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United States Army

## Redstone Technical Test Center (RTTC)




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# What We Do

## Design Qualification and Product Assurance Services

These services are provided to address the acceptability of AMCOM weapon system components and subsystems and include the following: 1) quality verification; 2) First Article Testing (FAT); 3) lot acceptance testing; 4) surveillance, shelf life, and stockpile reliability testing; 5) functional, performance, and reliability testing; 6) Fly-to-buy testing; 7) corrective action verification, engineering evaluation, and failure analysis; 8) optical evaluations; and 9) dimensional analysis.

RTTC has the ability to test both hazardous and nonhazardous mechanical, electrical, or optical components or subsystem with state-of-the-art calibrated equipment, from large helicopter parts down to a \_" diameter lens.

### Primary Services and Capabilities

- Mechanical/functional/performance
- Structural and loading
- Kinematics and dynamics
- Fatigue and life-cycle
- Pneumatic/hydrostatic/hydraulic
- Cable integrity/reliability/interfacing
- Electrical/electronic
- Optical components
- Multi-Spectral sensors and components

Overview

Primary Services & Capabilities

Test Management Services

Supplemental Services



Antenna receiver



Vibration test of



Coordinate



### Supplementary Services

- Customized and customer-designed tests
- Engineering and design support
- In-house capabilities for the design and fabrication of special fixturing and test equipment
- The ability to handle elaborate functional set-ups and instrumentation arrangements for data collection
- Test management coordination for circumstances requiring environmental testing in conjunction with functional testing
- Model validation tests and measurements
- Model-test-model



### Specialized Facilities and Equipment

- RTTC has numerous facilities, specialized areas, and laboratories on Redstone Arsenal that accommodate virtually any type of test situation. Factors such as sustained noise, high pressure, regulated humidities/temperature, low dust requirements, vehicle exhaust removal, squib actuation, high velocities, etc., are readily accommodated.

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A horizontal footer bar with a light gray background and rounded corners. It contains three main elements: a blue button on the left, a white text box in the center, and a blue button on the right. The left button says "Please read this Privacy & Security Notice". The center text says "Last updated January 2, 2002". The right button says "Please send questions or comments about this page to [webmaster@rttc.army.mil](mailto:webmaster@rttc.army.mil)". Above the right button is another blue button that says "Back to Top".