

NTS Facility Spotlight: Camden, Arkansas

Specialists in Military Weaponry Safety



The 3,000-meter test range utilizes high speed data acquisition and photography to capture live firing results



120mm smooth bore cannon located on the 3,000-meter firing range



MIL-STD-2105C fast cook-off test being performed on high-explosive warhead

About NTS Camden

NTS owns and operates the National Ordnance and Ballistic Test Center in Camden, Arkansas. Established within the original 68,000-acre Shumaker Naval Ammunition Depot and a portion of Highland Industrial Park, the complex is equipped to safely conduct a wide array of severe and dangerous tests on weapon systems, ordnance, rocket motors, hazardous materials and commercial products. NTS Camden is one of the most complete ordnance test facilities in the country and was developed to satisfy the weapons industry's manufacturing and testing needs well into the future.

Engineering Services

As specialists in ordnance and environmental testing, our top priority is to complete each program accurately, on time, and on budget. Each phase of every program is reviewed and managed to ensure personnel safety and program security. Our highly skilled engineers and technicians have years of experience and can anticipate and respond quickly to clients' needs from initial program planning through final documentation. With over 50 years of service to the US Government, military, and commercial sectors, we have the knowledge, experience, and dedication to successfully conduct extensive evaluation and testing programs.

National Ordnance and Ballistic Test Center

The multidisciplinary test facility offers safe, cost-effective, and error-free testing of ordnance, munitions, and hazardous materials including climatic and dynamics testing, functional trials, and live firings. The Center features a 3,000-meter firing range, a rocket range, multiple warhead arena test areas, multiple indoor and outdoor medium caliber test ranges, a drop tower facility, a large dynamics test facility, and numerous large concrete storage magazines for ordnance. The Center also has over 35,000 square feet of enclosed computer-controlled environmental conditioning buildings. NTS performs vibration testing up to 40,000 force pounds on hazardous test items, such as warheads. Hazardous material shakers are capable of functioning at temperatures of -150° to 300°F. Dedicated buildings housing the vibration systems are suited for 1,000 pounds of Class 1.1 explosives and are separated by appropriate distances to limit potential damage.

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, 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 device, software, and hardware markets.

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Our 11'x26' temperature/humidity/altitude chamber is capable of reaching temperatures from -80° to 170° F and simulating altitudes of up to 90,000'



Multiple electrodynamic vibration systems are available, with stroke capabilities up to 3" and force capability up to 40,000 force pounds



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Highlights and Primary Test Specifications

- ▶ MIL-STD-2105 Insensitive Munitions
- ▶ MIL-STD 810
- ▶ Lot acceptance testing
- ▶ Rocket motor firings
- ▶ Weapons evaluation
- ▶ Life cycling
- ▶ Pressure
- ▶ Temperature
- ▶ Acceleration
- ▶ Altitude
- ▶ Ballistics
- ▶ Explosive
- ▶ Fire
- ▶ Fluid testing and hydraulics
- ▶ Icing / freezing rain
- ▶ Pyro shock
- ▶ Salt and fog
- ▶ Sand and dust
- ▶ Shock
- ▶ Temperature and humidity
- ▶ Vibration
- ▶ Wind and rain

Facility Overview

- ▶ 3,000-meter large caliber range
- ▶ 35,000 square feet enclosed climatic conditioning
- ▶ Multiple warhead arena test areas
- ▶ Shoulder-fired rocket range
- ▶ Multiple indoor and outdoor medium ranges
- ▶ Hazardous vibration test up to 40,000 force pounds
- ▶ Numerous large concrete storage magazines for ordnance

Programs and Systems Supported

- ▶ Javelin
- ▶ GMLRS
- ▶ Hydra
- ▶ Claymore Mine
- ▶ Hellfire
- ▶ 120mm Mortar Rounds
- ▶ Patriot
- ▶ 120mm Tank Ammunition
- ▶ M72 LAW
- ▶ Medium Caliber Ammunition
- ▶ Brimstone
- ▶ 81mm Mortars
- ▶ SMAW
- ▶ 40mm Grenades
- ▶ M67 Grenades
- ▶ BLU-series GP Bombs

Fixtures Available

- ▶ Performance, vibration, shock and custom fabrication as required