

Welcome
Who We Are
What We Do
Resources
How We Work
Where We Are Going
How We Meet Our Customers' Needs

United States Army

Redstone Technical Test Center (RTTC)





[Web Site Map/Navigation Outline](#)

[Doing Business With RTTC](#)

[Employment Information](#)

[Contacting Us](#)

[Keyword/Key Phrase Search](#)

[Links to Related Sites](#)

[Acknowledgement](#)

[Hi Perf. Computing Distributed Center](#)

[Request Test Services](#)

[Home](#)

What We Do

Safety

RTTC conducts testing to determine the hazards posed to the warfighter in the storage, handling, and operation of weapon systems in benign and adverse environments. It has the personnel and equipment required to handle hazardous material during spills or transport.



Instrumentation in missile firing enclosure at Test Area 1

[Overview](#)

[Primary Services & Capabilities](#)

[Test Management Services](#)

[Supplemental Services](#)

Primary Services and Capabilities

- Munitions safety testing and hazard classification
 - Insensitive munitions (MIL-STD-2105)
 - Safety testing for hazard classification
- Aviation flight safety parts testing
- Hazards of Electromagnetic Radiation to Ordnance (HERO)
- Personnel and helicopter Electrostatic Discharge (ESD) testing
- Near- and direct-lightning strikes
- Weapon system safety testing
 - Toxicity
 - Noise
 - Thermal
 - Fragments
 - Blast/overpressure



Functional test of Chinook main rotor section



Fast cookoff test



Avenger near-strike lightning test



HIMARS direct-strike lightning test

Supplementary Services

- Liquid Propellant Accident Response Team (LPART)
- Man-rating test requirements development in conjunction with Program Managers (PMs) and Research and Development Engineering Centers (RDECs)
- Custom instrumentation development, testing, integration, and engineering support

Specialized Facilities and Equipment

- RTTC has numerous ranges, areas, facilities, equipment, etc., used to support "Safety Testing" for our customers.

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Back to Top