



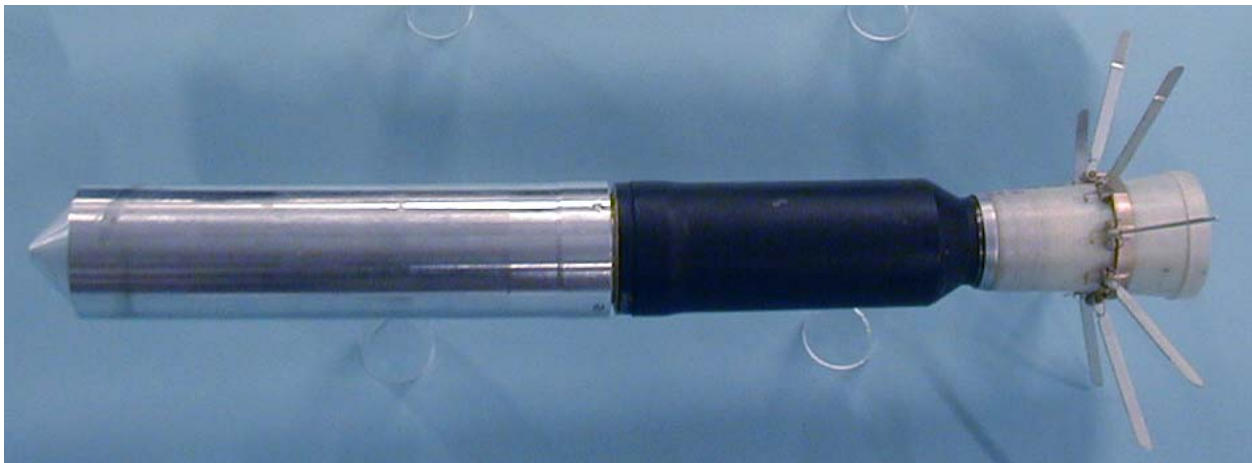
SMAW-D NE

Information Paper

USMC SYSTEM DESCRIPTION: The Shoulder-Launched Multi-purpose Assault Weapon Novel Explosive (SMAW-NE) round consists of an Encased Assault Rocket (EAR) with a Novel Explosive warhead (NE). The SMAW-NE is issued as a round of ammunition, like the HEDP and HEAA, for firing from the reusable Mk 153 launcher. The launcher consists of a rocket launch tube with integral spotting rifle. A disposable magazine with six spotting cartridges is stored external to the encasement to allow ranging and target acquisition. The SMAW-NE is an unguided, free flight assault rocket with a 4 pound enhanced blast explosive charge sealed in an 83 mm expendable encasement tube made of fiberglass and epoxy. The disposable encasement protects the rocket during storage, transportation, and field handling. The SMAW-NE assault rocket consists of the same rocket motor as HEDP and HEAA, and uses an enhanced warhead that performs better than HEDP against certain targets. SMAW-NE functions the same as HEDP for earth and timber bunkers and solid concrete/triple brick walls, but adds the capability to penetrate solid brick, brick faced hollow block, and other light clad walls to detonate on the back side. As with the standard HEDP, the SMAW-NE fuze automatically selects the proper delay mode when the round hits the target to maximize destructive effects. The SMAW-NE program is managed by the U.S. Navy, NSWC at Dahlgren, VA; and SMAW-NE is produced by Talley Defense Systems in Mesa, AZ, USA. NE rounds were delivered in 9 months from development through qualification.

ARMY SYSTEM DESCRIPTION: The proposed SMAW-D NE would have all of the characteristics of the SMAW-NE except it would be loaded into the SMAW-D disposable launcher. Minimal modifications to the SMAW-D launcher assembly will be required to accommodate the increased weight and reduced muzzle velocity of the NE rocket. Since the tactical rocket and launcher are both previously qualified a low risk / fast track approach to qualification is possible.

SMAW-NE Tactical Rocket





SMAW-NE Dynamically Destroying a 2-Story Building



KEY WEAPON CHARACTERISTICS

Nomenclature:	SMAW-D NE	
Caliber:	83 mm	(3.26 in.)
Carry Length:	812 mm	(32.0 in.)
Weight:	9.5 kg	(20.9 lb.)
Warhead:	Novel Explosive Dual Purpose	
Explosive:	1.8 kg	(4.0 lb.) PBXIH-135
Fuze:	Mk 420 Dual Safe, Self Discriminating on Target Impact	
Range	- Max	300 m
	- Effective:	200 m
	- Minimum:	15 m
Muzzle Velocity:	150 m/s	(492 ft/s)
Operating Temp:	-32 to + 60°C (-25 to +140°F)	
Storage Temp:	-45 to + 70°C (-50 to +160°F)	
Shelf Life:	Exceeds 10 Years	

Testing to Qualify

- ITOP Safety Series (96 Rounds)
- MIL-STD-2105 / Hazard Class Test Series (48 Rounds)
- Limited User Test (30 Rounds)

Rounds Ready to Test

- Initial Delivery of Test Rounds 9 Months After Contract Execution.

ADDITIONAL INFORMATION

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