



# **Consolidation and Updating Standard Review Plans for Spent Fuel & Radioactive Material Storage and Transportation**



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# Introduction

- Why we are consolidating
- What we expect
- Schedule

# Why Consolidate the SRPs?

- DSFM recognized the need to update the SRPs
  - Storage SRPs issued in 2000
  - Transportation SRPs issued in 1999/2000
  - Supplements to NUREGs at least a decade old
    - MOX
    - TPBARs
- Part 72 has had a major revision
- Many ISGs have been issued to assist in implementing changes based on this revision
- Part 71 has also been undergoing revisions to harmonize with IAEA regulations
- Also many ISGs for Part 71

# Expectations

- Maintain the safe and secure use of radioactive materials
- Increase efficiency when performing reviews
- One-stop for all SRP information
- Minimize the use of ISGs
- Make future revisions easier

# Origin

- DSFM management identified a need to update the SRPs in Spring 2015
- Commissioned a Feasibility Study that Summer that evaluated our options
  - Keep SRPs the same and update
  - Merging the Storage SRPs into one document
  - Merging the Transportation SRPs and supplements into one document



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# Feasibility Study

- Examined SRPs for possible consolidation
- Reviewed regulator requirements, ISGs, and other technical guidance identified by NRC
  - ISG-24, Demonstration for HBF
  - NUREG-2152, CFD Best Practices
  - ISG-17, GTCC Waste
- Compared the extent of commonality and differences and noted where integration of information had a bearing on the feasibility of combining the SRPs (matrix evaluation)

# Outcomes of Feasibility Study

- Study indicated that consolidation of SRPs was desired
- Recommended the use of NUREG-0800 model
  - Chapters subdivided into independently revisable sections
  - Minimize the need for future ISGs
- Recommended a revised Chapter order to account for the merged information
- Based on this study, DSFM decided that consolidation of the SRPs was the desired course of action
- Work began on the Consolidated Storage SRP in February 2016

# Approach – Storage SRP

- Formed an internal NRC team representing all technical disciplines, with a similar team of counterparts formed by the contractor
- Team members interacted with their counterparts directly to ensure questions were addressed and provide any additional technical information
- Our starting point was the draft update to NUREG-1567
- Merged the information found in NUREG-1536
- Incorporated ISGs and other technical or draft documents into the consolidated update



- Similar to Storage SRP, formed counterpart teams for technical disciplines
- Interacted directly with contractor counterparts
- Using lessons learned from Storage SRP
- Our starting point was NUREG-1609
- Merged the information found in NUREG-1617
- Merged the information found in the supplements
- Incorporated ISGs and other technical or draft documents into the consolidated update

# Schedule – Storage SRP

- Began consolidated and updating the Storage SRP at the beginning of 2016
- NRC staff is currently working on its internal review of the draft
- NRC review to be completed this Winter
- Expect to have SRP out for public comment this coming Spring 2017
- ACRS may request to look at the final SRP after the comment resolution
- Final publication Fall/Winter 2017

# Schedule – Transportation SRP

- NRC will begin its internal review of the draft Transportation SRP once we have completed our review of the Storage SRP
- NRC review to be completed next Summer 2017
- Expect to have Transportation SRP out for public comment this Fall 2017
- ACRS may request to look at the final SRP after the comment resolution
- Final publication Winter 2017/2018

# Summary

- An update to the SRPs is needed
- Consolidation of SRPs enhances
  - Safety
  - Efficiency of reviews
  - Revising in the future
- SRPs will be coming out soon for public comment