



FULLERTON, CA

NTS FACILITY SPOTLIGHT



A HIGHER STANDARD

Inside Orange County's Premier Test Lab

ABOUT FULLERTON



Inside a Reverberation Chamber, Fullerton, CA

A HIGHER STANDARD FOR TESTING

With 28 labs in North America—and unrivalled technical knowledge—NTS is the world's undisputed leader in testing, inspection, and certification. Established in 1961, NTS thought leaders sit on advisory boards, speak at conferences, and author technical papers. As the most trusted testing company in the world, NTS won NASA's prestigious supplier award in 2019. Today, NTS experts are ready to provide you with a higher standard of testing.

ORANGE COUNTY'S PREMIER TEST LABORATORY

NTS's laboratory in Fullerton, CA, is Orange County's premier test facility. With the world's top experts and robust equipment, the team can simulate any condition on earth—and beyond. The massive 2.5 acre facility provides the physical infrastructure and technical expertise to conduct any test you need, including the following:

- EMI/EMC/HIRF
- Environmental
- Dynamics
- Hydraulics
- Pneumatics
- Materials
- Mechanical
- Lightning
- Fluids
- Software
- FAA Fire
- NEBS

Leading EMI/EMC/HIRF Test Services

By employing the world's top EMI/EMC experts—and adhering to the highest testing standards—the Fullerton laboratory is able to conduct EMC/EMI, HIRF, lightning, and electrical testing to the most rigorous standards.

- Radiated Susceptibility (RS) of 7,200 V/m to 10kHz – 40GHz CW
- Lightning Transient Multi-stroke, Multi-burst, Single Stroke, and Pin
- RF Emissions and Immunity, AC Power Fault, Surge, ESD, and EFT
- Reverberation Chamber with 100 MHz to 40 GHz
- 3-Meter FCC listed and 40' x 40' Semi-Anechoic Chamber
- Radiated Susceptibility Pulsed levels up to 7,200 V/m

Extreme Environmental Simulations

In 2020, NTS continued to invest in its environmental testing capabilities, adding several new chambers to increase capacity at the Fullerton Laboratory.

- Multiple Temperature and Humidity Chambers
- Explosive Atmosphere, Thermal Shock, Rapid Decompression
- Highly Accelerated Life Testing (HALT)
- Seismic, Sine, Random Vibration
- Salt Fog, Sand, Dust, Solar Radiation, Mix Flowing Gas (MFG)
- Temperature, Altitude, Relative Humidity, Solar Radiation, Icing

NEBS Testing & Compliance

As a Verizon ITL approved facility, the Fullerton lab is able to certify telecommunications products to network equipment building systems requirements (NEBS) and international standards. Key capabilities cover fire spread, earthquake, wind-driven rain, mixed flowing gas, EMI/EMC testing, and more. Primary services include the following:

- Full In-House NEBS Capability
- Certification and Compliance Programs (USB, ZigBee, MoCA, Etc.)
- Quality Assurance Testing Services
- Performance and Benchmark Testing
- Customized Automation Test & Validation Tools
- On-Site Testing at Customer Location

Mechanical, Hydraulics, & Pneumatics

Top engineers accurately reproduce various flow, stress, fatigue, and load conditions on test specimens that simulate actual operating conditions.

- Fire Resistance, Fire Spread, Needle Flame
- Hydraulic/Pneumatics Pressure Impulse, Flow, Proof, Burst
- Tensile Fatigue, Flexural Testing, Stress, Inclination, Acceleration
- MIL-PRF-83282, MIL-PRF-5606, Skydrol, MIL-L-7808, Etc.

High Impact Dynamics Testing

With electrodynamic shakers, drop towers, centrifuges, and more, engineers at the Fullerton lab can push your product to the brink.

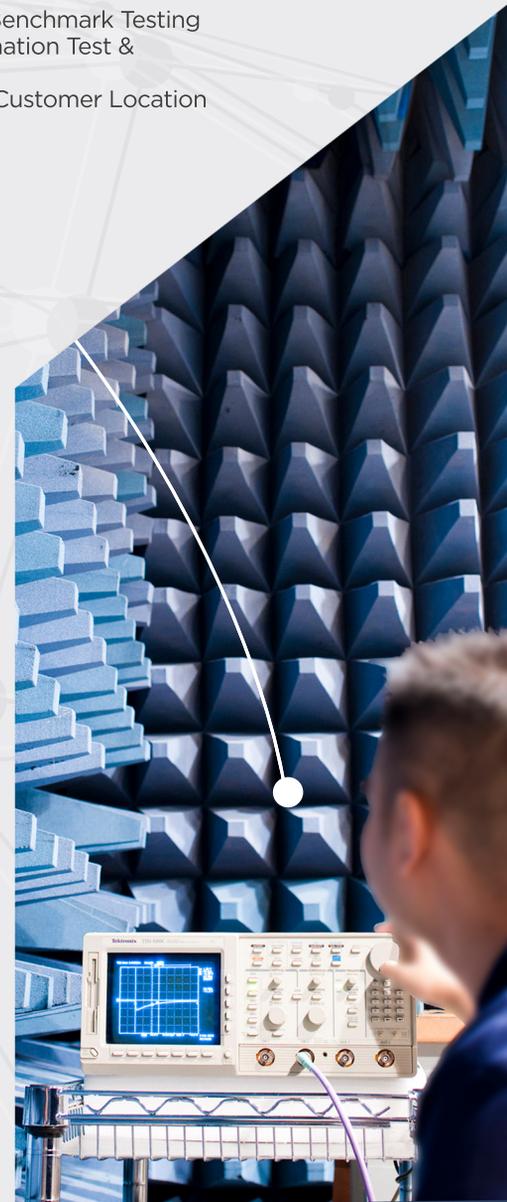
- Shakers with 3.0" Stroke, 35,000 Pounds Force, 4-3,000 Hz
- Electrodynamic Shakers with UD T4000 and UD T2000
- Seismic system with 10.5" stroke, 14,000 Pounds. Force, 0.6 Hz to 500 Hz
- Acceleration to 500g, 14' Radius with 70 Channels
- Windmilling Vibration
- 10°C Ramp Rates on Compressors

Software & Hardware Testing

The lab provides a range of consumer product services, including compatibility, functionality, interoperability, lifecycle, competitive analysis, performance, usability, system integration, compliance, and certification.

Materials Testing

NTS Fullerton tests metal, plastic, composite, rubber, and other materials to a broad range of specifications. Key capabilities include tension, Compression, hardness, shear, and bending, peel, tear, flexural strength, and more.



CONNECT WITH AN EXPERT

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