

Global Threat Reduction Initiative

Reducing and protecting vulnerable nuclear and radiological materials at civilian sites worldwide

The Global Physical Security Programs primary mission is to protect potentially vulnerable nuclear and radiological material from malevolent use. Sandia National Laboratories is an integral part of the DOE/NNSA/NA-21's Global Threat Reduction Initiative (GTRI) program to improve the protection of both radiological and nuclear material in civilian locations that could be used in either a Radiological Dispersal Device (RDD) or an Improvised Nuclear Device (IND).

convert.

Convert research reactors and isotope production facilities from use of highly enriched uranium – the basis of a WMD – to low-enriched uranium.

remove.

Remove and dispose of excess nuclear and radiological material, eliminating theft targets.

protect.

Protect high-priority nuclear and radiological materials worldwide from theft and sabotage.

Sandia's Contribution: Engineered Security Systems

- Physical security of radioactive and nuclear material in over 30 countries on 5 continents as well as across the United States and Puerto Rico
- Analysis, design, implementation, maintenance, and warranties through technology, engineering, training, and systems integration expertise
- Specialized tools and training for site personnel and first responders to respond to a security incident at civilian sites with nuclear and radiological materials
- Technical assistance to IAEA as they work to implement international security standards and guidance
- Instructors for the Search and Secure training program, which helps countries perform a verified inventory, implement a search to locate and identify orphan sources, and package and transport sources



Exceptional service in the national interest

www.sandia.gov