

SPENT FUEL MANAGEMENT – AN ORANO TN PERSPECTIVE

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Agenda

Introduction Storage Transportation Conclusions





Introduction

Storage

Perspectives on Changes Regulatory Guidance License Amendments Aging Management

Transportation

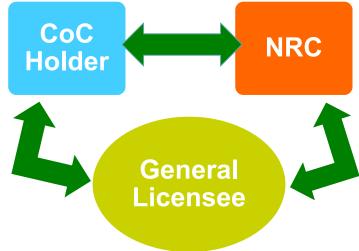
Perspectives on Changes Regulatory Guidance Licensing





Perspectives on Storage - Changes

Changes in the Industry Significant progress in a short duration TN Americas and CISF Loading and Operations Early Shutdown Aging Management

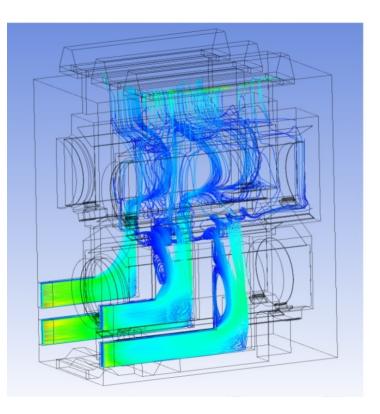




Perspectives on Storage - Innovation

Innovation in Dry Storage

Higher capacity systems High burnup and heat loads Advanced Methods Enhanced Margins Resolution of complex issues





Regulatory Guidance - Storage

NRC / Industry Efforts

72.48 Guidance / Methodology MAPS Document EPRI Extended Storage / HBU Demo Amendment 16 / Pilot

Challenge – Moving to Risk Informed

Passive Systems Once loaded, Cask and Contents do not change Limited number of Design Functions and Design Basis Limits



License Amendments - Storage

Transitioning to Content Specific

Simpler changes becoming complex Several amendments in parallel Newer materials

Renewal considerations

Process Improvement

Standard Review Plan Amendment 16 / Location of Information



License Amendments

Cumulative Impact of Changes





Aging Management

Approach to Aging Management



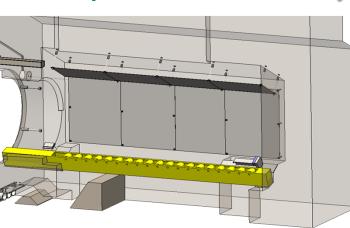


Aging Management

Post Renewal for CoC-1004

Development of AMP Procedures Preparation for Baseline Inspections Renewal consideration for changes Development of Inspection Tools







Perspectives on Transportation

Changes in the Industry

High capacity DSCs Higher Heat Load and Burnup Transportation / Long Term Storage Early Shut down Radioactive waste





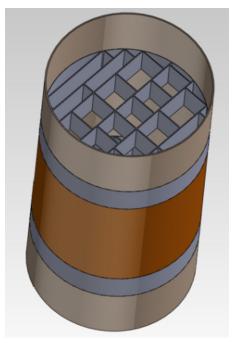
Regulatory Guidance - Transportation

NRC / Industry Efforts

High Burnup SRP HBU Demo Project MP197HB Licensing Burnup Credit

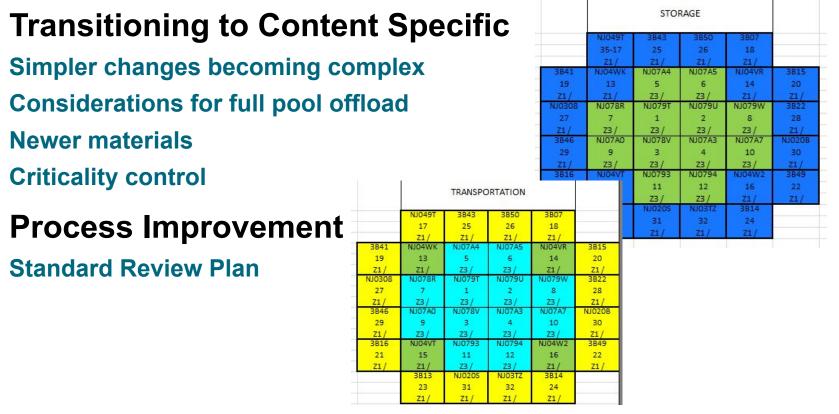
Challenge – Additional Guidance

Storage-Transportation-Storage Contents Specifications – Spent Fuel and Waste





Transportation Licensing





Conclusions

Storage and Transportation direction driven byLicensing Process SimplificationTechnology / InnovationISFSI OperationsAging ManagementCISF Licensing





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Giving nuclear energy its full value