Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

**R-1 ITEM NOMENCLATURE** 

2040: Research, Development, Test & Evaluation, Army

PE 0304270A: Electronic Warfare Development

BA 5: System Development & Demonstration (SDD)

,												
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 OCO ##	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	13.807	13.942	10.806	-	10.806	16.989	16.333	15.018	15.274	Continuing	Continuing
EW5: Electronic Warfare Development - MIP	-	10.422	10.441	6.082	-	6.082	11.571	10.965	9.559	9.722	Continuing	Continuing
EW6: ARAT-TSS - MIP	-	3.385	3.501	4.724	-	4.724	5.418	5.368	5.459	5.552	Continuing	Continuing

<sup>&</sup>lt;sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### A. Mission Description and Budget Item Justification

FY 2014 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 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	13.807	13.942	13.820	-	13.820
Current President's Budget	13.807	13.942	10.806	-	10.806
Total Adjustments	0.000	0.000	-3.014	-	-3.014
<ul> <li>Congressional General Reductions</li> </ul>	-	-			
<ul> <li>Congressional Directed Reductions</li> </ul>	-	-			
Congressional Rescissions	-	-			
Congressional Adds	-	-			
<ul> <li>Congressional Directed Transfers</li> </ul>	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-	-			
Other Adjustments 1	-	-	-3.014	-	-3.014

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project J	ustification	: PB 2014 A	Army							<b>DATE:</b> Apr	il 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)						NOMENCLA 70A: Electro ent		,	PROJECT EW5: Electronic Warfare Development - MIP				
COST (\$ in Millions)	All Prior Years		FY 2013 <sup>#</sup>	FY 2014 Base	FY 2014 FY 2014 OCO ## Total FY 2015 FY 2016			FY 2017	FY 2018	Cost To Complete	Total Cost		
EW5: Electronic Warfare Development - MIP	-	10.422	10.441	6.082	-	6.082	11.571	10.965	9.559	9.722	Continuing	Continuing	
Quantity of RDT&E Articles													

<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#### A. Mission Description and Budget Item Justification

Prophet Enhanced (PE) is the current system under the Prophet Ground acquisition program. Funds provide for Pre-Planned Product Improvement (P3I) upgrades for Next Generation Signals to increase the capabilities of the PE and maintain operational relevance; and develop Multipath/Co-Site Mitigation. The PE is the tactical commander's sole organic ground-based Signals Intelligence (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 the ability for rapid integration of Technical Insertions and P3I to ensure operational relevance.

#### Justification:

Army

FY2014 Base dollars in the amount of \$6.082 million supports the following activities: develops product upgrades for Next Generation Signals to increase the capabilities of the PE and maintain operational relevance; and develop Multipath/Co-Site Mitigation.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Title: Next Generation Signals (TOS)	1.232	0.000	0.000
Article	s: 0		
Description: Develop next generation signals (TOS)			
FY 2012 Accomplishments:			
Develop next generation signals (TOS)			
Title: Precision Geo-Location	4.312	0.000	0.000
Article	s: 0		
Description: Develop Geo-location capability for the Prophet Enhanced system under P3I requirements.			
	I		

PE 0304270A: Electronic Warfare Development

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<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0304270A: Electronic Warfare Development	PROJEC EW5: Ele MIP		/arfare Develo	opment -
B. Accomplishments/Planned Programs (\$ in Millions, Article C	Quantities in Each)		FY 2012	FY 2013	FY 2014

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments:			
Develop Geo-location capability for the Prophet Enhanced system under P3I requirements.			
Title: Real-time Signal Processing architectural framework (software defined capabilities)	3.378	4.707	0.000
Artic	es: 0	0	
<b>Description:</b> Develop Real-time Signal Processing architectural framework (software defined capabilities).			
FY 2012 Accomplishments:			
Develop Real-time Signal Processing architectural framework (software defined capabilities).			
FY 2013 Plans:			
Develop Real-time Signal Processing architectural framework (software defined capabilities).			
Title: System Integration Lab (SIL)	1.500		0.000
Artic	es: 0	0	
Description: Stand Up SIL			
FY 2012 Accomplishments:			
Stand Up SIL			
FY 2013 Plans:			
System Integration Lab			
Title: Next Generation Signals	0.000		3.011
Artic	es:	0	
Description: Prophet P3I effort			
FY 2013 Plans:			
Prophet P31 effort			
FY 2014 Plans:			
Prophet P3I effort			
Title: Multipath/Co-Site Mitigation	0.000	0.000	3.071
Description: Prophet P3I effort.			
FY 2014 Plans:			

PE 0304270A: Electronic Warfare Development

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army	DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0304270A: Electronic Warfare	EW5: Electronic Warfare Development -
BA 5: System Development & Demonstration (SDD)	Development	MIP

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2012	FY 2013	FY 2014
Prophet P3I effort.			
Accomplishments/Planned Programs Subtotals	10.422	10.441	6.082

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

			FY 2014	FY 2014	FY 2014					Cost To	
<u>Line Item</u>	FY 2012	FY 2013	<b>Base</b>	OCO	<u>Total</u>	FY 2015	FY 2016	FY 2017	FY 2018	Complete	<b>Total Cost</b>
SSN BZ7326: Prophet Ground	72.041	48.797	59.198		59.198	53.259	52.778	18.050	15.384	Continuing	Continuing
(OPA) - BZ7326											
SSN 9751: Special Purpose	9.163	2.412				1.231	1.153	2.152	2.189	Continuing	Continuing
Systems (MIP OPA) (Prophet Only)											
- BZ9751											
• PE 305288G: <i>Defense</i>	3.864	0.754	1.316		1.316					Continuing	Continuing
Cryptological Program for Prophet											

#### Remarks

Army

(MIP) (RDT&E)

### 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**

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

PE 0304270A: Electronic Warfare Development

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

PE 0304270A: Electronic Warfare

Development

**PROJECT** 

EW5: Electronic Warfare Development -

DATE: April 2013

MIP

Management Services (\$ in Millions)		FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total					
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Program Management	Various	PM Electronic Warfare:APG, MD	0.000	0.181	Dec 2011	0.181		0.200	Jan 2014	-		0.200	Continuing	Continuing	Continuing
		Subtotal	0.000	0.181		0.181		0.200		0.000		0.200			

Product Developmen	nt (\$ in M	illions)		FY 2	2012	FY 2	013		2014 ise						
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Software SIL	C/CPIF	GD C4 Systems:Scottsdale, AZ	0.889	-		-		-		-		-	0.000	0.889	0.000
Radio/Receiver Inegration (integrate software defined receiver)	C/CPIF	GD C4 Systems:Scottsdale, AZ	4.037	-		-		-		-		-	Continuing	Continuing	Continuing
Integrate Electronic Warfare Systems	C/CPIF	TBD:TBD	4.900	-		-		-		-		-	Continuing	Continuing	Continuing
Next Generation Signals (TOS)	C/CPIF	GD C4 Systems:Scottsdale, AZ	0.000	1.200		-		-		-		-	Continuing	Continuing	Continuing
Precision Geo-Location	C/CPIF	GD C4 Systems:Scottsdale, AZ	0.000	4.200		-		-		-		-	Continuing	Continuing	Continuing
Real-time Signal Processing architectural framework (software defined capabilities)	C/CPIF	GD C4 Systems:Scottsdale, AZ	0.000	3.291	Feb 2012	3.412		-		-		-	Continuing	Continuing	Continuing
Next Generation Signals	C/CPIF	GD C4 Systems:Scottsdale, AZ	0.000	-		3.400		2.768	Feb 2014	-		2.768	Continuing	Continuing	Continuing
Multipath/Co-Site Mitigation	C/CPIF	GD C4 Systems:Scottsdale, AZ	0.000	-		-		2.814	Feb 2014	-		2.814	Continuing	Continuing	0.000

PE 0304270A: *Electronic Warfare Development* Army

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DATE: April 2013 Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army **R-1 ITEM NOMENCLATURE** APPROPRIATION/BUDGET ACTIVITY **PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0304270A: Electronic Warfare EW5: Electronic Warfare Development -BA 5: System Development & Demonstration (SDD) Development MIP FY 2014 FY 2014 FY 2014 **Product Development (\$ in Millions)** oco FY 2012 FY 2013 Base Total Contract Target Method Performing All Prior Award Award Award Award **Cost To** Total Value of **Cost Category Item** & Type Activity & Location Years Cost Date Date Cost Date Cost Date Complete Cost Contract Cost Cost GD C4 Sensor Hardware Upgrade C/CPIF Systems:Scottsdale, 0.000 Continuing Continuing 0.000 9.826 8.691 6.812 5.582 0.000 5.582 Subtotal FY 2014 FY 2014 FY 2014 Support (\$ in Millions) FY 2012 FY 2013 oco Total Base Contract Target **Cost To** Method Performing All Prior Award Award Award Award Total Value of **Cost Category Item** & Type **Activity & Location** Years Cost Date Cost Date Cost Date Cost Date Cost Complete Cost Contract Matrix Support Various 12WD:APG. MD 0.264 0.050 Dec 2011 0.448 0.300 Dec 2013 0.300 Continuing Continuing Continuing System Integration Lab 12WD:APG. MD 0.000 1.500 1.000 Various Continuing Continuing Continuing Subtotal 0.264 1.550 1.448 0.300 0.000 0.300 FY 2014 FY 2014 FY 2014 Test and Evaluation (\$ in Millions) FY 2012 FY 2013 Base oco Total Contract Target Method **All Prior Cost To** Value of Performing Award Award Award Award Total **Cost Category Item** & Type **Activity & Location** Years Cost Cost Date Cost Cost Date Cost Complete Contract Date **Date** Cost Prepare and Conduct EPG/AEC:Huachuca, MIPR Continuing Continuing Continuing 0.000 2.000 **Delta Testing** ΑZ Subtotal 0.000 0.000 2.000 0.000 0.000 0.000 Target All Prior FY 2014 FY 2014 FY 2014 Cost To Total Value of Years FY 2012 FY 2013 Base oco Total Complete Contract Cost **Project Cost Totals** 10.422 10.441 6.082 0.000 10.090 6.082 Remarks

PE 0304270A: Electronic Warfare Development

Army

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	<b>PROJECT</b>	·
2040: Research, Development, Test & Evaluation, Army	PE 0304270A: Electronic Warfare	EW5: Elec	tronic Warfare Development -
BA 5: System Development & Demonstration (SDD)	Development	MIP	
		•	

		FY 2012			FY 2013			FY 2014			FY 2015		5	FY 2016		3	FY 2017		1	FY 2018		}						
	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
Delta Testing - P3I (2013)											·																	
Delta Testing - P3I (2015)																												
Delta Testing (2017)																												

Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	<b>PROJECT</b>	
2040: Research, Development, Test & Evaluation, Army	PE 0304270A: Electronic Warfare	EW5: Elect	ronic Warfare Development -
BA 5: System Development & Demonstration (SDD)	Development	MIP	

# Schedule Details

	Sta	art	End		
Events	Quarter	Year	Quarter	Year	
Delta Testing - P3I (2013)	2	2013	2	2013	
Delta Testing - P3I (2015)	2	2015	2	2015	
Delta Testing (2017)	2	2017	2	2017	

DATE: April 2013 Exhibit R-2A, RDT&E Project Justification: PB 2014 Army APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE **PROJECT** 2040: Research, Development, Test & Evaluation, Army PE 0304270A: Electronic Warfare EW6: ARAT-TSS - MIP BA 5: System Development & Demonstration (SDD) Development FY 2014 FY 2014 FY 2014 **All Prior** Cost To Total COST (\$ in Millions) OCO ## FY 2012 | FY 2013# Total FY 2015 FY 2016 FY 2017 FY 2018 | Complete **Years** Base Cost EW6: ARAT-TSS - MIP 3.385 3.501 4.724 4.724 5.418 5.368 5.459 5.552 Continuing Continuing Quantity of RDT&E Articles

#### A. 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 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 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)	FY 2012	FY 2013	FY 2014
Title: Keeping Pace with the Enemy and Technology	2.013	2.206	3.423
Arti	les:	0	
Description: Funding is provided for the following effort			
FY 2012 Accomplishments:			

PE 0304270A: Electronic Warfare Development

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<sup>\*</sup>FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJ			
2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	PE 0304270A: Electronic Warfare Development	EW6:	ARAT-TSS -	MIP	
B. Accomplishments/Planned Programs (\$ in Millions, Article Q			FY 2012	FY 2013	FY 2014
This effort: 1) studied the intelligence data requirements to support Ned, (EO/UV/IR) spectrums and other multi-spectral sensors for avia organic knowledge and application-base enabling reprogramming of concept development for the reprogramming of multi-spectral EW sy	ation and non-aviation EW systems, 2) Developed of future systems, 3) Performed requirements analys	overnment			
FY 2013 Plans: This effort: 1) studies the intelligence data requirements to support N spectral sensors for aviation and non-aviation EW systems, 2) Deve enabling reprogramming of future systems, 3) Performs requirement multi-spectral EW systems.	elops government organic knowledge and application	n-base			
FY 2014 Plans: This effort will: 1) study the intelligence data requirements to suppor spectral sensors for aviation and non-aviation EW systems, 2) Deve enabling reprogramming of future systems, 3) Perform requirements multi-spectral EW systems.	elop government organic knowledge and application	-base			
Title: Infrastructure Improvements Multispectral		Articles:	0.605 0	0.607 0	0.64
<b>Description:</b> Funding is provided for the following effort					
FY 2012 Accomplishments: Infrastructure improvements for Operational Flight Program (OFP) s deploy OFP environment for Missile Warning Systems (MWS). Dete characterization and established an organic government analysis an adapt MWSs to new threats. No government organic capability exis adapted to changing threats.	ermined data and analysis requirements for MANPAnd sustainment process to support OFPs and subse	DS quently			
FY 2013 Plans: Infrastructure improvements for OFP sustainment environment to en MWS. Determine data and analysis requirements for MANPADS chand sustainment process to support OFPs and subsequently adapt capability exists, increasing the risk that systems cannot be readily a	naracterization and establish an organic government MWSs to new threats. Currently, no government or	analysis			
FY 2014 Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE: A	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0304270A: Electronic Warfare Development	PROJ EW6:	IECT ARAT-TSS - I	MIP	
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	antities in Each)		FY 2012	FY 2013	FY 2014
Infrastructure improvements for OFP sustainment environment to ena MWS. Will determine data and analysis requirements for MANPADS analysis and sustainment process to support OFPs and subsequently government organic capability, decreasing the risk that systems cann	characterization and establish an organic governm adapt MWSs to new threats. Will establish initial				
Title: Infrastructure Improvement Radio Frequency General		Articles:	0.540 0	0.478 0	0.463
<b>Description:</b> Funding is provided for the following effort					
FY 2012 Accomplishments: Infrastructure improvements (general) - Enhanced the ARAT communitransmission of mission software changes to EWS, FPS and TSS use connectivity. Developed and implemented an integrated ASE developmenter-measure (CM) Integration on the respective airborne platform	ers, with emphasis on remote user and highly mobile pment and test environment to ensure MDS and thr				
FY 2013 Plans: Infrastructure improvements (general) - Enhance the ARAT communi of mission software changes to EWS, FPS and TSS users, with emph Develop and implement an integrated ASE development and test environment are platform.	nasis on remote user and highly mobile Soldier conr	nectivity.			
FY 2014 Plans: Infrastructure improvements (general)-Will enhance the ARAT commutransmission of mission software changes to EWS, FPS and TSS use connectivity. Will develop and implement an integrated ASE develop Integration on the respective airborne platform.	ers, with emphasis on remote user and highly mobile				
Title: Threat Flagging and Mission Data Set Reprogramming Tool De	evelopment	A	0.227	0.210	0.192
<b>Description:</b> Funding is provided for the following effort		Articles:	0	U	
FY 2012 Accomplishments: Threat Flagging and MDS Reprogramming Tool Development - Deve flagging, threat analysis, MDS generation, and MDS testing processe detection) and intelligence analytical tools, based on supported syste emerging and changing threats that adversely affect the performance	es. Enhanced threat flagging (threat performance ch ms performance criteria, to rapidly identify and cour	ange nter			

PE 0304270A: *Electronic Warfare Development* Army

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army			DATE:	April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)	R-1 ITEM NOMENCLATURE PE 0304270A: Electronic Warfare Development	PRO. EW6:	JECT ARAT-TSS -	MIP	
B. Accomplishments/Planned Programs (\$ in Millions, Article Qu	antities in Each)		FY 2012	FY 2013	FY 2014
testing and validation tools to decrease time from threat-change determine the accuracy and fidelity of threat identification, and reduced the engineers intensive analysis and MDS development processes. Defined require infrastructure that employed Next Generation EWIR System (NGES) was decommissioned.	neering involvement/workload associated with the rements and developed tools to migrate to a data sup	nanually port			
FY 2013 Plans: Threat Flagging and MDS Reprogramming Tool Development - Deve flagging, threat analysis, MDS generation, and MDS testing processed detection) and intelligence analytical tools, based on supported syste emerging and changing threats that adversely affect the performance testing and validation tools to decrease time from threat-change detective accuracy and fidelity of threat identification, and reduce the enging intensive analysis and MDS development processes. Define requirement infrastructure that employs NGES when the NGES is deployed and the	es. Enhance threat flagging (threat performance charms performance criteria, to rapidly identify and court of the EW, FPS and TSS. Create MDS development of the distribution of MDS products in order to eering involvement/workload associated with the manents and develop tools to migrate to a data support	nge nter ent, increase anually			
FY 2014 Plans: Threat Flagging and MDS Reprogramming Tool Development-Will de flagging, threat analysis, MDS generation, and MDS testing processe detection) and intelligence analytical tools, based on supported syste emerging and changing threats that adversely affect the performance testing and validation tools to decrease time from threat-change detethe accuracy and fidelity of threat identification, and reduce the engin intensive analysis and MDS development processes. Will define requinfrastructure that employs NGES when the NGES is deployed and the	es. Will enhance threat flagging (threat performance ems performance criteria, to rapidly identify and court of the EW, FPS and TSS. Will create MDS develoction to the distribution of MDS products in order to eering involvement/workload associated with the material end develop tools to migrate to a data supplements.	change nter pment, increase anually			

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

N/A

Remarks

PE 0304270A: *Electronic Warfare Development* Army

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3.385

3.501

4.724

**Accomplishments/Planned Programs Subtotals** 

ADDRODDIATION/DUDGET ACTIVITY		DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
2040: Research, Development, Test & Evaluation, Army	PE 0304270A: Electronic Warfare	EW6: ARAT-TSS - MIP
BA 5: System Development & Demonstration (SDD)	Development	
<ul> <li>D. Acquisition Strategy</li> <li>The efforts to be funded in this project will require a combination of obtained from both the Communications-Electronics Command (CE and Engineering Command (RDECOM) high tech contracts.</li> </ul>		
E. Performance Metrics		
Performance metrics used in the preparation of this justification ma	terial may be found in the FY 2010 Army Performan	nce Budget Justification Book, dated May 2010.

PE 0304270A: Electronic Warfare Development

Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army

DATE: April 2013

APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army BA 5: System Development & Demonstration (SDD)

R-1 ITEM NOMENCLATURE

FY 2014

Base

4.724

PE 0304270A: Electronic Warfare

Development

**PROJECT** 

EW6: ARAT-TSS - MIP

Target Value of

Contract

Product Developmer	it (\$ in M	illions)		FY 2	2012	FY 2	2013	FY 2 Ba		FY 2	2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value o Contrac
Travel	Various	Various locations:various	0.205	0.147		0.165		0.175		-		0.175	Continuing	Continuing	Continuir
USG Labor	Various	ARAT Research and Development element Various locations:APG, MD	0.550	0.750		0.680		0.710				0.710	Continuing	Continuing	Continuir
		Subtotal	0.755	0.897		0.845		0.885		0.000		0.885			
Support (\$ in Millions	s)			FY 2	2012	FY 2	2013	FY 2 Ba		FY 2	2014 CO	FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value o Contrac
Development Support (CECOM RDEC Test and Evaluation CECOM SEC Omnibus)	Various	Various:various	4.884	2.488		2.656		3.839		-		3.839	Continuing	Continuing	Continuir
		Subtotal	4.884	2.488		2.656		3.839		0.000		3.839			

All Prior

Years

5.639

**Project Cost Totals** 

FY 2012

3.385

Remarks

PE 0304270A: *Electronic Warfare Development* Army

UNCLASSIFIED
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FY 2013

3.501

R-1 Line #131

FY 2014

oco

0.000

FY 2014

Total

4.724

Cost To

Complete

Total

Cost