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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Army										Date: February 2015		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0102419A / Aerostat Joint Project - EMD							
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	-	57.976	-	-	-	-	-	-	-	-	-	57.976
E55: Joint Aero Stat Program - EMD Effort	-	57.976	-	-	-	-	-	-	-	-	-	57.976

Note

An FY 2014 Congressional realignment divided the JLENS Research, Development, Test, and Evaluation (RDT&E) funding line between two separate Program Elements (PEs). PE/Project 0102419A/E55 funds the Engineering and Manufacturing Development (EMD) and a second PE/Project 0202429A/EP8 funds the JLENS COCOM Exercise.

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 persistent, over the horizon surveillance and fire control quality data on Army and Joint networks. This over-the-horizon radar system enables protection of the U.S. and coalition forces, as well as geopolitical assets from Cruise Missiles, Aircraft, Unmanned Air Vehicles, Tactical Ballistic Missiles, Large Caliber Rockets, and Surface Moving Targets.

A JLENS Orbit consists of two systems: a fire control radar system and a wide-area surveillance radar system. Each radar system consists of a separate 74-meter tethered aerostat, mobile mooring station, radar and communications payload, processing station, and associated ground support equipment. The systems are designed to work together, but can operate independently. The JLENS Orbit is transportable by road, rail, sea and air.

JLENS uses advanced sensor and networking technologies to provide persistent, 360-degree, wide-area surveillance and precision tracking of Land Attack Cruise Missiles and other types of Air Breathing Threats. This information is distributed via joint service networks and provides fire control quality data to Surface to Air missile systems, such as Army Patriot and Navy Aegis, increasing the weapons' capabilities by allowing systems to engage targets normally below, outside, or beyond surface based weapons' field of view. JLENS also provides fire control quality data to fighter aircraft, allowing the aircraft to engage hostile threats from extended ranges, and contributes to the development of a single integrated air picture.

JLENS Product Office successfully demonstrated the system's operational capability with the Weapon Systems Evaluation Program (WSEP) proof of concept for the National Capital Region Integrated Air Defense System exercise. The Exercise used JLENS with an United States Air Force (USAF) operational aircraft and a Norwegian Advanced Surface to Air Missile System (NASAMS), to track and neutralize targets in August 2013.

JLENS has been directed to support a Homeland Defense Operational Exercise in the National Capital Region (NRC) from Fiscal Year (FY) 2014 to FY 2017 and will be assessed during the exercise to support a follow on decision from the Joint Requirements Oversight Council (JROC). The JLENS Product Office has a requirement for the acquisition of services through the JLENS Exercise Contract to support the deployment of a JLENS Orbit at Aberdeen Proving Grounds (APG), MD as directed by the Joint Requirements Oversight Council Memorandum (JROCM) 021-13 signed by the Vice Chairman of the Joint Chiefs of Staff on 31 January 2013.

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B. Program Change Summary (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget		83.406	54.076	50.167	-	50.167
Current President's Budget		57.976	-	-	-	-
Total Adjustments		-25.430	-54.076	-50.167	-	-50.167
• Congressional General Reductions		-	-0.028			
• Congressional Directed Reductions		-	-10.800			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-23.450	-43.248			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-1.980	-			
• Adjustments to Budget Years		-	-	-50.167	-	-50.167

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Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0102419A / Aerostat Joint Project - EMD				Project (Number/Name) E55 / Joint Aero Stat Program -EMD Effort			
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
E55: Joint Aero Stat Program - EMD Effort	-	57.976	-	-	-	-	-	-	-	-	-	57.976
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2014	FY 2015	FY 2016
Title: Government System Test and Evaluation (STE)			2.875	-	-
Description: Government STE program in support of Engineering and Manufacturing Development (EMD).					
FY 2014 Accomplishments: Support closeout of EMD activities, provides support and materials for Identification Friend or Foe (IFF) Mode 5 certification, Cooperative Engagement Capability (CEC) testing, safety assessment for the JLENS Exercise, and shutdown of the testing facility at White Sands Missile Range (WSMR), NM. Perform technical assessments, studies, cost reduction, risk reduction, and complete required program documentation to include necessary enhancements, as required to address Information Assurance, Cyber Security, and System Trouble Reports. All Government System Test and Evaluation costs will be accounted for under the EMD funding line.					
Title: Engineering and Manufacturing Development (EMD) Phase Other Contractor/Other Government Agencies (OGAs) Support			6.631	-	-
Description: Other contracts and OGAs support of EMD phase activities. Perform technical assessments, concept studies, cost reduction, risk reduction and required documentation.					
FY 2014 Accomplishments: Support closeout of EMD activities, provides support and materials for IFF Mode 5 certification, CEC testing, safety assessment for the JLENS Exercise, shutdown of facilities at White Sands Missile Range (WSMR), and the emplacement and checkout of the Orbit at Aberdeen Proving Grounds (APG), MD. This support was in preparation for the JLENS Exercise in the National Capital Region (NCR) in FY 2015. Also to perform technical assessments, studies, cost reduction, risk reduction, and complete required program documentation to include necessary enhancements, as required to address Information Assurance, Cyber Security, and System Trouble Reports. All EMD Phase Other Contractor/OGAs Support costs will be accounted for under the EMD funding line.					
Title: Software Maintenance and Engineering Support			42.628	-	-
Description: Contract and Government support for software maintenance and upgrades and engineering support.					
FY 2014 Accomplishments: Contract and Government support for software maintenance, upgrades, and engineering support activities, after conclusion of the EMD program and transition to JLENS Exercise. Support closeout of EMD activities, provides support and materials for Identification Friend or Foe (IFF) Mode 5 certification, Cooperative Engagement Capability (CEC) testing, safety assessment for the JLENS Exercise, shutdown of facilities at White Sands Missile Range (WSMR), NM, packing and shipment of an Orbit from Utah Test and Training Range (UTTR), the installation, checkout, and testing of the Surveillance System (SuS) at Aberdeen Proving Grounds (APG), MD. Conduct technical assessments, studies, cost reduction, risk reduction, and complete required program documentation, to include necessary enhancements as required to address Information Assurance, Cyber Security, and					

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Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0102419A / Aerostat Joint Project - EMD			Project (Number/Name) E55 / Joint Aero Stat Program -EMD Effort				
B. Accomplishments/Planned Programs (\$ in Millions)							FY 2014	FY 2015	FY 2016		
Systems Trouble Reports. All Government Program Management (PM) Support costs will be accounted for under the Engineering and Manufacturing Development (EMD) funding line.											
Title: Government Program Management (PM) Support							5.590	-	-		
Description: Provide Government PM support of Engineering and Manufacturing Development (EMD) activities.											
FY 2014 Accomplishments: Provides PM oversight of the contract and Government software maintenance, upgrades, and engineering support activities after conclusion of the EMD program and transition to Joint Land Attack Cruise Missile Defense Elevated Netted Sensor (JLENS) Exercise; support closeout of EMD activities, provides support and materials for Identification Friend or Foe (IFF) Mode 5 certification, Cooperative Engagement Capability (CEC) testing, safety assessment for the JLENS Exercise, shutdown of facilities at White Sands Missile Range (WSMR), NM, packing and shipment of an Orbit from Utah Test and Training Range (UTTR), the installation, checkout and testing of the Surveillance System (SuS) at Aberdeen Proving Grounds (APG), MD; perform oversight of technical assessments, studies, cost reduction, risk reduction, and complete required program documentation to include necessary enhancements, as required, to address Information Assurance, Cyber Security, and System Trouble Reports. All Government PM Support costs will be accounted for under the EMD funding line.											
Title: Government Furnished Equipment (GFE) Integration							0.252	-	-		
Description: The GFE will be provided to the Prime Contractor for hardware and system integration.											
FY 2014 Accomplishments: The GFE will continue to be provided to the Prime Contractor for hardware and system integration. Perform technical assessments, studies, cost reduction, risk reduction, and complete required program documentation. All Government Furnished Equipment GFE Integration costs will be accounted for under the Engineering and Manufacturing Development (EMD) funding line.											
Accomplishments/Planned Programs Subtotals							57.976	-	-		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	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
• PE 0605456A, Proj PA3: Proj PA3, PAC-3/MSE Missile	86.223	34.991	2.271	-	2.271	-	-	-	-	Continuing	Continuing
• SSN C53101: MSE Missile	690.401	532.605	414.946	-	414.946	430.622	462.676	493.613	569.488	Continuing	Continuing
• PE 0205456, Proj EF9: Proj EF9, System Integration and Test	-	78.720	64.159	-	64.159	60.214	58.722	75.315	96.392	Continuing	Continuing

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C. Other Program Funding Summary (\$ in Millions)												
Line Item	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	
• SSN C50016: Lower Tier Air and Missile Defense (AMD)	-	110.300	115.075	-	115.075	130.366	113.676	123.582	151.421	Continuing	Continuing	
• PE 0604319A Proj DU3: Proj DU3, IFPC2 (FY 20011/2012 PE0603305A IFPC II-Intercept)	76.559	96.131	155.361	-	155.361	90.323	58.562	43.384	109.495	Continuing	Continuing	
• SSN C62001: IFPC Inc 2-I Block 1 Missile	-	-	-	-	-	-	73.552	123.106	186.480	Continuing	Continuing	
• SSN C62002: IFPC Inc 2-I Block 1 System	-	-	-	-	-	19.920	48.076	139.362	175.738	Continuing	Continuing	
• PE 0604820A, Proj E10: Proj E10, SENTINEL	1.796	5.221	12.309	-	12.309	11.465	10.971	12.191	30.277	Continuing	Continuing	
• PE 0605457A, Proj S40: Proj S40, Army Integrated Air and Missile Defense (AIAMD)	358.192	152.516	214.099	-	214.099	227.103	169.575	153.451	33.242	Continuing	Continuing	
• SSN BZ5075: Army IAMD Battle Command System (IBCS)	-	-	20.917	-	20.917	204.513	296.361	375.763	443.637	Continuing	Continuing	
• PE 0604741A, Proj 126, 146, 149: Air Defense C2I Eng Dev	38.412	15.898	24.569	-	24.569	27.131	20.524	20.018	18.082	Continuing	Continuing	
• SSN AD50700: AIR & MSL Defense Planning & Control Sys	13.090	27.374	28.176	-	28.176	32.443	32.690	33.032	13.366	Continuing	Continuing	
Remarks												
This is a supporting program of the Army Integrated Air and Missile Defense (IAMD) architecture.												
D. Acquisition Strategy												
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). The DAB elected to maintain oversight of JLENS as an Acquisition Category (ACAT) 1D program as stated in the Acquisition Decision Memorandum (ADM) signed on August 5, 2005.												
On 24 May 2012, the Acting Defense Acquisition Executive (DAE) signed the JLENS Nunn-McCurdy (NM) ADM certifying the restructured JLENS Program, and signed a memorandum rescinding the Milestone B approval for the JLENS program, originally granted on August 5, 2005. This ADM directed the Army to restructure the												

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JLENS program to consist of two Engineering and Manufacturing Development (EMD) Orbits; complete scheduled EMD tests and evaluation, to include the Naval Integrated Fire Control-Counter Air demonstration, Limited User Test, Developmental Test 2, and Developmental Test 3; to assist in site selection and planning for the employment of one JLENS Orbit to support an operational Continental United States based exercise. Letters were provided to Congress notifying them that the NM review was complete and the program was certified and restructured as detailed above. The Joint Requirements Oversight Council (JROC) reviewed the results of the Army's 60 Day Deep-Dive employment assessment of JLENS for Homeland Defense and concurred with the proposed JLENS employment to Aberdeen Proving Ground, MD for an operational exercise duration Fiscal Year 2014-2017. The JLENS Acquisition Program Baseline (APB) was reset by the Nunn-McCurdy Process in accordance with 10 U.S.C. § 2435(d). The proposed APB was signed by the Army Acquisition Executive (AAE) on 10 July 2013 and the Defense Acquisition Executive (DAE) on 8 August 2013. The new Acquisition Program Baseline (APB) reclassified the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) program as an Acquisition Category (ACAT) IC program and removed all Nunn-McCurdy unit cost breaches and reporting requirements. JLENS has been directed to support the Homeland Defense Operational Exercise in the National Capital Region from FY 2014 to FY 2017 and will be assessed during the exercise to support a follow on decision from Joint Requirements Oversight Council (JROC). The JLENS Product Office has a requirement for the acquisition of services through the JLENS Exercise Contract to support the deployment of JLENS Orbit deployed at Aberdeen Proving Grounds (APG), MD as directed by the Joint Requirements Oversight Council Memorandum (JROCM) 021-13 signed by the Vice Chairman of the Joint Chiefs of Staff on 31 January 2013. <u>E. Performance Metrics</u> N/A		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2016 Army												Date: February 2015			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0102419A / Aerostat Joint Project - EMD				Project (Number/Name) E55 / Joint Aero Stat Program -EMD Effort					
Management Services (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		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 Contract
Engineering and Manufacturing Development (EMD) Government Program Management	Various	PEO Missiles and Space : Various	25.154	5.590		-		-		-		-	-	30.744	-
Subtotal			25.154	5.590		-		-		-		-	-	30.744	-
Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		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 Contract
Technology Development (TD) Phase Contracts and Government	Various	Various : Multiple	301.083	-		-		-		-		-	-	301.083	-
Contractor Engineering and Manufacturing Development (EMD) Hardware/Software	SS/CPIF	Raytheon Systems Co. : Andover, MA	1,683.443	-		-		-		-		-	-	1,683.443	1,688.627
EMD Other Government Agency System Engineering/Logistics	Various	Multiple : Various	65.972	5.713		-		-		-		-	-	71.685	-
Lightweight X-Band Radar Antenna	Various	Multiple : Various	7.811	-		-		-		-		-	-	7.811	-
EMD System Engineering/ Logistics Contracts	Various	Multiple : Various	153.113	0.918		-		-		-		-	-	154.031	-
EMD Government Furnished Equipment (GFE) Various	Various	Multiple : Various	23.994	0.227		-		-		-		-	-	24.221	-
EMD GFE - Cooperative Engagement Transmission Processing Set (CETPS)	Various	Multiple : Various	45.844	0.025		-		-		-		-	-	45.869	-
EMD Organizational Support Equipment	Various	Multiple : Various	18.650	-		-		-		-		-	-	18.650	-

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Product Development (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		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 Contract
Software maintenance and upgrades and engineering support - Contracts and Government	Various	Multiple : Various	0.000	42.628		-		-		-		-	-	42.628	-
Subtotal			2,299.910	49.511		-		-		-		-	-	2,349.421	1,688.627
Support (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		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 Contract
TD Phase Miscellaneous Support	Various	Various : Multiple	2.084	-		-		-		-		-	-	2.084	-
Subtotal			2.084	-		-		-		-		-	-	2.084	-
Test and Evaluation (\$ in Millions)				FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		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 Contract
Technology Development (TD) Phase Test Bed Maintenance	SS/CPFF	Clark and Stender (CAS), Inc. : TX/NM	3.056	-		-		-		-		-	-	3.056	3.056
Engineering and Manufacturing Development (EMD) Contractor System Test and Evaluation	SS/CPIF	Raytheon Systems Co. : MA/CA/FL/TX	126.315	-		-		-		-		-	-	126.315	141.100
EMD Government System Test and Evaluation	Various	Multiple : Various	139.037	2.875		-		-		-		-	-	141.912	-
JLENS Exercise - Miscellaneous Expenses	TBD	Various : Multi Various	40.350	-		-		-		-		-	-	40.350	-
Subtotal			308.758	2.875		-		-		-		-	-	311.633	144.156

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	Prior Years	FY 2014		FY 2015		FY 2016 Base		FY 2016 OCO		FY 2016 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	2,635.906	57.976		-		-		-		-	-	2,693.882	1,832.783

Remarks

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

Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0102419A / Aerostat Joint Project - EMD	Project (Number/Name) E55 / Joint Aero Stat Program -EMD Effort
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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	4
Engineering & Manufacturing Development (EMD)	EMD																											
Engineering & Manufacturing Development Key Events	Key Events																											
(1) Orbit Verification and Validation (V&V) Start	1 V&V Start																											
(2) Orbit Verification and Validation (V&V) End	2 V&V End																											
(3) Utah Test & Training Range, UT (UTTR) Drawdown	3 UTTR Drawdown																											
Military Construction (MILCON) Planning	CON Planning																											
Planning	Planning																											
(4) Funds Available	4 Funds Available																											
(5) Military Construction Contract Award	5 MILCON Contract Award																											
Training	JLENS Training																											
New Equipment Training For Soldiers	NET																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2016 Army			Date: February 2015
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0102419A / <i>Aerostat Joint Project - EMD</i>	Project (Number/Name) E55 / <i>Joint Aero Stat Program -EMD Effort</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Engineering & Manufacturing Development (EMD)	1	2013	4	2014
Engineering & Manufacturing Development Key Events	1	2013	3	2014
Orbit Verification and Validation (V&V) Start	3	2014	3	2014
Orbit Verification and Validation (V&V) End	4	2014	4	2014
Utah Test & Training Range, UT (UTTR) Drawdown	4	2014	4	2014
Military Construction (MILCON) Planning	1	2013	2	2014
Planning	1	2013	2	2014
Funds Available	2	2014	2	2014
Military Construction Contract Award	3	2014	3	2014
Training	1	2013	4	2014
New Equipment Training For Soldiers	2	2014	4	2014