NTS FACILITY SPOTLIGHT

BOXBOROUGH, MASSACHUSETTS

ABOUT NTS BOXBOROUGH, MA

The technical personnel at NTS Boxorough have extensive experience in electromagnetic radiation and susceptibility testing, dynamics, fire and environmental testing. NTS has the expertise to accurately monitor equipment response and performance during the most severe test environments. Our extensive knowledge of current test and conformity requirements, both domestic and international, can assist you in your product assessment and defining the proper requirements for your test program to achieve maximum customer acceptance.

EMI/EMC/ESD/NEBS

NTS Boxborough, part of the NTS nation-wide network of EMI/EMC laboratories, provides EMC/EMI/ESD capabilities with expertise in testing to military, aerospace, telecommunications, electronics, nuclear, and other global industry specifications. Military and aerospace capabilities include Immunity testing up to 200 V/m from 10kHz to 40GHz, as well as Electrical Power Characteristics testing for ground, aircraft, shipboard, and submarine applications. NTS has recently istalled a copper lined reverberation chamber coupled with state-of-the-art amplifiers capable of meeting DO-160 Category L levels from 100 MHz to 18 GHz. Additional capabilities include lightning simulation indirect effects, and ESD up to 30kV.

NTS certifies telecommunications products to network equipment building systems requirements (NEBS) as well as international standards. NTS also provides complete certification of information technology, industrial and other commercial/electronic products to global EMC and product safety regulatory standards.

NTS Boxborough has six shielded chambers, including a three-meter and 10-meter FCC listed chambers.

ENVIRONMENTAL/DYNAMIC

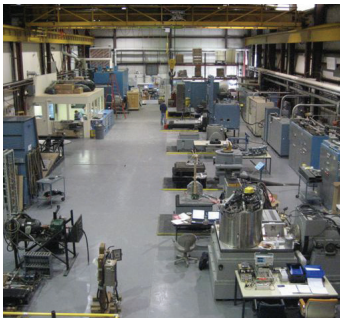
NTS is the largest independent company for environmental/dynamics testing with facilities located world wide. NTS Boxborough is a full service environmental test facility capable of managing your environmental test programs in the commercial, military, defense, telecom and medical markets. Our technicians and engineers are recognized experts in the performance of a wide array of environmental simulations including thermal, shock, seismic, hydraulics and vibration fixture design. Capabilities include an array of different chambers, seven shakers, drop test tower platforms and two seismic tables including an independent triax.

ABOUT NTS

Since opening our doors in 1961, NTS has become one of the largest commercial test laboratory networks in North America. Our test, inspection and certification services span environmental, dynamics, EMC, wireless, product safety, materials, ballistics and much more. NTS engineers and technicians have exceptional knowledge in all test and conformity requirements, both domestic and international. Our client partners rely on NTS to deliver quality products to market quickly and efficiently, and so can you.

NTS preparing custom designed solar-load test set-up

Reverberation Chamber with state-of-the-art amplifiers meets DO-160 Category L levels



The Dynamic Testing floor at NTS Boxborough is equipped to monitor and record equipment performance with on-site instrumentation

NTS

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HIGHLIGHTS AND PRIMARY TEST SPECIFICATIONS

- EMI/EMC/ESD
- Radiated Susceptibility ~ 200V/m, frequency range 10kHz to 40GHz
- Radiated Emissions ~ 30Hz to 40GHz
- Reverberation Chamber meets DO-160 Category L levels, 100 MHz to 18 GHz, up to 40GHz
- Lightning-multiple stroke, multiple burst, Level 5 D0-160 D/E/F capability
- 3M semi-anechoic chambers and multiple shielded chambers (16'x20', 18'x20')
- Electrical power characteristics for aircraft, shipboard, ground, and submarine
- Airborne and structure-borne noise
- Electrostatic discharge up to 30kV
- AC powercross

Primary Specifications

MIL-STD 461/462, RTCA DO 160, Boeing D6-36440, Boeing D6-44588, Boeing D6-16050, MIL-STD 704A, MIL-STD 1275, IEEE C37.90.1, IEEE C37.90.2, IEEE 1613 GR 1089-CORE, GR 57-CORE, GR 487-CORE, FCC part 15, FCC part 18 EN 61000-6-2, EN61000-6-3, EN 300386, EN55024, EN 55022, EN 55011, EN 61000-4-xx, EN 61000-3-xx, K20, K21. MIL-STD 704, MIL-STD 1399 section 300A, MIL-STD 740-1

DYNAMICS

Electro-Dynamic Shaker Systems

- T1000 (4 Systems) 1" Stroke, 90"/Second, Velocity 19,000 force lbs.
- T4000 1.75" Stroke, 120"/Second, Velocity 40,000 force lbs.
- Ling A340 1" Stroke, 60"/Second, Velocity 28,000 force lbs.
- V-895 2.5" Stroke, 65"/Second, Velocity 13,000 force lbs.

Seismic Systems

- 35 KIP 10" Stroke, 65"/Second, 5' Square Tables
- 21 KIP 24" Stroke 65"/Second, 5' Square Tables
- Tri-axial, 8" Stroke, 16 kip, 60"/Second

Acceleration System

- 40" Arm, 100g's

Static & Dynamic Loading

Primary Specifications

MIL-STD 810, MIL-STD 202, MIL-STD-883, MIL-STD-740, MIL-STD-167, RTCA DO160, ISTA, ASTM, GR 63-CORE, ATIS, GR 487-CORE, GR 13-CORE, ETSI 300-019-xx, IEC 60068-2-xx

ENVIRONMENTAL

Large selection of temperature/ humidity chambers from 2'x2'x2' to 8.5'x9.5'x12' walk-in chambers. Temperature/altitude chamber up to 80,000ft. Acoustic noise, salt fog chambers, wind-driven rain up to 100mph, fire resistance, explosive atmosphere, sand and dust chamber, solar load test, thermal shock, thermal vacuum, icing/freezing rain, HALT/HASS testing from -100°C to 200°C and up to 50Grms (5-5000Hz). Flow testing both pneumatic and hydraulic up to 20gpm (500 SCFM) and up to 300°F.

Lightning Induced Transient Susceptibility

Walk-in chambers can accommodate large equipment and heat load

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