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United States Army  
**Redstone Technical Test Center (RTTC)**



## What We Do

### High-Explosive Warhead and Fuze/Safe and Arm (S&A)

Complete functional evaluation tests of warheads are performed at Test Area 1. RTTC also provides life-cycle testing that includes early concept evaluations, production acceptance, and stockpile reliability testing. For all types of warhead tests, the following data and services are available through the fully instrumented blockhouse.



TOW 2B sled firing

### Primary Services and Capabilities

- Static and dynamic warhead tests
- Time of arrival switches for jet velocity profiles
- Mechanical/electrical/electronic fuze Safe & Arm (S&A)
- Special testing
  - Reverse ballistic tests
  - S&A tests
  - Soft recovery acceleration tests
  - Sequenced multiple-initiation points (up to eight)
  - Rotating warhead tests
  - R&D tests
- Hypervelocity functioning
- Safety analysis

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Overview

Primary Services  
& Capabilities

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Services

- Flash radiography
- Warhead air gun utilizing programmable electronic S&A



S&A and fuze test facility test bay



Failure analysis of a MLRS S&A fuze



Static warhead test at Test Area 1

## Supplementary Services

- Back armor debris measurements
- High-speed film coverage
- Extensive target simulation capabilities
- Still photography

## Specialized Facilities and Equipment

- Two monorail sled tracks, 1000 and 2000 feet
- Instrumented sled for track environmental characterization
- Fully instrumented blockhouse
- Centrifuge (Test Area 2)
- Dynamic test bays and facilities (Test Area 2)
- Environmental chambers and facilities
- Flash X-ray equipment
- Hazardous test facilities/areas
- Spall measurement and data reduction

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