

## NTS Facility Spotlight: Tinton Falls, New Jersey

### Specialists in EMI | Environmental | Dynamics



**3 Meter Semi-Anechoic Chamber**



**Ballistic Cannon**



**Fungus Chambers**

#### About NTS Tinton Falls

The laboratory is staffed by test engineers with extensive experience in electromagnetic radiation and susceptibility testing, product safety, dynamics and environmental testing.

Our knowledge of current test and conformity requirements, both domestic and international, can assist clients with product assessment and program test requirements to assure maximum customer acceptance.

Aerospace, Defense, Telecommunications, Transportation, Energy, Medical and many other markets are served by our Tinton Falls location.

#### EMI / EMC / ESD

NTS Tinton Falls is part of the vast NTS EMI/EMC/ESD service offering, which includes six other laboratories across North America. NTS Tinton Falls provides EMI/EMC/ESD testing services to a wide variety of industries with expertise in testing to Military (DoD), Aerospace, Industrial, Commercial and other industry specifications.

NTS Tinton Fall's services also include Military and Aerospace capabilities that cover Radiated Susceptibility (Immunity) at 200V/m, 10 KHz to 40 GHz.

NTS Tinton Falls provides certification of Telecommunications products to Network Equipment Building System requirements (NEBS) as well as international standards. NTS Tinton Falls also provides complete certification of information technology, industrial, and other commercial electronic products to global EMC, and Product Safety regulatory standards.

NTS Tinton Falls has three EMI chambers, all of which are semi-anechoic and two being three-meter FCC listed chambers.

#### Environmental / Dynamic

NTS is the largest independent company for environmental/dynamics testing with 13 facilities. NTS Tinton Falls 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, and vibration to name a few. Capabilities include more than 15 different chambers, Shakers, Catapult, Drop Towers, Impact (hail, stone, small caliber fragments and Bird Strike) 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.



**Metal to Metal Pyroshock**



**Explosive Atmosphere**

## Highlights and Primary Test Specifications

### EMI / EMC / ESD

- ▶ Radiated Susceptibility: Up to 200 V/m, frequency range 10 kHz–40 GHz, meets RS103 of MIL-STD-461 and RTCA/ DO-160 requirements
- ▶ Multiple semi-anechoic shielded chambers

### Primary Specifications

MIL-STD-461/462, RTCA/DO-160, MIL-STD-704A, MIL-STD-1275, IEEE C37.90.1, IEEE C37.90.2, IEEE 1613, GR 1089-CORE, FCC parts 15, 18, 22 & 24, EN 300386, EN 55024, EN 55022, EN 55011, EN 61000-4-xx, EN 61000-3-x, K20 and K21

### Dynamics

- ▶ Electrodynamics shaker systems: T-1000, T-514; up to 1.25" stroke, 9,000–16,000 force pounds, 5Hz–3,000Hz
- ▶ Metal to Metal Pyroshock: Up to 20 KHz; 50K G's
- ▶ Catapult and Drop Towers: Up to 125 msec, 100 G's
- ▶ Ballistics (hail/stone impact and bird strike)

### Primary Specifications

MIL-STD-810, MIL-STD-202, RTCA/DO-160, ISTA, ASTM, FAA, GR 63-CORE, GR 487 CORE, ETSI 300-019-xx and IEC 60068-2-xx

### Environmental

- ▶ Large selection of temperature/humidity chambers from 2' x 2' x 2' to 18' x 12' x 12' walk-in chambers
- ▶ Specialty chambers include: temperature/altitude/humidity testing up to 70,000 ft, acoustic noise, salt fog, wind-driven rain up to 100 mph, explosive atmosphere, sand/dust, solar load, T-Shock, fluid susceptibility, and fungus.

### Primary Specifications

MIL-STD-810, MIL-STD-202, MIL-PRF-28800, RTCA/DO-160, ISTA, ASTM, IEC 60529, NEMA 250, GR 63-CORE, GR 487-CORE, ETSI 300-019-xx, IEC 60068-2-xx

### Product Safety

- ▶ European CE and Domestic Safety Testing, Via TUV (NRTL)

### Primary Specifications

EN 60950, EN 61010, EN 60601, EN 60335

### Fixtures

- ▶ Vibration, shock, and custom fabrication as required.



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