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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0304270A I Electronic Warfare Development							
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	-	12.828	10.801	8.961	-	8.961	12.693	12.733	11.103	14.157	Continuing	Continuing
EW5: Electronic Warfare Development - MIP	-	9.605	6.079	4.426	-	4.426	7.406	7.351	5.624	5.221	Continuing	Continuing
EW6: ARAT-TSS - MIP	-	3.223	4.722	4.535	-	4.535	5.287	5.382	5.479	8.936	Continuing	Continuing

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

A. Mission Description and Budget Item Justification

FY 2015 budget request funds Electronic Warfare Development. This program element (PE) encompasses engineering and manufacturing development for tactical electronic warfare (EW). EW encompasses the development of tactical EW equipment and systems mounted in both ground and air vehicles. The systems under this program provides the Army with the capability to degrade or deny hostile forces the effective use of their communications, countermortar/counterbattery radars, surveillance radars, infrared/optical battlefield surveillance systems and electronically fused munitions. Existing Army EW systems must be replaced or upgraded to maintain their capability in the face of threats. Prophet Enhanced (PE) is the current system under the Prophet Ground acquisition program. Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. PE provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). The Army Reprogramming Analysis Team (ARAT) Project will develop, test and equip an Army-wide infrastructure capable of rapidly reprogramming electronic combat software embedded in offensive and defensive weapon systems.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	13.942	10.806	16.989	-	16.989
Current President's Budget	12.828	10.801	8.961	-	8.961
Total Adjustments	-1.114	-0.005	-8.028	-	-8.028
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	-8.028	-	-8.028
• Other Adjustments 1	-1.114	-0.005	-	-	-

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>			
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
EW5: <i>Electronic Warfare Development - MIP</i>	-	9.605	6.079	4.426	-	4.426	7.406	7.351	5.624	5.221	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
# The FY 2015 OCO Request will be submitted at a later date.												
A. Mission Description and Budget Item Justification												
Prophet Enhanced (PE) is the current system under the Prophet Ground acquisition program. Funds provide for development and integration of Pre-Planned Product Improvement (P3I) upgrades for Next Generation Signals and state-of-the-art Signals Intelligence (SIGINT) exploitation Techniques to increase the capabilities of the PE and maintain operational relevance. The PE is the tactical commander's sole organic ground-based SIGINT/Electronic Warfare system for the Brigade Combat Team (BCT), Stryker Brigade Combat Team (SBCT), and Battlefield Surveillance Brigade (BfSB). Its primary mission is to provide 24-hour Situation Development and Information Superiority to the supported maneuver brigade to enable the most effective engagement of enemy forces. PE provides a modular, scalable, open architecture-based system solution optimized for ease of use in a variety of configurations (Stationary-Fixed, Mobile and Manpack). It also incorporates productization, integration, and test of equipment for rapid integration of Tech Insertions and product development to ensure operational relevance.												
Justification: FY2015 Base dollars in the amount of \$4.426 million supports the following activities: develops product upgrades for Next Generation Signals and SIGINT exploitation to increase the capabilities of the PE and maintain operational relevance.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: Real-time Signal Processing architectural framework (software defined capabilities) Articles:									4.301	-	-	
									-	-	-	
Description: Develop Real-time Signal Processing architectural framework (software defined capabilities).												
FY 2013 Accomplishments: Develop Real-time Signal Processing architectural framework (software defined capabilities).												
Title: System Integration Lab (SIL) Articles:									1.000	-	-	
									-	-	-	
Description: Stand Up SIL												
FY 2013 Accomplishments:												

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Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Software and Hardware Integration												
<i>Title:</i> Next Generation Signals										4.304	3.008	2.173
<i>Articles:</i>										-	-	-
<i>Description:</i> Prophet P3I effort												
<i>FY 2013 Accomplishments:</i> Prophet P31 effort												
<i>FY 2014 Plans:</i> Prophet P3I effort												
<i>FY 2015 Plans:</i> Prophet P3I effort												
<i>Title:</i> Enhanced SIGINT Exploitation										-	3.071	2.253
<i>Articles:</i>										-	-	-
<i>Description:</i> Prophet P3I effort.												
<i>FY 2014 Plans:</i> Prophet P3I effort.												
<i>FY 2015 Plans:</i> Prophet P3I effort.												
Accomplishments/Planned Programs Subtotals										9.605	6.079	4.426
C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• SSN BZ7326: <i>Prophet Ground (OPA) - BZ7326</i>	48.732	55.398	55.896	-	55.896	57.323	0.652	17.873	44.034	Continuing	Continuing	
• SSN 9751: <i>Special Purpose Systems (MIP OPA) (Prophet Only) - BZ9751</i>	2.409	1.927	3.901	-	3.901	4.011	4.120	4.244	4.520	Continuing	Continuing	

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Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2015</u>	<u>FY 2015</u>	<u>FY 2015</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Complete</u>	<u>Total Cost</u>
Remarks											
Enhanced SIGINT Exploitation: H/W and/or S/W upgrades to increase system performance, to include but not limited to: Tuner upgrade, Processor upgrade, increase in memory, antenna upgrade and operating system upgrade.											
D. Acquisition Strategy											
PE entered production in 2QFY09 via Full and Open competition. The Prophet R&D Acquisition Strategy is structured to maintain operational relevancy of PE systems in a dynamic threat environment while reducing risk and streamlining business and engineering processes. The PE Pre-Planned Product Improvement (P3I) contract supports R&D and other developmental work, it also provides production and sustainment under the Indefinite-Delivery Indefinite-Quantity Contract.											
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 2040 / 5						R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>					
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
Program Management	Various	PM Electronic Warfare : APG, MD	0.181	0.200		0.200		0.200		-		0.200	Continuing	Continuing	Continuing
Subtotal			0.181	0.200		0.200		0.200		-		0.200	-	-	-
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
Software SIL	C/CPFF	GD C4 Systems : Scottsdale, AZ	0.889	-		-		-		-		-	-	0.889	-
Radio/Receiver Inegration (integrate software defined receiver)	C/CPFF	GD C4 Systems : Scottsdale, AZ	4.037	-		-		-		-		-	Continuing	Continuing	Continuing
Integrate Electronic Warfare Systems	C/CPFF	TRAC : Ft. Leavenworth, KS	4.900	-		-		-		-		-	Continuing	Continuing	Continuing
Next Generation Signals (TOS)	C/CPFF	GD C4 Systems : Scottsdale, AZ	1.200	-		-		-		-		-	Continuing	Continuing	Continuing
Precision Geo-Location	C/CPFF	GD C4 Systems : Scottsdale, AZ	4.200	-		-		-		-		-	Continuing	Continuing	Continuing
Real-time Signal Processing architectural framework (software defined capabilities)	C/CPFF	GD C4 Systems : Scottsdale, AZ	3.291	3.415	Jul 2013	-		-		-		-	Continuing	Continuing	Continuing
Next Generation Signals	C/CPFF	GD C4 Systems : Scottsdale, AZ	0.000	3.400	Jul 2013	2.768	Mar 2014	2.070	Mar 2015	-		2.070	Continuing	Continuing	Continuing
Enhance SIGINT Exploitation	C/CPFF	GD C4 Systems : Scottsdale, AZ	0.000	-		2.811	Mar 2014	2.156	Mar 2015	-		2.156	Continuing	Continuing	-
Subtotal			18.517	6.815		5.579		4.226		-		4.226	-	-	-

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Appropriation/Budget Activity 2040 / 5						R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>					
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
Matrix Support	Various	I2WD : APG, MD	0.314	0.350		0.300		-		-		-	-	0.964	-
System Integration Lab	Various	I2WD : APG, MD	1.500	1.000		-		-		-		-	-	2.500	-
Subtotal			1.814	1.350		0.300		-		-		-	-	3.464	-
Test and Evaluation (\$ 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
Prepare and Conduct Delta Testing	MIPR	EPG/AEC : Huachuca, AZ	0.000	1.240		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			0.000	1.240		-		-		-		-	-	-	-
			Prior Years	FY 2013	FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals			20.512	9.605	6.079		4.426		-		4.426	-	-	-	
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army			Date: March 2014		
Appropriation/Budget Activity 2040 / 5		R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>			Project (Number/Name) EW5 / <i>Electronic Warfare Development - 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
Prophet Control/Prophet Analytic Cell Production																												
Production - Prophet Enhanced																												
Fielding - Prophet Enhanced																												
Prophet P3I and TI																												
Delta Testing - P3I (2013)																												
Delta Testing - P3I (2016)																												
Delta Testing - P3I (2018)																												
Contract Award																												
Prophet Modernization																												
Prophet Modernization - Fielding																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army			Date: March 2014
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>	Project (Number/Name) EW5 / <i>Electronic Warfare Development - MIP</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Prophet Control/Prophet Analytic Cell Production	4	2011	1	2014
Production - Prophet Enhanced	2	2009	2	2016
Fielding - Prophet Enhanced	2	2010	2	2017
Prophet P3I and TI	4	2008	4	2020
Delta Testing - P3I (2013)	2	2013	2	2013
Delta Testing - P3I (2016)	2	2016	2	2016
Delta Testing - P3I (2018)	2	2018	2	2018
Contract Award	1	2016	1	2016
Prophet Modernization	1	2016	4	2020
Prophet Modernization - Fielding	1	2017	4	2021

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>				Project (Number/Name) EW6 / ARAT-TSS - MIP			
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
EW6: ARAT-TSS - MIP	-	3.223	4.722	4.535	-	4.535	5.287	5.382	5.479	8.936	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

Note

The Army Reprogramming Analysis Team (ARAT) is a Department of the Army established program to develop techniques, methods, tools and architecture to reprogram mission software embedded in Army Electronic Warfare (EW) systems, Force Protection Systems (FPS), and Target Sensing Systems (TSS) in response to changes in threat signatures. The regulatory guidance directing this mission is contained in AR 525-15, AR 525-22, and AR 95-1. Current military operations are conducted in a rapidly changing threat environment, where Improvised Explosive Devices (IEDs), Infra Red (IR) man-portable air defense systems (MANPADS) seekers, radar-guided surface-to-air-missiles (SAM), laser guided weapons, anti helicopter mines, and targeting sensors are proliferating and evolving. Integrated solutions are required to counter increasingly sophisticated EW threats, and the ARAT reprogramming infrastructure supports the tactical Commander by providing timely rapid-reprogramming of mission software and information dissemination for Army supported. Joint, allied service, EW integrated reprogramming of target acquisition, target engagement, vehicle survivability, and Aircraft Survivability Equipment (ASE). The ARAT rapid-reprogramming infrastructure supports tactical requirements for deployed aircraft and ground-based (e.g. CREW) survivability systems including those deployed in the CENTCOM area of responsibility (AOR). ARAT identifies and analyzes threat signature changes which affect EW, FPS and TSS; determines the impact of observed signature changes; creates new mission data software to adapt the system to changes; disseminates the mission software changes; and provides methods to upload new mission software into the affected EW, FPS and TSS. Each element within the ARAT infrastructure plays a specific role with in the program's rapid reprogramming process, providing the Soldier with the capability to install mission and target identification software at the lowest possible level- maximizing flexibility for tactical commanders. ARAT participates in the operational and developmental test design of Army EW, FPS and TSS, and supports Service and JCS reprogramming Exercises in all theaters. ARAT Research and Development enables continuous development of: 1)automated threat analysis tools to rapidly detect (flag) threat changes within intelligence systems, 2)tools to minimize the time to develop Aviation Mission Data Sets (MDS) and Ground loadsets, 3)tools and technology to minimize the time required to test and validate MDSs and loadsets, 4)improved communications conduits to transmit mission software changes to field users, and 5)enhanced mission-software uploading tools. These efforts allow for rapid threat analysis, simulation, mission software development, distribution and uploading of mission software changes directly to the supported Soldier in the field.

A. Mission Description and Budget Item Justification

Mission Description and Budget Item Justification:The Army Reprogramming Analysis Team (ARAT) is a Department of the Army established program to develop techniques, methods, tools and architecture to reprogram mission software embedded in Army Electronic Warfare (EW) systems, Force Protection Systems (FPS), and Target Sensing Systems (TSS) in response to changes in threat signatures. The regulatory guidance directing this mission is contained in AR 525-15, AR 525-22, and AR 95-1. Current military operations are conducted in a rapidly changing threat environment, where Improvised Explosive Devices (IEDs), Infra Red (IR) man-portable air defense systems (MANPADS) seekers, radar guided surface-to-air-missiles (SAM), laser guided weapons, anti-helicopter mines, and targeting sensors are proliferating and evolving. Integrated solutions are

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required to counter increasingly sophisticated EW threats, and the ARAT reprogramming infrastructure supports the tactical Commander by providing timely rapidreprogramming of mission software and information dissemination for Army supported, Joint, allied service, EW integrated reprogramming of target acquisition, target engagement, vehicle survivability, and Aircraft Survivability Equipment (ASE). The ARAT rapid-reprogramming infrastructure supports tactical requirements for deployed aircraft and ground-based (e.g. CREW) survivability systems including those deployed in the CENTCOM area of responsibility (AOR). ARAT identifies and analyzes threat signature changes which affect EW, FPS and TSS; determines the impact of observed signature changes; creates new mission data software to adapt the system to the changes; disseminates the mission software changes; and provides methods to upload the new mission software into the affected EW, FPS and TSS. Each element within the ARAT infrastructure plays a specific role within the program's rapid reprogramming process, providing the Soldier with the capability to install mission and target identification software at the lowest possible level - maximizing flexibility for tactical commanders. ARAT participates in the operational and developmental test design of Army EW, FPS and TSS, and supports Service and JCS Reprogramming Exercises in all theaters. ARAT Research and Development enables continuous development of: 1) automated threat analysis tools to rapidly detect (flag) threat changes within the intelligence system, 2) tools to minimize the time to develop Aviation Mission Data Sets (MDS) and Ground loadsets , 3) tools and technology to minimize the time required to test and validate MDSs and loadsets, 4) improved communications conduits to transmit mission software changes to field users, and 5) enhanced mission-software uploading tools. These efforts allow for rapid threat analysis, simulation, mission software development, distribution and uploading of mission software changes directly to the supported Soldier in the field.				
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				
Title: Keeping Pace with the Enemy and Technology		FY 2013	FY 2014	FY 2015
		2.028	3.423	3.258
Articles:		-	-	-
Description: Funding is provided for the following effort				
FY 2013 Accomplishments: This effort: 1) studied the intelligence data requirements to support MDS development for EO/UV/IR spectrums and other multi-spectral sensors for aviation and non-aviation EW systems, 2)Developed government organic knowledge and application-base enabling reprogramming of future systems, 3)Performed requirements analysis and concept development for the reprogramming of multi-spectral EW systems.				
FY 2014 Plans: This effort continues to: 1)study the intelligence data requirements to support MDS development for EO/UV/IR spectrums and other multi-spectral sensors for aviation and non-aviation EW systems, 2) Develop government organic knowledge and application-base enabling reprogramming of future systems, 3)Perform requirements analysis and concept development for the reprogramming of multi-spectral EW systems.				
FY 2015 Plans: This effort will continue to 1)study the intelligence date requirements to support MDS development for EO/UV/IR spectrums and other multi-spectral sensors for aviation and non-aviation EW systems, 2) Develop government organic knowledge and				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2013	FY 2014	FY 2015
application-base enabling reprogramming of future systems, 3)Perform requirements analysis and concept development for the reprogramming of multi-spectral EW systems.						
<i>Title:</i> Infrastructure Improvements Multispectral <i>Description:</i> Funding is provided for the following effort <i>FY 2013 Accomplishments:</i> Infrastructure improvements for OFP sustainment environment to enable the USG to develop and deploy the OFP environment for MWS. Determined data and analysis requirements for MANPADS characterization and established initial organic government analysis and sustainment process to support OFPs and subsequently adapt MWSs to new threats. No government organic capability exists, increasing the risk that systems cannot be readily adapted to changing threats. <i>FY 2014 Plans:</i> Infrastructure improvements for OFP sustainment environment to enable the USG to develop and deploy the OFP environment for MWS. Determine data and analysis requirements for MANPADS characterization and establish an organic government analysis and sustainment process to support OFPs and subsequently adapt MWSs to new threats. Establish initial government organic capability, decreasing the risk that systems cannot be readily adapted to changing threats. Currently, no government organic capability exists, increasing the risk that systems cannot be readily adapted to changing threats. <i>FY 2015 Plans:</i> Infrastructure improvements for OFP sustainment environment to enable the USG to develop and deploy OFP environment for MWS. Will determine data and analysis requirements for MANPADS characterization and establish an organic government analysis and sustainment process to support OFPs and subsequently adapt MWSs to new threats. Will establish initial government organic capability, decreasing the risk that systems cannot be readily adapted to changing threats. Currently, no government organic capability exists, increasing the risk that systems cannot be readily adapted to changing threats.				0.507 <i>Articles:</i> -	0.646 -	0.746 -
<i>Title:</i> Infrastructure Improvement Radio Frequency General <i>Description:</i> Funding is provided for the following effort <i>FY 2013 Accomplishments:</i>				0.478 <i>Articles:</i> -	0.463 -	0.419 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014	FY 2015
Enhanced the ARAT communications architecture to facilitate the rapid secure transmission of mission software changes to EWS, FPS and TSS users, with emphasis on remote user and highly mobile Soldier connectivity. Developed and implement an initial integrated ASE development and test environment to ensure MDS and threat CM Integration on the respective airborne platform. FY 2014 Plans: Enhance the ARAT communications architecture to facilitate the rapid secure transmission of mission software changes to EWS, FPS and TSS users, with emphasis on remote user and highly mobile Soldier connectivity. Develop and implement an initial integrated ASE development and test environment to ensure MDS and threat CM Integration on the respective airborne platform. FY 2015 Plans: Will enhance the ARAT communications architecture to facilitate the rapid secure transmission of mission software changes to EWS, FPS and TSS users, with emphasis on remote user and highly mobile Soldier connectivity. Will develop and implement an initial integrated ASE development and test environment to ensure MDS and threat CM Integration on the respective airborne platform.				
Title: Threat Flagging and Mission Data Set Reprogramming Tool Development Articles: Description: Funding is provided for the following effort FY 2013 Accomplishments: Threat Flagging and MDS Reprogramming Tool Development- Developed initial application requirements for ARAT internal system- specific threat flagging, threat analysis, MDS generation, and MDS testing process. Enhanced threat flagging (threat performance change detection) and intelligence analytical tools, based on supported systems performance criteria, to rapidly identify and counter emerging and changing threats that adversely affect the performance of the EW, FPS and TSS. Created initial MDS development, testing and validation tools to decrease time from threat-change detection to the distribution of MDS products in order to increase the accuracy and fidelity of threat identification, and reduce the engineering involvement/workload associated with the manually intensive analysis and MDS development processes. Defined requirements and develop tools to migrate to a data support infrastructure that employs NGES when the NGES is deployed and the current EWIR system is decommissioned. FY 2014 Plans: Threat Flagging and MDS Reprogramming Tool Development- Develop initial application requirements for ARAT internal system-specific threat flagging, threat analysis, MDS generation, and MDS testing process. Enhance threat flagging (threat performance change detection) and intelligence analytical tools, based on supported systems performance criteria, to rapidly identify and counter emerging and changing threats that adversely affect the performance of the EW, FPS and TSS. Create initial MDS development, testing and validation tools to decrease time from threat-change detection to the distribution of MDS products in order to increase the accuracy and fidelity of threat identification, and reduce the engineering involvement/workload associated		0.210 -	0.190 -	0.112 -

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
with the manually intensive analysis and MDS development processes. Define requirements and develop tools to migrate to a data support infrastructure that employs NGES when the NGES is deployed and the current EWIR system is decommissioned.			
FY 2015 Plans: Threat Flagging and MDS Reprogramming Tool Development- Will develop initial application requirements for ARAT internal system- specific threat flagging, threat analysis, MDS generation, and MDS testing process. Will enhance threat flagging (threat performance change detection) and intelligence analytical tools, based on supported systems performance criteria, to rapidly identify and counter emerging and changing threats that adversely affect the performance of the EW, FPS and TSS. Will create initial MDS development, testing and validation tools to decrease time from threat-change detection to the distribution of MDS products in order to increase the accuracy and fidelity of threat identification, and reduce the engineering involvement/workload associated with the manually intensive analysis and MDS development processes. Will define requirements and develop tools to migrate to a data support infrastructure that employs NGES when the NGES is deployed and the current EWIR system is decommissioned.			
Accomplishments/Planned Programs Subtotals		3.223	4.722
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy The efforts to be funded in this project will require a combination of systems specific and high-tech knowledge. The contractual services portion for the project will be obtained from both the Communications-Electronics Command (CECOM) Software Engineering Center (SEC) competitive omnibus and the Research, Development and Engineering Command (RDECOM) high tech contracts.			
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 2040 / 5						R-1 Program Element (Number/Name) PE 0304270A / <i>Electronic Warfare Development</i>						Project (Number/Name) EW6 / ARAT-TSS - MIP			
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
Travel	Various	Various locations : various	0.352	0.129		0.173		0.184		-		0.184	Continuing	Continuing	Continuing
USG Labor	Various	ARAT Research and Development element Various locations : APG, MD	1.300	0.438		0.710		0.663		-		0.663	Continuing	Continuing	Continuing
Subtotal			1.652	0.567		0.883		0.847		-		0.847	-	-	-
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
Development Support (CECOM RDEC Test and Evaluation CECOM SEC Omnibus)	Various	Various : various	7.372	2.656		3.839		3.688		-		3.688	Continuing	Continuing	Continuing
Subtotal			7.372	2.656		3.839		3.688		-		3.688	-	-	-
			Prior Years	FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			9.024	3.223		4.722		4.535		-		4.535	-	-	-
Remarks															