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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army										Date: February 2015			
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 Program Element (Number/Name) PE 0603766A I Tactical Electronic Surveillance System - Adv Dev								
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	-	10.390	8.953	13.472	-	13.472	16.963	20.952	21.348	21.749	Continuing	Continuing	
907: Tactical Exploitation Of National Capabilities-MIP	-	10.390	8.953	13.472	-	13.472	16.963	20.952	21.348	21.749	Continuing	Continuing	

A. Mission Description and Budget Item Justification

The Tactical Exploitation of National Capabilities (TENCAP) program serves as the Army's centralized lead to perform National Intelligence cross-agency engineering to evaluate, enhance, prototype, and transition Intelligence, Surveillance, and Reconnaissance (ISR) technologies/capabilities developed by Science and Technology (S&T) and other activities across the National Intelligence Community (IC) into Army systems and architectures. TENCAP (1) ensures continued access to current National and Theater sensors and supporting tactical architectures; and (2) exploits new developments that focus on improving the analysis and tasking, collection, processing, exploitation, dissemination and feedback (TCPEDF) of intelligence data. This includes efforts to: (1) shorten targeting timelines down to Platoon level; (2) enhance target identification; (3) provide better target location (accuracy); (4) provide continued coverage of a target; and (5) develop in-theater analytic tools to enable data exploitation in near-real-time support to contingency operations.

<u>B. Program Change Summary (\$ in Millions)</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016 Base</u>	<u>FY 2016 OCO</u>	<u>FY 2016 Total</u>
Previous President's Budget	6.890	8.953	8.938	-	8.938
Current President's Budget	10.390	8.953	13.472	-	13.472
Total Adjustments	3.500	-	4.534	-	4.534
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	3.500	-	4.534	-	4.534

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Appropriation/Budget Activity 2040 / 4					R-1 Program Element (Number/Name) PE 0603766A / Tactical Electronic Surveillance System - Adv Dev				Project (Number/Name) 907 / Tactical Exploitation Of National Capabilities-MIP			
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
907: Tactical Exploitation Of National Capabilities-MIP	-	10.390	8.953	13.472	-	13.472	16.963	20.952	21.348	21.749	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Note												
0603766A - Tactical Electronic Surveillance System program element develops advanced prototypes and capabilities to meet Army intelligence and operational requirements while protecting Army equity and ensuring continued interoperability through changes and improvements in the National Intelligence Community (IC) systems and architectures.												
A. Mission Description and Budget Item Justification												
The Tactical Exploitation of National Capabilities (TENCAP) program serves as the Army's centralized lead to perform National Intelligence cross-agency engineering to evaluate, enhance, prototype, and transition Intelligence, Surveillance and Reconnaissance (ISR) technologies/capabilities developed by Science and Technology (S&T) and other activities across the National Intelligence Community (IC) into Army systems and architectures. TENCAP (1) ensures continued access to current National and Theater sensors and supporting tactical architectures; and (2) exploits new developments that focus on improving the analysis and tasking, collection, processing, exploitation, dissemination and feedback (TCPEDF) of intelligence data. This includes efforts to: (1) shorten targeting timelines down to Platoon level; (2) enhance target identification; (3) provide better target location (accuracy); (4) provide continued coverage of a target; and (5) develop in-theater analytic tools to enable data exploitation in near-real-time support to contingency operations.												
FY2016 Base funding in the amount of \$13.472 million provides for: (1) engineering and collaborative development on multiple validated National Intelligence Community (IC) advanced developments to ensure continuous Army interoperability with those IC assets and architectures; (2) advanced development of more effective intelligence collection, processing, exploitation and dissemination (PED); and (3) advanced development of sensor capabilities for Air Vigilance (AV) Army Program of Record.												
B. Accomplishments/Planned Programs (\$ in Millions)									FY 2014	FY 2015	FY 2016	
Title: TENCAP Cross-agency Core Engineering activities									6.370	8.453	8.953	
Description: Collaborate, develop and exploit emerging multi-intelligence and Space-based technologies to satisfy/accelerate Army Intelligence, Surveillance, Reconnaissance (ISR), Battle Command and Force Protection requirements.												
FY 2014 Accomplishments: Ensure Army requirements in National developments; Ensure Army continued access to sensors and Space-based capabilities; Monitor emerging technologies and systems; Continue to develop and centrally manage the theater net-centric geolocation (TNG)												

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0603766A / Tactical Electronic Surveillance System - Adv Dev	Project (Number/Name) 907 / Tactical Exploitation Of National Capabilities-MIP		
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
capabilities; Exploit advances in commercial imagery and specific emitter identification technologies; Develop prototypes that improve Army intelligence products. FY 2015 Plans: Ensure Army requirements in National developments; Ensure Army continued access to sensors and Space-based capabilities; Monitor emerging technologies and systems; Exploit advances in commercial imagery and specific emitter identification technologies; Develop prototypes that improve Army intelligence products. FY 2016 Plans: Ensure Army requirements in National developments; Ensure Army continued access to sensors and Space-based capabilities; Monitor emerging technologies and systems; Exploit advances in commercial imagery and signal technologies; Develop prototypes that improve Army intelligence products.				
Title: Air Vigilance Description: Enhanced intelligence, force protection, and indications and warning capability initiated under Army TENCAP program. FY 2014 Accomplishments: Advanced sensor development and enhancements for Air Vigilance (AV) Army Program of Record ingest and continued effectiveness. FY 2015 Plans: Advanced sensor development and enhancements for Air Vigilance (AV) Army Program of Record ingest and continued effectiveness. FY 2016 Plans: Advanced sensor development and enhancements for Air Vigilance (AV) Army Program of Record ingest and continued effectiveness.		0.520	0.500	0.515
Title: Advanced Miniaturized Data Acquisition System(AMDAS)/ AMDAS Dissemination Vehicle (ADV) Description: Advanced engineering efforts to ensure continued interoperability and effectiveness of Army Corp level TENCAP subsystems that provide national data to the tactical warfighter via classified system engineering with intelligence community partners FY 2014 Accomplishments:		3.500	-	4.004

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B. Accomplishments/Planned Programs (\$ in Millions)										FY 2014	FY 2015	FY 2016
AMDAS/ADV: Advanced sensor development and prototyping of TENCAP subsystems to ensure alignment with national architecture enhancements as the National Technical Means (NTM) space-based capabilities progress												
FY 2016 Plans: AMDAS/ADV: Advanced sensor development and prototyping of TENCAP subsystems to ensure alignment with national architecture enhancements as the National Technical Means (NTM) space-based capabilities progress												
Accomplishments/Planned Programs Subtotals										10.390	8.953	13.472
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	
• 0605766A RDTE: National Integration To Tactical Systems (MIP), 0605766A	21.132	15.212	10.599	-	10.599	8.970	7.088	8.235	7.216	Continuing	Continuing	
• W60001 OPA: Air Vigilance (AV), OPA2 (W60001)	-	7.000	8.224	-	8.224	0.739	1.526	2.485	2.533	Continuing	Continuing	
Remarks												
D. Acquisition Strategy												
The Army Tactical Exploitation of National Capabilities (TENCAP) mission is a Congressionally mandated and chartered enduring requirement to leverage National intelligence capabilities useful to the tactical Army. The Army TENCAP acquisition strategy is driven by an annual TENCAP General Officer Steering Group (TGOSG), co-chaired by the Army G2; Army G8; and the Military Deputy to the Assistant Secretary of the Army for Acquisition, Logistics, and Technology [ASA(ALT)]; and includes representatives from the Army G3; Army G6; Army Training and Doctrine Command (TRADOC); and the Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&S). The TGOSG reviews, validates, prioritizes, and guides Army TENCAP efforts, according to Army and Defense strategy. Based on this TGOSG guidance, Army TENCAP invests BA 6.4 RDTE in Intelligence Community (IC) developments during the more cost-effective advanced development phase to ensure Army requirements are met with minimal redundancy. Army TENCAP then uses BA 6.5 RDTE to manage the transition of these advanced development efforts through system development and integration into Army Programs of Record (POR). This strategy ensures these leveraged investments remain viable through multiple budget cycles, significantly increasing successful transition to recipient Army POR. With acquisition discipline and oversight provided by PEO IEW&S, Army TENCAP executes the TGOSG approved efforts through use of multiple contracts and agreements with the military, National agencies, Labs, Industry Partners and Academia for the full duration required to complete development and transition these National capabilities into enduring Army programs.												
E. Performance Metrics												
N/A												

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015			
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Management Services (\$ 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
Intelligence Engineers (SETA)	C/FFP	TASC, Inc. : Alexandria, VA	4.801	3.041	Dec 2013	-		-		-		-	Continuing	Continuing	Continuing
Intelligence Engineers (SETA)	C/CPFF	TBD : TBD	0.000	-		3.011	Dec 2014	3.563	Dec 2015	-		3.563	Continuing	Continuing	Continuing
Intelligence Engineers(Matrix Gov)	MIPR	AGC : Alexandria, VA	1.820	0.950	Dec 2013	1.005	Nov 2014	1.028	Nov 2015	-		1.028	Continuing	Continuing	Continuing
Subtotal			6.621	3.991		4.016		4.591		-		4.591	-	-	-
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
TENCAP Core (Focus) Areas	Various	Multiple : Multiple	0.000	-		1.787	Nov 2014	1.130	Dec 2015	-		1.130	Continuing	Continuing	-
Air Vigilance	MIPR	Classified : MIPR	1.928	0.400	Dec 2013	0.400	Nov 2014	0.515	Nov 2015	-		0.515	Continuing	Continuing	Continuing
AMDAS/ADV	MIPR	Classified : MIPR	0.000	3.500	Sep 2014	-		4.004	Dec 2015	-		4.004	Continuing	Continuing	Continuing
Subtotal			1.928	3.900		2.187		5.649		-		5.649	-	-	-
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
Prgm Mgmt-Dir Gov,travel,etc.	Allot	Army TENCAP : Alexandria, VA	4.888	1.611	Oct 2013	1.850	Oct 2014	2.156	Oct 2014	-		2.156	Continuing	Continuing	Continuing
Secured Facilities	MIPR	Army Geospatial : Ft. Belvoir, VA	0.000	0.768	Dec 2013	0.800	Dec 2014	0.656	Nov 2014	-		0.656	Continuing	Continuing	Continuing
Subtotal			4.888	2.379		2.650		2.812		-		2.812	-	-	-

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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
Lab Tests, Exercises, Simulations	MIPR	Multiple : Multiple	0.280	0.120	Dec 2013	0.100	Dec 2014	0.420	Jan 2015	-		0.420	Continuing	Continuing	Continuing
Subtotal			0.280	0.120		0.100		0.420		-		0.420	-	-	-

	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	13.717	10.390	8.953	13.472	-	13.472	-	-	-

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2016 Army																Date: February 2015												
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Event Name	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
CORE Cross-Agency Advanced Development and Engineering	Development with Nat Intel Community																											
(1) TENCAP General Officer Steering Group (TGOSG) - annual - guides																												
(2) TENCAP General Officer Steering Group (TGOSG) - annual - guides																												
(3) TENCAP General Officer Steering Group (TGOSG) - annual - guides																												
(4) TENCAP General Officer Steering Group (TGOSG) - annual - guides																												
(5) TENCAP General Officer Steering Group (TGOSG) - annual - guides																												
(6) TENCAP General Officer Steering Group (TGOSG) - annual - guides																												
AMDAS/ADV Advanced Development and Engineering																												
Air Vigilance Advanced Development and System prototype efforts																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
CORE Cross-Agency Advanced Development and Engineering	4	2006	4	2020
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY17-21 POM	4	2014	4	2014
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY18-22 POM	4	2015	4	2015
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY19-23 POM	4	2016	4	2016
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY20-24 POM	4	2017	4	2017
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY21-25 POM	4	2018	4	2018
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY22-26 POM	4	2019	4	2019
AMDAS/ADV Advanced Development and Engineering	4	2014	1	2023
Air Vigilance Advanced Development and System prototype efforts	3	2013	1	2023