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**Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603766A / <i>Tactical Electronic Surveillance System - Adv Dev</i>
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COST (\$ in Millions)	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO #	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	Cost To Complete	Total Cost
Total Program Element	-	7.960	6.890	8.953	-	8.953	8.938	9.079	9.181	12.048	Continuing	Continuing
907: <i>Tactical Exploitation Of National Capabilities-MIP</i>	-	7.960	6.890	8.953	-	8.953	8.938	9.079	9.181	12.048	Continuing	Continuing

# The FY 2015 OCO Request will be submitted at a later date.

**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, and dissemination (TCPED) 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.

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>
Previous President's Budget	8.660	6.894	9.102	-	9.102
Current President's Budget	7.960	6.890	8.953	-	8.953
Total Adjustments	-0.700	-0.004	-0.149	-	-0.149
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-0.004	-0.149	-	-0.149
• Other Adjustments 1	-0.700	-	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Army										<b>Date:</b> March 2014		
<b>Appropriation/Budget Activity</b> 2040 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0603766A / <i>Tactical Electronic Surveillance System - Adv Dev</i>				<b>Project (Number/Name)</b> 907 / <i>Tactical Exploitation Of National Capabilities-MIP</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO #</b>	<b>FY 2015 Total</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
907: <i>Tactical Exploitation Of National Capabilities-MIP</i>	-	7.960	6.890	8.953	-	8.953	8.938	9.079	9.181	12.048	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

# The FY 2015 OCO Request will be submitted at a later date.

**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, and dissemination (TCPED) 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.

FY2015 Base funding in the amount of \$8.953 million provides for: (1) engineering and Collaborative Development on multiple validated National Intelligence Community (IC) advancements to ensure continuous Army interoperability with those Intelligence Community (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, Article Quantities in Each)**

	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<b>Title:</b> TENCAP Cross-agency Core Engineering activities	5.842	6.370	8.453
<b>Articles:</b>	-	-	-
<b>Description:</b> 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.			
<b>FY 2013 Accomplishments:</b>			

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<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603766A / <i>Tactical Electronic Surveillance System - Adv Dev</i>	<b>Project (Number/Name)</b> 907 / <i>Tactical Exploitation Of National Capabilities-MIP</i>		
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>		<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<p>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/or exploit advancements for integration and standardization in Army processing, exploitation and data dissemination (PED) and theater net-centric geolocation (TNG) capabilities; Exploit advances in commercial imagery, specific emitter identification and full motion video technologies; Develop prototypes that improve Army intelligence products.</p> <p><b>FY 2014 Plans:</b> 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) capabilities; Exploit advances in commercial imagery and specific emitter identification technologies; Develop prototypes that improve Army intelligence products.</p> <p><b>FY 2015 Plans:</b> 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.</p>				
<p><b>Title:</b> Air Vigilance</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> Enhanced intelligence, force protection, and indications and warning capability initiated under Army TENCAP program.</p> <p><b>FY 2013 Accomplishments:</b> Establish new Air Vigilance (AV) Army Program of Record. Development of remote and airborne capabilities.</p> <p><b>FY 2014 Plans:</b> Advanced sensor development and enhancements for Air Vigilance (AV) Army Program of Record ingest and continued effectiveness.</p> <p><b>FY 2015 Plans:</b> Advanced sensor development and enhancements for Air Vigilance (AV) Army Program of Record ingest and continued effectiveness.</p>		2.118	0.520	0.500
		-	-	-
<b>Accomplishments/Planned Programs Subtotals</b>		7.960	6.890	8.953

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<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603766A / <i>Tactical Electronic Surveillance System - Adv Dev</i>	<b>Project (Number/Name)</b> 907 / <i>Tactical Exploitation Of National Capabilities-MIP</i>
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**C. Other Program Funding Summary (\$ in Millions)**

<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u> <u>Base</u>	<u>FY 2015</u> <u>OCO</u>	<u>FY 2015</u> <u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 0605766A RDTE: <i>National Integration To Tactical Systems (MIP), 0605766A</i>	-	21.132	15.212	-	15.212	8.639	3.770	4.500	5.026	Continuing	Continuing
• W60001 OPA: <i>Air Vigilance (AV), OPA2 (W60001)</i>	-	-	7.000	-	7.000	6.000	2.120	2.457	2.507	Continuing	Continuing

**Remarks**

W60001 OPA2 Line renamed to "Air Vigilance" in FY15 to provide better operational security of system capabilities.

**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 2015 Army												Date: March 2014			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 4				PE 0603766A / Tactical Electronic Surveillance System - Adv Dev				907 / Tactical Exploitation Of National Capabilities-MIP							
Management Services (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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	2.375	2.426	Dec 2012	3.041	Dec 2013	-		-		-	Continuing	Continuing	Continuing
Intelligence Engineers (SETA)	C/CPFF	TBD : TBD	0.000	-		-		3.011	Dec 2014	-		3.011	Continuing	Continuing	Continuing
Intelligence Engineers(Matrix Gov)	MIPR	AGC : Alexandria, VA	0.870	0.950	Dec 2012	0.950	Dec 2013	1.005	Dec 2014	-		1.005	Continuing	Continuing	Continuing
<b>Subtotal</b>			3.245	3.376		3.991		4.016		-		4.016	-	-	-
Product Development (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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	Dec 2013	-		1.787	Continuing	Continuing	-
Air Vigilance	MIPR	Classified : MIPR	0.090	1.838	Dec 2012	0.400	Dec 2013	0.400	Dec 2014	-		0.400	Continuing	Continuing	-
<b>Subtotal</b>			0.090	1.838		0.400		2.187		-		2.187	-	-	-
Support (\$ in Millions)				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 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	2.422	2.466	Oct 2012	1.611	Oct 2013	1.850	Oct 2014	-		1.850	Continuing	Continuing	Continuing
Secured Facilities	MIPR	Army Geospatial : Ft. Belvoir, VA	0.000	-		0.768	Dec 2013	0.800	Oct 2014	-		0.800	Continuing	Continuing	Continuing
<b>Subtotal</b>			2.422	2.466		2.379		2.650		-		2.650	-	-	-



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2015 Army		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603766A / <i>Tactical Electronic Surveillance System - Adv Dev</i>	<b>Project (Number/Name)</b> 907 / <i>Tactical Exploitation Of National Capabilities-MIP</i>

	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019							
	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	[REDACTED]																															
Material Development Decision (MDD) for Air Vigilance (AV) Program				■																												
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY16-20 POM								■																								
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY17-21 POM												■																				
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY18-22 POM																■																
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY19-23 POM																																
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY20-24 POM																																
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY21-25 POM																																■
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY22-26 POM																																■

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Army		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 2040 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603766A / <i>Tactical Electronic Surveillance System - Adv Dev</i>	<b>Project (Number/Name)</b> 907 / <i>Tactical Exploitation Of National Capabilities-MIP</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
CORE Cross-Agency Advanced Development and Engineering	4	2006	4	2020
Material Development Decision (MDD) for Air Vigilance (AV) Program	4	2013	4	2013
TENCAP General Officer Steering Group (TGOSG) - annual - guides FY16-20 POM	1	2014	1	2014
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