

# ENVIRONMENTAL TEST LABORATORY



The Environmental Test Laboratories provide the equipment and technical expertise needed to meet environmental standards regulated by the FAA technical standard orders using RTCA DO-160 certification standards. Our personnel have many decades of combined experience in the field of environmental testing for aviation and other industries.

## CAPABILITIES

- RF cable insertion loss and VSWR testing
- Radome transmissivity testing
- Hi-pot testing services
- 60kV and 100kV P-Static testing systems
- In-Flight Antenna Patterns
  
- Aircraft Test Hangar  
100x100x30ft, door 75ft X25ft. Integral foam fire suppression system for fueled aircraft testing
- Aircraft Hot Fuel Testing (Weather permitting, 85° F. min.)  
**DO-160C through F, G**
- Section 4: Temperature & Altitude
- Section 5: Temperature Variation
- Section 6: Humidity
- Section 7: Shock and Crash Safety
- Section 8: Vibration
- Section 9: Explosion Atmosphere (Category H Only)
- Section 14: Salt Fog
- Section 15: Magnetic Effects
- Section 16: Power Input (Excluding Category D – Abnormal Surge Voltage (DC 270V))
  
- Section 17: Voltage Spike
- Section 18: Audio Frequency Controlled Susceptibility
- Section 19: Induced Signal Susceptibility (Excluding Categories CC, CN & CW)
- Section 20: Radio Frequency

Controlled Susceptibility

- Section 21: Emission of Radio Frequency Energy
- Section 22: Lightning Induced Transient Susceptibility
- Section 24: Icing (Excluding Category B)
- Section 25: Electrostatic Discharge

## EQUIPMENT

- 20 ft. x 20 ft. semi-anechoic chamber
- 30 ft. x 50 ft. x 25 ft. fully anechoic chamber
- 25 ft. x 17 ft. reverb chamber
- 12,000 lb. vibration table
- Rate table capability of 50 lbs. total weight
- Indirect Effects of lightning test system
- 40 kW AC/DC power input test system
- Temperature/humidity/altitude chambers (capability up to 100,000 ft.)
- Large environmental Chamber - 12'Wx10'Hx48'L (-40 degrees)
- Salt Fog Chambers

## CLIENTS

RCO Engineering, Inc., Hawker Beechcraft Co., Aerospace Systems and Components, Inc., AMETEK Advanced Industries, Inc., PWI Incorporated

## CONTACT

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