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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Army	DATE: February 2012
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APPROPRIATION/BUDGET ACTIVITY				R-1 ITEM NOMENCLATURE							
2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>				PE 0102419A: <i>Aerostat Joint Project Office</i>							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	399.477	327.338	190.422	-	190.422	95.515	32.480	24.130	24.612	Continuing	Continuing
E55: <i>Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS</i>	399.477	327.338	190.422	-	190.422	95.515	32.480	24.130	24.612	Continuing	Continuing

Note

Fiscal Year (FY) 2011: JLENS was increased \$40.350 million to fund the Secretary of Defense directed Combatant Command (COCOM) Exercise extended test program.

FY 2012: JLENS was reduced \$16.800 million to fund other higher priorities.

FY 2013: JLENS was increased \$34.001 million to fund the Secretary of Defense directed COCOM Exercise extended test program.

A. Mission Description and Budget Item Justification

Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) is a supporting program of the Army and Joint Integrated Air and Missile Defense, providing a persistent surveillance and tracking capability for Unmanned Aerial Vehicle and Cruise Missile defense to the current and projected defense forces. JLENS will provide fire control quality data to Surface to Air missile systems such as Army Patriot and Navy Aegis; increasing the weapons' capabilities by allowing these systems to engage targets normally below, outside or beyond surface based weapons' field of view. Additionally, JLENS provides this fire control quality data to fighter aircraft allowing them to engage hostile threats from extended ranges.

As a secondary role JLENS also detects and tracks Surface Moving Targets. The Program Manager may defer integration of the JLENS secondary roles to provide Launch Point Estimate for Tactical Ballistic Missiles and Large Caliber Rockets, based on Secretary of Defense direction to participate in and conduct an extended test program as part of a Combatant Command Exercise in FY 2012. JLENS supports military operations across the full spectrum of conflict.

A JLENS Orbit consists of two systems: a fire control radar system and a wide-area surveillance radar system. Each radar system employs a separate 74-meter tethered aerostat, mobile mooring station, radar and communications payload, processing station, and associated ground support equipment. JLENS uses advanced sensor and networking technologies to provide 360-degree, wide-area surveillance and precision target tracking. This JLENS information is distributed via joint service networks and contributes to the development of a single integrated air picture.

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2040: Research, Development, Test & Evaluation, Army		PE 0102419A: Aerostat Joint Project Office			
BA 7: Operational Systems Development					
B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	372.493	344.655	156.421	-	156.421
Current President's Budget	399.477	327.338	190.422	-	190.422
Total Adjustments	26.984	-17.317	34.001	-	34.001
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-11.039	-			
• Adjustments to Budget Years	-	-	34.001	-	34.001
• Congressional General Reductions	-2.327	-0.517	-	-	-
• Congressional Directed Reductions	-	-16.800	-	-	-
• Other Adjustments 3	40.350	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2013 Army									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0102419A: Aerostat Joint Project Office				PROJECT E55: Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS			
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
E55: Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS	399.477	327.338	190.422	-	190.422	95.515	32.480	24.130	24.612	Continuing	Continuing
Quantity of RDT&E Articles											

A. Mission Description and Budget Item Justification

Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) is a supporting program of the Army and Joint Integrated Air and Missile Defense, providing a persistent surveillance and tracking capability for Unmanned Aerial Vehicle and Cruise Missile defense to the current and projected defense forces. JLENS will provide fire control quality data to Surface to Air missile systems such as Army Patriot and Navy Aegis; increasing the weapons' capabilities by allowing these systems to engage targets normally below, outside or beyond surface based weapons' field of view. Additionally, JLENS provides this fire control quality data to fighter aircraft allowing them to engage hostile threats from extended ranges.

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2011	FY 2012	FY 2013
Title: Engineering and Manufacturing Development (EMD) phase contract activity	321.386	187.046	113.958
Articles:	0	0	
Description: Continue EMD phase contract activities.			
FY 2011 Accomplishments: Complete integration of system hardware components and system level integration. Continue software development, integration and test. Deliver Orbits 1 and 2 to test sites. Initiate planning and preparation for the Secretary of Defense directed COCOM Exercise extended test program.			
FY 2012 Plans:			

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Complete software development, integration and test, initiate Developmental Testing (DT), conduct user training, will execute Integrated Fire Control (IFC) shot with Patriot, conduct Navy Integrated Fire Control-Counter Air (NIFC-CA) tracking test and conduct NIFC-CA Live Fire demonstration. Execute the Secretary of Defense directed COCOM Exercise extended test program. FY 2013 Plans: Complete DT, conduct Limited User Test (LUT), conduct Logistics Demonstration, conduct Climactic Testing, and incorporate system improvements resulting from testing. Continue execution of the Secretary of Defense directed Combatant Command (COCOM) Exercise extended test program.				
Title: Government System Test and Evaluation (STE) Articles: Description: Government STE program in support of Engineering and Manufacturing Development (EMD). FY 2011 Accomplishments: Orbits 1 and 2 will be delivered to test sites. Initiate planning and preparation for the Secretary of Defense directed COCOM Exercise extended test program. FY 2012 Plans: Initiate Developmental Testing (DT), conduct user training, will execute Integrated Fire Control (IFC) shot with Patriot, conduct Navy Integrated Fire Control-Counter Air (NIFC-CA) tracking test and conduct NIFC-CA Live Fire demonstration. Execute the Secretary of Defense directed COCOM Exercise extended test program. FY 2013 Plans: Complete DT, conduct Limited User Test (LUT) conduct Logistics Demonstration, and conduct Climactic Testing. Continue execution of the Secretary of Defense directed COCOM Exercise extended test program		22.101 0	51.852 0	25.710
Title: EMD Phase Other Contractor/Other Government Agencies (OGAs) Support Articles: Description: Other contracts and OGAs support of EMD phase activities. Perform technical assessments, concept studies, cost reduction, risk reduction and required documentation. FY 2011 Accomplishments: Continue support of EMD activities. Support completion of integration of system hardware components and system level integration. Continue to support software development, integration and test. Support delivery of Orbits 1 and 2 to test sites. Perform technical assessments, concept studies, cost reduction, risk reduction and required documentation. FY 2012 Plans:		44.871 0	56.963 0	44.370

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2011	FY 2012	FY 2013
Continue support of EMD activities. Support the completion of software development, integration and test. Support initialization of DT and user training. Perform technical assessments, concept studies, cost reduction, risk reduction and required documentation.				
FY 2013 Plans: Continue support of EMD activities, incorporating system improvements identified during testing. Continue to support DT and conduct of LUT. Perform technical assessments, concept studies, cost reduction, risk reduction and required documentation.				
Title: Government Program Management (PM) Support Articles: Description: Provide Government PM support of EMD activities. FY 2011 Accomplishments: Continue Government PM support of EMD activities. Manage completion of integration of system hardware components and system level integration. Continue management of software development, integration and test. Manage the delivery of Orbits 1 and 2 to test sites. Provide PM oversight of the planning and preparation for the Secretary of Defense directed Combatant Command (COCOM) Exercise extended test program. FY 2012 Plans: Continue Government Program Management (PM) support of Engineering and Manufacturing Development (EMD) activities. Manage completion of software development, integration and test. Provide management oversight of Developmental Testing (DT), conduct of user training, execution of Integrated Fire Control (IFC) shot with Patriot, conduct of Navy Integrated Fire Control-Counter Air (NIFC-CA) tracking test and conduct of NIFC-CA Live Fire demonstration. Provide PM oversight of the execution of the Secretary of Defense directed COCOM Exercise extended test program. FY 2013 Plans: Continue Government PM support of EMD activities. Continue management of DT, conduct of Limited User Test (LUT), conduct of Logistics Demonstration, and conduct of Climactic Testing. Continue PM oversight of the execution of the Secretary of Defense directed COCOM Exercise extended test program.		2.445 0	3.300 0	2.929
Title: Government Furnished Equipment (GFE) Intergration Articles: Description: The GFE provided to the Prime Contractor for hardware and system integration. FY 2011 Accomplishments: The GFE provided to the Prime Contractor for hardware and system integration. FY 2012 Plans:		8.674 0	9.527 0	3.455

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2011	FY 2012	FY 2013
The Government Furnished Equipment (GFE) provided to the Prime Contractor for hardware and system integration.											
FY 2013 Plans: The GFE provided to the Prime Contractor for hardware and system integration.											
Title: Organizational Support Equipment (OSE) Articles: Description: The OSE required for Operational Testing (OT) of Engineering and Manufacturing Development (EMD) Orbit 1. FY 2012 Plans: Acquisition of the OSE required for OT of EMD Orbit 1.									-	18.650 0	-
Accomplishments/Planned Programs Subtotals									399.477	327.338	190.422
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• PE 0604869A, Proj M06: Proj M06, Patriot/MEADS Combined Aggregate Program (CAP)	450.584	389.630	400.861		400.861					Continuing	Continuing
• PE 0605456A, Proj PA3: Proj PA3, PAC-3/MSE Missile	121.475	88.909	69.029		69.029		130.348	63.975	65.771	Continuing	Continuing
• SSN C53101: MSE Missile		74.953	12.850		12.850		505.084	596.387	566.757	Continuing	Continuing
• Proj E55: Proj E55, JLENS	399.477	327.338	190.422		190.422		24.130	24.612		Continuing	Continuing
• PE 0605455A, Proj S35: Proj, S35, SLAMRAAM	18.358	1.529								Continuing	Continuing
• SSN C81002: SLAMRAAM Launcher	2.355									Continuing	Continuing
• PE 0604319A Proj DU3: Proj DU3, IFPC2 (FY 20011/2012 PE0603305A IFPC II-Intercept)	4.143	9.269	76.039		76.039		122.355	146.463	151.769	Continuing	Continuing
• SSN WK5053: FAAD GBS	258.413	3.958	7.980		7.980					Continuing	Continuing
• PE 0605457A, Proj S40: Proj S40, Army Integrated Air and Missile Defense (AIAMD)	246.691	270.180	262.211		262.211		394.260	210.580	135.072	Continuing	Continuing

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
• SSN ZBZ5075: Army IAMD Battle Command System (IBCS)							103.051	281.828	426.582	Continuing	Continuing
• PE 0208053, Proj 635: Proj 635, JOINT TACT GRD STATION-P3I (MIP)	12.005	27.586	31.738		31.738		8.006	8.134	8.314	Continuing	Continuing
• SSN BZ8401: Joint Tactical Ground Station (JTAGS)	9.227	1.199	2.680		2.680		4.432	4.496	4.768	Continuing	Continuing
• PE 0604820A, Proj E10: Proj E10, SENTINEL		2.885	3.486		3.486		1.948	2.972	3.022	Continuing	Continuing
D. Acquisition Strategy											
The JLENS Operational Requirements Document (ORD) calls for initial fielding to Block I requirements (tethered aerostat platforms for Fire Control and Surveillance radars), followed by fielding of Block II (untethered platforms for Fire Control and Surveillance radars), and Block III (both radars on a single untethered platform). There is currently no funding beyond Block I.											
On 28 Jun 05, the Defense Acquisition Board (DAB) approved the JLENS program for entry into Engineering and Manufacturing Development (EMD) as recommended by the Army Acquisition Executive. The DAB elected to maintain oversight of JLENS as an Acquisition Category (ACAT) 1D program as stated in the Acquisition Decision Memorandum signed on August 5, 2005.											
In June 2011, the Secretary of Defense directed JLENS to participate in and conduct an extended test program in support of the Combatant Command (COCOM). Initial funding of \$40.350 million was reprogrammed into FY 2011. The President's Budget FY 2013 includes funding to support extending the EMD phase and to continue the COCOM Exercise extended test program.											
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.											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army										DATE: February 2012			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0102419A: Aerostat Joint Project Office				PROJECT E55: Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS					
Management Services (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
EMD Government Program Management	Various	PEO Missiles and Space:Various	19.116	3.300		2.929		-		2.929	Continuing	Continuing	Continuing
Subtotal			19.116	3.300		2.929		-		2.929			
Product Development (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technology Development (TD) Phase Contracts and Government	Various	Various:Multiple	301.083	-		-		-		-	Continuing	Continuing	Continuing
Contractor Engineering and Manufacturing Development (EMD) Hardware/Software	SS/CPIF	Raytheon Systems Co.:Andover, MA	1,450.769	150.257		62.588		-		62.588	Continuing	Continuing	Continuing
EMD Other Government Agency System Engineering/ Logistics	Various	Multiple:Various	36.583	17.662		15.872		-		15.872	Continuing	Continuing	Continuing
Lightweight X-Band Radar Antenna	Various	Various:Various	7.811	-		-		-		-	Continuing	Continuing	Continuing
EMD System Engineering/ Logistics Contracts	Various	Multiple:Various	123.344	39.301		28.498		-		28.498	Continuing	Continuing	Continuing
EMD Government Furnished Equipment (GFE) Various	Various	Multiple:Various	22.561	2.829		1.455		-		1.455	Continuing	Continuing	Continuing
EMD GFE - Cooperative Engagement Transmission Processing Set (CETPS)	Various	Multiple:Various	35.102	6.698		2.000		-		2.000	Continuing	Continuing	Continuing
EMD Organizational Support Equipment	Various	Multiple:Various	-	18.650		-		-		-	Continuing	Continuing	Continuing
Subtotal			1,977.253	235.397		110.413		-		110.413			

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2013 Army										DATE: February 2012			
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Support (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
TD Phase Miscellaneous Support	Various	Various:Multiple	2.084	-		-		-		-	Continuing	Continuing	Continuing
Subtotal			2.084	-		-		-		-			
Test and Evaluation (\$ in Millions)				FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Technology Development (TD) Phase Test Bed Maintenance	SS/CPFF	Clark and Stender (CAS), Inc.:TX/NM	3.056	-		-		-		-	Continuing	Continuing	Continuing
Engineering and Manufacturing Development (EMD) Contractor System Test and Evaluation	SS/CPIF	Raytheon Systems Co.:MA/CA/FL/TX	66.365	36.789		25.207		-		25.207	Continuing	Continuing	Continuing
EMD Government System Test and Evaluation	Various	Multiple:Various	67.792	51.852		21.451		-		21.451	Continuing	Continuing	Continuing
Combatant Command (COCOM)Exercise- Contractor	SS/CPIF	Raytheon Systems Co.:MA/CA/FL/TX	36.315	-		26.163		-		26.163	Continuing	Continuing	Continuing
COCOM Exercise-Government	Various	Multiple:Various	4.035	-		4.259		-		4.259	Continuing	Continuing	Continuing
Subtotal			177.563	88.641		77.080		-		77.080			
			Total Prior Years Cost	FY 2012		FY 2013 Base		FY 2013 OCO		FY 2013 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			2,176.016	327.338		190.422		-		190.422			
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2013 Army			DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>		R-1 ITEM NOMENCLATURE PE 0102419A: <i>Aerostat Joint Project Office</i>		PROJECT E55: <i>Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS</i>	

	FY 2011				FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017			
	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
Orbit 1 Delivery to Test																												
Orbit 2 Delivery to Test																												
Developmental Test (DT) 1																												
Electromagnetic Environmental Effects (E3) Test																												
Transportation and Mobility (T&M) Test																												
Integrated Fire Control (IFC) Test																												
Navy Integrated Fire Control-Counter Air (NIFC-CA) Demonstration																												
Developmental Test 2																												
Limited User Test (LUT)																												
Logistics Demonstration																												
Climactic Testing																												
March Order and Emplacement (MO&E) Test																												
Initial Operational Test and Evaluation (IOT&E)																												
Combatant Command (COCOM) Exercise																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2013 Army			DATE: February 2012
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 7: <i>Operational Systems Development</i>	R-1 ITEM NOMENCLATURE PE 0102419A: <i>Aerostat Joint Project Office</i>	PROJECT E55: <i>Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Orbit 1 Delivery to Test	3	2011	3	2011
Orbit 2 Delivery to Test	4	2011	4	2011
Developmental Test (DT) 1	1	2012	1	2012
Electroagnetic Environmental Effects (E3) Test	2	2012	4	2012
Transportation and Mobility (T&M) Test	2	2012	1	2013
Integrated Fire Control (IFC) Test	3	2012	3	2012
Navy Integrated Fire Control-Counter Air (NIFC-CA) Demonstration	4	2012	4	2012
Developmental Test 2	1	2013	1	2013
Limited User Test (LUT)	1	2013	2	2013
Logistics Demonstration	2	2013	3	2013
Climactic Testing	4	2013	1	2014
March Order and Emplacement (MO&E) Test	2	2014	2	2014
Initial Operational Test and Evaluation (IOT&E)	2	2014	3	2014
Combatant Command (COCOM) Exercise	4	2011	4	2017