GD-OTS’ 25mm Non-Energetic Fragmenting (NEF) Cartridge (Enhanced 25mm PGU-20)
Joint development by:

General Dynamics –
Ordnance and Tactical Systems (GD-OTS)
Marion, Illinois
and
the Army Research and Development Engineering Center (ARDEC)
Picatinny, New Jersey
Delivering Lethality to Target

- Air-to-Air ➔ thin-skinned targets
- Air-to-Ground ➔ armored targets

25mm NEF Cartridge - Enhanced PGU-20

F-35 Lightning II

25mm GAU-22A Cannon

25mm NEF Cartridge
25mm NEF Cartridge – Enhanced PGU-20

IB-52 Pellet

25mm x 137 Steel Cartridge Case

Sintered Iron Rotating Band

Advanced Tungsten Core

M115, Percussion Primer

Ball Powder ® Propellant

Aluminum Projectile Body

Two-piece Nose Cap
Armor Penetration (Air-to-Ground Combat)
• Advanced Tungsten Core – developed by ARDEC to provide significant improvements to standard tungsten alloys.
• V50 Data and Performance Capabilities are classified.
• The 25mm NEF Cartridge (“Enhanced PGU-20”) easily exceeds the Joint Strike Fighter requirements.

More Penetration = Lethality Against More Targets
25mm NEF Cartridge - Enhanced PGU-20

Fragmentation (Air-to-Air Combat)
- Two-Piece Nose Cap – specially designed for transfer of forces to body and core.
- Projectile Body – incorporates features to promote separation and fragmentation of body upon impact with thin-skinned targets.
- Advanced Tungsten Core – provides a large pattern of high density fragments creating damage within the target.

High Density Fragments = More Damage = More Kills
The 25mm NEF Cartridge ("Enhanced PGU-20") provides the JSF war fighter lethality on target whether it is in the air or on the ground.