



FLIGHT LOADS LABORATORY

ADVANCING AEROSPACE STRUCTURES RESEARCH AND TECHNOLOGY SINCE 1964



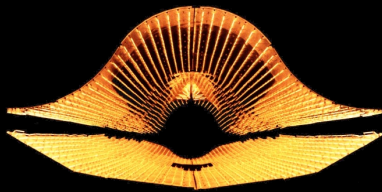
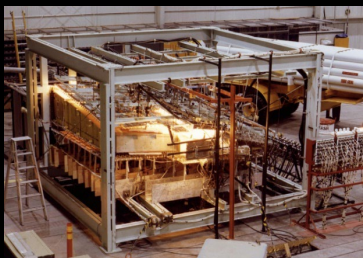
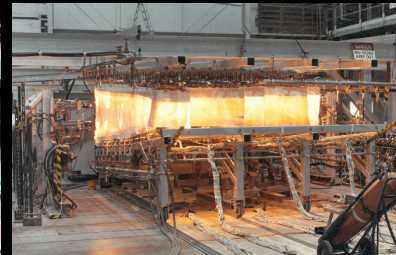
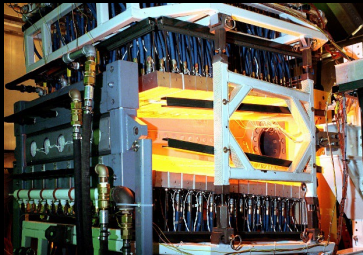
- Large-scale structural, thermal and dynamic testing of aerospace structures
- Large high-bay test area (164' x 120')
- Located at NASA Armstrong Flight Research Center
- Flight line access to Edwards AFB

Structural Loads Testing

- Aircraft loads calibration testing
- Research load testing of advanced wings
- Proof-load testing of large-scale structures

Structural Test Systems

- 84 channels of hydraulic load control
- Uniaxial load frames
- Large suite of actuators & load cells



Thermal Testing

- Large-scale combined heating and loading of vehicle and hot structure components
- Open air and inert atmosphere testing

Thermal Test Systems

- 264 channels of thermal control
- Quartz lamps and graphite element heating
- 17 MW of available electrical power
- Liquid and gaseous nitrogen systems
- Large inert atmosphere chamber

Structural Dynamic Testing

- Ground vibration
- Structural mode interaction
- Moment of inertia

Structural Dynamic Test Systems

- >300 channels of data acquisition
- Large suite of accelerometers
- Excitation systems from 10 to 500 lbs
- 60K lb capacity soft-support system



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