



Redstone Test Center



Climatic Testing

RTC's Climatic Test capability serves a wide variety of test customers and commodity areas, specializing in missiles and aviation component, subsystem and system level testing. Facilities include those designed both for explosive and non explosive test items.

Basic Climatic Test capabilities provide environments that include, but are not limited to, altitude, extreme temperature, temperature shock, solar radiation, humidity, and combinations of temperature, altitude and humidity. Other specialized environments include salt fog, freezing rain and ice, blowing rain and dripping rain, blowing sand and dust and settling dust. Test engineers and technicians also perform field services that include life cycle environmental profile development; field conditioning and instrumentation; and test specification and development.

Core Competencies

MIL-STD-810 Testing

- Test Chambers (42)
- Temperature Extremes (-100°F to 350°F)
- Chamber Volume (8 ft³ to 18,000 ft³)

Non-Destructive Testing

- Full Metrology (Weight, CG, & Moments)
- X-ray (Film, Direct Digital, CT)
- Dynamic Spin Balance
- CMM (2m X 4m X 1.5m)

Munitions and Ordnance Testing

- Missile/Ordnance Modification
- Inert Certification
- Explosive Prototype Development
- Missile Systems Exploitation
- Flash X-Ray

System Level Environmental Test Facility

Two New Drive-In Chambers with the Following Specifications:

- Size: 25' x 25' x 25'
- Temperature Range: -100°F to 185°F
- Humidity: 20%-95%
- Temperature Rate of Change: 35° F/min
- Load Capacity: 12,000 lb/ft²

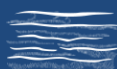
Environmental Chamber Types and Quantities



Temperature Altitude (1)



Temperature Altitude Humidity (3)



Salt Fog (2)



Icing / Freezing Rain (1)



Temperature (17)



Contamination By Fluids (1)



Blowing Rain (1)



Blowing Dust (1)



Immersion (1)



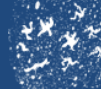
Temperature Humidity (9)



Temperature Shock (13)



Dripping Rain (1)



Settling Dust (1)



Blowing Sand (1)