



ENERGY *SOLUTIONS*

**The Council of State Governments
Midwestern Radioactive Materials
Transportation Committee
December 13-14, 2017**

Nuclear Plant Decommissioning and What it Means for the States

- Decommissioning Company Perspective

 - Communication with Local Communities

 - Early Activities to Establish Transportation Infrastructure

 - Large Component Planning

 - Waste Generation Strategies for Early Shipments

 - Transition from Highway Shipments to Railroad Shipments

 - Changing Strategy for Major Shipping Campaign

 - Irradiated Hardware Removal and Part 37 Concerns

Establishment of the Community Advisory Panel (CAP)

- Purpose of the CAP
- Panel Members
- Local Community Involvement
- Meeting Frequency

Site Evaluation and Review of Available Transportation Methods

- Site Layout, Design and Development
- Expeditious Development of Plans to Allow Quick Transition to Rail Shipments
- Contact with Rail Provider for Input in Design

Early Commencement of Dismantling (Prior to Rail Service)

- Dismantling must start early to ensure timeliness of the Schedule
- Large Component Removal in preparation of Critical Path Activities
- Highway Transport Early Planning and Permitting
- Communication with the Public through the CAP

Large Component Planning



Initial Shipments of Dismantling Waste Transported via Truck

- Dismantling waste is Low Density during the initial removal of plant interferences
- Freight Containers and Cask Shipments used for Early Shipments
- Freight Containers for Radioactive Asbestos and Low Density Piping (2 containers per truck)
- Casks used to remove Legacy High Dose Rate Items

Waste Generation Strategies for Early Shipments



Installation of On-Site Rail System to Transfer to Rail Way Shipments for the majority of the Decommissioning

- Site Modification for Rail Service
- Rail Supplier Input if they will operate on-site
- Notification to TSA for Hazardous Rail Service
- Use of Larger Packaging to allow for Efficient Dismantling
- Dismantling Methods Shift to Efficient Sizing and Removal

Transition from Highway Shipments to Railroad Shipments



Transition from Highway Shipments to Railroad Shipments



Waste Generation Strategies for Early Shipments



With Rail Service the Decommissioning will accelerate

- Utilization of Largest Packaging available
- Freight Containers continue to be utilized for Low Density materials
- Cost Efficient Transportation via Rail Service

Reactor Vessel Internals (RVI) Removal and Shipment

- If Required, Segmentation of RVI is Early Project Critical Path
- Transportation of RVI segments via Cask for Disposal
- Part 37 Concerns and communication with States and Route Planning



Questions?