NRC’s Role in Transportation of SNF and HLW

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U.S. Nuclear Regulatory Commission
NRC’s Roles in Regulating NRC-Licensee Shipments of SNF

- Certification of Shipping Packages
- Inspection of Package Designers, Fabricators
- Enforcement of NRC and DOT safety rules
- Enforcement of Physical Protection Measures
- Emergency Response – assistance to first responders, lead Federal Agency
NRC’s Role in Regulating SNF and HLW Shipments to Yucca Mt.

- NRC’s role is constrained by:
  - § 202 of the Energy Reorganization Act of 1974
  - § 180 of the Nuclear Waste Policy Act of 1982

- NRC’s role under NWPA § 180 is limited to:
  - Certifying package designs used to ship SNF and HLW to Yucca Mt.
  - Requiring advance notification of shipments to State and local officials
DOE’s Role in SNF and HLW Shipments to Yucca Mt

- Inspection of Package Designers, Fabricators
- Enforcement of DOE’s and DOT’s safety rules
- Enforcement of DOE’s Physical Protection Measures
- Emergency Response – assistance to first responders, lead Federal Agency
- Performance of the shipments under the standard contract
Physical Security Interfaces

- DOE has voluntarily adhered to NRC’s security requirements as part of DOE/EM’s returning foreign research reactor SNF program
  - Reimbursable agreement – DOE/NRC
    - Security route approvals
  - Advance notification of FRR shipments to NRC and States
  - Physical security measures
    - Armed escorts, position monitoring, immobilization devices, procedures, and enhanced security measures
# Roles in Spent Fuel Transportation

<table>
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<tr>
<th>Package Approval</th>
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<th>NRC(^1)</th>
<th>NRC(^2)</th>
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<th>NRC(^1,3)</th>
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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)

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<tr>
<th>Physical Protection</th>
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## Primary Roles in Selecting and Approving Highway Routes for Spent Fuel Transportation

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1. DOE

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Advance Notification of SNF and HLW Shipments to Native American Tribes

- The NRC issued an ANPRM in December 1999 and directed staff to develop a proposed rule in February 2001.
- The NRC suspended development of a proposed rule in October 2001 following the events of 9/11.
- NRC staff’s development of a proposed rule remains suspended pending other efforts.