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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 United States Special Operations Command **Date:** February 2020

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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	40.218	1.806	11.150	9.263	-	9.263	4.191	5.221	4.820	4.916	Continuing	Continuing
S910: <i>SOF Tactical Vehicles</i>	40.218	1.806	11.150	9.263	-	9.263	4.191	5.221	4.820	4.916	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: Light Tactical All-Terrain Vehicles (LTATV), Ground Mobility Vehicles (GMV 1.1), Mine Resistant Ambush Protected (MRAP) vehicles, Non Standard Commercial Vehicles (NSCV), and Joint Light Tactical Vehicle (JLTV). 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.

B. Program Change Summary (\$ in Millions)

	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>
Previous President's Budget	1.846	11.150	9.263	-	9.263
Current President's Budget	1.806	11.150	9.263	-	9.263
Total Adjustments	-0.040	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.040	-			

Change Summary Explanation

Funding:

FY 2019: Decrease of \$0.040 million is due to the transfer of funds to Small Business Innovative Research/Small Business Technology Research Transfer programs (SBIR/STTR).

FY 2020: None.

FY 2021: None.

Schedule: None.

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

Technical: None.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 United States Special Operations Command										Date: February 2020		
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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
S910: <i>SOF Tactical Vehicles</i>	40.218	1.806	11.150	9.263	-	9.263	4.191	5.221	4.820	4.916	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Family of Special Operations Vehicles (FSOV) project develops, tests, and evaluates 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 Special Operations Forces (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 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: FSOV	1.806	11.150	9.263	-	9.263
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).					
FY 2020 Plans: Continue design/development and integration of ECPs that implement capability upgrades and improve the performance of the NSCV, GMV1.1, LTATV, and MRAP vehicles. Design and produce prototypes of a hybrid/electric version of the GMV1.1 allowing a reduced audible signature on future missions with an additional goal of reducing the logistical footprint (less moving parts, no fuel, and oils required, etc.). Develop prototypes for a Purpose Built NSCV which will reduce future lifecycle costs and improve offroad mobility and durability for SOF operators. Additional technology development and insertion efforts include NSCV lightweight vehicle/armor design/transition, MRAP Situational Awareness improvements, Electronic Warfare Vulnerability Assessments, and Autonomous LTATV capability studies, and initiate and complete JLTV SOF evaluation and Command, Control, Communications, Computers, and Intelligence/Electronic Counter Measures (C4I/ECMs) design and testing.					
FY 2021 Base Plans:					

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Continues 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. Initiates 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.					
<i>FY 2020 to FY 2021 Increase/Decrease Statement:</i> Decrease of -\$1.887 million is due to the transition of hybrid/electric GMV 1.1 and Purpose Built NSCV developmental prototypes into test and evaluation. Due to this, less funding is required in FY21 since no additional prototypes are planned for production during the test and evaluation phase.					
Accomplishments/Planned Programs Subtotals	1.806	11.150	9.263	-	9.263

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• PROC/0204TACVEH: <i>Tactical Vehicles</i>	142.239	114.122	30.158	2.990	33.148	21.473	21.856	22.298	22.745	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.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 United States Special Operations Command **Date:** February 2020

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Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
FSOV GMV 1.1 Capability Enhancements / ECP Development	Various	Various : Various	13.118	0.768	Dec 2018	2.775	May 2020	1.350	Nov 2020	-		1.350	Continuing	Continuing	-
FSOV NSCV Capability Enhancements / ECP Development	Various	Various : Various	1.156	-		4.035	Apr 2020	1.650	Nov 2020	-		1.650	Continuing	Continuing	-
FSOV LTATV Capability Enhancements / ECP Development	Various	Various : Various	0.920	0.065	Nov 2019	0.050	Dec 2019	0.700	Jul 2021	-		0.700	Continuing	Continuing	-
MRAP Capability Enhancements/ECP Development	Various	Various : Various	-	-		0.825	Apr 2020	1.100	Nov 2020	-		1.100	Continuing	Continuing	-
FSOV JLTV Capability Enhancements / ECP Development	Various	Various : Various	-	-		0.989	Feb 2020	1.000	Nov 2020	-		1.000	Continuing	Continuing	-
FSOV GMV 1.1 and NSCV Survivability Enhancement/Improvement Efforts	Various	Various : Various	0.971	0.163	Jan 2019	1.100	Apr 2020	0.450	Feb 2021	-		0.450	Continuing	Continuing	-
FSOV GMV 1.1 Capability Enhancements / ECP Development Overseas Contingency Operations (OCO)	Various	Various : Various	-	0.725	Feb 2019	-		-		-		-	0.000	0.725	-
Prior Year Funding	Various	Various : Various	0.385	-		-		-		-		-	0.000	0.385	-
Subtotal			16.550	1.721		9.774		6.250		-		6.250	Continuing	Continuing	N/A

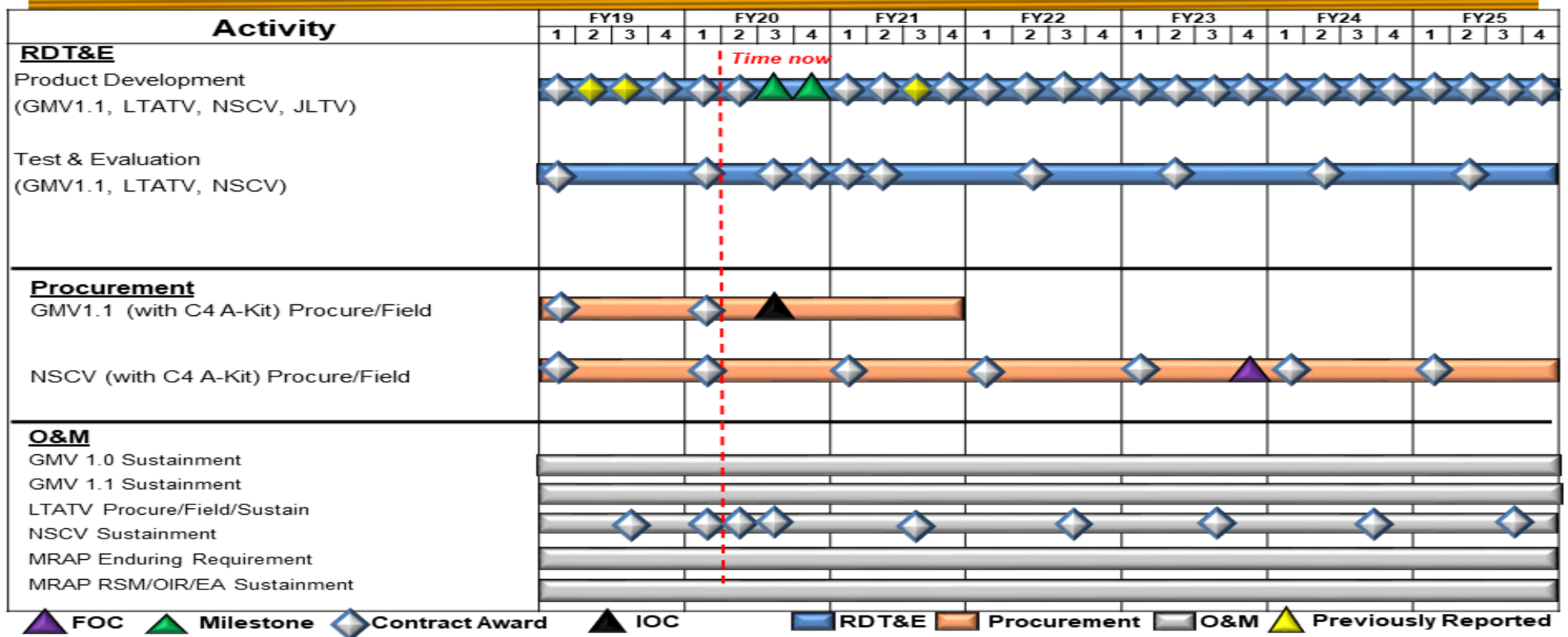
Support (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Prior Year Funding	Various	Various : Various	5.522	-		-		-		-		-	0.000	5.522	-
Subtotal			5.522	-		-		-		-		-	0.000	5.522	N/A

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) PEO-Managed Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2021 United States Special Operations Command **Date:** February 2020

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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 (GMV 1.1, LTATV, NSCV, JLTV)	1	2019	4	2025
Test & Evaluation (GMV 1.1, LTATV, NSCV)	1	2019	4	2025