

**UNCLASSIFIED**

**Exhibit R-2, RDT&E Budget Item Justification:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>
---	---

COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	46.082	13.736	7.703	13.594	-	13.594	6.025	6.112	5.840	5.957	Continuing	Continuing
S910: <i>SOF Tactical Vehicles</i>	46.082	13.736	7.703	13.594	-	13.594	6.025	6.112	5.840	5.957	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This program element provides for the development and testing of a variety of capability upgrades to Special Operations Forces (SOF) Vehicles and ancillary equipment. Current SOF tactical vehicles are categorized into Light, Medium, Heavy, and Commercial, and include the following: Ground Mobility Vehicle (GMV 1.1); Non-Standard Commercial Vehicle (NSCV); Light Tactical All-Terrain Vehicle (LTATV); Mine Resistant Ambush Protected (MRAP) Vehicle; Joint Light Tactical Vehicle (JLTV); and SOF Communication kits for multiple platforms. The SOF mission mandates that SOF vehicles remain technologically superior, operate in multiple environments, and be able to meet any threat to provide a maximum degree of survivability. These technologies will be pursued via rapid prototyping efforts when appropriate.

The total cost of the MRAP - Stryker Command, Control, Computers, Communications, Cyber-defense Intelligence, Surveillance, and Reconnaissance (C5ISR) Middle Tier of Acquisition effort is \$11.336 million, including RDT&E and procurement of prototype units. This effort was funded \$6.336 million in FY 2022 and will conclude prior to FY 2023.

<b>B. Program Change Summary (\$ in Millions)</b>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>
Previous President's Budget	14.256	7.703	0.000	-	0.000
Current President's Budget	13.736	7.703	13.594	-	13.594
Total Adjustments	-0.520	0.000	13.594	-	13.594
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.520	-			
• Adjustments to Budget Year	-	-	13.594	-	13.594

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** S910: *SOF Tactical Vehicles*

Congressional Add: *Next Generation Combat Vehicles*

Congressional Add Subtotals for Project: S910

	<u>FY 2021</u>	<u>FY 2022</u>
	4.818	-
	4.818	-

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2023 United States Special Operations Command	<b>Date:</b> April 2022
---	-------------------------

<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>
---	---

<b>Congressional Add Details (\$ in Millions, and Includes General Reductions)</b>		<b>FY 2021</b>		<b>FY 2022</b>
	Congressional Add Totals for all Projects	4.818		-

**Change Summary Explanation**

Funding:

FY 2021: Net decrease of -\$0.520 million is due to a reprogramming of funds to the congressionally mandated Small Business Innovative Research (SBIR) / Small Business Technology Transfer (STTR) programs.

FY 2022: None.

FY 2023: Funding increase of \$13.594 million reflects the fact that the FY 2022 President’s Budget request did not include out-year funding.

Schedule: None.

Technical: None.

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command										<b>Date:</b> April 2022		
<b>Appropriation/Budget Activity</b> 0400 / 7					<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>				<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023 Base</b>	<b>FY 2023 OCO</b>	<b>FY 2023 Total</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
S910: <i>SOF Tactical Vehicles</i>	46.082	13.736	7.703	13.594	-	13.594	6.025	6.112	5.840	5.957	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Family of Special Operations Vehicles (FSOV) program develops, tests, and evaluates Special Operations Forces (SOF) Tactical Vehicles and associated modifications. FSOV engages in annual technology insertion efforts, to include rapid prototyping/fielding efforts targeted at ground vehicle capability enhancements across the mobility, survivability, payload, and durability spectrum. The SOF mission mandates that SOF vehicles remain technologically superior, operate in multiple environments and be able to meet any threat to provide a maximum degree of survivability. The current family of SOF tactical vehicles include: light mobility vehicles; medium mobility vehicles; non-standard commercial vehicles; and heavy mobility vehicles.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
<b>Title:</b> FSOV	8.918	7.703	13.594
<p><b>Description:</b> Funding provides for design/engineering, test, and evaluation costs related to capability upgrades in the following areas: Survivability; Lethality; Signature Management; Mobility/Performance; Communications; and Product Development. These capability upgrades and Engineering Change Proposals (ECPs) are incorporated across the FSOV portfolio of vehicles: Ground Mobility Vehicle (GMV 1.1); Non-Standard Commercial Vehicle (NSCV); Light Tactical All-Terrain Vehicle (LTATV); Mine Resistant Ambush Protected (MRAP) Vehicle; and the Joint Light Tactical Vehicle (JLTV).</p> <p><b>FY 2022 Plans:</b> Continue the design/development and integration of ECPs that implement capability upgrades and improves the performance of the NSCV, GMV 1.1, LTATV, MRAP, and JLTV platforms. Continue integration and testing of designated Counter-Unmanned Aerial System (C-UAS)/Precision Strike System (PSS) on vehicles platforms. In addition, initiate development and Test and Evaluation phase of autonomous integration into LTATV. FY 2022 funding also includes the technology development and/or insertion efforts for Alternative Position Navigation Timing (A-PNT), Signature Reduction, 360 degree situational awareness (SA), NSCV Blast Vulnerability study, and other SOF mobility platform efforts.</p> <p><b>FY 2023 Plans:</b> Continues the development and integration of ECPs that implement capability upgrades and improves the performance of NSCV, GMV 1.1, LTATV, MRAP and JLTV platforms. Continues the development, integration and testing of C-UAS/PSS, Signature Reduction, and 360 degrees SA on vehicle platforms. FY 2023 funding also includes the development, integration and testing of Autonomous Capabilities, Test and Evaluation of LTATV Hybrid/Electric, and JLTV SOF Mods and other SOF mobility platforms. Completes A-PNT and NSCV Blast Vulnerability Study.</p> <p><b>FY 2022 to FY 2023 Increase/Decrease Statement:</b></p>			

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2023 United States Special Operations Command		<b>Date:</b> April 2022
<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>	<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2021</b>	<b>FY 2022</b>	<b>FY 2023</b>
Increase of \$5.891 million will support GMV 1.1, LTATV, and NSCV test and evaluation validation efforts for Automotive Command, Control, Communications, Computers, and Intelligence (C4I). Increase will also allow for continued modernization of FSOV fleet, development of SOF JLTV ECPs, development and testing of Signature Management ECPs, development of integrated battlefield 360 SA systems, communication kit ECPs, and performance improvements.			
<b>Accomplishments/Planned Programs Subtotals</b>	8.918	7.703	13.594

	<b>FY 2021</b>	<b>FY 2022</b>
<b>Congressional Add:</b> Next Generation Combat Vehicles	4.818	-
<b>FY 2021 Accomplishments:</b> Funding was used to demonstrate the applicability of carbon fiber and graphitic carbon foam and their potential to reduce overall vehicle weight, while simultaneously reducing maintenance and sustainment activities that are normally associated with traditional vehicle designs. Program increase was used to collaborate with the Army on carbon fiber and lightweight carbon foam materials, as well as enhance our existing efforts.		
<b>Congressional Adds Subtotals</b>	4.818	-

**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u> <u>Base</u>	<u>FY 2023</u> <u>OCO</u>	<u>FY 2023</u> <u>Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0204TACVEH: <i>Tactical Vehicles</i>	33.148	36.806	51.605	-	51.605	58.386	58.654	60.075	24.605	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

Apply SOF-Peculiar modifications to service common or Commercial Off The Shelf (COTS) vehicles whenever possible. Otherwise, incorporate purpose-built, Non-Developmental Item, or modified COTS vehicles if/when service solution is unavailable.

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>	<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>
--	---	---

<b>Product Development (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Family of Special Operations Vehicles (FSOV) Ground Mobility Vehicle (GMV) 1.1 Capability Enhancements / Engineering Change Proposal (ECP) Development	Various	Various : Various	15.594	1.350	Nov 2020	1.222	Feb 2022	1.000	May 2023	-		1.000	Continuing	Continuing	-
FSOV Non-Standard Commercial Vehicle (NSCV) Capability Enhancements / ECP Development	Various	Various : Various	6.804	1.650	Nov 2020	-		0.594	Jul 2023	-		0.594	Continuing	Continuing	-
FSOV Light Tactical All-Terrain Vehicle (LTATV) Capability Enhancements / ECP Development	Various	Various : Various	0.985	0.700	Jul 2021	3.031	Dec 2021	0.500	Nov 2022	-		0.500	Continuing	Continuing	-
Mine Resistant Ambush Protected (MRAP) Vehicle Capability Enhancements/ ECP Development	Various	Various : Various	0.586	1.100	Nov 2020	2.300	Jan 2022	1.000	Mar 2023	-		1.000	Continuing	Continuing	-
FSOV Joint Light Tactical Vehicle (JLTV) Capability Enhancements / ECP Development	Various	Various : Various	0.750	1.000	Nov 2020	-		4.000	Dec 2022	-		4.000	Continuing	Continuing	-
FSOV GMV 1.1 and NSCV Survivability Enhancement/ Improvement Efforts	Various	Various : Various	1.586	0.450	Feb 2021	0.650	Apr 2022	0.750	Mar 2023	-		0.750	Continuing	Continuing	-
Next Generation Combat Vehicles Congressional Plus-Up	Various	Various : Various	-	4.818	May 2021	-		-		-		-	0.000	4.818	-
Prior Year Funding	Various	Various : Various	0.385	-		-		-		-		-	0.000	0.385	-
Prior Year Funding (OCO)	C/Various	Various : Various	0.725	-		-		-		-		-	0.000	0.725	-
<b>Subtotal</b>			27.415	11.068		7.203		7.844		-		7.844	Continuing	Continuing	N/A

**UNCLASSIFIED**

**Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 United States Special Operations Command** **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>	<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>
--	---	---

<b>Support (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prior Year Funding	Various	Various : Various	4.476	-		-		-		-		-	0.000	4.476	-
<b>Subtotal</b>			4.476	-		-		-		-		-	0.000	4.476	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
GMV 1.1 Test and Evaluation Validation Efforts (Automotive, Command, Control, Communications, Computers, and Intelligence (C4I), Ballistics, Operator Events)	Various	Various : Various	0.721	1.363	Jan 2021	0.250	Mar 2022	1.500	Mar 2023	-		1.500	Continuing	Continuing	-
NSCV Test and Evaluation Validation Efforts (Automotive, C4I, Ballistics, Operator Events)	Various	Various : Various	2.600	1.305	Nov 2020	0.250	Mar 2022	2.000	Jan 2023	-		2.000	Continuing	Continuing	-
LTATV Test and Evaluation Efforts	Various	Various : Various	1.181	-		-		2.250	Jan 2023	-		2.250	Continuing	Continuing	-
Prior Year Funding	Various	Various : Various	9.689	-		-		-		-		-	0.000	9.689	-
<b>Subtotal</b>			14.191	2.668		0.500		5.750		-		5.750	Continuing	Continuing	N/A

	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract		
<b>Project Cost Totals</b>		46.082	13.736	7.703	13.594	-		13.594	Continuing	Continuing	N/A

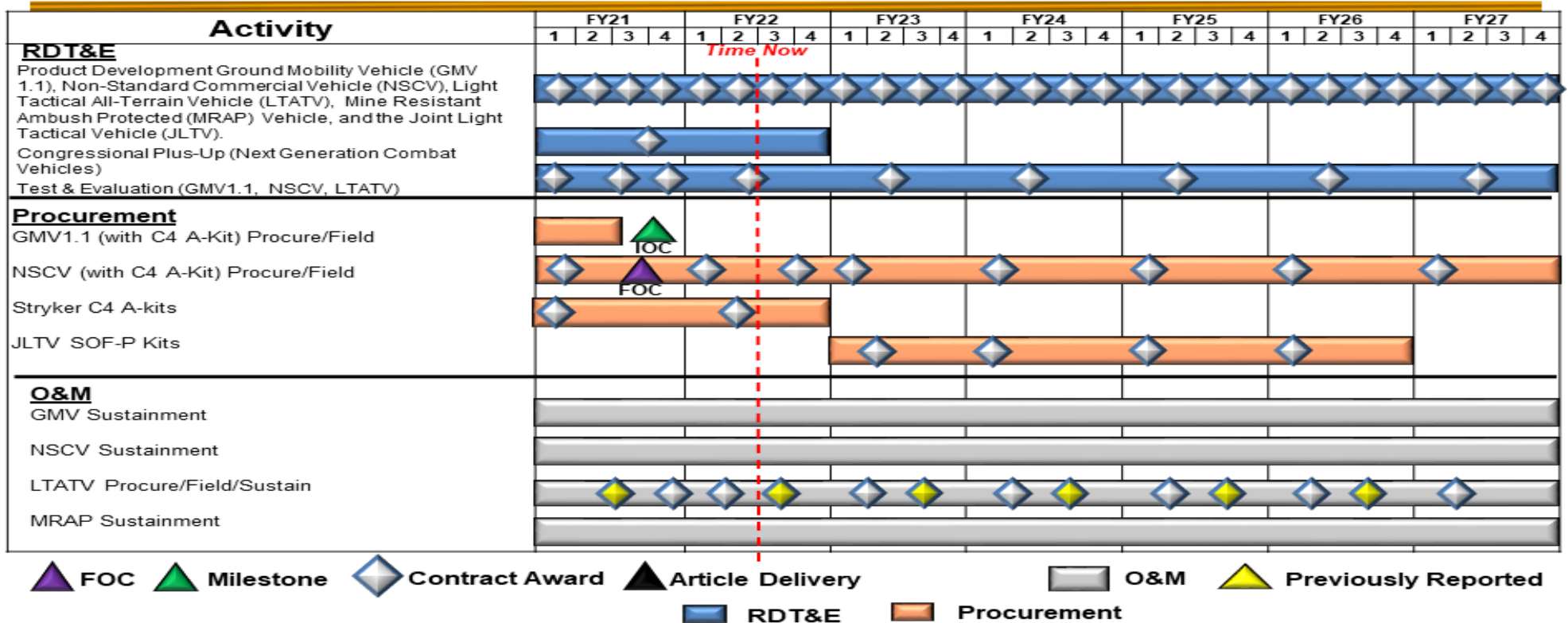
**Remarks**

Appropriation/Budget Activity  
0400 / 7

R-1 Program Element (Number/Name)  
PE 1160480BB / SOF Tactical Vehicles

Project (Number/Name)  
S910 / SOF Tactical Vehicles

# Family of Special Operations Vehicles (FSOV) Schedule



**UNCLASSIFIED**

**Exhibit R-4A, RDT&E Schedule Details:** PB 2023 United States Special Operations Command **Date:** April 2022

<b>Appropriation/Budget Activity</b> 0400 / 7	<b>R-1 Program Element (Number/Name)</b> PE 1160480BB / <i>SOF Tactical Vehicles</i>	<b>Project (Number/Name)</b> S910 / <i>SOF Tactical Vehicles</i>
--	---	---

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Family of Special Operations Vehicles (FSOV)</i></b>				
Ground Mobility Vehicle (GMV) 1.1 Product Development	1	2021	4	2027
Non-Standard Commercial Vehicle (NSCV) Product Development	1	2021	4	2027
Light Tactical All-Terrain Vehicle (LTATV) Product Development	1	2021	4	2027
Mine Resistant Ambush Protected (MRAP) Vehicle Product Development	1	2021	4	2027
Joint Light Tactical Vehicle (JLTV) Product Development	1	2021	4	2027
Next Generation Combat Vehicles Congressional Plus-Up	1	2021	4	2022
GMV 1.1 Test & Evaluation	1	2021	4	2027
NSCV Test & Evaluation	1	2021	4	2027
LTATV Test & Evaluation	1	2021	4	2027