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RIC 2025 **CHARTING THE** **NEXT 50 YEARS**

MARCH 11-13
BETHESDA NORTH MARRIOTT
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DOT's Role in Nuclear Transportation

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The US Department of Transportation is comprised of 9 Operating Administrations covering all modes of transportation.

PHMSA'S MISSION:

To protect people and the environment by advancing the safe transportation of energy and other hazardous materials that are essential to our daily lives. To do this, the agency establishes national policy, sets and enforces standards, educates, and conducts research to prevent incidents. We also prepare the public and first responders to reduce consequences if an incident does occur.



Federal Aviation Administration (FAA)



Federal Highway Administration (FHWA)



Federal Motor Carrier Safety Administration (FMCSA)



Federal Railroad Administration (FRA)



Federal Transit Administration (FTA)



Great Lakes St. Lawrence Seaway Development Corporation (GLS)



Maritime Administration (MARAD)



National Highway Traffic Safety Administration (NHTSA)



Pipeline and Hazardous Material Safety Administration (PHMSA)

Source: USDOT Annual Performance Plan | FY 2025

CHARTING THE NEXT 50 YEARS



Overview of DOT Regulatory Framework

- 49 U.S.C. Chapter 51 authority to regulate the transport in commerce of hazardous materials, including radioactive materials (RAM) [\[Link\]](#)
- The Pipeline and Hazardous Materials Safety Administration (PHMSA) leads for DOT with the Hazardous Materials Regulations (HMR)
 - 49 CFR 171-180 [\[Link\]](#)
 - 1979 MOU between NRC and DOT [\[Link\]](#)



Code of Federal Regulations

A point in time eCFR system



[Title 49](#)

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Source: ecfr.gov

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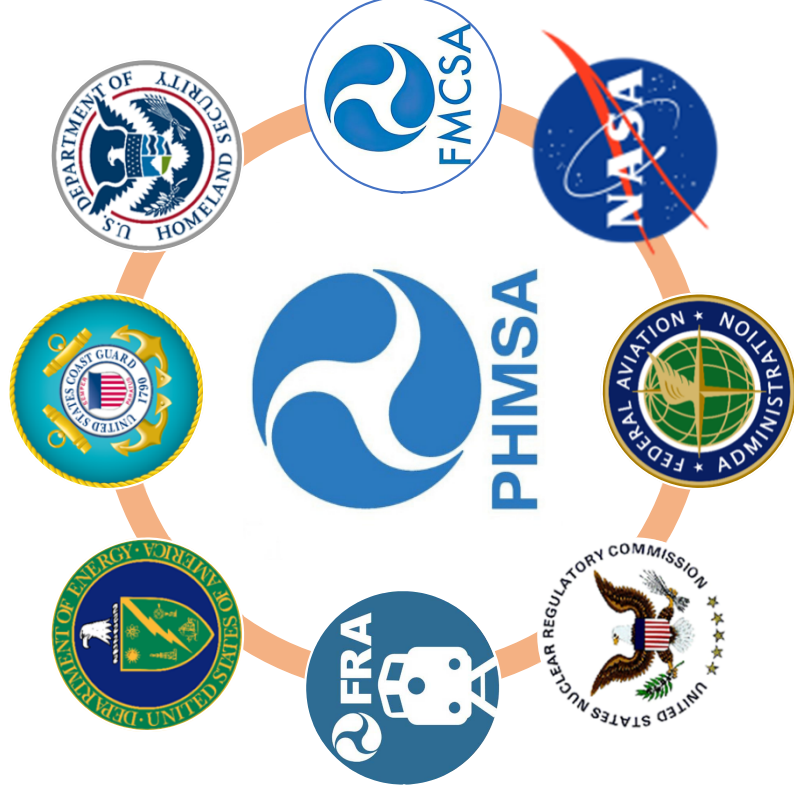
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Overview of DOT Regulatory Framework

The HMR applies only to transport in commerce; however, many federal and state governments incorporate HMR requirements into their own procedures, orders, and requirements.



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NRC & DOT MOU - Delineates responsibilities for RAM regulation and enforcement between NRC and DOT:

NRC	DOT
Develop safety standards for Type B and fissile packages, specifically regarding: • Structural materials and integrity, • closure devices, • criticality control, • containment of RAM, • shielding, • internal pressure, • internal contamination, • internal overheating, • and overall quality assurance.	Develop safety standards for: • Classification of RAM, • Design and performance requirements for Type A packages and below, as well as certain greater-than-Type A packages such as LSA & SCO, • External radiation fields, labeling, marking of all RAM packages and vehicles, • Carrier personnel qualifications, • Loading, unloading, handling and storage in transit, • Anything not covered by NRC.



NRC & DOT MOU - Delineates responsibilities for RAM regulation and enforcement between NRC and DOT:

NRC	DOT
Approves all domestic Type B and fissile packages and reviews international Type B and fissile packages at DOT's request.	DOT will submit package designs to NRC for review for: • Specification containers • Foreign Certificate packages • Others as requested by DOT
Requires licensees to comply with DOT regulations (even when not otherwise subject to DOT regulations).	National competent authority for IAEA Regulations for the Safe Transport of Radioactive Materials, with NRC support.
Issue NRC Certificate of Compliance for Type B & Type A-Fissile Packages.	Issue IAEA Certificate of Competent Authority for packages, special form sources, special arrangements.
Mutually assist with inspections and enforcement, accidents and investigations, and exchange of Information.	

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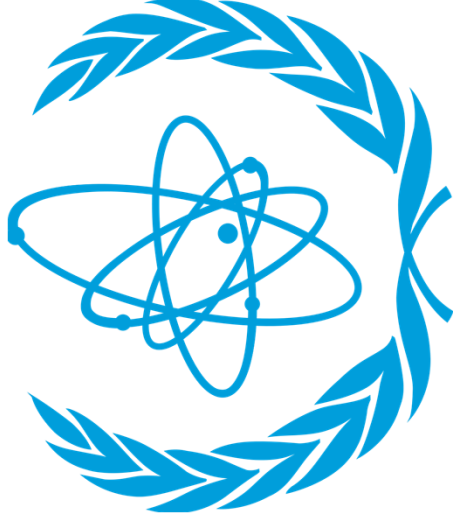


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DOT's International Role

- IAEA Competent Authority
 - Import/Export Package Certification
 - Special Form Certification
 - Special Arrangement Approval
- US Representative at Transport Safety Standards Committee (TRANSSC)
 - SSR-6 - Regulations for the Safe Transport of Radioactive Material
 - NRC and DOT harmonize US regulations with SSR-6



IAEA

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How is RAM that doesn't fit within the regulatory framework handled?

Tools at our disposal:

- DOT Special Permits
- IAEA Special Arrangements
- NRC Special Package Authorization



QUESTIONS?

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