

Packaging Technology and Testing Center

Under Savannah River National Laboratory's Global Security Directorate, Packaging Technologies supports radioactive material packaging. With over 150 years of combined experience, the organization supports the Department of Energy (DOE), National Nuclear Security Administration (NNSA), Department of Homeland Security (DHS) and the Nuclear Regulatory Commission (NRC) in the development, modeling, testing, analysis, procurement and maintenance of radioactive material packaging.



SRNL Facts

- > Located at the Department of Energy's Savannah River Site near Aiken, South Carolina
- > Operated by Battelle Savannah River Alliance, LLC
- > National Laboratory for DOE Office of Environmental Management

Services Provided

- > Package Design and Fabrication
- > Package Procurement
- > Package Testing and Certification
- > Safety Analysis Report for Packages (SARP) Development and Review
- > Packaging Certification Program
- > SARP Courses
- > Structural and Thermal Evaluation
- > Shielding and Criticality Evaluation Leak Testing and Package Maintenance

Testing and Evaluation Capabilities

The SRNL Packaging Test Center consists of over 2800 sq. feet of indoor workspace and 17,500 sq. feet of outdoor workspace for regulatory testing. The Packaging Test Center is capable of performing the full suite of 10 CFR 71 regulatory testing.

- > Walk-in Environmental Chamber
- > Vibration Test System
- > Dynamic Impact Tester
- > Compression and Puncture Testing
- > 1 ft., 4ft., and 30 ft Free Drop Testing
- > Pool Fire Thermal Testing (via Partner Facilities)
- > Water Spray Testing
- > Penetration Testing
- > Crush Testing
- > Post-Test Destructive Evaluation
- > Pre-Test and Post-Test Laser Scanning
- > ANSI N14.5 Helium Leak Testing

Contact Information

Matthew Howard
803.335.6776
matthew.howard@srnl.doe.gov

Chris Orton
803.679.3058
christopher.orton@srnl.doe.gov

