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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 United States Special Operations Command **Date:** February 2015

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 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	26.359	2.135	3.672	3.212	-	3.212	3.341	2.598	2.645	2.698	Continuing	Continuing
S910: <i>SOF Tactical Vehicles</i>	26.359	2.135	3.672	3.212	-	3.212	3.341	2.598	2.645	2.698	Continuing	Continuing

A. Mission Description and Budget Item Justification

This program element provides for the development and testing of a variety of incremental upgrades to Special Operations Forces (SOF) Vehicles and ancillary equipment. Current SOF tactical vehicles include: Lightweight Tactical All Terrain Vehicles (Light), Ground Mobility Vehicles (Medium), Non-Standard Commercial Vehicles (Commercial) for use in tactical missions, and Mine Resistant Ambush Protected Vehicles (Heavy). 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.

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	2.135	3.672	3.235	-	3.235
Current President's Budget	2.135	3.672	3.212	-	3.212
Total Adjustments	-	-	-0.023	-	-0.023
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Other Adjustments	-	-	-0.023	-	-0.023

Change Summary Explanation

Funding:

FY 2014: None.

FY 2015: None.

FY 2016: Decrease of -\$0.023 million is due to a Departmental economic assumption decrease.

Schedule: None.

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Appropriation/Budget Activity 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 7: Operational Systems Development	R-1 Program Element (Number/Name) PE 1160480BB / SOF Tactical Vehicles	
Technical: None.		

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Exhibit R-2A, RDT&E Project Justification: PB 2016 United States Special Operations Command										Date: February 2015		
Appropriation/Budget Activity 0400 / 7					R-1 Program Element (Number/Name) PE 1160480BB / SOF Tactical Vehicles				Project (Number/Name) S910 / SOF Tactical Vehicles			
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
S910: SOF Tactical Vehicles	26.359	2.135	3.672	3.212	-	3.212	3.341	2.598	2.645	2.698	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project develops, tests, and evaluates Special Operations vehicles and modifications. 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: individual mobility vehicles, light mobility vehicles, medium mobility vehicles, non-standard commercial vehicles, and heavy mobility vehicles.

Family of Special Operations Vehicles (FSOV). This initiative provides for product improvements in the areas of suspension, power management, armor protection and unique vehicle design for all SOF tactical vehicle configurations. Designs must be standardized across all SOF Components that utilize a tactical vehicle. Improvements include, but are not limited to, new engineering change proposals (ECPs), field safety issues and theater endorsed requirements that make it essential to keep up with the increased weight and minimize the impact to mobility on the basic vehicle. FSOV develops, integrates and tests Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR) systems in order to reduce space and power claim on vehicles and develop safety and engineering improvements that specifically address the enemy's changing tactics on the battlefield which typically focuses on survivability, force protection, or mobility. Specific efforts include but are not limited to: Ground Mobility Vehicles (Medium) effort which provides for a medium vehicle variant capable of meeting specific requirements of internal aircraft transport on the C/MH47 and CV-22. The effort also provides for engineering costs related to performance, endurance, safety testing, integration and logistical analysis of product samples. Additionally, efforts include ECPs associated with the Non-Standard Commercial Vehicle (NSCV), the Lightweight Tactical All Terrain Vehicle (LTATV). These ECPs will address any identified safety, reliability, and performance concerns. Finally, funding will be used to support vehicle signature reduction efforts. The Mine Resistant Ambush Protected (MRAP) Vehicle Kit. Effort provides design, prototyping, testing and installation manual development of SOF peculiar integration kits for multiple models of Service-common MRAPs employed by SOF. Kits will enable SOF unique C4ISR installation and Common Remotely Operated Weapon Station integration to service-common MRAPs.

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

	FY 2014	FY 2015	FY 2016
Title: Family of Special Operations Vehicle	2.135	3.672	3.212
FY 2014 Accomplishments: Continued development of ECPs that implement incremental upgrades and improve the design of FSOV GMV medium. The ECPs include adding heating, ventilation, air condition systems, installed electrical receptacles, infrared flood lamps, combat overrides, rear-mounted swivel pintles, safety chains to make vehicle towing capable, gunner restraints, cargo tie-downs, and weapon stowage provisions to the GMV medium vehicles. Completed development, prototyping and testing of FSOV GMV medium.			
FY 2015 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions)								FY 2014	FY 2015	FY 2016	
Continue integration of ECPs that implement incremental upgrades and improve the design of the light and medium mobility vehicles. Efforts include Initial Operational Test and Evaluation (IOT&E) of FSOV GMV medium. Continue enhancements/modifications on the NSCV to improve reliability and survivability.											
FY 2016 Plans: Continues integration of ECPs that implement incremental upgrades and improve the design of the light and ground mobility vehicles (medium). Continues enhancements/modifications on the NSCV to improve reliability and survivability and engineering design changes.											
Accomplishments/Planned Programs Subtotals								2.135	3.672	3.212	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
• PROC: <i>Tactical Vehicles</i>	37.353	63.134	73.520	-	73.520	70.432	65.489	67.843	67.851	Continuing	Continuing
Remarks											
D. Acquisition Strategy Vehicle improvements integrate emerging technology or commercial-off-the-shelf/non-developmental items. Materiel solutions will be procured via existing contracts or through a competitive procurement.											
E. Performance Metrics N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command												Date: February 2015			
Appropriation/Budget Activity 0400 / 7						R-1 Program Element (Number/Name) PE 1160480BB / SOF Tactical Vehicles				Project (Number/Name) S910 / SOF Tactical Vehicles					
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Ground Mobility Vehicles (GMV) Medium Engineering Change Proposal (ECP) Development	MIPR	Naval Air Systems Command : Patuxent River, MD	2.246	0.231	Nov 2013	-		-		-		-	-	2.477	-
FSOV GMV Medium Enviro	WR	TARDEC : Warren, Michigan	0.036	0.054	Nov 2013	-		-		-		-	-	0.090	-
FSOV GMV Medium ECP Development & C4 Integration	C/FFP	General Dynamics - OTS : St. Petersburg, FL	4.900	1.658	Sep 2013	-		2.297	Jun 2016	-		2.297	Continuing	Continuing	-
FSOV Lightweight Tactical All Terrain Vehicles (LTATV) ECP Development	MIPR	TBD : TBD	0.381	-		-		0.312	Oct 2015	-		0.312	Continuing	Continuing	-
FSOV Non-Standard Commercial Vehicles (NSCV) ECP Development/Signature Reduction	MIPR	USSOCOM : Tampa, FL	0.807	-		-		0.603	Jun 2016	-		0.603	Continuing	Continuing	-
Prior Year Funding	Various	Various : Various	0.383	-		-		-		-		-	-	0.383	-
Subtotal			8.753	1.943		-		3.212		-		3.212	-	-	-
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 Medium ECP Development & C4 Integration	C/FFP	General Dynamics - OTS : St. Petersburg, FL	-	-		1.500	Jun 2015	-		-		-	-	1.500	-
FSOV LTATV ECP Development	MIPR	TBD : TBD	-	-		0.372	Oct 2014	-		-		-	-	0.372	-
FSOV NSCV ECP	MIPR	HQ USSOCOM : Tampa, FL	-	-		0.700	Jun 2015	-		-		-	-	0.700	-
Prior Year Funding	Various	Various : Various	3.910	-		-		-		-		-	-	3.910	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 United States Special Operations Command													Date: February 2015		
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>					
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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
Subtotal			3.910	-		2.572		-		-		-	-	6.482	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 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 medium Test Support	MIPR	AEC : Aberdeen Proving Ground, MD	0.000	0.192	Nov 2013	0.100	Jul 2015	-		-		-	-	0.292	-
FSOV GMV medium Initial Operational Test and Evaluation (IOT&E)	MIPR	TBD : TBD	0.000	-		1.000	Jul 2015	-		-		-	-	1.000	-
Prior Year Funding	Various	Various : Various	13.696	-		-		-		-		-	-	13.696	-
Subtotal			13.696	0.192		1.100		-		-		-	-	14.988	-
			Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			26.359	2.135		3.672		3.212		-		3.212	-	-	-
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 United States Special Operations Command

Date: February 2015

Appropriation/Budget Activity

0400 / 7

R-1 Program Element (Number/Name)

PE 1160480BB / SOF Tactical Vehicles

Project (Number/Name)

S910 / SOF Tactical Vehicles

	FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				FY 2020			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
FSOV Ground Mobility Vehicles (GMV Medium) ECP Development and C4 Integration																												
FSOV GMV (Medium) ECP Development and C4 Integration																												
FSOV GMV (Medium) Armor Coupon Testing																												
FSOV GMV (Medium) Armor Coupon Testing																												
FSOV GMV (Medium) Test Support																												
FSOV GMV (Medium) Test Support																												
FSOV GMV (Medium) IOT&E																												
FSOV Lightweight Tactical All Terrain Vehicles (LTATV) ECP Development																												
FSOV LTATV ECP Development																												
FSOV GMV (Medium) Enviro																												
FSOV GMV (Medium) Enviro																												
FSOV GMV (Medium) ECP Development																												
FSOV GMV (Medium) ECP Development																												
FSOV Non-Standard Commercial Vehicles (NSCV) ECP Development/Signature Reduction																												
FSOV NSCV ECP Development/Signature Reduction																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 United States Special Operations Command **Date:** February 2015

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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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>FSOV Ground Mobility Vehicles (GMV Medium) ECP Development and C4 Integration</i>				
FSOV GMV (Medium) ECP Development and C4 Integration	1	2014	2	2014
<i>FSOV GMV (Medium) Armor Coupon Testing</i>				
FSOV GMV (Medium) Armor Coupon Testing	1	2014	4	2014
<i>FSOV GMV (Medium) Test Support</i>				
FSOV GMV (Medium) Test Support	3	2015	4	2015
FSOV GMV (Medium) IOT&E	3	2015	4	2015
<i>FSOV Lightweight Tactical All Terrain Vehicles (LTATV) ECP Development</i>				
FSOV LTATV ECP Development	1	2015	4	2020
<i>FSOV GMV (Medium) Enviro</i>				
FSOV GMV (Medium) Enviro	1	2014	1	2015
<i>FSOV GMV (Medium) ECP Development</i>				
FSOV GMV (Medium) ECP Development	1	2014	4	2020
<i>FSOV Non-Standard Commercial Vehicles (NSCV) ECP Development/Signature Reduction</i>				
FSOV NSCV ECP Development/Signature Reduction	3	2015	4	2020