

NTS MARKET SPOTLIGHT

DEFENSE SERVICES



NTS can manage and operate your test lab or provide on-site engineers and testing at U.S. Military bases



We offer a 3,000-meter firing range, rocket range, and warhead arena test areas

EXPERT SUPPORT SERVICES

NTS provides expert engineering and technical resources to the aerospace and defense industry. Our differentiation is making technical expertise and experience available to our clients, when and where you need it. From managing and operating government test labs to providing on-site engineers and testing at U.S. Military bases, NTS can be your single source for test, inspection and certification services.

DEFENSE FACILITIES HIGHLIGHTS

Our national network of test laboratories provides unique test capabilities including EMI/EMC, dynamics, fiber optics, environmental, fluids/fuels, cryogenics and mechanical. NTS is a source for a full range of integrated engineering solutions, product testing, standards compliance, project management and managed services for the Defense Market.

ORDNANCE, BALLISTICS, BODY AND VEHICLE ARMOR TESTING

This multidisciplinary test facility offers safe, cost-effective, and error-free testing of ordnance, munitions, and hazardous materials. We offer a 3,000-meter firing range, rocket range, warhead arena test areas, indoor/outdoor medium caliber test ranges, drop tower facility, dynamics test facility, and numerous large concrete magazines for storage. NTS also provides a complete solution for Personal Protective Equipment (PPE) and minor armor materials testing. We offer multiple range facilities for terminal ballistics testing of body armor, helmets, equipment, small caliber weapons, and armor materials. Ammunition and targets are environmentally conditioned and state-of-the-art data acquisition and high speed digital video imaging are utilized.

HEAVYWEIGHT SHOCK TEST AND ENGINEERING

NTS is a full-spectrum test and research facility capable of managing the toughest environmental test requirements. NTS engineers are recognized experts in the shock and vibration field, with extensive ship-design experience coupled with years of experience in dynamic structural analysis using an array of finite element analytical tools.

ORDNANCE SCIENCE ENGINEERING

NTS scientists have demonstrated expertise in the development of detailed test plans and procedures to high level program requirements, failure investigation and analysis, ordnance product design, reverse engineering, and the design and development of custom test apparatus.



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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, materials, ballistics and much more. And NTS engineers and technicians have exceptional knowledge in domestic and international test and conformity requirements. Client partners in Aerospace, Defense, Telecom and Energy rely on NTS to deliver quality products to market quickly, and so can you.

SUPPLEMENTARY AMMUNITION, WEAPONS AND MUNITIONS TESTING

Environmental and Dynamics Testing

- MIL-STD-810: All revisions
- MIL-STD-461/462: EMI/EMSR, ESD
- MIL-STD-331: Fuzing, Components
- MIL-STD-167-1: (Ships) - Mechanical Vibrations of Shipboard Equipment
- MIL-S-901: Shipboard Shock (High Impact) Lightweight, Medium Weight, Heavyweight
- Simulation of environments for hazardous articles up to 20 feet long
- Vibration: to 34,000 force lbs. and up to 6-inches of displacement
- Temperature & Humidity: +300 F to -150F, 99% RH
- Altitude: to 90,000 ft with Temperature and Humidity
- Shock and Acceleration: Shock Machine, Pendulum, Pyroshock, 40 ft Drop
- Combined Environments



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Ammunition, Weapons, and Munitions Performance Characterization

Small/Medium/Large Caliber Gun, Mortar and Rocket firing

- Multiple indoor and outdoor ballistics ranges
- Calibers to 155mm and 3000 meters range
- Interior Ballistics—Pressure, Recoil, Downbore Imaging, Muzzle Exit/Sabot Function
- Exterior Ballistics—Velocity, Trajectory, Stability, Sabot Function, TID
- Terminal Ballistics
- Hard, Soft, Structural, Vehicle Targets
- Accuracy, Airburst, Penetration, Fragmentation,
- Range contraction and segmentation

Static Firing of Ammunition/Munitions for Assessment of:

- Blast—Incident, Reflected
- Fragmentation—Recovery, Mapping
- Penetration—Armor, Soil, Vehicles, Structural
- Sympathetic Response
- Fire Start
- Lethality/Vulnerability/Survivability
- Fuzing, Sensor, C3I
- Testing, Timing, Function, Performance
- EMI/EMC—200 volt/meter, 10kHz to 40kHz test capacity
- HERO & ESD

Ammunition, Weapons, Munitions Handling and Storage

- Handling, firing, and render safe operations of AA&E including Category I at ambient and temperature extremes
- Class 1.1 Material Storage
- BATF and FFL licensing for purchasing, receipt, storage, and handling
- Component and System Level Test Articles
- Digital and Film Radiographic Inspection

Test Instrumentation and Documentation

- Pressure, Load, Strain, Acceleration
- Color and Black/White Digital High-Speed Video
- Custom Test Sets and Software Design/Development



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