

## Specialists in EMI/ENVIRONMENTAL/DYNAMICS Aerospace, Defense, Telecommunications

National Technical Systems, NTS, is a world leader in assisting organizations to access domestic and international markets. We are a single source for a full range of integrated engineering solutions, product testing, standards compliance and technical resources. Globally accredited by leading regulatory agencies, NTS can provide cost-effective programs to meet your requirements – at your site, or at one of our many U.S. or international facilities. NTS is the nation's largest independent standards compliance and product testing company serving organizations within the aerospace, defense, automotive, telecommunications, electronics, power, medical device, computer, and software markets.

### Engineering Services

The technical personnel at NTS Plano have extensive experience in electromagnetic radiation and susceptibility testing, dynamics, 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. Aerospace, defense, telecommunications and many other markets are served by our Plano location.

### EMI/EMC/ESD

NTS Plano is part of the vast NTS' EMI/EMC service offering, which includes three other laboratories across the country. NTS Plano provides EMC/EMI/ESD to a multitude of industries with expertise in testing to military, aerospace, telecommunications, and other industry specifications. Military and aerospace capabilities include 200v/m to 40GHz, as well as indirect effects lightning. 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 Plano has six shielded chambers, four are semi-anechoic, one of which is a three-meter FCC listed chamber. Ten meter open area test sites are also available.

### Environmental/Dynamic Facilities

NTS is the largest independent company for environmental/dynamics testing with 11 facilities located nationwide. NTS Plano is also a full service environmental test facility capable of managing your environmental test programs, both commercial and military. Our technicians and engineers are recognized experts in the performance of a wide array of environmental simulations including thermal, shock, seismic and vibration to name a few. Capabilities include more than 20 different chamber, shaker, and drop tower test platforms. Performance testing and test specimen fixtures are also available.



*EMI/EMC Test in 3 Meter  
Semi Anechoic Chamber (FCC Certified Chamber)*



*EMI/EMC Chambers*



*EMI Semi Anechoic Chamber  
and Shielded Control Room*

## Highlights and Primary Test Specifications

### EMI/EMC/ESD

#### Highlight

Radiated Susceptibility RS103 200V/m, frequency range 10KHz to 40GHz.  
Radiated Susceptibility RTCA DO 160 3V/m- 200V/m, frequency range 10KHz to 40GHz. Lightning-multiple stroke, multiple burst and other indirect lightning  
Multiple semi-Anechoic chambers and multiple shielded chambers,  
AC powercross.

#### Primary Specification

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 300386, EN55024, EN 55022, EN 55011, EN 61000-4-xx, EN 61000-3-x K20, K21.

### Dynamics

#### Highlight

Electro-Dynamic shaker systems T-1000, T-514 up to 1.25" stroke 9000 to 19,000 force pounds, 5hz to 3000Hz, Seismic system with 10.5" stroke, 17,000 force-pounds, 0.6Hz to 500Hz. Seismic testing to GR63-CORE zone 1 to zone 4, up to 12 channels response and data acquisition and analysis. Static & Dynamic, Acceleration up to 400 rpm.

#### Primary Specification

MIL-STD 810, MIL-STD 202, RTCA DO160, ASTA, ASTM, GR 63-CORE, GR 487-CORE, GR 13-CORE, UL 50, ETSI 300-019-xx, IEC 60068-2-xx

### Environmental

#### Highlight

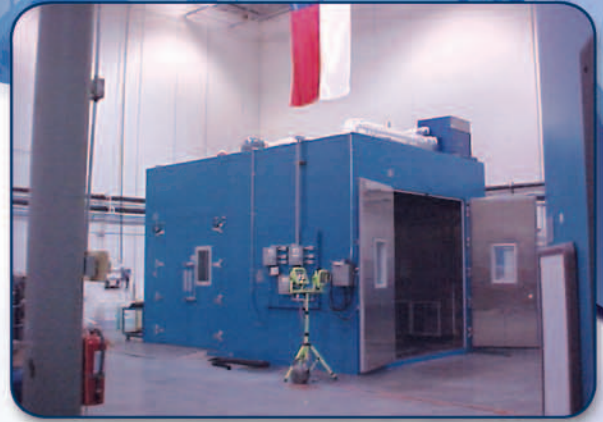
Large selection of temperature/ humidity chambers from 2'x2'x2' to 9'x12'x12' walk-in chambers. Temperature/altitude chamber up to 80,000ft. Acoustic noise, salt fog chambers, Wind driven rain up to 100mph, fire resistance, explosive atmosphere, sand and dust chamber, solar load test.

#### Primary Specification

MIL-STD 810, MIL-STD 202, RTCA DO160, ASTA, ASTM, NEMA, GR 63-CORE, GR 487-CORE, GR 13-CORE, UL 50, ETSI 300-019-xx, IEC 60068-2-xx

## Fixtures

Performance, Vibration, Shock and custom fabrication as required.



*Temperature, Humidity Chamber (13'x19'x12')*



*Centrifuge, 34" Armlength, up to 400rpm*



*Seismic Test, Three Bays Rack, up to 3500lbs (Earthquake test)*



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