ELECTROMAGNETIC (EM) RAILGUN
A Game-Changing Technology

Blitzer™ Railgun
Tested in a Proving Ground Environment

• 71 rounds fired to date (nine tests with ¾ scale aerodynamic projectile)

• Subscale demonstration of tactically relevant railgun system including launcher, pulsed power system and projectile

Advanced Containment Launcher (ACL)
Tested at Tactically Relevant Levels

• Tested at tactically relevant levels at Naval Surface Warfare Center, Dahlgren, Va.

• Capable of launching projectiles almost eight times farther (100+ nautical miles) and more than twice the speed of conventional guns (up to 5,600 mph)
EM guns provide significant advantages over conventional gun and missile systems including:

**Faster time to the target and extended range** – EM guns can reliably launch projectiles to muzzle velocities in the range of Mach 6-7+. A round fired at sea level can reach the horizon in 6 to 7 seconds and at that distance still be traveling faster than a conventional gun-launched munition at its muzzle.

**Lethality without high explosives** – In most cases, due to hypersonic launch, the round can achieve its lethality purely kinetically, eliminating the safety and logistic issues with explosives.

**Multi-mission capability** – Since the launch force and resulting muzzle energy can be controlled and tailored for each shot, an EM gun can launch a family of projectiles, with smaller, lower-cost rounds appropriate for cruise missile defense and larger rounds appropriate for ballistic missile defense (BMD) or precision strike.

**Elimination of propellant** – Because rounds are launched electromagnetically, propellant is not required. This results in much smaller rounds, providing “deeper” magazines in a given volume as well as improving safety and reducing logistics burden.

**Lower Cost** – The rounds are projected to be much lower cost than most current ship defense technologies.

**High Fire Power** – With deep magazines and high sustained firing rates, EM guns can provide unprecedented fire power given sufficient power availability.