methods and Technologies to Enhance Seismic Safety for Design and Construction of Commercial Reactors	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-advanced.html#tech-assist	Risk-informed performance based principles lacking examples	N/A
RES-DE	Operating Rx	Probabilistic Methodologies for Component Integrity Assessment	https://www.nrc.gov/about-nrc/regulatory/risk-informed/rpp/reactor-safety-operating.html#probabilistic	✓	N/A

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