



Spent Fuel Storage and Transportation Research Activities

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Current Regulatory Research on Spent Fuel Storage and Transportation

Regulatory Activity	2009				2012				2013				2014				2015				2016				2017				2018				Cladding Integrity	Criticality, Shielding, Containment				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4						
Fatigue testing at ORNL (H, NMSS-2009-002)	Phase 1																Phase 2																					
BWR Burnup Credit (M, NMSS-2013-002)									Phase 1								Phase 2																					
Computer Code Benchmarking using German and Japanese Data (M, NMSS-2013-001)	[Green Bar]																																				Computer Code Benchmark	Part 71 Structural Compliance
Performance of seals beyond design-basis accidents (L, NMSS-2012-002)									[Green Bar]																				Beyond Design Basis	Part 71 Quantifying Safety Margin								
Review of CFD methods (H, NMSS-2014-001)																	[Yellow Bar]																Peak Cladding Temperature	Thermal Compliance				
Fluent CFD code validation (H, NMSS-2014-002)																	[Yellow Bar]																					
Dry Cask Simulator Experiment (H, NMSS-2014-004)																	[Yellow Bar]																					
Concrete Degradation (L, NMSS-2014-005)																	[Dark Blue Bar]												Cask System Component Integrity	Part 72 Renewal and Subsequent Compliance								
Aging Mgmt for Extended S&T of Dry Cask Storage Systems (H, NMSS-2014-005)																	[Dark Blue Bar]																					
Thermal Analysis for storage casks ≤ 300 years - Horizontal Ventilated Cask (H, NMSS-2014-005)									[Dark Blue Bar]																													
Thermal Analysis for storage casks ≤ 300 years - Vertical Multipurpose Cask (H, NMSS-2014-005)																	[Dark Blue Bar]				Pending DOE																	
Risk Informing Dry Storage Review (M)																	[Blue Bar]																					

