

# ROCK HILL OPERATIONS

Test Range

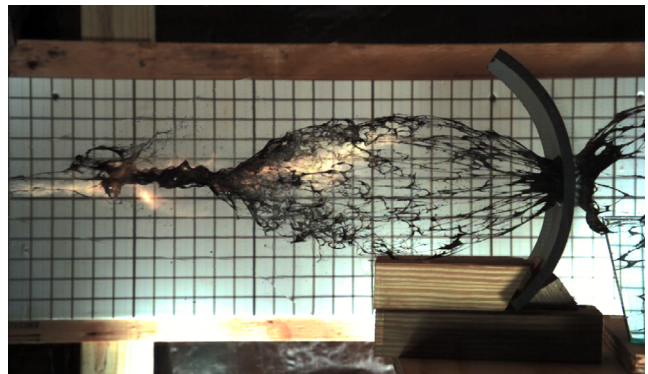
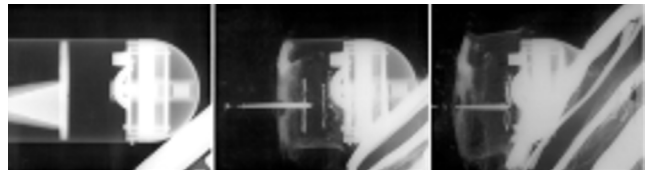
**GENERAL DYNAMICS**  
Ordnance and Tactical Systems  
Rock Hill Facility  
686 OTI Road

OTS FACILITIES

ROCK HILL, FL

## ROCK HILL OVERVIEW

General Dynamics Ordnance and Tactical Systems operates a wholly owned ordnance test range at the eastern boundary of the Eglin Air Force Base reservation near Rock Hill, Florida. The facility is located between DeFuniak Springs and Freeport, approximately 34 miles from the General Dynamics-OTS Niceville Operations. The range facilities are available for many types of research projects and ordnance testing. The total range area covers 803 acres and includes numerous separate outdoor test sites. Explosives are limited to 25lbs TNT equivalent weight for above ground testing. Sophisticated computer controlled electronic systems are available with multi-channel digital acquisition, recording, and control.





## Testing Overview

Approximately 700 tests conducted per year, in support of production and development efforts.

### **ANTI-ARMOR**

- » Shaped Charge/EFP Penetration
- » Flash X-Ray/Jet Characterization

### **BLAST**

- » Overpressure Characterization

### **BALLISTIC**

- » Sled Testing
- » Gun Testing

### **FRAGMENTATION**

- » Lethality Assessment
- » Full Fragment Recovery
- » Flash X-ray

### **SAFETY**

- » Insensitive Munitions (fragment impact, bullet impact, slow and fast cook-off)
- » Packaging Characterization

### **ENVIRONMENTAL**

- » Vibration/Shock
- » Temperature, Altitude, Humidity



## OTS FACILITIES

Rock Hill, FL

### TESTING FACILITIES

- » Multiple outdoor testing arenas
- » Dedicated test facilities for LAT, full fragment recovery, sled, and 40mm ballistic testing
- » Multipurpose test arenas (main arena, AGS arena)
- » Environmental test facilities with shaker and slip table, altitude and humidity chambers, and vibration conditioning

### SUPPORT FACILITIES

- » Explosive operations buildings (test item assembly, target construction, ballistic testing)
- » Wood shop (test stand/setup construction)
- » Metal fabrication shop
- » Electronics shop

- » Radiography shop (inspection x-ray, flash x-ray processing)
- » Explosive storage – 7 earth-covered magazines, 11,000-pound NEW capacity
- » Storage of inert and energetic classified hardware

### INSTRUMENTATION & EQUIPMENT

- » Flash radiography systems (150kV, 450kV) for anti-armor and fragmentation testing
- » Blast overpressure transducers
- » Phantom High-Speed Video and standard speed cameras
- » High speed multi-channel data acquisition systems
- » Precision timing equipment
- » Multiple temperature chambers for inert and energetic hardware



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