

NTS Facility Spotlight: Los Angeles, California

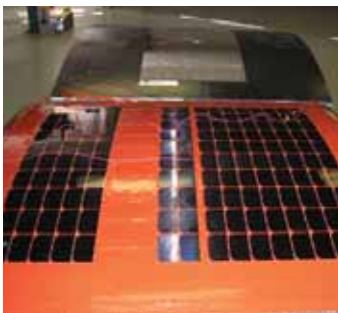
Specialists in Satellite Testing and Precision Cleaning



Vibration Testing



Thermal Cycling Chamber



Instrumented Solar Cells

About NTS Los Angeles

NTS LAX is a single source for a full range of integrated engineering solutions, product testing, standards compliance, technical resources solutions and managed services. NTS leads the industry in testing associated with satellite technology and can custom engineer chambers and fixtures to conduct a complete range of space related phenomena. LAX is a full service environmental test facility capable of managing your environmental test programs both commercial and military.

Satellite Testing

NTS leads the industry in testing associated with satellite technology. For fuel cells, solar panels, composite antennas, batteries and various mechanical and electronic devices, NTS can custom engineer chambers and fixtures to conduct a complete range of space related phenomena. Capabilities include vacuum, space simulation, vibration, shock, acoustic noise, acceleration, bakeout, thermal cycling in large (drivein) chambers (including photogrammetry and low oxygen capability), aging at 125° C/minute transition rate, structural, pressure, helium leak and EMC.

Environmental / Dynamic

NTS LAX is 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 space, thermal, shock, and vibration.

Pressure / Helium Leak Testing

NTS provides extensive pressure and helium leak testing for the Aerospace industry.

Precision Cleaning

NTS has extensive capabilities in the precision cleaning of component parts, assemblies, piping, pressure vessels, heat exchangers and an array of other space hardware. Other processes include pickle and passivation, deoxidation, cryogenic testing, helium leak testing, pressure testing, vacuum bake out, and an incredible number of other ancillary specialized services. NTS services range from commercial oxygen clean to ultra high purity processing, including analysis for particles and nonvolatile residue on virtually any material including stainless steel, aluminum, titanium, beryllium and modern composites. NTS also provides specialized packaging of cleaned and tested hardware.

About NTS

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, project management staffing solutions, engineering and managed services. Globally accredited by leading regulatory agencies, NTS can provide cost-effective programs to meet your requirements at one of our many U.S. or international facilities, or we can provide onsite solutions. NTS is the nation's largest independent standards compliance and product testing company serving companies within the aerospace, defense, automotive, telecommunications, electronics, power, medical device, computer, software and financial markets.



Low Oxygen Atmosphere Chamber



Precision Cleaning

Highlights and Primary Test Specifications

Dynamics

At LAX, combining electro-dynamic vibration and controlled environments simultaneously is routine. Capabilities include: sine, random, sine on random and synthesized shock.

Primary Specifications

- ▶ MIL-STD 810, MIL-STD 202, RTCA D0160, ISTA, ASTM

Environmental

LAX has a large selection of temperature/humidity chambers including: temperature/altitude chamber up to 60,000 feet, space simulators; acoustic noise, salt fog, sand and dust chambers; solar load test; and thermal shock chambers (air-air and liquid-liquid).

Primary Specifications

- ▶ MIL-STD 810, MIL-STD 202, RTCA D0160, ISTA, ASTM, NEMA

Precision Cleaning

Facilities

- ▶ FED-STD-209 Class 10,000 and Class 100 Cleanrooms

Cleaning Capabilities

- ▶ Propellant systems (fuel and oxidizer)
- ▶ Hydraulic components and systems
- ▶ Purge panels
- ▶ Cryogenic components and systems
- ▶ Breathing air systems
- ▶ Hydrogen peroxide components and systems

Other Services

- ▶ Nitric and citric acid passivation
- ▶ Nitric and hydrofluoric acid pickle
- ▶ Hydrofluoric acid etching
- ▶ Aluminum deoxidation

Primary Specifications

- ▶ NASA, AMS, SAE, ARP, ASTM, NAS
- ▶ Industrial cleaning
- ▶ Compressed gas association
- ▶ Aerospace / Defense customers

Typical Products Serviced

- ▶ Piping and tubing
- ▶ Valves and related items
- ▶ Tanks and cylinders
- ▶ Heat exchangers
- ▶ Gauges and instruments
- ▶ Fittings and fasteners
- ▶ Transducers and sensors
- ▶ Fuel and oxidizer ducts
- ▶ Cryogenic and vacuum jacketed piping

ISO/IEC 17025

Pressure and Helium Leak Testing

NTS LAX provides full qualifications and acceptance testing of propellant tanks. Also high pressure and leak testing of lines and components up to 40,000psi.



NTS

WE ENGINEER SUCCESS

National Technical Systems
5320 West 104th Street
Los Angeles, CA 90045

www.nts.com | 1.800.270.2516

sales@nts.com