

NTS Facility Spotlight: Plano, Texas

Specialists in EMI | Environmental | Dynamics



UAV Testing in EMI Chamber



**NEMP Generator meets
RS 105 and MIL-STD-461**



**Seismic (earthquake) Test,
Three-Bay Rack holds up to
3,500 lbs**

About NTS Plano

Our expert staff has practical experience in both domestic and international approvals. NTS Plano has military, aerospace, commercial electronic, medical and telecommunication test facilities equipped with the latest tools. The laboratory is staffed by test engineers with years of experience and the most up-to-date training to help you with your testing needs. The combination of experience and high-end test systems gives NTS Plano the ability to assist your company in bringing military, aerospace, commercial electronic, medical and telecommunication products to market with speed and efficiency.

EMI / EMC / ESD

NTS Plano is part of the vast NTS EMI/EMC/ESD service offering, which includes five other laboratories across the country. NTS Plano provides EMI/EMC/ESD testing services to a wide variety of industries with MIL-STD 461, MIL-STD 704, MIL-STD 1399 as well as engine running tests. NTS Plano's services also include Military and Aerospace capabilities that cover RS 103, 200V/m, 10KHz to 40GHz, RS 105 EMP as well as indirect lightning effects and multiple burst/multiple stroke lightning up to Level 5 of DO160, Airbus, and Boeing. At NTS Plano, we certify telecommunications products to Network Equipment Building System requirements (NEBS) as well as international standards. Other complete certification that NTS Plano provides include information technology, industrial, and other commercial electronic products to global EMC, and product safety regulatory standards.

NTS Plano has seven EMI chambers, all of which are semi-anechoic and two being three-meter FCC listed chambers. NTS Plano also boasts a 61'L x 36'W x 24'H EMI semi-anechoic chamber with lift and exhaust vent and 14,000lbs of floor loading capabilities.

Environmental / Dynamic

NTS is the largest independent company for environmental/dynamics testing with 12 facilities located nationwide. NTS Plano is a full-service environmental test facility capable of managing your environmental test programs, both for 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 chambers, shakers and drop towers test platforms.

About NTS

National Technical Systems is a trusted partner that helps organizations to access domestic and international markets. We are your single source for a full range of integrated engineering solutions, product testing, standards compliance, project management, engineering and managed services. 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 US or international facilities. NTS is the nation's largest independent standards compliance and product testing company, serving companies within the aerospace, defense, automotive, wireless and telecommunications, electronics, energy, medical devices, software, and hardware markets.



**Semi-Anechoic Chambers /
Radiated Susceptibility**



**Large Selection of Temperature /
Humidity Chambers**



National Technical Systems
1701 E. Plano Parkway #150
Plano, TX 75074

www.nts.com | 1.800.270.2516
sales@nts.com

Highlights and Primary Test Specifications

EMI / EMC / ESD

- ▶ Radiated Susceptibility: Up to 200 V/m, frequency range 10kHz–40GHz, meets RS103 of MIL-STD-461 and RTCA DO 160 requirements
- ▶ Lightning: Multiple stroke, multiple burst, and indirect effects, Level 5 capabilities (meets Boeing/Airbus requirements)
- ▶ Seven semi-anechoic shielded chambers
- ▶ AC powercross on telecommunications
- ▶ RS105 transient electromagnetic field (EMP) test

Primary Specifications

MIL-STD-461/462, MIL-STD-464, AIR BUS, ADS 37, 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

- ▶ Electrodynamic shaker systems: T-4000, T-2000, T-1000, T-514; up to 2" stroke, 9,000–32,000 force pounds, 5Hz–3,000Hz
- ▶ Seismic system: 10.5" stroke, 20,000 force pounds, 0.6Hz–500Hz
- ▶ Seismic testing to GR 63-CORE Zones 1–4
- ▶ Up to 32 channels response, data acquisition, and analysis
- ▶ Static and dynamic load
- ▶ Acceleration up to 200 RPM
- ▶ Shock towers

Primary Specifications

MIL-STD 810, MIL-STD 202, MIL-PRF 28800, MIL-STD 167, RTCA DO 160, ISTA, ASTM, GR 13-CORE, GR 3108, GR 3125, GR3115, GR 63-CORE, GR 487-CORE, UL 50, ETSI 300-019-xx, IEC 60068-2-xx

Environmental

- ▶ A selection of 15 temperature/humidity chambers from 2' x 2' x 2' to 18' x 12' x 12' walk-in chambers
- ▶ Specialty chambers include: temperature/altitude up to 80,000 ft, acoustic noise, salt fog, wind-driven rain up to 100 mph, fire resistance, explosive atmosphere, sand/dust, solar load, HALT/HASS ramp rate up to 140°C per minute and 50Grms, and T-Shock

Primary Specifications

MIL-STD-810, MIL-STD-202, MIL-PRF 28800, RTCA DO 160, ISTA, ASTM, IEC 60529, NEMA 250, GR 13-CORE, GR 49-CORE, GR 63-CORE, GR 487-CORE, GR 937-CORE, GR 3115-CORE, UL 50, ETSI 300-019-xx, IEC 60068-2-xx