



# GARWOOD LABORATORIES, INC.

Testing for Industry Since 1954

(888) 427-4111

TRANSPORTATION · MEDICAL · MILITARY · AEROSPACE  
COMMERCIAL · CONSUMER PRODUCTS · TELECOMMUNICATIONS

## Two Complete Certification Testing Laboratories in Southern California

### Commercial & World Wide EMC/EMI

- 12 Electromagnetic Interference Testing Chambers
- EMC & Product Safety Global Compliance Testing
- Facility Accredited to CISPR & FCC
- Test & Consulting Services, Design Assistance
- Test Plans, Design Documentation, DOCs & TCFs
- EMC per CISPR, IEC, EN, FDA, CCC & ANSI Standards
- CE & e-Mark Support
- FCC/IEC/IC: 3m/ 10m OATS & Anechoic Chambers
- Automotive Compliance SAE-J1455 & SAE-J1113
- Cable Harness Testing

### Military /Aerospace EMC

- EMI/EMC/ESD/RFI Testing
- RTCA/DO-160E/F
- MIL-STD-461E/F
- Lightning Induced Transient Susceptibility to Boeing & Airbus
- RS 105 High Energy Pulse
- Custom Lightning Waveforms
- FAA Certification
- Separate Anterooms
- 12 EMI Chambers (10kHz - 40GHz, up to 200 V/m)
- 3-Meter Semi-Anechoic Chamber

### NEBS /Bellcore /Telcordia /Telecommunications

- Verizon ITL Approved
- GR-63-CORE Physical Protection Standards
- GR-487-CORE Electronic Equipment Cabinets
- GR-1089-CORE for EMC & Electrical Safety
- ETSI 300-019 (ENV), 300-386 & 132-2 (EMC)



### Product Safety Services

- ITE Equipment
- Medical Equipment
- Audio & Video Equipment
- Machinery Equipment
- Laboratory & Testing Equipment

### Space Simulation

- Bell Jar to 4 Foot Diameter Vacuum Chamber
- Specialists in GEO/LEO Cycling
- Class 100 Cleanroom Capability
- RGA, Cold Finger, TQCM

L.A.B. Accredited  
ISO/IEC 17025:2005  
Cert# L2180-1

### Hydraulics

- Hydraulic Flows to 1000gpm to 5000psi
- Hydraulic Fluid Temp -54°C to +135°C
- Hot Oil & Air Flow
- Impulse Testing
- Inclination Testing
- Proof/Pressure Drop & Pressure Cycling
- Pressure from 0-15,000psg Pneumatic, 0-50,000psg Hydraulic

### Climatics

- Over 40 Chambers
- Temp/Alt/Humidity
- Thermal Shock
- Sand & Dust
- Salt/SO<sub>2</sub> Fog
- Solar Radiation
- Temp Cycling
- Thermal Vacuum
- Wind & Rain/Icing
- Explosive Atmosphere
- Explosive Decompression

### Other Services & Capabilities

- Bird Strike & Ballistics impact
- Fire Testing ISO, SAE 160F, FAA AC20-135
- Fungus Resistance Testing
- Helium Leak Testing
- In-House Design & Fabrication of Testing Fixtures
- Light Measurement & Analysis
- Package Testing to ASTM, DOT, ISTA
- Tension & Compression Loads

### Dynamics

- 12 electro-dynamic shaker tables & exciter systems
- Sine/Random Vibration
- Acceleration
- Seismic/Earthquake
- Shock - Classical
- Shock - Pyrotechnic
- MIL-S-901 Hammer Shock
- Explosive Pyrotechnic Shock
- 40 Foot Drop Tower
- 28 Foot Centrifuge
- Temp/Humidity/Vibration
- Reliability Testing
- Transit/Package Testing



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