

# Shielding and Radiation Protection Guidance for Dry Storage System Reviews – Draft Update

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# Presentation Outline

- Purpose and Background
- High Dose-Rate Transfer Casks
- Level of Review
- Status

# Purpose and Background

- Purpose:
  - Address high-dose rate transfer casks
  - Address level of review
- Background:
  - Recent licensing activities involving high-dose rate, lightweight transfer casks
  - Stakeholder interactions regarding shielding and radiation protection reviews

# High Dose-Rate Transfer Casks

- Objectives:
  - Ensure adequate evaluation of design and operations
  - Ensure adequate controls of design
  - Address additional radiological concerns with off-normal operations
- To Do This:
  - Guidance for CoC, Technical Specification, and SAR content

# Level of Review – NUREG-1536, R1

- NUREG-1536 recently updated (July 2010)
- Generic prioritization for all disciplines
- Definition of priority levels (High, Medium, Low)

# Level of Review – Proposed New Guidance

- Method for prioritizing review procedures for each application (new or amendment)
- Use dry storage system characteristics:
  - Transfer cask maximum surface dose rates
  - Distance to comply with 72.104(a), single overpack
- Define levels of review tied to SRP priority levels
  - e.g., review step High → Medium (for lower effort)

# Status

- Guidance has been drafted
- SFST and NRR staff comment received
- Currently being reviewed by SFST management
- Next steps:
  - Management comment resolution
  - Public comment

# QUESTIONS?