



Redstone Test Center

Propulsion Systems - Altitude Testing

- The Redstone Test Center utilizes altitude chambers to conduct simulated storage and operational testing on missile propulsion subsystems and aviation components at the environmental extremes of high altitude.
- Rapid Decompression events can be replicated on test articles to verify the survivability of equipment under the stresses of rapidly changing atmospheric pressures.
- Explosive Atmosphere chambers demonstrate the ability of materiel to operate in a fuel-air atmosphere without causing ignition.

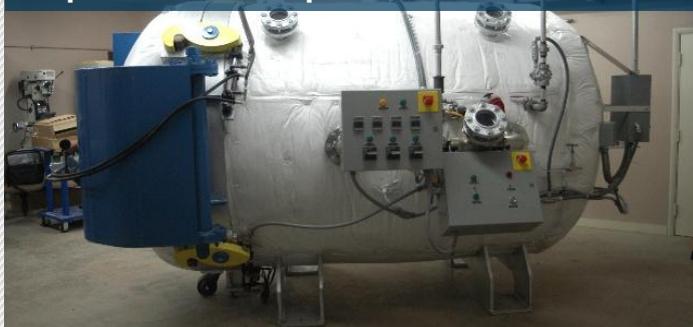
Core Competencies

- Air Transport (Storage)
- Air Carriage (Operational)
- Rapid Decompression
- Explosive Atmosphere
- Proportional Control of Altitude Profile

High Altitude & Rapid Decompression



Explosive Atmosphere



High Altitude Performance Specs

Maximum Altitude:
125,000-ft

Chamber Dimensions:
12-ft Dia X 50-ft Long

Decompression Time:
~ 5-sec

Explosive Atmosphere Performance Specs

Maximum Altitude:
40,000-ft

Chamber Dimensions:
6-ft X 8-ft Long

Test Fuel:
n-hexane