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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Navy	DATE: April 2013
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APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>					PE 0604256N: <i>Threat Simulator Development</i>							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	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	0.000	27.687	30.790	43.261	-	43.261	43.084	40.443	21.797	22.094	Continuing	Continuing
0602: <i>Eletronics W/F Env Simulation (ECHO)</i>	0.000	14.866	17.390	30.151	-	30.151	33.134	27.234	7.542	7.630	Continuing	Continuing
0672: <i>Effect Nav E/W (ENEWS)</i>	0.000	12.821	13.400	13.110	-	13.110	9.950	13.209	14.255	14.464	Continuing	Continuing

[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

^{##} The FY 2014 OCO Request will be submitted at a later date

A. Mission Description and Budget Item Justification

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

This is a continuing program that consolidates the design, fabrication and integration of Naval Electronic Warfare (EW) threat simulators for increased managerial emphasis and coordination. These simulator development efforts provide realistic Developmental and Operational Test and Evaluation environments to test EW systems and defensive tactics. These projects develop threat Anti-Air and Anti-Ship weapon system simulators in accordance with the Services' requirements.

The 0602 Project, Electronic Warfare Environment Simulation, directly supports the Test and Evaluation resource requirements for all Naval Air EW development programs to include multi-spectral situational awareness and countermeasures. Programs in development and future programs include: ALR-67(v) 3, Integrated Defensive Electronic Countermeasures Suite ALQ-214, the AAR-47 (v) 3, AVR-2, Advanced 6" Expendable, Advanced Strategic Tactical Expendable, ALQ-144A, Joint and Allied Threat Awareness System, Joint Strike Fighter, EA-18G, LR700, Low Band Transmitter, P-8A, and the Next Generation Jammer.

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
1319: Research, Development, Test & Evaluation, Navy		PE 0604256N: Threat Simulator Development			
BA 6: RDT&E Management Support					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	28.318	30.790	43.893	-	43.893
Current President's Budget	27.687	30.790	43.261	-	43.261
Total Adjustments	-0.631	0.000	-0.632	-	-0.632
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-0.109	0.000			
• SBIR/STTR Transfer	-0.522	0.000			
• Rate/Misc Adjustments	0.000	0.000	-0.632	-	-0.632
Change Summary Explanation					
Technical: Not applicable.					
Schedule: Not applicable.					

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Navy										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support					R-1 ITEM NOMENCLATURE PE 0604256N: Threat Simulator Development				PROJECT 0602: Eletronics W/F Env Simulation (ECHO)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
0602: Eletronics W/F Env Simulation (ECHO)	0.000	14.866	17.390	30.151	-	30.151	33.134	27.234	7.542	7.630	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
The objective of this project is development of necessary simulation facilities and approaches to allow determination of the effectiveness of Electronic Warfare (EW) in real world engagement situations and to support the introduction of modern, effective systems into Naval Aviation. The heavy use of test resources by all Services demonstrates the importance of these assets. The Navy has been very successful in executing all of its major programs, and to date has had no major technical problems.												
The Electronic Warfare Environment Simulation project is unique because it is the only program within the Department of Defense which develops and provides Naval anti-air warfare threat assets for Test and Evaluation (T&E).												
This project directly supports the T&E resource requirements for all Naval Air EW development programs, to include multi-spectral situational awareness and countermeasures. Programs in development and future programs include: ALR-67(v) 3, Integrated Defensive Electronic Countermeasures Suite ALQ-214, the AAR-47 (v) 3, AVR-2, Advanced 6" Expendable, Advanced Strategic Tactical Expendable, ALQ-144A, Joint and Allied Threat Awareness System, Joint Strike Fighter, EA-18G, LR700, Low Band Transmitter, P-8A, and the Next Generation Jammer.												
This project provides for the development of an Integrated Air Defense T&E capability to be fielded at each of the three sites comprising the Navy's Tri-Center complex: Naval Air Warfare Center Weapons Division, China Lake and Point Mugu in CA, and Naval Air Warfare Center Aircraft Division, Patuxent River, MD.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: RADIO FREQUENCY (RF) THREAT CAPABILITIES									13.647	16.411	0.000	
									0	0		
Description: Provide the test community with the modern threat systems necessary for T&E of airborne RF alert, Situation Awareness, targeting systems and airborne RF response systems.												
The projects that have been grouped in the Radio Frequency Threat Capabilities accomplishment area through FY 2013 will realign to either the Acquisition and Measurement Capabilities accomplishment or the Engagement Capabilities accomplishment starting in FY 2014. This change was made to allow a more detailed tracking for those projects.												

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0604256N: <i>Threat Simulator Development</i>	PROJECT 0602: <i>Eletronics W/F Env Simulation (ECHO)</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
Funding increases from FY 2012 to FY 2013 due to the need for additional test capability for the Next Generation Jammer and the Joint Strike Fighter programs. FY 2012 Accomplishments: - Continued the development of the Long Range Threat System (LRTS) simulator in laboratories. - Continued the upgrade to the J-32B Advanced Threat System at Electronic Combat Range. - Continued the development of an advanced Early Warning and Acquisition radar hybrid laboratory simulator. - Completed the upgrade of an Advanced Threat System (ATS) at Electronic Combat Range (ECR). - Initiated and completed the upgrade of advanced manpad system simulators. - Initiated the development of the LRTS simulator at ECR. - Initiated the update to existing laboratory simulators of foreign radars. - Initiated the development of a Digital Radio Frequency Memory (DRFM) Jammer simulator. FY 2013 Plans: - Continue the upgrade to the J-32B ATS at ECR. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Continue the development of an advanced Early Warning and Acquisition radar hybrid laboratory simulator. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Continue the development of the LRTS at ECR. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Continue the update to existing laboratory simulators of foreign radars. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Continue the development of a DRFM Jammer simulator. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Complete the development of the LRTS in laboratories. - Initiate the upgrade and integration of missile simulation models. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Initiate the upgrade of open-loop threat simulators at ECR. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Initiate the development of an open air radio frequency beam measurement capability. Project realigned to the Acquisition and Measurement Capabilities accomplishment in FY 2014. - Initiate the development of a closed-loop threat surface to air missile system simulator. Project realigned to the Engagement Capabilities accomplishment in FY 2014. - Initiate the conversion of a threat system. Project realigned to the Engagement Capabilities accomplishment in FY 2014.			
Title: ACQUISITION AND MEASUREMENT CAPABILITIES		0.000	0.000
			10.006

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0604256N: <i>Threat Simulator Development</i>		PROJECT 0602: <i>Eletronics W/F Env Simulation (ECHO)</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2012	FY 2013	FY 2014
Articles: Description: Provide the test community with the modern threat acquisition systems and effectiveness measurement systems necessary for Test and Evaluation of airborne alert, Situation Awareness, targeting systems and airborne response systems. The Acquisition and Measurement Capabilities accomplishment was created to allow a more detailed tracking for some of the projects that were previously grouped under the Radio Frequency (RF) Threat Capabilities accomplishment. All projects listed as continue or complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment. FY 2014 Plans: Projects listed as Continue or Complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment. - Continue the update to existing laboratory simulators of foreign radars that was realigned from the RF Threat Capabilities accomplishment. - Continue the upgrade of open-loop threat simulators at Electronic Combat Range (ECR) that was realigned from the RF Threat Capabilities accomplishment. - Continue the development of an open air radio frequency beam measurement capability that was realigned from the RF Threat Capabilities accomplishment. - Initiate the upgrade of open air radio frequency signal density enhancement systems. - Complete the development of an advanced Early Warning and Acquisition radar hybrid laboratory simulator that was realigned from the RF Threat Capabilities accomplishment.					0
Title: REQUIREMENTS AND VALIDATION Articles: Description: Validate and track intel updates of the threat systems necessary for the operation and continuous improvement of Navy laboratories and ranges which provide engineering support, testing and analysis to the developers, integrators, testers and users of systems and technologies that counter or penetrate air defenses. FY 2012 Accomplishments: - Continued to provide program management, systems engineering, and requirements identification for the development of simulators and foreign material acquisition. - Continued to validate simulators and stimulators at the Navy tri-lab centers. FY 2013 Plans:			1.219 0	0.979 0	0.981 0

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>		R-1 ITEM NOMENCLATURE PE 0604256N: <i>Threat Simulator Development</i>		PROJECT 0602: <i>Eletronics W/F Env Simulation (ECHO)</i>	
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2012	FY 2013	FY 2014
- Continue to provide program management, systems engineering, and requirements identification for the development of simulators and foreign material acquisition. - Continue to validate simulators and stimulators at the Navy tri-lab centers. FY 2014 Plans: - Continue to provide program management, systems engineering, and requirements identification for the development of simulators and foreign material acquisition. - Continue to validate simulators and stimulators at the Navy tri-lab centers.					
Title: ENGAGEMENT CAPABILITIES Articles: Description: Provide the test community with the modern threat engagement systems necessary for Test and Evaluation of airborne alert, Situation Awareness, targeting systems and airborne response systems. The Engagement Capabilities accomplishment was created to allow a more detailed tracking for some of the projects that were previously grouped under the Radio Frequency (RF) Threat Capabilities accomplishment. All projects listed as continue or complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment. FY 2014 Plans: Projects listed as Continue or Complete under this accomplishment were realigned from the RF Threat Capabilities accomplishment. - Continue the upgrade and integration of missile simulation models that was realigned from the RF Threat Capabilities accomplishment. - Continue the development of a closed-loop threat surface to air missile system simulator that was realigned from the RF Threat Capabilities accomplishment. - Continue the conversion of a threat system that was realigned from the RF Threat Capabilities accomplishment. - Complete the development of the Long Range Threat System simulator at ECR that was realigned from the RF Threat Capabilities accomplishment. - Complete the development of a Digital Radio Frequency Memory Jammer simulator that was realigned from the RF Threat Capabilities accomplishment. - Complete the upgrade to the J-32B Advanced Threat System at Electronic Combat Range that was realigned from the RF Threat Capabilities accomplishment.			0.000	0.000	19.164 0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013
- Initiate the minor upgrades to open air and laboratory threat systems.			
Accomplishments/Planned Programs Subtotals		14.866	17.390
C. Other Program Funding Summary (\$ in Millions) N/A			
Remarks			
D. Acquisition Strategy Not Applicable.			
E. Performance Metrics Successfully achieve Initial Operational Capability of Navy Threat Simulation projects within 60 days of approved schedule and have test capabilities scheduled in support of Navy test programs within 180 days.			

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support					R-1 ITEM NOMENCLATURE PE 0604256N: Threat Simulator Development				PROJECT 0672: Effect Nav E/W (ENEWS)			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
0672: Effect Nav E/W (ENEWS)	0.000	12.821	13.400	13.110	-	13.110	9.950	13.209	14.255	14.464	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0		0	0	0	0	0		
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
The objective of the Effectiveness of Navy Electronic Warfare (EW) Systems (ENEWS) Project is the development and application of necessary simulation assets to determine the effectiveness of EW for Navy ships in simulated real-world engagement situations. The project primarily supports the introduction of modern, effective shipboard and offboard EW systems, and tactics for the Surface Navy. The heavy use of ENEWS resources by Naval Sea Systems Command, Operational Test and Evaluation (OT&E) Force, Special Operations, and other EW Research, Development, Test and Evaluation (T&E) agencies speaks to the overall importance of this project. The project provides support for EW system design, Engineering Test (ET), Development Test (DT), Operational Test (OT), and the development of utilization tactics. In the past ENEWS' quick reaction capabilities have had great impact on crisis situations such as the Libyan crises, Iran threat, Persian Gulf crisis, and Operation Desert Shield/Storm. Simulation Display (SIMDIS) is an ENEWS modeling tool that was developed to support T&E. SIMDIS has been adopted by most Department of Defense (DoD) T&E and training ranges to provide visualization of T&E and training scenarios. One of the primary threats to surface ships is Anti-Ship Capable Missile systems. The ENEWS Project is unique in that it is the only project within DoD dedicated to developing and providing realistic Anti-Ship Capable Missile assets to test and evaluate the effectiveness of shipboard EW systems and tactics against these type threats. The ENEWS Project is a critical part of the Office of the Secretary of Defense Test Resource Master Plan. This plan employs many of the ENEWS assets for planning, analysis, testing, and verification of shipboard and off-board EW systems techniques and tactics. As part of its normal activities, ENEWS provides Development Test and Evaluation (DT&E), OT&E, and Follow-on Operational Test and Evaluation (FOT&E) support to the surface Navy for all ship classes. DT, OT and FOT&E support includes AN/SLQ-32 Surface Electronic Warfare Improvement Program (SEWIP), Nulka, Rapid Anti-ship Integrated Defense System, all MK245 Giant tests, advanced InfraRed (IR) decoys, decoy placement, ship IR signature and radar cross section measurement of DDG-51, LPD-17, DD-21 and PC class ships, High Power Microwave program, and other ship self-defense initiatives, including T&E of Future Naval Capability process. In addition, ENEWS assets are regularly employed to test the effectiveness of North Atlantic Treaty Organization ships' EW systems in joint allied exercises. ENEWS assets also support Joint EW exercises that are conducted with Rim of the Pacific (RIMPAC) nations.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014	
Title: CLASSIFIED PROGRAM									8.064	8.462	8.626	
									0	0	0	
Description: Details about this program are classified.												
Details about this program and any changes are classified.												

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APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support	R-1 ITEM NOMENCLATURE PE 0604256N: Threat Simulator Development	PROJECT 0672: Effect Nav E/W (ENEWS)		
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
FY 2012 Accomplishments: - Details are of a higher classification.				
FY 2013 Plans: - Details are of a higher classification.				
FY 2014 Plans: - Details are of a higher classification.				
Title: HARDWARE SIMULATION SYSTEMS		1.760	1.919	1.929
Articles:		0	0	0
Description: Maintain and perform Hardware and Software Upgrades to the inventory of ENEWS flyable and shore based Anti-Ship Capable Missile (ASCM) Electro-Optic/Infrared (EO/IR), Visible and Radio Frequency (RF) Simulators. Perform characterization of IR and RF simulators as part of periodic evaluation of simulation performance and collect performance data for comparison with previously recorded data. Development and maintenance of all simulator control panels.				
FY 2012 Accomplishments: - Continued annual maintenance on ENEWS simulators to support flight/shore based tests. - Continued software intelligence upgrades to the FOXTROT 3 towed simulator (TOWSIM). - Completed software intelligence upgrades to the VICTOR 1 SIP and SUMMIT simulators. - Completed intelligence upgrades to the VICTOR 1 Standard Instrumentation Pod (SIP) and SUMMIT simulators. - Initiated characterization of NOVEMBER Va/Vb simulators. - Initiated and completed characterization of GAMMA simulator.				
FY 2013 Plans: - Continue annual maintenance of ENEWS simulators to support flight/shore based tests. - Complete software intelligence upgrades to the FOXTROT 3 TOWSIM. - Complete characterization of NOVEMBER Va/Vb simulator. - Initiate software intelligence upgrades to the MEIR 3 and MIKE 3. - Initiate and complete characterization of the OMEGA simulator.				
FY 2014 Plans: - Continue annual maintenance of ENEWS simulators to support flight/shore based tests. - Complete software intelligence upgrades to the MEIR 3 and MIKE 3 simulators. - Initiate hardware upgrades to the SUMMIT Simulator.				

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2012	FY 2013	FY 2014
- Initiate software upgrades to the VICTOR SIP.				
Title: SIMULATION VALIDATION AND REQUIREMENTS		0.967	0.940	0.556
Articles:		0	0	0
Description: Provides for the validation of hardware simulators and digital models. Develops reports that contain detailed descriptions and parametric data of the threat simulators or digital models and compares the simulator's parametric data to the actual threats parametric data. Provide technical management functions in support of the ENEWS project; engineering and technical support requirements for the overall efforts of ASCM simulator and digital model development to meet DT/OT testing requirements, development of detailed test resource requirements and provides an interface between OPNAV N2/N6, Office of Naval Research, Naval Post Graduate School (NPS) and other ENEWS oversight activities.				
FY 2012 Accomplishments:				
- Continued management of the Simulator Validation Working Group (SVWG).				
- Continued QUESTION and UNIFORM hardware validation reports.				
- Initiated and completed update of the FY 2012 Program Management Plan.				
- Initiated and completed FY 2012 quarterly reports, earned value management analysis, progress tracking and analysis.				
- Initiated FOXTROT 3 TOWSIM, OMEGA and GAMMA hardware validation reports.				
FY 2013 Plans:				
- Continue management of the SVWG.				
- Complete QUESTION and UNIFORM hardware validation reports.				
- Complete FOXTROT 3 TOWSIM, OMEGA and GAMMA hardware validation reports				
- Initiate and complete update of the FY 2013 Program Management Plan.				
- Initiate and complete FY 2013 quarterly reports, earned value management analysis, progress tracking and analysis.				
- Initiate SIGMA hardware validation report.				
FY 2014 Plans:				
- Continue participation in the SVWG.				
- Continue SIGMA simulator hardware validation report.				
- Initiate and complete update of the 2014 Program Management Plan.				
- Initiate and complete FY2014 monthly reports, performance based management and analysis, financial execution reporting and assessment.				
- Initiate OMEGA 2 and ZETA simulator hardware validation report.				
Title: SUPPORT AND COMPUTERS SIMULATION SYSTEMS		2.030	2.079	1.999
Articles:		0	0	0

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2012	FY 2013	FY 2014
Description: Perform maintenance and intelligence upgrades to EO/IR, Digital, and RF Laboratory Simulation testing facilities and flight support equipment based on existing and emerging complex threat systems. Development of T&E scenarios and environmental modeling to support electronic support (ES) and electronic attack (EA) testing; modify ASCM Digital Models based on the latest intelligence data obtained from threat databases. FY 2012 Accomplishments: - Continued maintenance and upgrades to shore-based test facilities and mobile test vans as required to conduct tests in support of SEWIP, NULKA and multi function EW programs. - Continued transitioning environmental, threat and platform simulations to the subversion software configuration management program. - Continued upgrades to configuration control software library as new releases became available. - Continued to develop new digital models of Anti-ship Cruise Missile (ASCM) threats as they became available. - Continued upgrades and maintenance of flight support systems as necessary to support the IR/RF ENEWS simulators. - Continued improvements and intelligence upgrades to ALPHA I, INDIA I, II, III, LIMA, NOVEMBER III, QUEBEC, TANGO, and TANGO II. In all, a total of 9 digital models. - Continued improvements and intelligence upgrades to the Millimeter Wave (mmW) digital models. - Completed improvements and intelligence upgrades to the COHERENT and Foreign Anti-Ship Missile (FASM) digital models. - Completed the simulation user friendly enhancements for the Long Range High Altitude (LRHA) digital model. - Initiated simulation user friendly enhancements for the TANGO and TANGO II digital models. FY 2013 Plans: - Continue all efforts of 2012, less those noted as completed below. - Complete the simulator user friendly enhancements for the TANGO and TANGO II digital models - Initiate the simulator user friendly enhancements for the NOVEMBER IV digital model. FY 2014 Plans: - Continue all efforts of 2013, less those noted as completed below. - Complete simulator user friendly enhancements for the NOVEMBER IV digital model. - Complete improvements and intelligence upgrades to the mmW digital models. - Initiate development of LIMA III and LIMA IV digital models					
Accomplishments/Planned Programs Subtotals			12.821	13.400	13.110
C. Other Program Funding Summary (\$ in Millions)					
N/A					

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C. Other Program Funding Summary (\$ in Millions)		
Remarks		
D. Acquisition Strategy Not applicable.		
E. Performance Metrics Performance metrics are discussed within each project (R2a).		