

Department staff has over 100 years of combined experience in successfully shipping radioactive materials and spent nuclear fuel across the country.



Transportation Services and Support

The INL's Nuclear Materials Disposition and Engineering group is recognized nationally and internationally for radioactive materials transportation planning, safety preparedness and shipping operations. The team's outstanding accomplishments result from successfully shipping high-profile radioactive materials and spent fuel.

Overview

Transporting nuclear materials within the United States and throughout the world is a complicated and sometimes highly controversial effort requiring specialized expertise. The Idaho National Laboratory (INL) has technical experts available to assist with any nuclear materials project. A highly qualified team of transportation experts within the Nuclear Materials Disposition and Engineering (NMDE) group has extensive experience planning, preparing, managing and conducting transportation activities. This team offers a variety of services ranging from technical consulting and independent verifications to providing total planning, preparations and management of nuclear materials shipments.

This group is nationally and internationally recognized for their technical expertise and experience in nuclear materials transport, operations, safety,

emergency response, public and media communications, security, and knowing and understanding laws, regulations and requirements for both national and international shipments. Some of the services and products this group of experts can provide are as follows:

Consultation and Technical Assistance

- Consulting
- Advising
- Independent verifications and reviews
- Policy and procedure development.

Project Management Planning and Development

- Detailed project management plans
- Integrated baseline schedules and budgets



- Work and organizational breakdown structures
- Roles and responsibility matrices
- Quality assurance programs
- Contracting.

Shipping and Receiving Facility Preparations Support

- Needs assessments and solution identification

Continued on back

Science



Continued from front

- Safety analyses
- Detailed operating procedures
- Facility and equipment modification support
- Design and fabricate specialized tooling and equipment
- Remote handling operations planning & design.
- Prepare and conduct training
- Evaluate preparedness through planned exercises.

Regulatory Compliance Identification and Analysis

- NRC
- DOE
- FRA/DOT
- EPA
- IAEA.

Domestic and International Transportation Support

Plan Development

- Transportation plans
- Contingency plans including mitigation and recovery options
- Route selection planning, analysis, concurrences and approvals.

Packaging

- Designing
- Testing
- Licensing
- Fabrication
- Handling operations.

Carriers

- Contracting with rail, motor, air or sea carriers
- Coordination of shipping and receiving facilities and carriers.

Security Support

- Security plans
- Security point-of-contact lists
- Coordinate with federal, state, tribal, local and carrier security.



Successful Shipping Campaigns

- DOE SNF Transfer Shipments between INL and SRS
- University reactor shipments
- Russian Research Reactor Fuel Return Program
- West Valley Spent Nuclear Fuel Shipment
- West and East Coast Foreign Research Reactor Fuel Shipments
- Three Mile Island Spent Nuclear Fuel Debris Shipments.



For more information

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Transportation Institutional Activities

Planning, Preparation and Coordination

- Needs assessments and solution options development
- Planning and operations with federal, state, tribal, and local governments
- Planning and preparedness support to tribal governments meeting the unique needs and requirements of their sovereign nation status
- Public communications planning and education.

Media Relations and Interfaces

- Media planning strategies
- Media contact lists
- Generic press releases and coordination plans
- Media packets.

Emergency Preparedness

- Emergency response management planning and coordination with states, tribes, federal and local governments and carriers
- Needs assessments