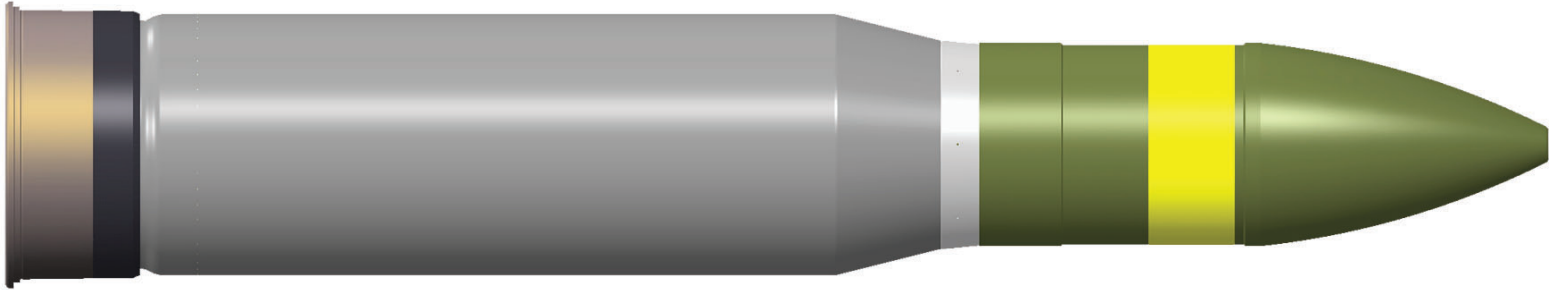


120mm Advanced Multi-Purpose (AMP) Cartridge, High Explosive Multi-Purpose with Tracer, M1147



The Army completed Live Fire testing. The low-rate initial production round did not fully pass the First Article Acceptance Test. The Army is conducting an investigation to determine the cause of the failure. The Full-Rate Production decision has been delayed.

SYSTEM DESCRIPTION

The M1147 120mm Advanced Multi-Purpose (AMP) cartridge is a line of sight, full-bore multipurpose munition employed by Abrams tanks. The AMP cartridge consolidates the capabilities of four cartridges: the M830 High Explosive Anti-Tank cartridge, M830A1 Multi-Purpose AntiTank cartridge, M1028 Canister cartridge, and M908 Obstacle Reduction cartridge, into one cartridge. The AMP cartridge is intended to add new capabilities for breaching walls and against dismounted Anti-Tank Guided Missile (ATGM) teams at extended ranges.

MISSION

Commanders employ units equipped with the M1147 120mm AMP cartridge to close with and destroy the enemy by direct fire across the full range of military operations.

PROGRAM

The 120mm AMP cartridge is an Acquisition Category III program. The program entered Milestone C in December 2020. DOT&E approved the M1147 120mm AMP Test and Evaluation Master Plan, to include the LFT&E Strategy, in December 2020, and the IOT&E plan in August 2021. The Joint Program

Executive Office Armaments and Ammunition expects to make a Full-Rate Production decision after completing the First Article Acceptance Test.

» MAJOR CONTRACTOR

- Northrop Grumman Defense Systems – Plymouth, Minnesota

TEST ADEQUACY

The Army completed explosive reactive armor demonstration shots at Aberdeen Proving Grounds, Maryland, in accordance with DOT&E-approved test plans. DOT&E did not observe the

demonstration shots. DOT&E had access to all data and video from the shots.

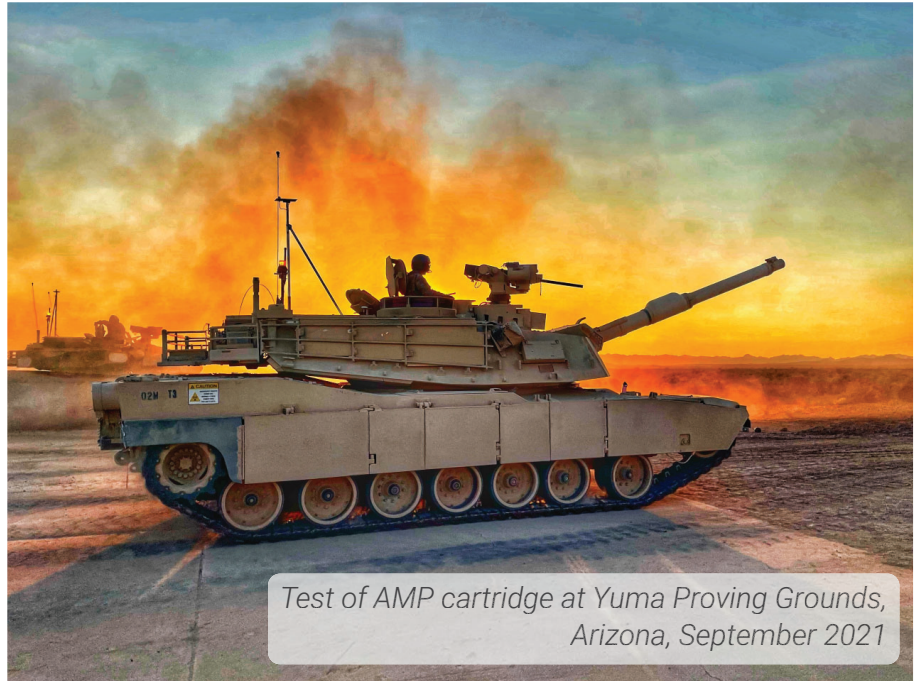
PERFORMANCE

» EFFECTIVENESS, SUITABILITY, AND SURVIVABILITY

DOT&E will provide its assessment of M1147 120mm AMP operational effectiveness, suitability, and survivability in a combined classified report for IOT&E and LFT&E after the program demonstrates airburst reliability requirement has been met.

RECOMMENDATIONS

Recommendations for the M1147 120mm AMP cartridge will be detailed in a combined classified report for IOT&E and LFT&E in 1QFY23.



Test of AMP cartridge at Yuma Proving Grounds, Arizona, September 2021