



Atlanta, Georgia

**Transportation and Program  
Management Services**



## **Secured Transportation Services, LLC**

**Founded:** December, 2003

**Staff:** 7

**Experience:** Over 145 years combined experience in  
Nuclear Transportation, Security, HP & Operations



# Services

## Transportation

- The largest Transportation Coordinators of Spent Nuclear Fuel in North America
- On-Site, Hands-On Assistance (Before & During both Loading & Transport)
- Procedure Assistance (Writing and/or Review)
- Package Handling, Loading Services
- Certificate of Compliance and Competent Authority Reviews & Requests
- Carrier Coordination (Empty Packages & Equipment, Loaded, & Returns)
- Vessel Charters, Special Trains, Dedicated Exclusive Use Trucks
- Shipping Documentation
- Security Coordination
- Transport Crew Instructions (Truck, Rail & Vessel)
- Shipment Tracking (TRANSCOM Super-User)
- Representation at Origin, Ports & Destinations Sites, US & International



## Route Surveys and NRC Route Approvals

- Route Surveys (Physical Surveys of New Routes & Review of Existing Routes)
- Routine Submittals to NRC
- 25 NRC Route Approvals in the past 7 years; 16 of last 17 since 2006



## U.S. and Foreign Package Approvals:

- US Revalidations of numerous Spent Fuel Casks
- Work with US DOT and NRC to address foreign package issues
- Work with International Competent Authorities for Validation of US Packages



# Qualifications

## U.S. DOT Hazardous Materials Registration

- Registered with US DOT, Number 062106 554 0110Q



## U.S. DOE Oversight:

- DOE Cleared Facility



## U.S. NRC Oversight:

- NRC Physical Protection Plan
- NRC Safeguards Inspection Approval
- NRC Background Checks for SGI Access



# Experience

## Relevant Experience

- DOE's Foreign Research Reactor Fuel Return Program (Cask & Transport Operations in Argentina, Canada, Chile, Columbia, England, Georgia, Greece, Indonesia, Italy, Kazakhstan, Netherlands, North Korea, Philippines, Portugal, Romania, Scotland, Slovenia, South Korea, Taiwan, Thailand)
- DOE's Domestic Research Reactor Fuel Program (Fresh Fuel Receipt, Inspections, Cask & Transport Operations in AZ, FL, IN, MA, MD, MI, OR, WA, and WI)
- DOE's North Korean Fuel Stabilization Project (Canning Operations & Material Supply)
- DOE's BN-350 Fuel Canning Program (Canning Operations & Material Supply)
- Commercial US Power Plant, Hot Cell & DOE Lab Shipments (ANL West, Brookhaven, Browns Ferry, Duane Arnold, General Atomics, GE Vallecitos, Hatch, INL, LaSalle, Morris, Robinson, SRS, Studsvik, Watts Bar, West Valley)
- Developed and Implemented Generic and Site Specific Cask Handling, Fresh Fuel Receipt Inspection, Transportation, Security, Safeguards Information, and Emergency Response procedures
- HEU to LEU conversion activities at US Universities
- DOS/DOE North Korean Nuclear Disablement & Dismantlement Program (HP Support & Material Supply)
- DOE BN-350 Program Management Assistance



# Regulatory Compliance

## US Regulations

- U.S. Code of Federal Regulations (CFR) Title 49 (Department of Transportation)
- U.S. Code of Federal Regulations (CFR) Title 10 (Nuclear Regulatory Commission)
- U.S. Code of Federal Regulations (CFR) Title 19 (Customs and Border Protection)
- U.S. Code of Federal Regulations (CFR) Title 33 (Navigation & Navigable Waters)

## International Regulations

- IAEA Safe Transport of Radioactive Materials TS-R-1
- International Maritime Organization Dangerous Goods Code (IMDG)

## Other Regulations

- National Regulations of the Origin & Destination Countries
- Regulations of Countries In-Transit



# Spent Fuel Shipments

## Training

- Shipper, Transportation Agent & Transport Crews trained to 49CFR 172.700 requirements
- Familiarization with TS-R-1, IMDG Code, & 49 CFR Ensures Safety & Compliance

## Transportation & Security Plans

- NRC Requires Project Specific Transportation & Security Plans for Each Shipment
- DOE Guidelines
- Safeguards Information

## Notifications

- Requirements set out in 10 CFR
- Federal, State & Tribal
- Armed Escort Requests
- Written & Oral



# Spent Fuel Shipments (cont)

## Transportation Route Approvals

- NRC Route Approval required in Advance of Shipment
- Physical Survey of Routes
- Considerations include LLEA Capabilities, Safe Havens, Emergency Response, Construction, Communications, Vehicle Ingress/Egress, etc
- Truck Routes Valid for 5 Years, Rail Routes Valid for 7 Years
- ER Numbers Reviewed Prior to Each Shipment

## Escorts

- Escort Coordination State by State
- Choreography of Each Transition
- Use of State, Local and Private Services

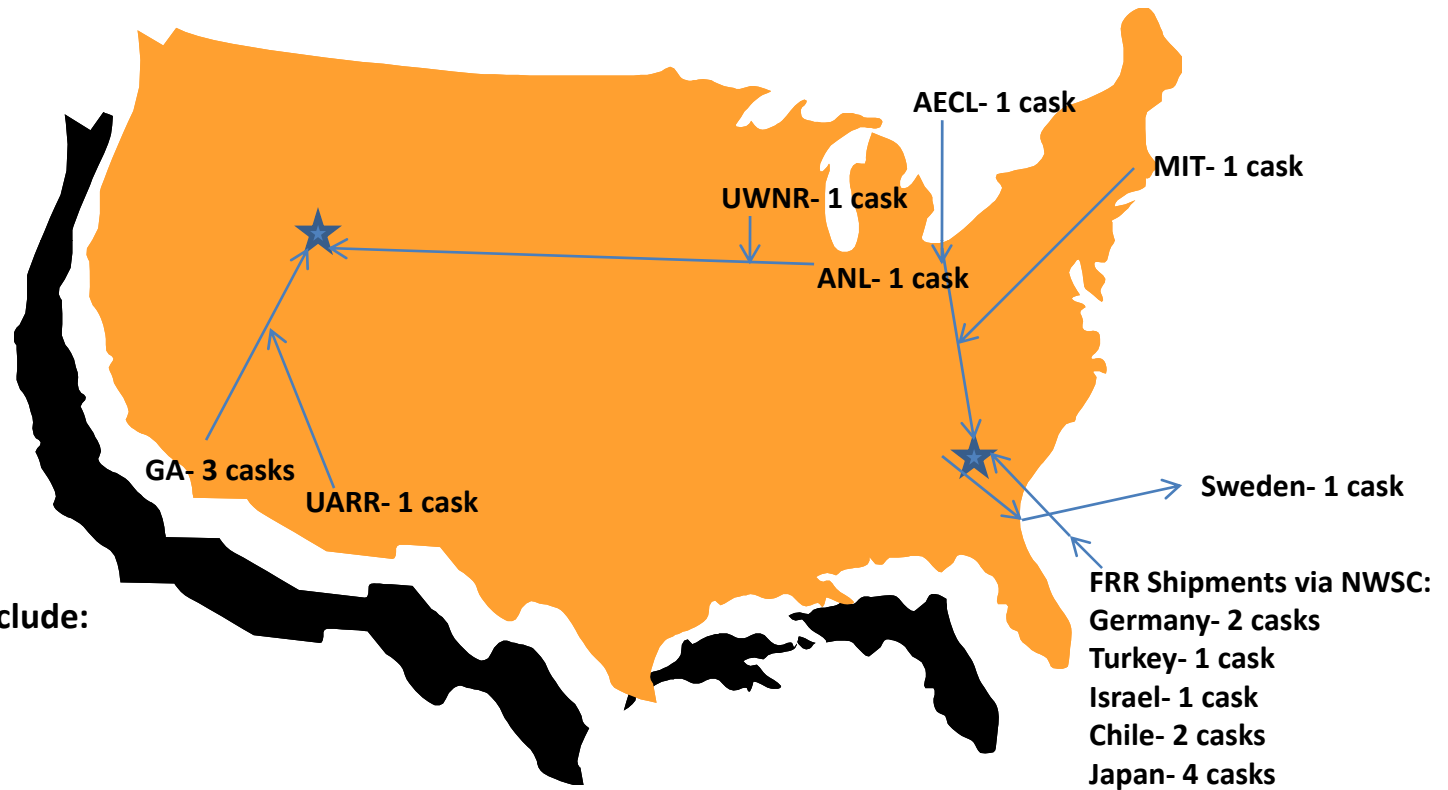
## Tracking

- TRANSCOM
- Origin to Destination
- Variety of Terrestrial and Satellite based Tracking





# 2010 STS SNF Shipments



## Support Activities Include:

- Contracting
- TSP's
- Notifications
- Security
- Transportation
- Documentation
- Inspections
- Tracking