

The Benefits of Risk-Informed **Decision Making for Dry Cask Spent Nuclear Fuel Storage Systems**

Ongoing Efforts Related to Implementation of Risk Insights

MARCH 8-10, 2022







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Probabilistic Risk Assessments Related to Spent Fuel

 Level 3 PRA of Bolted Storage Casks (EPRI 2004) • Pilot PRA of Dry Cask Storage (NUREG-1864; NRC 2007) • Preclosure Consequence Analysis (BSC 2008) Level 3 PRA (ongoing NRC Office of Nuclear Regulatory Research)





Implementing Risk Insight Initiatives

- NRC's Pilot Programs

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- Other Initiatives
 - **NEI White Paper** —

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Risk tool for assisting dry cask storage amendment reviews

Graded Approach for Safety Evaluation Report development (e.g., use risk information to revise 'Tech Specs')

Topical Report on Shielding Method of Evaluation





- activities at NRC
- spent fuel storage
- reports

Session Panel

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1) Brian Wagner (NRC) – development of risk information and implementation

2) Rod McCullum (NEI) – NEI White Paper and perspectives on NRC initiatives 3) Zita Martin (TVA) – risks associated with handling and operations involving

4) Kim Manzione (Holtec) – risks benefits and flexibility associated with topical

