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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 / BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604746A / Automatic Test Equipment 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	-	10.307	6.697	11.084	-	11.084	14.182	9.880	10.008	10.299	Continuing	Continuing
L59: Diagnost/Expert Sys	-	7.809	4.680	7.075	-	7.075	9.889	6.142	5.863	5.934	Continuing	Continuing
L65: Test Equipment Development	-	2.498	2.017	4.009	-	4.009	4.293	3.738	4.145	4.365	Continuing	Continuing

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

Note
FY 2015, \$3.294 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 2015 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 2015 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 develop/redesign test program sets and hardware for support of legacy and emerging weapon systems and develop a network centric software framework for NGATS.

UNCLASSIFIED

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)		PE 0604746A / Automatic Test Equipment Development			
B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	10.815	6.701	15.008	-	15.008
Current President's Budget	10.307	6.697	11.084	-	11.084
Total Adjustments	-0.508	-0.004	-3.924	-	-3.924
• Congressional General Reductions	-0.017	-0.004			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.302	-			
• Adjustments to Budget Years	-	-	-3.924	-	-3.924
• Other Adjustments 1	-0.189	-	-	-	-

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2015 Army										Date: March 2014		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604746A / Automatic Test Equipment Development				Project (Number/Name) L59 / Diagnost/Expert Sys			
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
L59: Diagnost/Expert Sys	-	7.809	4.680	7.075	-	7.075	9.889	6.142	5.863	5.934	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												
This project funds development of and system enhancements for the Next Generation Automatic Test System (NGATS). 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. This project also provides for continuing efforts to upgrade and improve general-purpose automatic test equipment to satisfy test and diagnostic requirements of the Army's new and upgraded weapon systems; development and adaptation of automatic test equipment required to overcome existing deficiencies and voids in organic test and diagnostic capabilities; 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 warfighting systems.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2013	FY 2014	FY 2015	
Title: NGATS System Level Calibration/Verification Program Articles: Description: Develop and test the NGATS system level calibration/verification program FY 2014 Plans: Develop and test the NGATS system level calibration/verification program									-	0.600	-	
									-	-	-	
Title: NGATS Logistics Support Products Articles: Description: Develop NGATS initial logistics support products (including provisioning, technical manuals and calibration) FY 2013 Accomplishments: Continue development of initial logistics support products FY 2014 Plans:									0.500	0.500	1.000	
									-	-	-	

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604746A / Automatic Test Equipment Development	Project (Number/Name) L59 / Diagnost/Expert Sys	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Continue development of initial logistics support products			
FY 2015 Plans: Complete development of initial logistics support products			
Title: Developmental and Operational Follow-on Testing Description: Complete Increment 1 developmental and operational follow-on testing activities FY 2015 Plans: Complete Increment 1 developmental and operational follow-on testing activities		-	1.000
Title: NGATS Radio Frequency (RF) Test Capability Description: Develop and integrate NGATS RF test capability FY 2014 Plans: Initiate development and integration of NGATS RF test capability FY 2015 Plans: Continue development and integration of NGATS RF test capability		-	0.500
Articles:		-	-
Title: NGATS Increment 2 Description: Develop and test hardware and software for NGATS Increment 2 system FY 2013 Accomplishments: Continue development and testing of hardware and software for support of Increment 2 systems (Avenger, Multiple Launch Rocket System, Tube-launched Optically-tracked Wire-guided (TOW) Missile System, Paladin and Common Remotely Operated Weapons Station (CROWS) II) FY 2014 Plans: Continue development and testing of hardware and software for support of Increment 2 systems (Avenger, Multiple Launch Rocket System, TOW Missile System, Paladin and CROWS II) FY 2015 Plans:		1.500	1.500
Articles:		-	-

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Continue development and testing of hardware and software for support of Increment 2 systems (Avenger, Multiple Launch Rocket System, TOW Missile System, Paladin and CROWS II)			
Title: NGATS Electro-Optics Subsystem Articles: Description: Develop and test hardware and software for NGATS electro-optics (EO) subsystem (to include the capability to support new ground and aerial sensors for unmanned air and ground vehicles) FY 2013 Accomplishments: Continue development and testing of hardware and software for NGATS EO subsystem and for support of Increment 3 systems (Apache, Kiowa Warrior, CROWS II and Stryker Remote Weapons Station) FY 2014 Plans: Continue development and testing of hardware and software for NGATS EO subsystem and for support of Increment 3 systems (Apache, Kiowa Warrior, CROWS II and Stryker Remote Weapons Station) FY 2015 Plans: Continue development and testing of hardware and software for NGATS EO subsystem and for support of Increment 3 systems (Apache, Kiowa Warrior, CROWS II and Stryker Remote Weapons Station)		2.655 -	0.500 -
Title: General-Purpose Shop Replaceable Unit Diagnostic Capability Articles: Description: Develop expanded general-purpose shop replaceable unit diagnostic capability FY 2013 Accomplishments: Continue development of expanded general-purpose shop replaceable unit diagnostic capability FY 2014 Plans: Complete development of expanded general-purpose shop replaceable unit diagnostic capability		0.500 -	0.250 -
Title: Abrams/Bradley Test Program Set (TPS) Design Articles: Description: Design, test and evaluate Abrams/Bradley TPSs FY 2013 Accomplishments:		0.500 -	0.250 -
		0.500 -	0.500 -

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Continue design, test and evaluation of TPSs			
FY 2014 Plans: Continue design, test and evaluation of TPSs			
FY 2015 Plans: Complete design, test and evaluation of Abrams/Bradley TPSs			
Title: Additional Software Capabilities		0.500	0.250
Articles:		-	-
Description: Develop software capabilities to incorporate common logistics operating environment (CLOE)/netcentric and embedded diagnostics data collection and analysis for closed loop diagnostic maintenance in support of condition-based maintenance			
FY 2013 Accomplishments: Continue development of expanded software capabilities			
FY 2014 Plans: Continue development of expanded software capabilities			
FY 2015 Plans: Continue development of a network centric software framework to facilitate message communication, configuration status accounting, and data exchange with other components of the global information grid (GIG).			
Title: Smart TPSs/Enhanced Self Test		0.500	0.100
Articles:		-	-
Description: Develop enhanced smart TPS hardware and software and enhanced self test			
FY 2013 Accomplishments: Continue development of enhanced smart TPSs			
FY 2014 Plans: Initiate development of enhanced self test strategy for NGATS			
FY 2015 Plans: Continue development and integration of enhanced self test strategy for NGATS.			
Title: Power and Weight Enhancements		0.354	0.030
Articles:		-	-
			0.025

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604746A / Automatic Test Equipment Development				Project (Number/Name) L59 / Diagnost/Expert Sys			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)											
								FY 2013	FY 2014	FY 2015	
Description: Develop power and weight enhancements for NGATS FY 2013 Accomplishments: Continue development of power and weight enhancements FY 2014 Plans: Continue development of power and weight enhancements FY 2015 Plans: Continue development of power and weight enhancements											
Title: Abrams/Bradley EO TPS Development Description: Develop Abrams/Bradley TPSs for use with NGATS EO asset FY 2013 Accomplishments: Continue development of TPSs FY 2014 Plans: Continue development of TPSs								Articles: 0.800 -	0.200 -	- -	
Accomplishments/Planned Programs Subtotals								7.809	4.680	7.075	
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
• : OPA3, SSN MB4000, Integrated Family of Test Equipment (IFTE)	45.447	42.460	37.482	-	37.482	39.626	39.661	49.618	61.952	Continuing	Continuing
Remarks											
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 will be a competitive award. NGATS is following											

UNCLASSIFIED

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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. <u>E. Performance Metrics</u> N/A		

UNCLASSIFIED

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 0604746A / Automatic Test Equipment Development						Project (Number/Name) L59 / Diagnost/Expert Sys			
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 Development/ Verification/Validation	Various	Various, : Various	28.051	4.309		1.343		1.700		-		1.700	Continuing	Continuing	Continuing
Hardware/Support Items Development	Various	Various, : Various	57.446	1.438		2.500		3.325		-		3.325	Continuing	Continuing	Continuing
Prototype Development	SS/CPFF	Northrop Grumman, Rolling Meadows, IL : .	15.724	1.062		-		-		-		-	Continuing	Continuing	Continuing
Subtotal			101.221	6.809		3.843		5.025		-		5.025	-	-	-
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
Project Management/ Technical Support	Various	Various, : Various	47.291	0.600		0.637		0.850		-		0.850	Continuing	Continuing	Continuing
Other Direct	Various	Various, : Various	3.190	0.400		0.200		0.200		-		0.200	Continuing	Continuing	Continuing
Subtotal			50.481	1.000		0.837		1.050		-		1.050	-	-	-
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
Operational Testing	Various	Various, : Various	4.014	-		-		0.750		-		0.750	Continuing	Continuing	Continuing
Developmental Testing	Various	Various, : Various	1.046	-		-		0.250		-		0.250	Continuing	Continuing	Continuing
Subtotal			5.060	-		-		1.000		-		1.000	-	-	-
Remarks															
Test program set (TPS) and contractor developmental test and evalutation are included in the product development cost.															

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604746A / Automatic Test Equipment Development					Project (Number/Name) L59 / Diagnost/Expert Sys			
	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	156.762	7.809		4.680		7.075		-		7.075	-	-	-
Remarks													

UNCLASSIFIED

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 0604746A / Automatic Test Equipment Development			Project (Number/Name) L59 / Diagnost/Expert Sys

	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
Full Rate Production Decision Review																												
Full Materiel Release																												
First Unit Equipped																												
NGATS Testing (Increment 1 Follow-On DT/OT)																												
NGATS Production for Down-Selection																												
NGATS Full-Rate Production (Increment 1)																												
NGATS System Development and Demonstration (SDD) (Increment 2)																												
NGATS Testing (Increment 2)																												
NGATS SDD (EO Subsystem)																												
NGATS Testing (EO Subsystem)																												
NGATS Product Improvements - Netcentric																												
New Systems Test Capability																												

UNCLASSIFIED

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 0604746A / <i>Automatic Test Equipment Development</i>	Project (Number/Name) L59 / <i>Diagnost/Expert Sys</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Full Rate Production Decision Review	2	2016	2	2016
Full Materiel Release	2	2016	2	2016
First Unit Equipped	4	2017	4	2017
NGATS Testing (Increment 1 Follow-On DT/OT)	3	2015	3	2016
NGATS Production for Down-Selection	3	2014	1	2015
NGATS Full-Rate Production (Increment 1)	2	2016	4	2019
NGATS System Development and Demonstration (SDD) (Increment 2)	4	2009	3	2016
NGATS Testing (Increment 2)	4	2010	4	2017
NGATS SDD (EO Subsystem)	4	2010	2	2015
NGATS Testing (EO Subsystem)	4	2012	2	2015
NGATS Product Improvements - Netcentric	4	2011	4	2019
New Systems Test Capability	2	2011	4	2019

UNCLASSIFIED

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Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604746A / Automatic Test Equipment Development				Project (Number/Name) L65 / Test Equipment 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
L65: Test Equipment Development	-	2.498	2.017	4.009	-	4.009	4.293	3.738	4.145	4.365	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

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 general-purpose 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, support of AN/GSM-705 and AN/GSM-421 capability upgrade requirements, 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 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/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2013	FY 2014	FY 2015
Title: Calibration Sets (CALSETS) Software Environment and Calibration	1.046	0.450	0.960
Articles:	-	-	-
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 2013 Accomplishments: Continue development and evaluation of calibration procedures. Perform testing efforts for DIACAP issues. Complete testing for initial release of a calibration software environment.			
FY 2014 Plans: 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:			

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2013	FY 2014
Continue development and evaluation of calibration procedures. Develop, test and evaluate enhanced calibration software environment. Develop and test DIACAP for calibration instrument controllers.			
Title: Physical Instruments Description: Research, develop and test physical parameter calibration instrumentation to support areas such as chemical/biological agent detection systems, night vision testers, small arms gauges, pneumatic pressure systems, temperature, etc. FY 2013 Accomplishments: Continue development and test of liquid hydrocarbon flow calibration and test standards. Continue development of traceable calibration standards for biological and chemical agent detectors and gas mask testers. Continue development and test of pneumatic and hydraulic transport standards. FY 2014 Plans: Continue development and test of hydrocarbon flow calibration and test standards. Develop requirements and prototype testers for small arms gage calibration standards. Continue development and test of chemical agent detectors and protective equipment testers and calibrators. FY 2015 Plans: Complete development and test of hydrocarbon flow calibration and test standards. Continue development, automate, and test prototype small arms gage calibration standards. Complete development and test of chemical agent detectors and protective equipment testers and calibrators. Initiate development of pneumatic standards to support avionic systems.		0.427 -	0.702 -
Title: Electrical Instruments Description: Research, develop, and test electrical parameter calibration instrumentation to support areas such as deployable recertification set, intrinsic electrical standards, electrical transport standards, etc. FY 2013 Accomplishments: Perform market research and evaluate commercial equipment and develop performance specifications for acquisition of transport calibration standards package. Develop requirements and specifications for small, practical intrinsic voltage standards. Complete development and initiate testing of a deployable recertification set capability. Continue development and testing of an intrinsic voltage standard. FY 2014 Plans:		0.975 -	1.322 -

UNCLASSIFIED

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2013	FY 2014	FY 2015
Perform market research and evaluate commercial equipment and develop performance specifications for acquisition. Continue development and testing of direct current (DC) and alternating current (AC) intrinsic voltage system. Develop and test electronic transport standards. FY 2015 Plans: Perform market research and evaluate commercial equipment and develop performance specifications for acquisition. Complete testing of DC intrinsic voltage system and continue testing of AC system. Complete testing of electronic transport standards.												
Title: Test Equipment Modernization Articles: Description: Perform market research and evaluation of commercial equipment and develop performance specifications for future general-purpose test equipment acquisitions. FY 2013 Accomplishments: Perform market research and evaluation of commercial equipment and develop performance specifications for future general-purpose test equipment acquisitions. FY 2014 Plans: 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.										0.050 -	0.161 -	0.370 -
Accomplishments/Planned Programs Subtotals										2.498	2.017	4.009
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 N10000: Calibration Sets Equipment	10.481	4.370	5.726	-	5.726	5.724	5.096	5.121	8.610	Continuing	Continuing	
• SSN N11000: Test Equipment Modernization	37.285	18.755	16.061	-	16.061	16.252	15.268	12.881	11.903	Continuing	Continuing	
Remarks												

UNCLASSIFIED

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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		

UNCLASSIFIED

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 0604746A / Automatic Test Equipment Development						Project (Number/Name) L65 / Test Equipment Development			
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
In-house Engineering	SS/LH	Civ Labor : various	3.016	0.700		0.715		0.744		-		0.744	Continuing	Continuing	-
Subtotal			3.016	0.700		0.715		0.744		-		0.744	-	-	-
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
AN/GSM-421(V2)	Various	Various : Various	2.346	-		-		-		-		-	Continuing	Continuing	-
CALSETS Software Environment and Calibration	Various	Various : Various	5.107	0.500		0.211		0.400		-		0.400	Continuing	Continuing	-
Physical Instruments	Various	Various : Various	5.905	0.250		0.292		0.580		-		0.580	Continuing	Continuing	-
Electrical Instruments	Various	Various : Various	8.138	0.598		0.293		0.552		-		0.552	Continuing	Continuing	-
Test Equipment Modernization	Various	Various : Various	0.230	0.050		0.090		0.160		-		0.160	Continuing	Continuing	-
Subtotal			21.726	1.398		0.886		1.692		-		1.692	-	-	-
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
Contract Engineering	SS/FFP	University of Alabama, Huntsville : Huntsville, AL	1.837	-		0.140		0.245		-		0.245	Continuing	Continuing	-
Subtotal			1.837	-		0.140		0.245		-		0.245	-	-	-

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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 0604746A / Automatic Test Equipment Development				Project (Number/Name) L65 / Test Equipment Development					
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
AN/GSM-421(V2)	Various	Various : Various	0.620	-		-		-		-		-	Continuing	Continuing	-
CALSETS Software Environment and Calibration	Various	Various : Various	0.300	0.200		0.070		0.360		-		0.360	Continuing	Continuing	-
Physical Instruments	Various	Various : Various	1.300	0.075		0.088		0.407		-		0.407	Continuing	Continuing	-
Electrical Instruments	Various	Various : Various	1.393	0.075		0.047		0.351		-		0.351	Continuing	Continuing	-
Test Equipment Modernization	Various	Various : Various	0.200	0.050		0.071		0.210		-		0.210	Continuing	Continuing	-
Subtotal			3.813	0.400		0.276		1.328		-		1.328	-	-	-
			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			30.392	2.498		2.017		4.009		-		4.009	-	-	-
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 0604746A / Automatic Test Equipment Development			Project (Number/Name) L65 / Test Equipment Development

	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
Physical Instruments																												
CALSETS Software Environment and Calibration																												
Electrical Instruments																												
Test Equipment Modernization																												

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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 0604746A / <i>Automatic Test Equipment Development</i>	Project (Number/Name) L65 / <i>Test Equipment Development</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Physical Instruments	2	2007	4	2019
CALSETS Software Environment and Calibration	2	2007	4	2019
Electrical Instruments	2	2007	4	2019
Test Equipment Modernization	1	2011	4	2019