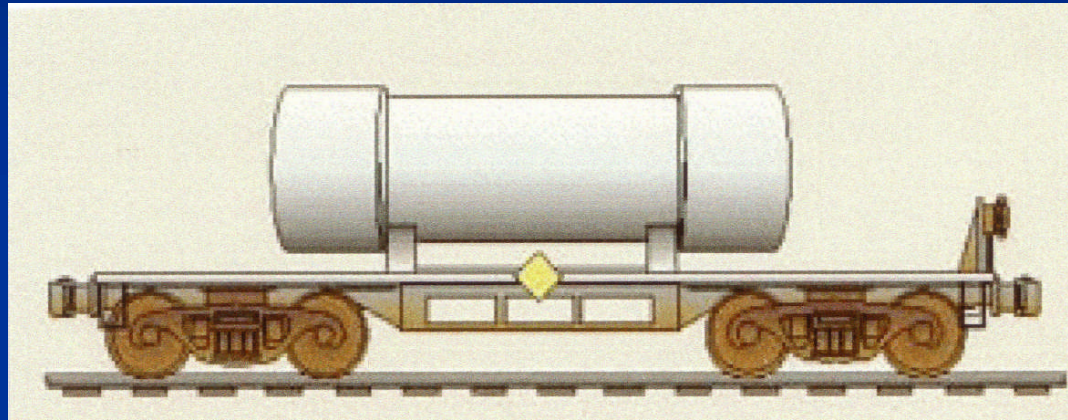


NRC's Role in Transportation of Spent Nuclear Fuel



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Earl P. Easton
Spent Fuel Project Office
U.S. Nuclear Regulatory Commission

Objectives

- What are the NRC roles in regulating spent fuel shipments ?
- What is the regulatory basis for each of these roles ?
- How does the NRC implement its roles ?
- What is the relationship between NRC's role and that of other parties ?

NRC Roles in Regulating Spent Fuel Shipments

- Certification of Shipping Casks
- Inspection of Cask Designers, Fabricators
- Enforcement of NRC and DOT safety rules
- Enforcement of Physical Protection Measures
- Emergency Response – assistance to first responders, lead Federal Agency

Relationship of NRC's Roles to those of other Parties

Nuclear Regulatory Commission

- Licenses the commercial use of Radioactive material, including transportation.

Department of Transportation

- Regulates the transportation of all hazardous material, including spent fuel.

Department of Energy

- Conducts largest non-commercial transportation of spent fuel.

Relationship of NRC's Roles to other those of other Parties (cont.)

State and Local Governments

- May enact additional safety requirements that are not incompatible with DOT requirements.
- Have lead role in responding to Emergencies.

Roles in Spent Fuel Transportation

	NRC LICENSEE	DEPARTMENT OF ENERGY			
		West Valley	Yucca Mountain	Foreign Reactor	Naval Reactors
Package Approval	NRC DOT	NRC ¹	NRC ²	DOT NRC ^{1,3}	DOE NRC ¹
Package Preparation	NRC DOT	DOE DOT	DOE DOT	DOE DOT NRC	DOE DOT
Carrier Safety	DOT STATES	DOT STATES	DOT STATES	DOT STATES	DOT STATES

¹ Per NRC/DOE Reimbursable Agreement

² Per Nuclear Waste Policy Act

³ Per NRC/DOT Memorandum of Understanding

Roles in Spent Fuel Transportation (continued)

	NRC LICENSEE	DEPARTMENT OF ENERGY			
		West Valley	Yucca Mountain	Foreign Reactor	Naval Reactors
Physical Protection	NRC	DOE	DOE	NRC DOE	DOE
Emergency Response					
First Response	STATE LOCAL	STATE LOCAL	STATE LOCAL	STATE LOCAL	STATE LOCAL
Lead Federal Agency	NRC	DOE	DOE	DOE NRC	DOE
DOE Response Teams	DOE	DOE	DOE	DOE	DOE

Primary Roles in Selecting and Approving Highway Routes for Spent Fuel Transportation

	NRC LICENSEE	DEPARTMENT OF ENERGY		
		West Valley	Yucca Mountain	Foreign Reactor
Route Selection	NRC LICENSEE	DOE	DOE	DOE
Route Selection Criteria	DOT	DOT	DOT	DOT
Safeguards Route Approval	NRC	DOE	DOE	DOE NRC

Final Thoughts

- The US Regulatory Framework for Spent Fuel Shipments is a comprehensive mosaic involving many Federal, State and Local entities.
- The complexity of the mosaic sometimes leads to the misconception that there are “regulatory” gaps.
- The Regulatory Framework has been used successfully for four decades and has resulted in an exemplary safety record.