Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 5: System

PE 0604746A I Automatic Test Equipment Development

Date: February 2015

Development & Demonstration (SDD)

Appropriation/Budget Activity

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COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	6.498	11.079	8.960	-	8.960	11.014	10.740	10.227	10.127	Continuing	Continuing
L59: Diagnost/Expert Sys	-	4.548	7.072	4.699	-	4.699	7.304	6.626	5.894	5.958	Continuing	Continuing
L65: Test Equipment Development	-	1.950	4.007	4.261	-	4.261	3.710	4.114	4.333	4.169	Continuing	Continuing

Note

FY 2016, \$5.222 million reduction to support higher priority projects

A. Mission Description and Budget Item Justification

This program element (PE) provides for development and testing of general-purpose test equipment, state-of-the-art diagnostics and prognostics technologies, and software and systems to support the increasingly complex electronic components of the Army's new and upgraded weapon systems. It focuses on implementation of commercial test and diagnostic technologies across multiple weapon platforms to minimize the cost of troubleshooting and maintenance of Army equipment in the field.

Modular, reconfigurable automatic and semi-automatic systems are being developed under this program to satisfy weapon system test and diagnostics requirements. The Next Generation Automatic Test System (NGATS), currently under development, provides state-of-the-art test and diagnostic capabilities to support current and future weapon systems. It is the platform for transitioning Agile Rapid Global Combat Support System (ARGCS) technologies into the Army weapon system support structure, and it will replace several aging automatic test systems (ATS) that are becoming prohibitively expensive to operate and maintain.

This PE also provides for continued development and improvement of general-purpose test equipment and calibration standards with emphasis on the incorporation of digital electronics and tailoring of configurations to improve deployability, mobility and survivability of the support equipment.

FY 2016 Base funding for this program continues development of the Army's standard NGATS which will improve deployability and mobility of test and diagnostic equipment. The NGATS provides state-of-the-art test and diagnostic capabilities and a means for reducing the Army's test equipment operating and support costs and the costs for supporting a number of the Army's vital warfighting systems. The FY 2016 funding will develop or significantly modify test equipment to satisfy modular force and homeland security support requirements that cannot be accommodated with test equipment currently available in the commercial marketplace such as radio frequency (RF) and electro-optic (EO) testing capability. It will also provide for technology enhancements to the Army's standard at-system tester to meet test and diagnostoic requirements of the supported weapon systems, develop/redesign test program sets and hardware for support of legacy and emerging weapon systems, and develop a network centric software framework for NGATS.

The FY 2016 funding request was reduced for \$2.002 million to account for the availability of prior year execution balances.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 5: System

Development & Demonstration (SDD)

Date: February 2015

B. Program Change Summary (\$ in Millions)	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget	6.697	11.084	14.182	-	14.182
Current President's Budget	6.498	11.079	8.960	-	8.960
Total Adjustments	-0.199	-0.005	-5.222	-	-5.222
 Congressional General Reductions 	-0.199	-0.005			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	-	-			
 SBIR/STTR Transfer 	-	-			
 Adjustments to Budget Years 	-	-	-5.222	-	-5.222

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2016 A	rmy							Date: Febr	uary 2015	
Appropriation/Budget Activity 2040 / 5					R-1 Progra PE 060474 Developme	6A I Autom	•	•	Project (N L59 / Diago		,	
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
L59: Diagnost/Expert Sys	-	4.548	7.072	4.699	-	4.699	7.304	6.626	5.894	5.958	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds development of and system enhancements for the Next Generation Automatic Test System (NGATS) and the Maintenance Support Device (MSD). The NGATS is a general-purpose automatic test system (ATS) that provides test and diagnostic capabilities required to support current and future weapons and combat support systems and will facilitate retirement of aging and obsolete test equipment that is imposing increasing logistics and operations and support cost burdens. It is the platform for transitioning Agile Rapid Global Combat Support System (ARGCS) technologies into the Army weapon system support structure. The ARGCS initiative was sponsored by the Department of Defense, and all Services are expected to transition demonstrated technologies into their ATS programs. The MSD is the Army's standard at-system tester and requires continuing upgrades to support technology advancements in the supported weapon systems. This project funds development projects to incorporate the most current relevant technology into the next generation MSD, supports capability enhancement of the wireless at-platform test set (WATS), develops capabilities to minimize or eliminate Army dependency on expensive proprietary software to support tactical vehicles, integrates MSD into the Brigade Combat Team information structure as the at-platform data collection device for the Army's condition-based maintenance plus (CBM+) initiative and maintains compatibility with emerging aviation platform hardware bus technology and aviation notebook software interface requirements. This project also provides for continuing efforts in the development and testing of common procedures utilizing existing test program sets and software applications; and market surveys of commercially available test equipment, methods and procedures to determine applicability to Army requirements. The test and diagnostic systems and procedures developed under this project are essential for ensuring the operational readiness, accuracy and effectiveness of the Army's w

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Title: NGATS System Level Calibration/Verification Program	0.600	1.200	-
Description: Develop and test the NGATS system level calibration/verification program			
FY 2014 Accomplishments: Develop and test the NGATS system level calibration/verification program			
FY 2015 Plans: Continue development and testing of the NGATS system level calibration/verification program			
Title: NGATS Logistics Support Products	0.100	0.750	0.500
Description: Develop NGATS initial logistics support products (including provisioning, technical manuals and calibration)			
FY 2014 Accomplishments:			

PE 0604746A: Automatic Test Equipment Development

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date:	February 2015	5			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604746A I Automatic Test Equipment Development	Project (Number	Project (Number/Name) L59 / Diagnost/Expert Sys				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016			
Continue development of initial logistics support products.							
FY 2015 Plans: Continue development of initial logistics support products.							
FY 2016 Plans: Complete development of initial logistics support products.							
Title: Developmental and Operational Follow-on Testing		-	-	1.00			
Description: Complete Increment 1 developmental and operation	nal follow-on testing activities						
FY 2016 Plans: Complete Increment 1 developmental and operational follow-on to development of remaining, needed capability of existing low-rate sets used with legacy automatic test equipment, along with any needed.	initial production systems to operate with all existing test pr	ogram					
Title: NGATS Radio Frequency (RF) Test Capability		0.50	1.000	0.50			
Description: Develop and integrate NGATS RF test capability							
FY 2014 Accomplishments: Initiate development and integration of NGATS RF test capability							
FY 2015 Plans: Continue development and integration of NGATS RF test capabili	ty						
FY 2016 Plans: Continue development and integration of NGATS RF test capability	ty						
Title: NGATS Increment 2		1.86	1.100	0.88			
Description: Develop and test hardware and software for NGATS	S Increment 2 system						
FY 2014 Accomplishments: Continue development and testing of hardware and software for s Rocket System, TOW Missile System, Paladin and CROWS II)	support of Increment 2 systems (Avenger, Multiple Launch						
FY 2015 Plans:							

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: F	ebruary 2015	j			
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604746A I Automatic Test Equipment Development		Project (Number/Name) L59 / Diagnost/Expert Sys				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016			
Continue development and testing of hardware and software for sup Rocket System, TOW Missile System, Paladin and CROWS II)	oport of Increment 2 systems (Avenger, Multiple Launch						
FY 2016 Plans: Continue development and testing of hardware and software for sup Operated Weapons Station (CROWS II), Counter RCIED (Radio-Co (CREW) Duke, Precision Fires, and Joint Assault Bridge (JAB)							
Title: NGATS Electro-Optics Subsystem		1.000	0.500	0.20			
Description: Develop and test hardware and software for NGATS e support new ground and aerial sensors for unmanned air and groun		0					
FY 2014 Accomplishments: Continue development and testing of hardware and software for NG (Apache, Kiowa Warrior, CROWS II and Stryker Remote Weapons S		ems					
FY 2015 Plans: Continue development and testing of hardware and software for NG (Apache, Kiowa Warrior, CROWS II and Stryker Remote Weapons Stryker We		ems					
FY 2016 Plans: Continue development and testing of hardware and software for NG (Apache, Kiowa Warrior, CROWS II and Stryker Remote Weapons Stryker Weap		ems					
Title: Additional Software Capabilities		0.250	0.250	0.25			
Description: Develop software capabilities to incorporate common embedded diagnostics data collection and analysis for closed loop of maintenance							
FY 2014 Accomplishments: Continue development of expanded software capabilities							
FY 2015 Plans: Continue development of a network centric software framework to fa accounting, and data exchange with other components of the global							
FY 2016 Plans:							

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PE 0604746A: Automatic Test Equipment Development Page 5 of 19 R-1 Line #94 Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army		Date: F	ebruary 2015		
Appropriation/Budget Activity 2040 / 5	Project (Number/Name) L59 / Diagnost/Expert Sys				
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016	
Continue development of a network centric software framework to faci accounting, and data exchange with other components of the global in	·				
Title: Power and Weight Enhancements		0.030	-	-	
Description: Develop power and weight enhancements for NGATS					
FY 2014 Accomplishments: Complete development of power and weight enhancements.					
Title: NGATS Performance Enhancement		-	0.217	0.30	
Description: NGATS core instrument/software modifications to increase	se NGATS performance.				
FY 2015 Plans: Initiate development of NGATS core instrument/software modifications FY 2016 Plans:	s to increase NGATS performance.				
Continue development of NGATS core instrument/software modification	ons to increase NGATS performance.				
Title: MSD Technology Enhancements		-	0.805	0.86	
Description: Incorporate current relevant technology into the next-ger wireless at-platform test set (WATS). Develop capabilities to minimize support tactical vehicles, integrate MSD into the Brigade Combat Tear device for the Army's CBM+ initiative, and maintain compatibility with a aviation notebook software interface requirements.	or eliminate Army dependency on proprietary softwar m information structure as the at-platform data collection	e to n			
FY 2015 Plans: Continue enhancement of WATS radio technology and common electr test support for Army vehicle and weapon systems platforms to include dependency on proprietary software to support current and future tacti	e CBM+. Devise methods to minimize or eliminate Arm				
FY 2016 Plans: Complete enhancement of WATS radio technology and common elect wireless test support for Army vehicle and weapon systems platforms. Army dependency on proprietary software to support current and future.	to include CBM+. Devise methods to minimize or elim	inate			
Title: Smart TPSs/Enhanced Self Test		-	0.750	-	

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Exhibit R-2A, RDT&E Project Justif	fication: PB	2016 Army							Date: F	ebruary 2015	j
Appropriation/Budget Activity 2040 / 5				PE 06		nent (Numb Itomatic Test			t (Number/N Diagnost/Exp		
B. Accomplishments/Planned Prog	ırams (\$ in N	<u>//illions)</u>							FY 2014	FY 2015	FY 2016
Description: Develop enhanced sma	art TPS hard	ware and sc	ftware and e	enhanced se	If test						
FY 2015 Plans: Initiate development of enhanced sel	f test strateg	y for NGATS	3 .								
Title: Abrams/Bradley Test Program	Set (TPS) De	esign							-	0.500	-
Description: Design, test and evalua	ate Abrams/B	Bradley TPS	s								
FY 2015 Plans: Complete design, test and evaluation	of Abrams/E	Bradley TPS	s								
Title: Abrams/Bradley EO TPS Deve	lopment								0.200	-	-
Description: Develop Abrams/Bradle	ey TPSs for ι	use with NG	ATS EO ass	et							
FY 2014 Accomplishments: Continue development of Abrams/Bra	adley TPSs										
Title: EO TPS Development									-	-	0.200
Description: Develop EO TPSs for u	ise with NGA	TS EO ass	et								
FY 2016 Plans: Initiate development of TPSs.											
				Accor	nplishment	s/Planned P	rograms Su	btotals	4.548	7.072	4.699
C. Other Program Funding Summa	ry (\$ in Milli	ons)									
Line Item • .: OPA3, SSN MB4000, Integrated Family of Test Equipment (IFTE) Remarks	FY 2014 42.460	FY 2015 37.482	FY 2016 Base 34.487	FY 2016 OCO -	FY 2016 Total 34.487	FY 2017 30.511	FY 2018 27.254	FY 201 26.98		Cost To Complete Continuing	Total Cos
None.											

PE 0604746A: *Automatic Test Equipment Development* Army

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
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D. Acquisition Strategy

This developmental project consists of organic and contractual actions. When the necessary expertise and capability are available within the Department of Defense, services required for the individual development projects are ordered from the government source; otherwise, commercial contracts are used. Equipment required for developmental projects is obtained by contract from the commercial supplier. Developmental efforts for the Next Generation Automatic Test System (NGATS) are being completed under a number of contracts awarded to the prime contractor for the Integrated Family of Test Equipment off-platform testers and other contractors with automatic test equipment (ATE) and test program set development capabilities. Full-rate production of the system was a competitive award. NGATS is following an evolutionary acquisition strategy using incremental development to satisfy Army depot and field testing requirements for new and existing systems. It will replace existing legacy Army ATE (i.e., Base Shop Test Facility (BSTF)(V)3, BSTF(V)5, and Direct Support Electrical System Test Set) as well as Army depot system-specific ATE.

E. Performance Metrics

N/A

					Ui	ICLA55									
Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2016 Army	/								Date:	February	2015	
Appropriation/Budg 2040 / 5	et Activity	1					4746A <i>I A</i>	•	umber/Na Test Equ	,		(Number	,		
Management Servic	es (\$ in M	illions)		FY 2	2014	FY 2	015	FY 2 Ba			2016 CO	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	Total Cost	Target Value of Contrac
Project Management	Various	Various : Various	0.000	-		-		0.150		-		0.150	Continuing	Continuing	Continuir
		Subtotal	0.000	-		-		0.150		-		0.150	-	-	-
Product Developme	nt (\$ in M	illions)		FY 2	2014	FY 2	015	FY 2 Ba			2016 CO	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	Total Cost	Target Value of Contract
Software Development/ Verification/Validation	Various	Various, : Various	32.360	1.343		2.200		1.101		-		1.101	Continuing	Continuing	Continuin
Hardware/Support Items Development	Various	Various, : Various	58.884	2.368		3.822		1.591		-		1.591	Continuing	Continuing	Continuin
		Subtotal	91.244	3.711		6.022		2.692		-		2.692	-	-	-
Support (\$ in Millior	ıs)			FY 2	2014	FY 2	015	FY 2 Ba			2016 CO	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	Total Cost	Target Value of Contrac
Technical Support	Various	Various, : Various	47.891	0.637		0.850		0.657		-		0.657	Continuing	Continuing	Continuir
Other Direct	Various	Various, : Various	3.590	0.200		0.200		0.200		-		0.200	Continuing	Continuing	Continuin
		Subtotal	51.481	0.837		1.050		0.857		-		0.857	-	-	-
Test and Evaluation	(\$ in Milli	ons)		FY 2	2014	FY 2	015	FY 2 Ba			2016 CO	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 Contrac
Developmental Testing	Various	Various, : Various	1.046	-		-		1.000		-		1.000	Continuing	Continuing	Continuir
		Subtotal	1.046	-		-		1.000		_		1.000	_	-	_

PE 0604746A: Automatic Test Equipment Development Army

Test program set (TPS) and contractor developmental test and evalutation are included in the product development cost.

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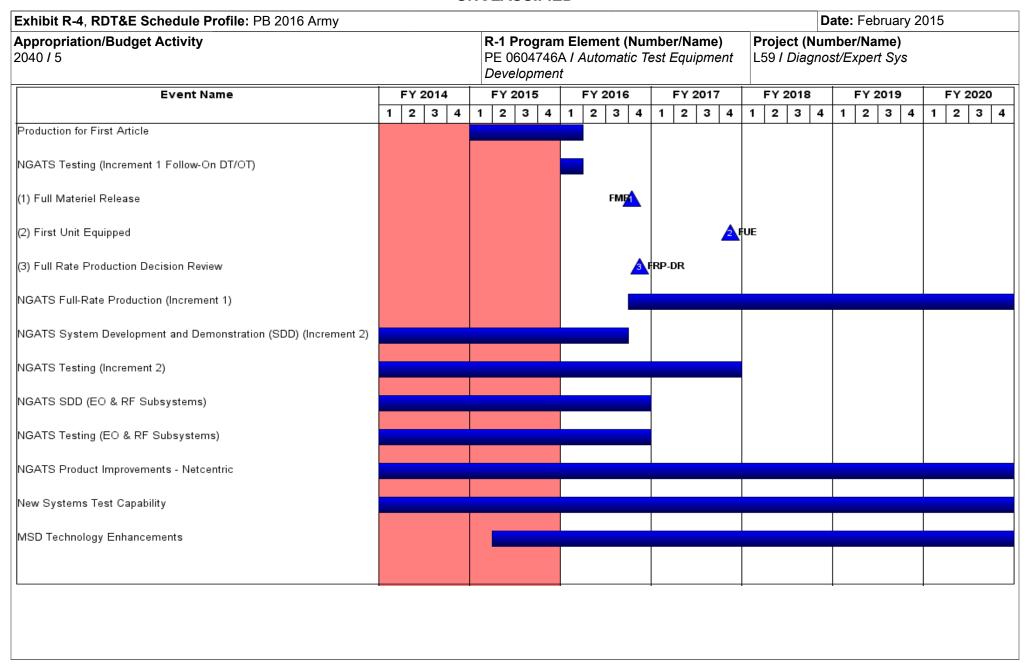


Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army		Date: February 2015
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Schedule Details

	Sta	Er	ıd	
Events	Quarter	Year	Quarter	Year
Production for First Article	1	2015	1	2016
NGATS Testing (Increment 1 Follow-On DT/OT)	1	2016	1	2016
Full Materiel Release	4	2016	4	2016
First Unit Equipped	4	2017	4	2017
Full Rate Production Decision Review	4	2016	4	2016
NGATS Full-Rate Production (Increment 1)	4	2016	4	2020
NGATS System Development and Demonstration (SDD) (Increment 2)	4	2009	3	2016
NGATS Testing (Increment 2)	4	2010	4	2017
NGATS SDD (EO & RF Subsystems)	4	2010	4	2016
NGATS Testing (EO & RF Subsystems)	4	2012	4	2016
NGATS Product Improvements - Netcentric	4	2011	4	2020
New Systems Test Capability	2	2011	4	2020
MSD Technology Enhancements	2	2015	4	2020

Exhibit R-2A, RDT&E Project J	ustification	: PB 2016 A	rmy							Date: Febr	uary 2015	
Appropriation/Budget Activity 2040 / 5							t (Number/ natic Test Eq	umber/Name) Equipment Development				
COST (\$ in Millions)	in Millions) Prior FY 2014 FY 2015 Base						FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
L65: Test Equipment Development	-	1.950	4.007	4.261	-	4.261	3.710	4.114	4.333	4.169	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

B Accomplishments/Planned Programs (\$ in Millions)

This project supports development and demonstration of state-of-the-art calibration standards and techniques, and upgrades/improvements to existing Army calibration systems. It provides for feasibility studies, market research, inventory analyses, bid sample testing, and prototyping to support calibration systems and generalpurpose test and diagnostic equipment acquisitions. Primary efforts under this project include development of calibration software, development of calibration capability for chemical and biological agent detection systems, improvement of test and measurement equipment performance envelopes via product improvements, and development/evaluation of advance technology and higher reliability calibration systems and general-purpose test, measurement and diagnostic equipment (TMDE). Product improvements are underway to current test and measurement systems to overcome deficiencies and voids in existing organic capabilities and to ensure the operational readiness, accuracy, effectiveness, and safety of Army weapons and combat support systems. These improvements will employ reconfigurable open electronics architecture and computer-based instrumentation wherever feasible and will be focused on reducing the test equipment footprints to improve deployability and mobility in areas of operation.

B. Accomplishments/Flatmed Flograms (\$\pi\$ in \text{willions})	FY 2014	F1 2015	F1 2016
Title: Calibration Sets (CALSETS) Software Environment and Calibration	0.450	0.960	1.320
Description: Develop and test an Army automated calibration environment and develop calibration procedures. Test efforts in support of DoD Information Assurance Certification and Accreditation Process (DIACAP).			
FY 2014 Accomplishments: Continue development and evaluation of calibration procedures. Perform testing and evaluation to support calibration software environment. Develop and test DIACAP for calibration instrument controllers.			
FY 2015 Plans: Continue development and evaluation of calibration procedures. Develop, test and evaluate enhanced calibration software environment. Develop and test DIACAP for calibration instrument controllers.			
FY 2016 Plans: Develop and evaluate automated calibration procedures. Evaluate feasibility of incorporating commercial procedures and calibration system performance monitoring within the software environment. Test and evaluate prototype calibration procedure development engine. Perform tests to support DIACAP for calibration systems.			
Title: Physical Instruments	0.702	1.357	1.238

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Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: F	ebruary 2015					
Appropriation/Budget Activity 2040 / 5	PE 0604746A I Automatic Test Equipment L65 Development								
B. Accomplishments/Planned Programs (\$ in Millions)		FY	2014	FY 2015	FY 2016				
Description: Research, develop, and test physical parameter calib biological agent detection systems, night vision testers, small arms		,							
FY 2014 Accomplishments: Continue development and test of hydrocarbon flow calibration and for small arms gage calibration standards. Continue development testers and calibrators.									
FY 2015 Plans: Complete development and test of hydrocarbon flow calibration and prototype small arms gage calibration standards. Complete development testers and calibrators. Initiate development of pneuma	pment and test of chemical agent detectors and protective								
FY 2016 Plans: Continue development and test of prototype small arms gage calibrates systems for biological agent detectors and protective equipment. Cavionic systems. Perform market research, evaluate commercial expressions.	Continue development of pneumatic standards to support	on							
Title: Electrical Instruments			0.637	1.305	1.318				
Description: Research, develop, and test electrical parameter califerentification set, intrinsic electrical standards, electrical transports		ole							
FY 2014 Accomplishments: Perform market research and evaluate commercial equipment and development and testing of direct current (DC) and alternating current transport standards.									
FY 2015 Plans: Perform market research and evaluate commercial equipment and testing of DC intrinsic voltage system and continue testing of AC sy									
FY 2016 Plans: Perform market research and evaluate commercial equipment and development and test of high voltage multiplier for AC intrinsic voltastandard.									
Title: Test Equipment Modernization			0.161	0.385	0.385				

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PE 0604746A: Automatic Test Equipment Development

Exhibit R-2A, RDT&E Project Justification: PB 2016 Army			Date: February 2015
1	, , , , , , , , , , , , , , , , , , , ,	- 3 (umber/Name) Equipment Development

2 or olepment			
B. Accomplishments/Planned Programs (\$ in Millions)	FY 2014	FY 2015	FY 2016
Description: Perform market research, bid sample testing, and evaluation of commercial equipment and develop performance specifications for acquisition.			
FY 2014 Accomplishments: Perform market research and evaluation of commercial equipment and develop performance specifications for future general-purpose test equipment acquisitions.			
FY 2015 Plans: Perform market research and evaluation of commercial equipment and develop performance specifications for future general-purpose test equipment acquisitions.			
FY 2016 Plans: Perform market research and evaluation of commercial equipment and develop performance specifications for acquisition. Conduct bid sample testing to support acquisition program.			
Accomplishments/Planned Programs Subtotals	1.950	4.007	4.26

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

	•	-	FY 2016	FY 2016	FY 2016					Cost To	
<u>Line Item</u>	FY 2014	FY 2015	Base	OCO	<u>Total</u>	FY 2017	FY 2018	FY 2019	FY 2020	Complete	Total Cost
 SSN N10000: Calibration Sets Equipment 	5.244	5.726	4.650	-	4.650	5.735	5.542	8.590	4.499	Continuing	Continuing
• SSN N11000: Test	17.881	13.061	11.083	-	11.083	18.354	16.816	14.771	15.363	Continuing	Continuing

Equipment Modernization

D. Acquisition Strategy

Projects are focused on use of commercial and nondevelopmental item technologies. When programmatic and engineering expertise and capability are available within the Department of Defense, services required for the individual development projects are acquired from the government source; otherwise, commercial service contracts are used to provide these capabilities. Equipment required for development projects is obtained from the commercial supplier. Candidate commercial equipment and nondevelopmental items are identified and evaluated through market research and government testing and evaluation.

E. Performance Metrics

N/A

Army

Remarks

PE 0604746A: Automatic Test Equipment Development

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Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	016 Army	/								Date:	February	2015		
Appropriation/Budg 2040 / 5	et Activity	,				,						Project (Number/Name) _65				
Management Service	es (\$ in M	illions)		FY 2014		FY 2	015	FY 2016 Base		FY 2						
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	Total Cost	Target Value o Contrac	
In-house Engineering	SS/LH	Civ Labor : various	3.716	0.715		0.744		0.760		-		0.760	Continuing	Continuing	-	
		Subtotal	3.716	0.715		0.744		0.760		-		0.760	-	-		
Product Developme	nt (\$ in Mi	llions)		FY 2	2014	FY 2	015	FY 2 Ba			2016 CO	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	Total Cost	Target Value o Contrac	
AN/GSM-421(V2)	Various	Various : Various	2.346	-		-		-		-		-	Continuing	Continuing	-	
CALSETS Software Environment and Calibration	Various	Various : Various	5.607	0.211		0.400		0.590		-		0.590	Continuing	Continuing	-	
Physical Instruments	Various	Various : Various	6.155	0.210		0.578		0.556		-		0.556	Continuing	Continuing	-	
Electrical Instruments	Various	Various : Various	8.736	0.293		0.552		0.527		-		0.527	Continuing	Continuing	-	
Test Equipment Modernization	Various	Various : Various	0.280	0.090		0.160		0.208		-		0.208	Continuing	Continuing	-	
		Subtotal	23.124	0.804		1.690		1.881		-		1.881	-	-		
Support (\$ in Million	ıs)			FY 2	2014	FY 2	015	FY 2 Ba		FY 2	2016 CO	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	Total Cost	Target Value o Contrac	
Contract Engineering	SS/FFP	University of Alabama, Huntsville : Huntsville, AL	1.837	0.140		0.245		0.275		-		0.275	Continuing	Continuing	-	
		Subtotal	1.837	0.140		0.245		0.275		_		0.275	_	_		

Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army		Date: February 2015
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
2040 / 5	PE 0604746A I Automatic Test Equipment	L65 I Test Equipment Development
	Development	

Test and Evaluation	(\$ in Milli	ons)		FY 2	2014	FY 2	015	FY 2 Ba			2016 CO	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	Total Cost	Target Value of Contract
AN/GSM-421(V2)	Various	Various : Various	0.620	-		-		-		-		-	Continuing	Continuing	-
CALSETS Software Environment and Calibration	Various	Various : Various	0.500	0.070		0.360		0.430		-		0.430	Continuing	Continuing	-
Physical Instruments	Various	Various : Various	1.375	0.088		0.407		0.407		-		0.407	Continuing	Continuing	-
Electrical Instruments	Various	Various : Various	1.468	0.047		0.351		0.331		-		0.331	Continuing	Continuing	-
Test Equipment Modernization	Various	Various : Various	0.250	0.086		0.210		0.177		-		0.177	Continuing	Continuing	-
		Subtotal	4.213	0.291		1.328		1.345		-		1.345	-	-	-
			Prior					FV 2	2016	EV 1	2016	FY 2016	Cost To	Total	Target

	Prior Years	FY 2	014	FY 2	015	FY 2 Ba	FY 2	2016 CO	FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	32.890	1.950		4.007		4.261	-		4.261	-	-	-

Remarks

PE 0604746A: *Automatic Test Equipment Development* Army

Exhibit R-4, RDT&E Schedule Profile: PB 2016 Arm	У																		D	ate:	Fel	orua	ry 20	015		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604746A I Automatic Test Equipment Development											P	Project (Number/Name) L65 / Test Equipment Development									
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
Physical Instruments																										
CALSETS Software Environment and Calibration																										
Electrical Instruments																										
est Equipment Modernization																										

Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army	Date: February 2015				
2040 / 5	,	, ,	umber/Name) Equipment Development		

Schedule Details

	St	End			
Events	Quarter	Year	Quarter	Year	
Physical Instruments	2	2007	4	2020	
CALSETS Software Environment and Calibration	2	2007	4	2020	
Electrical Instruments	2	2007	4	2020	
Test Equipment Modernization	1	2011	4	2020	