

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2024 Army **Date:** March 2023

**Appropriation / Budget Activity / Budget Sub Activity:**  
 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles

**P-1 Line Item Number / Title:**  
 6652GM1900 / VEHICLE PROTECTION SYSTEMS (VPS)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	449	-	-	-	-	-	-	-	-	-	449
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	75.286	-	-	-	-	-	-	-	-	-	75.286
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	75.286	-	-	-	-	-	-	-	-	-	75.286
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>75.286</b>	-	-	-	-	-	-	-	-	-	<b>75.286</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	167.675	-	-	-	-	-	-	-	-	-	167.675

**Description:**

The Vehicle Protection Suite (VPS) will evaluate, mature, and integrate onto multiple combat platforms, combinations of active, reactive, and passive survivability capabilities. These capabilities will leverage both Horizontal Technology Integration (HTI) principles and the Army's Modular Active Protection Controller and Framework to develop tailored vehicle survivability sets that will mitigate existing protection gaps, allow for future technology insertion to meet evolving threats, and minimize the impact to the current capabilities hosted on Army ground system platforms.

**(GM1911) - VPS Base Kit with Laser Warning Receiver**

The VPS Base Kit with Laser Warning Receiver (LWR) Program was designated as a Program of Record in August 2018. The Laser Warning Receiver (LWR) will detect enemy military laser aided threats and provide rapid warning of threat type and signal direction to the Modular Active Protection Controller (MAC) via the Modular Active Protection Framework (MAF) Laser Warning Receiver (LWR). It will be able to detect the broad array of laser aided threats that ground combat vehicles will face in a near peer environment Laser Range Finders (LRF), Laser Target Designators (LTD), and Laser Beam Rider Air to Ground Munitions (ATGMs). The system will alert the crew to which of the three categories of threats are targeting the system and allow for the crew to respond based on that threat. Threat timelines are critical to the response of the vehicle crew and the ability to counter the threat. The Laser Warning Receiver will provide early warning to laser aided threat elements. The VPS Base Kit with Laser Warning Receiver is currently planned to be implemented as an Engineering Change Proposal to multiple ground combat vehicle platforms.

**(GM1912) - Signature Management**

The Signature Management (SIGMAN) paint program was designated as a program of record in August 2018. Signature Management reduces the infrared signature of ground combat vehicles. This capability will reduce the probability of enemy detection from classified ranges and wave bands. Signature Management is designed to be integrated with no changes to the combat vehicles' baseline paint. This program is intended to be used on all combat vehicles, with future expansion to other U.S. Army vehicle systems. Signature Management is the Vehicle Protection System baseline layer for the signature management architecture. Future Vehicle Protection technologies may be layered in coordination with this program.

**Passive Protection**

The Passive Protection portfolio includes protection against top attack/aerial threats and medium caliber/kinetic energy threats. The Passive Protection program includes multiple implementation strategies depending on the specific capability within the passive protection portfolio.

**Expedited Active Protection System (ExAPS)**

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2024 Army **Date:** March 2023

**Appropriation / Budget Activity / Budget Sub Activity:** 2033A: Procurement of W&TCV, Army / BA 01: Tracked Combat Vehicles / BSA 20: Modification of Tracked Combat Vehicles **P-1 Line Item Number / Title:** 6652GM1900 / VEHICLE PROTECTION SYSTEMS (VPS)

**ID Code** (A=Service Ready, B=Not Service Ready): **Program Elements for Code B Items:** N/A **Other Related Program Elements:** N/A

**Line Item MDAP/MAIS Code:** N/A

The ExAPS program is executed under the Directed Requirement (DR) to Procure and Rapidly Field Non-Developmental Item (NDI) Active Protection Systems in support of European Deterrence Initiative requirements approved 12 October 2016. The DR included integration on Abrams, Bradley and Stryker. This program executes the platform integration, system/on-platform test activities, logistic product development, and Urgent Material Release (UMR) documentation in support of rapid fielding activities. The ExAPS program pre-positions Non-Developmental Item (NDI) systems specifically selected for each platform around the world in support of current and future engagement requirements.

Combat vehicles face numerous detection systems that operate in the infrared wavelengths. These detection systems can be vehicle mounted, carried by individuals or satellite mounted. The Signature Management - Paint program focuses on vehicle mounted detection systems that operate in specific wavelengths. Future capability may be added to the Signature Management program to address other wavelength gaps, or managed through other future camouflage and concealment programs. The Signature Management program is currently planned to be implemented as a production cut-in and/or retrofit to the enduring fleet onto multiple ground combat vehicle platforms.

Secondary Distribution		FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028
Army	Quantity	449	-	-	-	-	-	-	-	-
	Total Obligation Authority	75.286	-	-	-	-	-	-	-	-
<b>Total: Secondary Distribution</b>	<b>Quantity</b>	<b>449</b>	-	-	-	-	-	-	-	-
	<b>Total Obligation Authority</b>	<b>75.286</b>	-	-	-	-	-	-	-	-

**Justification:**  
There is no FY 2024 budget request for this funding line.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), these items are necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.