

# THE SOURCE

## BROKERAGE & TRAINING

### EnergySolutions Broker Program

Our Broker Program has a long and successful history in the safe transport of hazardous materials, especially radioactive waste. The purpose of the Broker Program is to provide standardization of policies, procedures, training, and oversight of broker activities. The program sets a very high standard and provides a resource pool of well-trained and professional certified brokers to compliantly ship any type of hazardous material by any mode of transport (highway, air, rail, or vessel). A Broker Committee, consisting of managers, brokers, and other subject matter experts in the field of shipping hazardous material & radioactive material/waste, oversees and manages the Broker Program to ensure every broker is well trained and supported.

The broker initial training regimen starts with two weeks of intense instruction on the basics of radioactive material transportation. Topics include Atomic Energy Act licensing,

waste characterization, fuel cycle operation, radiological controls, manifesting, and disposal site waste acceptance criteria per 10 CFR (Code of Federal Regulations). Plus, load planning and securement, radioactive Class 7 material quantity calculations, packaging, radiation and contamination controls, marking, labeling, placarding, shipping paper and emergency response documentation, routing, permitting, vehicle inspections, and carrier and driver requirements per 49 CFR. Additional topics include project and waste management, safety guidelines, human performance tools, lessons learned/operating experience, and quality assurance per broker program procedures.

After two weeks of training and testing, each broker will complete on-the-job training making evaluated shipments and then pass an oral board to ensure competency. Brokers are assigned a mentor after certification for continued guidance and peer reviews, plus the real strength of the EnergySolutions broker

program is the fact all our brokers are lifetime team players.

In addition to the initial training and certification, EnergySolutions certified brokers are required to attend an annual refresher to ensure they are up to date with any regulatory and program changes, lessons learned, plus benchmark with fellow brokers on best industry practices concerning the transportation of hazardous materials. Every broker continues their education into more advanced and specialized topics like Type B casks, fissile/spent fuel shipments, Highway Route Controlled Quantities (HRCQ), higher security 10 CFR Part 37 Category 1 & 2 materials, air and water transport, health physics, international, special permits, large components, and mixed waste characterization, transport and disposal. Our brokers are well prepared and supported to compliantly ship any hazardous materials for the safety of the public and our environment.

### STATS & FACTS

EnergySolutions employs more than 50 brokers who are the shakers and movers of the radioactive world—with more than 500 years of combined shipping experience!

- Certified Broker Program is 40 years old
- Safely ships over 6,000 packages annually
- Compliantly move more than two million pounds of radioactive waste annually
- Shipment error rate is less than 0.1%
- More than 200 clients depend on our brokers (power plants, fuel cycle, DOE, DoD, pharmaceuticals, research, hospitals, universities, processors, industrial, commercial, decommissioning, etc.)



## EnergySolutions Training Services

Our hazardous material transportation and regulatory training was created 40 years ago in conjunction with the certified broker program. Both services benefit the transportation regulated community. EnergySolutions Training Services provides a wide array of DOT, NRC, DOE, EPA & Federal Motor Carrier basic, advanced, and function-specific courses for all shippers, shipping management, support and oversight, and carriers and drivers. Our open-enrollment hotel workshops for Radioactive Material & Mixed Waste Shippers are an industry standard to learn all the code of federal regulations governing transportation and to benchmark with other experienced shippers and peers.

All our courses can be customized and delivered on-site whether you are concerned about special issues unique to your facility or

wanting your department to gain a thorough understanding of recently implemented regulations, you can have all your employees brought up to date with EnergySolutions' on-site training. As a part of our total services approach to training, EnergySolutions frequently provides instruction on the packaging and transport of radioactive materials and radioactive waste for our customers at their facilities. These workshops can be similar in scope and content to our Radioactive Waste Packaging, Transportation, and Disposal workshops that we provide several times each year off-site. On-site training is the quickest, most cost-effective way to educate the greatest number of people and allows opportunity to customize the training to meet your needs.

We will gladly work with you to develop a curriculum that addresses your situation or concern. Since the presentation can be custom

tailored to you, we can use your procedures - either new or existing - as the centerpiece of our discussion. Clients frequently call on us for specialized workshops on radiation protection, emergency response, and transportation issues. Although the typical workshop is 3 days long, we will work with you to find the length that is most effective for your situation. Our qualified staff can develop courses to emphasize any of the topics listed on our website: [www.energysolutionstraining.com](http://www.energysolutionstraining.com). Most of our courses have received continuing education credits by the AAHP, the American Academy of Health Physics.

• Training Options • Excellent Student Materials • Up-to-Date References • Relevant Exercises • Helpful Handouts • Lively Discussions • Experienced Trainers • Excellent Locations • Knowledgeable and Friendly Support • Class Participation



### Radioactive Material Transportation Training

- Radioactive Waste Packaging, Transportation and Disposal Courses (DOT & NRC IE 79-19):
- 3-Day Refresher for Experienced Shippers to Licensed Processing / Disposal Facilities
- 4-Day Comprehensive Training (includes site disposal and processing criteria)
- 5-Day Comprehensive Training (4-day plus review and proctored exam)
- 1-Day Radioactive Material Shipping Course for Radiological Control Technicians

### International Shipping Training

- Dangerous Goods by Air – IATA DGR
- Radioactive Material Shipper – International Atomic Energy Agency (IAEA)
- Radioactive Material Shipments by Air – International Air Transport Association (IATA) DGR
- Radioactive Material Shipments by Water – International Maritime Dangerous Good (IMDG) Code

### Federal Motor Carrier and Driver Training

- Load Securement for Drivers and Shipping Personnel
- Highway Route Controlled Quantity (HRCQ) for Drivers
- Hazardous Material Driver

### Hazardous Material/Mixed Waste Training

- DOT/NRC/EPA Hazardous/Mixed Waste Identification, Packaging, Transportation and Disposal

### Web-based CBT Training / e-learning

- Basic DOT/NRC Radioactive Waste Packaging, Transportation and Disposal
- Load Securement for Radioactive Materials
- Radioactive Material Shipping for Radiological Control Technicians
- Radioactive Material Shipments by Air – IATA DGR
- Federal Motor Carrier Safety Regulations (FMCSRs) for Drivers
- Transportation of Radioactive Materials for Drivers and Carriers
- DOT Training for Hazardous Material Drivers

For more information or to request a proposal, please contact Mark Lewis, Director of Broker & Training Programs, at (803) 960-3619 or [mslewis@energysolutions.com](mailto:mslewis@energysolutions.com)