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United States Army
Redstone Technical Test Center (RTTC)



Resources

Ranges, Road Courses and Facilities

**Bldg. 7290+ :
Environmental/Nondestructive/Inspection Test Facilities**

RTTC's Climatic Test Branch is equipped to provide a full spectrum of induced climatic testing in accordance with MIL-STD-810, STANAG, or industry required methods and procedures. We also provide pre-test climatic conditioning for other tests including shock and vibration, electromagnetic, electronic, and mechanical components laboratories.

Facilities are available for x-ray, mass properties, and other NDT examinations for pre- and post-test analyses of components, assemblies, and systems.

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Overview
Ranges, Road Courses & Fac.
High Performance Computer (HPC)
Unique Equipment & Tools
Fiber Optic Networks
Personnel/Tech Expertise



- 11 Total test facilities
 - 6 Test support facilities
 - 5 Explosive storage facilities, Intrusion Detection System (IDS) and above ground
- Climatic Testing Chambers

- 43 Climatic chambers
- From 8 to 18,600 cu. ft.
- Tests to MIL-STD-810 and NATO STANAG



Portable cold chamber at Test Area 1 Climatic chambers at Bldg. 4500



- Nondestructive Testing (NDT) areas
 - 360 KeV, 12 MeV, 26 MeV X-Ray
 - Dye penetrant
 - Laser shearography
 - Dynamic balance
 - Mass properties: weight, CG (XYZ and RPY), Moments of Inertia
 - Thrust, fin alignment
 - Coordinate measurement/reverse engineering



Nondestructive test of TOW missile



Dynamic balancing



Coordinate measurements of HAWK component

- Munitions Assembly/Disassembly/Modification areas
 - Motor, warhead removal, replacement, inerting
- Flash Radiography
 - Warhead interaction
 - Launch events

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