

Transportation Security Support

Experience includes _____

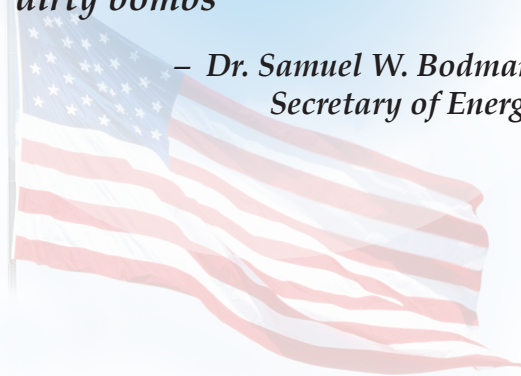
- Providing comprehensive security solutions to nuclear and hazardous materials transportation. Design, develop, implement, and sustain effective security systems for rail, truck, and barge transport.
- Management oversight of large, multi-disciplinary, international programs for U.S. government agencies
- Providing personnel training, force-on-force exercises, and vulnerability assessments to improve the effectiveness of transportation security systems
- Implementation of complex command and control, central alarm, and communications systems



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“Nuclear material around the world must be made more physically secure to make certain that it is never acquired for use in weapons – either in nuclear devices or in radiological dispersion devices, so-called ‘dirty bombs’ ”

*– Dr. Samuel W. Bodman,
Secretary of Energy*



For more information, contact _____

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ornl Transportation Security Program



Dedicated to making the world safer by providing better security to nuclear materials during transportation worldwide

UT-BATTELLE
OAK RIDGE NATIONAL LABORATORY



The ORNL Transportation Security Program is located at the National Transportation Research Center (NTRC). The NTRC is a U.S. Department of Energy National User Facility established to develop and evaluate advanced transportation technologies and systems.

The NTRC seeks to assist industry in utilizing state-of-the-art hardware and computing technologies to address problems of national and international significance such as nuclear materials transportation, declining air quality, dependence on unstable oil supplies, traffic congestion, highway safety, and national security.

NTRC offers research partners a wide range of research and development capabilities and specialized facilities. Its 55,000 ft² of laboratory space holds a collection of advanced transportation research equipment.

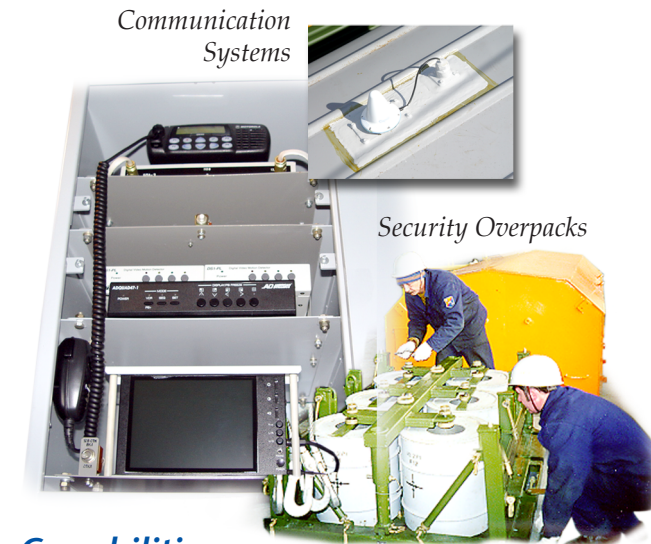
“On September 11, 2001, America and the world witnessed a new kind of war...The greatest threat before humanity today is the secret and sudden attack with chemical or biological or radiological or nuclear weapons ...America and the entire world will face this threat for decades to come.”

– President George W. Bush



Clients

- Defense Threat Reduction Agency
- International Atomic Energy Agency
- Department of Energy
 - Material, Protection, Control and Accountability Program
 - International Radiological Threat Reduction Program
- Department of State
- Department of Defense
- Department of Homeland Security
- Russian Ministry of Defense
- Federal Atomic Energy Agency, Russian Federation



Capabilities

- Secure transportation system design
- Nuclear transportation packaging design
- Nuclear packaging accident modeling
- Shipment route planning and logistics
- Packaging certification
- Railway and portal monitoring
- Baseline, needs, and vulnerability assessments
- Threat analysis
- Procurement, contracting and export licensing
- Procedure and system development
- Sustainability of equipment & systems
- Safeguards and security training and evaluation
- Force-on-force simulations
- Modeling
- Communication systems
- Command posts and central alarm stations
- Radio frequency tracking and testing
- Vehicle monitoring
- Vault security training
- Nuclear materials recovery operations
- Regulatory development