

THE VALUE OF PERFORMANCE.

**NORTHROP GRUMMAN**



## ***FMU-143 Penetrating Bomb Fuze System***

**T**he FMU-143 is an electro-mechanical, impact delay fuzing system providing high-explosive penetrating weapons with delayed detonation capabilities, enabling destruction of hardened enemy targets. The system is comprised of the fuze, lanyard/warning flag, forward and aft power cable assemblies, aft fuze retainer and a FZU-32 wind turbine initiator for fuze system power.

### ***Product Features and Benefits***

- Available in multiple configurations
- Fits 3-inch standard bomb tail fuze wells
- In service with U.S., NATO and other allies
- MIL-STD-1316 compliant
- Passed environmental tests of MIL-STD-331 and MIL-STD-810

### **Applications**

The FMU-143 bomb fuze is used with the BLU-109, BLU-113 and BLU-116 penetrating warheads, which are typically configured as JDAM or Paveway precision Guided Bomb Units (GBU). These warheads are designed to survive impact and penetrate deeply into the interior of hardened sites. The FMU-143 fuze system is compatible with U.S. Air Force, Navy, Marine Corps and NATO aircraft.

### **Qualification and Production Data**

- Planned production qualification – May 2015
- Planned first delivery – October 2015

## Specifications

### Technical Data

Weight: 3.6 lb (1.63 kg)  
Length: 9.96 in (256.9 mm) max  
Diameter: 2.87 in (72.9 mm) max  
Power supply: FZU-32 B/B wind turbine initiator

### Performance Data

Safe separation: 12 or 21 seconds  
Detonation delay: 30, 60 and 120 ms configurations  
Shelf life: 10 years (in shipping container)  
Service life: 180 days (out of shipping container)  
Required air speed (arming): More than 270 KCAS



FMU-143 penetrating bomb fuze system

### Available Impact Delay Configurations

Air Force	FMU-143 R/B 30 millisecond	FMU-143 S/B 60 millisecond	FMU-143 T/B 120 millisecond
Navy	FMU-143 K/B 30 millisecond	FMU-143 L/B 60 millisecond	FMU-143 M/B 120 millisecond

### For more information contact:

Don Shutt  
Phone: 763-744-5543  
Email: donald.shutt@ngc.com

**northropgrumman.com**

©2018 Northrop Grumman Corporation.  
All Rights Reserved.

Approved for public release OSR 15-S-2043, July 29, 2015

THE VALUE OF PERFORMANCE.

**NORTHROP GRUMMAN**