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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 United States Special Operations Command **Date:** May 2021

Appropriation/Budget Activity 0400: <i>Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 1160480BB / <i>SOF Tactical Vehicles</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	34.947	11.104	14.256	7.703	-	7.703	-	-	-	-	-	-
S910: <i>SOF Tactical Vehicles</i>	34.947	11.104	14.256	7.703	-	7.703	-	-	-	-	-	-

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: Light Tactical All-Terrain Vehicles (LTATV), Ground Mobility Vehicles (GMV 1.1), Mine Resistant Ambush Protected (MRAP) vehicles, Non Standard Commercial Vehicles (NSCV), Joint Light Tactical Vehicle (JLTV), and SOF Coms kits for Stryker. 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 FY 2022 funding request was reduced by \$7.808 million to account for the availability of prior year execution balances.

FY 2022 Fiscal Balancing: -\$0.884 million decrease is attributed to the reductions necessary to accommodate budget realities and directed strategy driven changes. Reduces Family of Special Operations Vehicles (FSOV) Test and Evaluation (T&E) on GMV 1.1 Hybrid electric prototypes.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	11.150	9.263	4.191	-	4.191
Current President's Budget	11.104	14.256	7.703	-	7.703
Total Adjustments	-0.046	4.993	3.512	-	3.512
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-0.007			
• Congressional Rescissions	-	-			
• Congressional Adds	-	5.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.397	-			
• Other Adjustments	0.351	-	3.512	-	3.512

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

Project: S910: *SOF Tactical Vehicles*

Congressional Add: *Next Generation Combat Vehicles*

	FY 2020	FY 2021
	-	5.000

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Congressional Add Details (\$ in Millions, and Includes General Reductions)	FY 2020	FY 2021
Congressional Add Subtotals for Project: S910	-	5.000
Congressional Add Totals for all Projects	-	5.000

Change Summary Explanation

Funding:

FY 2020: Net decrease of \$0.046 million is due to the transfer of funds to Small Business Innovative Research/Small Business Technology Research Transfer programs (SBIR/STTR) (\$0.397 million) and funding made available from PE 1160431BB to support emerging command requirements in the year of execution (\$0.351 million).

FY 2021: Net increase of \$4.993 million is due to Congressional program increase for Next Generation Combat Vehicles (\$5.000 million) and a Defense Wide (DW) non-programmatic reduction (\$0.007 million).

FY 2022: Increase of \$3.512 million is in support of modernizing the Family of Special Operations Vehicles (FOSOV) fleet in support of the National Security Strategic Guidance. Modernization efforts include LTATV autonomy, signature management/reduction, and NSCV vulnerability evaluation.

Schedule: None.

Technical: None.

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Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160480BB / <i>SOF Tactical Vehicles</i>				Project (Number/Name) S910 / <i>SOF Tactical Vehicles</i>			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
S910: <i>SOF Tactical Vehicles</i>	34.947	11.104	14.256	7.703	-	7.703	-	-	-	-	-	-
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)

	FY 2020	FY 2021	FY 2022
Title: FSOV	11.104	9.256	7.703
<p>Description: 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 Non-Standard Commercial Vehicle (NSCV), Ground Mobility Vehicle (GMV 1.1), Light Tactical All-Terrain Vehicle (LTATV), Mine Resistant Ambush Protected (MRAP) vehicle, and the Joint Light Tactical Vehicle (JLTV).</p> <p>FY 2021 Plans: Continue design/development and integration of ECPs that implement capability upgrades and improve the performance of the NSCV, GMV 1.1, LTATV, MRAP, and JLTV vehicles. Initiate test and evaluation for hybrid/electric GMV 1.1 and Purpose Built NSCV. In addition, FSOV will initiate integration and test of designated Counter-Unmanned Aerial System (C-UAS)/Precision Strike Systems (PSS) on vehicle platforms to ensure performance of both systems with minimal adverse impacts. FY 2021 also includes technology development and insertion efforts for Autonomous LTATV, Acoustic Signature Reduction, Transferable Armor, and other SOF modification upgrades. Complete Purpose-Built NSCV testing.</p> <p>FY 2022 Plans: Continues 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. FSOV will continue integration and test of designated Counter-Unmanned Aerial System (C-UAS)/Precision Strike System (PSS) on vehicles platforms. In addition, initiates development and Test and Evaluation phase of autonomous integration into LTATV. FY 2022 also includes the technology development and/or insertion efforts for Alternative Position Navigation Timing (A-PNT), Signature Reduction, 360 degree situational awareness, NSCV Blast Vulnerability study, and other SOF mobility platform efforts.</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>			

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2020	FY 2021	FY 2022
Decrease of \$1.553 million is due to completion of Purpose-Built NSCV testing.			
Accomplishments/Planned Programs Subtotals	11.104	9.256	7.703

	FY 2020	FY 2021
Congressional Add: Next Generation Combat Vehicles	-	5.000
FY 2021 Plans: Program increase will be used to collaborate with the Army on carbon fiber and lightweight carbon foam materials, as well as enhance our existing efforts		
Congressional Adds Subtotals	-	5.000

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

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• PROC/0204TACVEH: <i>Tactical Vehicles</i>	119.107	33.148	26.806	-	26.806	-	-	-	-	-	-

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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 United States Special Operations Command **Date:** May 2021

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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Family of Special Operations Vehicles (FSOV) Ground Mobility Vehicle (GMV) 1.1 Capability Enhancements / Engineering Change Proposal (ECP) Development	Various	Various : Various	13.886	1.708	Dec 2019	1.350	Nov 2020	1.222	Feb 2022	-		1.222	Continuing	Continuing	-
FSOV Non-Standard Commercial Vehicle (NSCV) Capability Enhancements / ECP Development	Various	Various : Various	1.156	5.648	May 2020	1.650	Nov 2020	-		-		-	0.000	8.454	-
FSOV Light Tactical All-Terrain Vehicle (LTATV) Capability Enhancements / ECP Development	Various	Various : Various	0.985	-		0.700	Jul 2021	3.031	Dec 2021	-		3.031	Continuing	Continuing	-
Mine Resistant Ambush Protected (MRAP) Capability Enhancements/ ECP Development	Various	Various : Various	-	0.586	Sep 2020	1.100	Nov 2020	2.300	Jan 2022	-		2.300	Continuing	Continuing	-
FSOV Joint Light Tactical Vehicle (JLTV) Capability Enhancements / ECP Development	Various	Various : Various	-	0.750	Apr 2020	1.000	Nov 2020	-		-		-	0.000	1.750	-
FSOV GMV 1.1 and NSCV Survivability Enhancement/ Improvement Efforts	Various	Various : Various	1.134	0.452	Nov 2019	0.450	Feb 2021	0.650	Apr 2022	-		0.650	Continuing	Continuing	-
Next Generation Combat Vehicles Congressional Plus-Up	Various	Various : Various	-	-		5.000	May 2021	-		-		-	0.000	5.000	-
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	-
Subtotal			18.271	9.144		11.250		7.203		-		7.203	Continuing	Continuing	N/A

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Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	4.445	-		-		-		-		-	0.000	4.445	-
Subtotal			4.445	-		-		-		-		-	0.000	4.445	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	0.339	0.382	Aug 2020	1.363	Jan 2021	0.250	Mar 2022	-		0.250	Continuing	Continuing	-
NSCV Test and Evaluation Validation Efforts (Automotive, C4I, Ballistics, Operator Events)	Various	Various : Various	2.203	0.397	Jun 2020	1.643	Nov 2020	0.250	Mar 2022	-		0.250	Continuing	Continuing	-
LTATV Test and Evaluation Efforts	Various	Various : Various	-	1.181	Aug 2020	-		-		-		-	0.000	1.181	-
Prior Year Funding	Various	Various : Various	9.689	-		-		-		-		-	0.000	9.689	-
Subtotal			12.231	1.960		3.006		0.500		-		0.500	Continuing	Continuing	N/A

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals		34.947	11.104	14.256	7.703	-	-	7.703	Continuing	Continuing	N/A

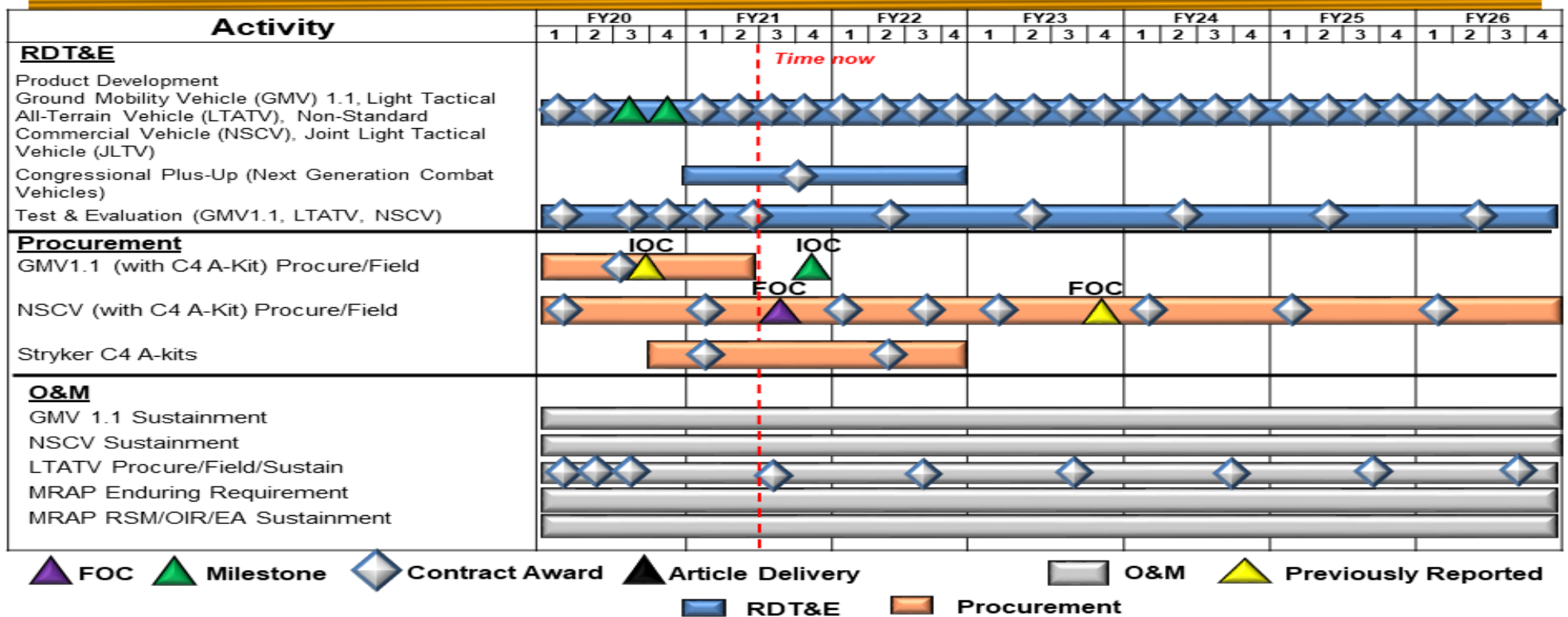
Remarks

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



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Exhibit R-4A, RDT&E Schedule Details: PB 2022 United States Special Operations Command **Date:** May 2021

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Family of Special Operations Vehicles (FSOV)</i>				
Product Development [Ground Mobility Vehicle (GMV) 1.1, Light Tactical All-Terrain Vehicle (LTATV), Non-Standard Commercial Vehicle (NSCV), Joint Light Tactical Vehicle]	1	2020	4	2026
Next Generation Combat Vehicles Congressional Plus-Up	1	2021	4	2022
Test & Evaluation (GMV 1.1, LTATV, NSCV)	1	2020	4	2026