

U.S. Nuclear Regulatory Commission
38th Annual Regulatory Information Conference

RIC2026

Regulation, Innovation and
Collaboration for a Safer Tomorrow

March 10-12, 2026

Bethesda North Marriott Hotel
and Conference Center
Rockville, MD

#NRCRIC2026

NRC.gov





U.S. NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment

The NRC's Transportation Package Certification Process

- Key Messages

- Ensuring safety of the public and environment is the NRC's top priority
- The NRC and U.S. Department of Transportation coregulate radioactive material shipment in the United States
- The NRC has an established and thorough process for certifying transportation packages in accordance with 10 CFR Part 71

- Useful Links

- [10 CFR Part 71](#)
- [List of Approved Transportation Certificates of Compliance](#)
- [NUREG-2216: Standard Review Plan for Transportation Packages for Spent Fuel and Radioactive Material](#)

Regulating Radioactive Material Transportation in the United States

Nuclear Regulatory Commission (NRC)



NRC

U.S. Nuclear Regulatory Commission

- Safety Standards for Radioactive Materials
- Package Certification & Testing

Department of Transportation (DOT)



U.S. Department of Transportation

- Hazardous Materials Regulations
- Transport Requirements & Oversight

Coordination & Oversight



Joint Regulations & Guidelines

Collaboration & Enforcement

Collaboration & Enforcement



Safe Transport of Radioactive Materials

Certification Process

1. Preapplication Meetings

- Have early discussions related to the submittal
- Identify possible technical issues

2. Submit Application

- An entity, a licensee, or a certificate holder submits the application
- It can be a new application, an amendment to an existing certificate, or a renewal of an existing certificate

3. Acceptance Review

- Determine whether the application includes sufficient information to perform a technical review

4. Technical Review

- Evaluate the applicant's assumptions
- Ensure compliance with the applicable NRC regulations
- Ensure that the proposed activities are safe and secure

5. Issue Final Product

- License
- Certificate of Compliance
- Exemption

6. Oversight

- Ensure compliance with the conditions in the license or certificate
- Ensure compliance with applicable regulations and requirements

Package Certification Tests

Tests Required Under 10 CFR Part 71



Tests simulate hypothetical accident conditions to ensure the safety of radioactive material packages.

Drop Test



Dropped from a height of 30 feet onto a hard surface

Puncture Test



Impacted by a pointed, 40-inch drop onto a steel rod

Thermal Test



Subjected to a 1,475 °F fire for 30 minutes

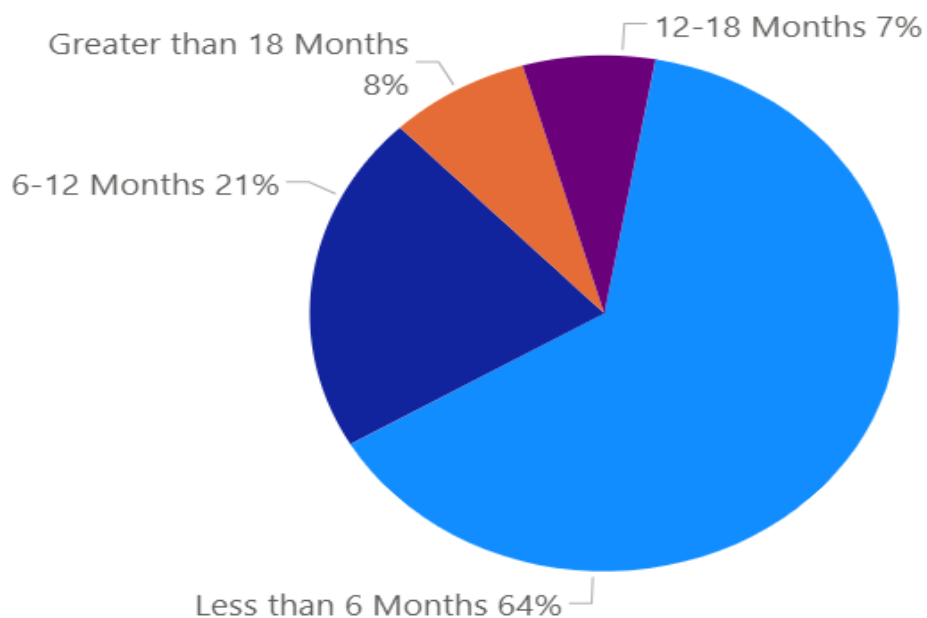
Immersion Test



Submerged in water for at least 8 hours

* Tests simulate hypothetical accident conditions to ensure the safety of radioactive material packages.

Time to Completion for Transportation Licensing Actions



APPROVED

About 200 transportation licensing actions in the last 5 years while meeting 100% of metrics

STREAMLINING SCHEDULES

12 months for amendment
18 months for new reviews



Uranium Hexafluoride (UF₆)
Package



High-Assay Low-Enriched Uranium (HALEU) Package



Spent Fuel Rail
Package



Type B Waste Package