ABOUT NTS CHESAPEAKE

NTS Chesapeake, formerly Chesapeake Testing, provides ballistic experimentation and non-destructive testing services in support of munitions and protection systems. From our location in northeastern Maryland (near Aberdeen Proving Ground), we combine experimental and testing facilities, the latest testing and measurement equipment, and highly experienced personnel to efficiently meet our customers’ performance schedule, and cost requirements.

BALLISTIC TESTING

NTS Chesapeake is an NVLAP and A2LA ISO/IEC 17025:2005 accredited laboratory, approved by the National Institute of Justice to perform personal body armor testing to NIJ Standard-0101.06 and NIJ Standard-0115.00 Stab Resistance of personal body armor. We are also approved by the U.S. Army Aberdeen Test Center to perform helmet and hard & soft armor testing. Our state-of-the-art facility has climate controlled, indoor firing ranges, a forced entry/ballistic range, a mechanical testing lab, environmental conditioning lab, x-ray/computed tomography scanning lab, non-destructive testing lab and an outdoor range for small and large caliber munitions & blast testing.

SPORTS TESTING

NTS utilizes the most sophisticated Sports Testing Equipment available. Our sports testing division is led by a team of engineers who operate in a laboratory dedicated to testing personal safety equipment used by all athletes and recreation enthusiasts. We are able to test to numerous standards including but not limited to: NOCSAE, ANSI, ASTM, CPSC, DOT, ISO, SNELL and more.

XCT SCANNING & NDT

X-ray Computed Tomography (XCT) scanning has proven to be a very powerful tool in the field of Non-Destructive Testing (NDT). NTS Chesapeake’s XCT Imaging service has the capability to obtain detailed 3D images of the internal dynamics of materials and products, thus eliminating the need for costly and time-consuming destructive inspection. The list of industries and customers who have benefited from our XCT Imaging service is rapidly growing.

ENVIRONMENTAL SIMULATION TESTING

NTS Chesapeake now offers in-house Environmental Simulation for the testing of armor under conditions similar to real world applications. The simulated conditions include extreme cold and heat, moisture and saltwater. Government standards, including the DOD (Department of Defense) and the NIJ (National Institute of Justice) Ballistics Testing standards, have been revised to include parameters for these conditions.

AMMUNITION/FIREARMS TESTING

We also offer outdoor testing including full-up vehicle exploitation, blast testing, structural blast, blast containment testing, and large caliber ballistic testing.
HIGHLIGHTS AND PRIMARY TEST SPECIFICATIONS

**Large Caliber & Blast Testing**
- Medium/Large caliber indoor/outdoor test ranges: .50-cal, 14.5mm, 20mm, 25mm, 30mm
- Dedicated 30mm indoor test range
- Indoor ranges with drive-in capability to accommodate large samples
- Transparent and heavy armor
- Sub-component testing
- Vehicle exploitation
- Full-up vehicle direct fire
- Bare charge & fragmentation testing
- Blast pressure (PPE, doors, windows)
- Component/full-up system level testing

**Firearm & Ammunition Testing**
- **Firearm**
  - Recoil measurement
  - Accuracy & dispersion
  - Shock transmittance
  - Silencer testing
  - Barrel erosion & endurance
- **Ammunition**
  - Pressure
  - Velocity
  - Proof testing
  - Quality control
  - Less-than-lethal
  - Cook-off Testing
  - Projectile characterization
  - Environmental conditioning
  - Corrosive primer & sensitivity
- Personal Protective Equipment (PPE)

**Firearm Safety Devices**
- Lockboxes
- Gun cabinets
- Cable & trigger locks

**Sports Equipment Testing**
- Projectile Air Cannon/Linear Impactor
- Twin Wire & Monorail Drop Towers

**Material/Mechanical Testing & Environmental Conditioning**
- Blunt Impact Helmet Testing
- Compression Testing
- Tension Testing
- Hardness Testing

**Special Services**
- Federal Railroad Administration Glass
- Air Cannon/Building Materials
- Custom Threats & Launch Packages
- Eyewear/Optics
- Stab (NIJ-0115.01)
- SBIR Initiatives
- Triple Gun System
- EOD Bomb Suits
- Fuel Cells
- Bomb Disposal Devices
- Instrumented Headforms
- Weapon Systems
- Customized Test Programs
- Gun Bore Inspection Service
- Non-Destructive Testing
- Physical Security and Forced Entry

**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, wireless, product safety, materials, ballistics and much more. NTS engineers and technicians have exceptional knowledge in all test and conformity requirements, both domestic and international. Our client partners rely on NTS to deliver quality products to market quickly and efficiently, and so can you.