The BAE Systems guided projectile team has developed the MS-SGP and its saboted variant to meet the U.S. Navy, U.S. Army and U.S. Marine Corps’ requirements for affordable long range precision fire support.

The MS-SGP will provide the U.S. Army, U.S. Navy, U.S. Marine Corps, and U.S. allies with precision long range tactical fires out to a range of 100 km (54 nautical miles). It is compatible with over 1,000 fielded M777 and M109 howitzers in the Army and Marine Corps, and over 200 deployed Mk 45 5-inch (127mm) naval guns.

Volume of Fire – The Mk 45 Mod 4 will deliver 5-Inch fires at a maximum rate of 10 rounds per minute to 100 km (54 nautical miles) to achieve desired volume of fire through effects. Artillery units firing the saboted MS-SGP will deliver a volume of effects on desired area targets out to a maximum range of 85 km.

Precision and Lethality – The MS-SGP delivers all weather precision attack capability (< 10 m CEP) to fully defeat targets with a 16.3 kg (36 lb) high explosive warhead.

Survivability – The MS-SGP is designed to deliver long range precision fires in a GPS jammed or denied environment.

Multi-mission Capability – The MS-SGP can effectively address multiple mission areas including: Land Attack, Surface Attack, Anti-Air defense, and moving targets on land and at sea. It is capable of in-flight retargeting to address relocatable targets. Additionally, MS-SGP can be equipped with an optional Imaging Semi-Active Laser seeker to autonomously address moving targets.

Proven Performance – The MS-SGP has been flight tested to TRL 6/7.

Affordability – The MS-SGP leverages the qualified 155-mm Long Range Land Attack Projectile (LRLAP) and significant industry investment to reduce qualification costs while minimizing production cost.
Specifications

Length: 61 inches/1.5 m
Weight: 110 lbs/50 kg

Range
- M777: 85 km
- Mk 45 Mod 4: 54 nmi

Time of flight: 3 min 15 sec to 70 km

Maximum rate of fire
- M777/M109: 3 rpm
- Mk 45: 10 rpm

MRSI
- Mk 45: 5 rounds within 2 sec per gun

The MS-SGP is compatible with the U.S. Army’s M777 and M109 and the U.S. Navy’s Mk 45.

The MS-SGP guided flight test on June 18, 2013 impacted 1.5 meters from the target, which was 40 km down-range.