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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2015 Army **Date:** March 2014

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0102419A / <i>Aerostat Joint Project Office</i>
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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	-	142.508	83.406	54.076	-	54.076	50.167	39.590	2.566	0.003	-	372.316
E55: <i>Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS</i>	-	142.508	83.406	54.076	-	54.076	50.167	39.590	2.566	0.003	-	372.316

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

**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 enabling 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 them to engage hostile threats from extended ranges, and contributes to the development of a single integrated air picture.

JLENS Product Office (JPO) demonstrated the system's operational capability with the Weapon Systems Evaluation Program (WSEP) exercise using JLENS with an United States Air Force (USAF) operational aircraft and Norwegian Advanced Surface to Air Missile System (NASAMS) to track and neutralize targets in August 2013.

Guidance from the Senate Appropriations Committee - Defense (SAC-D) congressional marks language requires that the JLENS Research, Development, Test, and Evaluation (RDT&E) parent funding line be divided between two separate funding lines, Engineering and Manufacturing Development (EMD) and Combatant Command (COCOM) Exercise, which are summed under the parent funding line. The EMD line will be funded at \$60.000 million and the COCOM Exercise line will be funded at \$23.406 million for a total of \$83.406 million in Fiscal Year (FY) 2014. This guidance was not reflected in the FY 2015 President's Budget, and The Army Budget Office will not separate these funding lines in the P&R Form database until the FY 2016 President's Budget submission.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>
Previous President's Budget	190.422	98.450	46.600	-	46.600
Current President's Budget	142.508	83.406	54.076	-	54.076
Total Adjustments	-47.914	-15.044	7.476	-	7.476
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-30.500	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-4.455	-			
• Adjustments to Budget Years	-	-15.044	7.476	-	7.476
• Other Adjustments	-12.959	-	-	-	-

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2015 Army										<b>Date:</b> March 2014		
<b>Appropriation/Budget Activity</b> 2040 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0102419A / Aerostat Joint Project Office				<b>Project (Number/Name)</b> E55 / Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO #</b>	<b>FY 2015 Total</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
E55: Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS	-	142.508	83.406	54.076	-	54.076	50.167	39.590	2.566	0.003	-	372.316
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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**A. Mission Description and Budget Item Justification**

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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 them to engage hostile threats from extended ranges, and contributes to the development of a single integrated air picture.

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Guidance from the Senate Appropriations Committee - Defense (SAC-D) congressional marks language requires that the JLENS Research, Development, Test, and Evaluation (RDT&E) parent funding line be divided between two separate funding lines, Engineering and Manufacturing Development (EMD) and Combatant Command (COCOM) Exercise, which are summed under the parent funding line. The EMD line will be funded at \$60.000 million and the COCOM Exercise line will be funded at \$23.406 million for a total of \$83.406 million in Fiscal Year (FY) 2014. This guidance was not reflected in the FY 2015 President's Budget, and The Army Budget Office will not separate these funding lines in the P&R Form database until the FY 2016 President's Budget submission.

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

	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<b>Title:</b> Engineering and Manufacturing Development (EMD) phase contract activity	95.823	-	-
<b>Articles:</b>	-	-	-

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<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0102419A / Aerostat Joint Project Office	<b>Project (Number/Name)</b> E55 / Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<p><b>Description:</b> Continue EMD phase contract activities.</p> <p><b>FY 2013 Accomplishments:</b> Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) successfully completed Early User Test (EUT) 1 in Dec 2012 and EUT-2 in Jun 2013. Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) conducted a live exercise with an United States Air Force (USAF) operational aircraft for the Integrated Fire Control (IFC) event in July 2013. Participated in the Weapon Systems Evaluation Program (WSEP) and successfully acquired and passed target information to an USAF operational aircraft and Norwegian Advanced Surface to Air Missile System (NASAMS) in Aug 2013. Engineering activities continued with implementation of corrective actions to correct technical issues from EUT and conducted a verification audit of the JLENS to verify contractual requirements are being met.</p>			
<p><b>Title:</b> Government System Test and Evaluation (STE)</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> Government STE program in support of EMD.</p> <p><b>FY 2013 Accomplishments:</b> Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) successfully completed EUT 1 in Dec 2012 and EUT-2 in Jun 2013. Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) conducted a live exercise with an USAF operational aircraft for the IFC event in July 2013. Participated in the WSEP and successfully acquired and passed target information to an USAF Operational aircraft and NASAMS in Aug 2013. Engineering activities continued with implementation of corrective actions to correct technical issues from EUT and conducted a verification audit of the JLENS to verify contractual requirements are being met.</p> <p><b>FY 2014 Plans:</b> 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 Combatant Command (COCOM) Exercise, and shutdown of the testing facility at White Sands Missile Range, NM (WSMR). Perform technical assessments, studies, cost reduction, risk reduction, and complete required program documentation. All Government System Test and Evaluation costs will be accounted for under the EMD funding line.</p>	20.011 -	2.875 -	- -
<p><b>Title:</b> Engineering and Manufacturing Development (EMD) Phase Other Contractor/Other Government Agencies (OGAs) Support</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> Other contracts and OGAs support of Engineering and Manufacturing Development (EMD) phase activities. Perform technical assessments, concept studies, cost reduction, risk reduction and required documentation.</p>	19.585 -	7.643 -	- -

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<p><b><i>FY 2013 Accomplishments:</i></b>                      Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) successfully completed Early User Test (EUT) 1 in Dec 2012 and EUT-2 in Jun 2013. Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) conducted a live exercise with an United States Air Force (USAF) operational aircraft for the Integrated Fire Control (IFC) event in July 2013. Participated in the Weapon Systems Evaluation Program (WSEP) and successfully acquired and passed target information to an USAF operational aircraft and Norwegian Advanced Surface to Air Missile System (NASAMS) in Aug 2013. Continued to support EMD activities. Continued engineering support, soldier training, and live fire tests. Supported implementation of corrective actions, verification of contract requirements and initiation of contract closeout. Performed technical assessments, studies, cost reduction, risk reduction, and completed required program documentation.</p> <p><b><i>FY 2014 Plans:</i></b>                      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 Combatant Command (COCOM) Exercise, shutdown of facilities at White Sands Missile Range, NM (WSMR), and the emplacement and checkout of the orbit at Aberdeen Proving Grounds, MD (APG) in preparation for the COCOM Exercise in the National Capital Region (NCR) in FY15. Perform technical assessments, studies, cost reduction, risk reduction, and complete required program documentation. All EMD Phase Other Contractor/OGAs Support costs will be accounted for under the EMD funding line.</p>			
<p><b><i>Title:</i></b> Software Maintenance and Engineering Support</p> <p align="right"><b><i>Articles:</i></b></p> <p><b><i>Description:</i></b> Contract and Government support for software maintenance and upgrades and engineering support.</p> <p><b><i>FY 2014 Plans:</i></b>                      Contract and Government support for software maintenance, tech refresh/upgrades, reliability improvements, and engineering support after conclusion of the EMD contract and transition to COCOM Exercise. Perform technical assessments, studies, cost reduction, risk reduction, and complete required program documentation. All Software Maintenance and Engineering Support costs will be accounted for under the EMD funding line.</p>	-	43.640	-
	-	-	-
<p><b><i>Title:</i></b> Government Program Management (PM) Support</p> <p align="right"><b><i>Articles:</i></b></p> <p><b><i>Description:</i></b> Provide Government PM support of Engineering and Manufacturing Development (EMD) activities.</p> <p><b><i>FY 2013 Accomplishments:</i></b>                      Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) successfully completed Early User Test (EUT) 1 in Dec 2012 and EUT-2 in Jun 2013. JLENS conducted a live exercise with an United States Air Force (USAF) operational</p>	2.319	5.590	-
	-	-	-

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
<p>aircraft for the Integrated Fire Control (IFC) event in July 2013. Participated in the Weapon Systems Evaluation Program (WSEP) and successfully acquired and passed target information to an United States Air Force (USAF) operational aircraft and Norwegian Advanced Surface to Air Missile System (NASAMS) in Aug 2013. Continued Government PM support of EMD activities. Managed implementation of corrective actions, verification of contract requirements and initiation of contract closeout.</p> <p><b>FY 2014 Plans:</b> Provides PM oversight of the contract and government software maintenance, upgrades, and engineering support activities after conclusion of the EMD program and transition to Combatant Command (COCOM) 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 COCOM Exercise, shutdown of facilities at White Sands Missile Range, NM (WSMR), and the emplacement and checkout of the orbit at Aberdeen Proving Grounds, MD (APG) in preparation for COCOM Exercise in the National Capital Region (NCR) in FY15. Perform technical assessments, studies, cost reduction, risk reduction, and complete required program documentation. All Government PM Support costs will be accounted for under the EMD funding line.</p>			
<p><b>Title:</b> Government Furnished Equipment (GFE) Integration</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> The GFE will be provided to the Prime Contractor for hardware and system integration.</p> <p><b>FY 2013 Accomplishments:</b> The GFE will continue to be provided to the Prime Contractor for hardware and system integration.</p> <p><b>FY 2014 Plans:</b> 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 GFE Integration costs will be accounted for under the EMD funding line.</p>	4.770 -	0.252 -	- -
<p><b>Title:</b> Combatant Command (COCOM) Exercise</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> Planning and execution of the Secretary of Defense directed COCOM Exercise.</p> <p><b>FY 2014 Plans:</b> Provides for pre-site development activities at Aberdeen Proving Ground, MD (APG) (wetlands mitigation, unexploded ordnance removal, bunker refurbishment, etc), establishment of a Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) Forward presence (personnel, facilities, etc), packing and shipment of an Orbit from Utah Test and Training Range (UTTR) to APG, the installation, checkout, and testing of the Surveillance Radar (SuR) at APG prior to initiation of the Exercise extended test program in FY15, and government program management support of the Operational Assessment and COCOM</p>	- -	23.406 -	54.076 -

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
Exercise. Perform technical assessments, studies, cost reduction, risk reduction, and complete required program documentation. All COCOM Exercise costs will be accounted for under the COCOM Exercise funding line.			
<b>FY 2015 Plans:</b> Provides for the installation, checkout, and testing of the Fire Control Radar (FCR) at APG, new equipment training, execution of operations of the COCOM Exercise extended test program in support of North American Aerospace Defense Command (NORAD)/United States Northern Command (NORTHCOM), and government program management support of the COCOM Exercise. Perform technical assessments, studies, cost reduction, risk reduction, and complete required program documentation. All COCOM Exercise costs will be accounted for under the COCOM Exercise funding line.			
<b>Accomplishments/Planned Programs Subtotals</b>	142.508	83.406	54.076

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

<b>Line Item</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>	<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
• PE 0604869A, Proj M06: <i>Proj M06, Patriot/MEADS Combined Aggregate Program (CAP)</i>	348.234	-	-	-	-	-	-	-	-	-	348.234
• PE 0605456A, Proj PA3: <i>Proj PA3, PAC-3/MSE Missile</i>	63.123	68.807	35.009	-	35.009	2.271	-	-	-	Continuing	Continuing
• SSN C53101: <i>MSE Missile</i>	8.249	690.401	384.605	-	384.605	419.791	422.527	458.724	497.553	Continuing	Continuing
• PE 0205456, Proj EF9: <i>Proj EF9, System Integration and Test</i>	-	-	78.758	-	78.758	64.628	67.461	65.734	117.666	Continuing	Continuing
• SSN C50016: <i>Lower Tier Air and Missile Defense (AMD)</i>	-	-	110.300	-	110.300	116.416	131.549	114.678	113.281	Continuing	Continuing
• PE 0604319A Proj DU3: <i>Proj DU3, IFPC2 (FY 20011/2012 PE0603305A IFPC II-Intercept)</i>	25.710	79.190	96.177	-	96.177	156.523	90.980	58.214	27.663	Continuing	Continuing
• PE 0605457A, Proj S40: <i>Proj S40, Army Integrated Air and Missile Defense (AIAMD)</i>	233.892	369.452	142.584	-	142.584	215.659	228.791	170.828	154.565	Continuing	Continuing
• SSN ZBZ5075: <i>Army IAMD Battle Command System (IBCS)</i>	-	-	-	-	-	21.091	206.300	298.990	379.981	Continuing	Continuing
• PE 0604820A, Proj E10: <i>Proj E10, SENTINEL</i>	3.734	1.548	5.224	-	5.224	12.213	11.389	10.906	12.132	Continuing	Continuing

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

Line Item	FY 2013	FY 2014	FY 2015	FY 2015	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	Cost To	
			Base	OCO	Total					Complete	Total Cost
• PE 0604741A, Proj 126, 146, 149: Air Defense C2I Eng Dev	42.876	18.284	15.906	-	15.906	20.248	19.632	19.878	20.165	Continuing	Continuing

**Remarks**

This is a supporting program of the Army Integrated Air and Missile Defense (IAMD) architecture.

**D. Acquisition Strategy**

The Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (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 (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, granted on August 5, 2005. The ADM directs the Army to restructure the JLENS program to consist of two EMD orbits; complete scheduled EMD test and evaluation to include the Naval Integrated Fire Control-Counter Air demonstration, Limited User Test, Developmental Test 2, and Developmental Test 3 that concludes in 4th Quarter Fiscal Year 2013 (4QFY2013); and to assist in site selection and planning for the employment of one JLENS orbit to support an operational Continental United States based exercise when a location is determined and orders are approved by the National Command Authority. Letters were provided to Congress notifying them that the NM review was complete and 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. The JROC concurs 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 DAE on 8 August 2013. The new APB reclassifies JLENS as an ACAT IC program and removes all Nunn-McCurdy unit cost breaches and reporting requirements.

Guidance from the Senate Appropriations Committee - Defense (SAC-D) congressional marks language requires that the JLENS Research, Development, Test, and Evaluation (RDT&E) parent funding line be divided between two separate funding lines, Engineering and Manufacturing Development (EMD) and Combatant Command (COCOM) Exercise, which are summed under the parent funding line. The EMD line will be funded at \$60.000 million and the COCOM Exercise line will be funded at

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**E. Performance Metrics**

N/A

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army** **Date:** March 2014

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<b>Management Services (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Engineering and Manufacturing Development (EMD) Government Program Management	Various	PEO Missiles and Space : Various	22.835	2.319	Dec 2012	5.590		-		-		-	-	30.744	-
<b>Subtotal</b>			22.835	2.319		5.590		-		-		-	-	30.744	-

<b>Product Development (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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	1,608.816	74.627	Dec 2012	-		-		-		-	-	1,683.443	1,688.627
EMD Other Government Agency System Engineering/Logistics	Various	Multiple : Various	48.700	17.272	Dec 2012	6.725		-		-		-	-	72.697	-
Lightweight X-Band Radar Antenna	Various	Various : Various	7.811	-		-		-		-		-	-	7.811	-
EMD System Engineering/Logistics Contracts	Various	Multiple : Various	150.800	2.313	Dec 2012	0.918		-		-		-	-	154.031	-
EMD Government Furnished Equipment (GFE) Various	Various	Multiple : Various	23.446	0.548	Dec 2012	0.227		-		-		-	-	24.221	-
EMD GFE - Cooperative Engagement Transmission Processing Set (CETPS)	Various	Multiple : Various	41.622	4.222		0.025		-		-		-	-	45.869	-
EMD Organizational Support Equipment	Various	Multiple : Various	18.650	-		-		-		-		-	-	18.650	-

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2015 Army** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0102419A / Aerostat Joint Project Office	<b>Project (Number/Name)</b> E55 / Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS
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<b>Product Development (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Software maintenance and upgrades and engineering support - Contracts and Government	Various	Multiple : Various	0.000	-		43.640		-		-		-	-	43.640	-
<b>Subtotal</b>			2,200.928	98.982		51.535		-		-		-	-	2,351.445	1,688.627

<b>Support (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
TD Phase Miscellaneous Support	Various	Various : Multiple	2.084	-		-		-		-		-	-	2.084	-
<b>Subtotal</b>			2.084	-		-		-		-		-	-	2.084	-

<b>Test and Evaluation (\$ in Millions)</b>				FY 2013		FY 2014		FY 2015 Base		FY 2015 OCO		FY 2015 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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/CPFF	Raytheon Systems Co. : MA/CA/FL/TX	105.119	21.196		-		-		-		-	-	126.315	141.100
EMD Government System Test and Evaluation	Various	Multiple : Various	119.026	20.011	Dec 2012	2.875		-		-		-	-	141.912	-
Combatant Command (COCOM) Exercise-Operations & Maintenance Contract	Various	Multiple : Various	0.000	-		14.392	Aug 2014	33.303		-		33.303	60.120	107.815	-



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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2015 Army		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0102419A / Aerostat Joint Project Office	<b>Project (Number/Name)</b> E55 / Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS

	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
Engineering & Manufacturing Development (EMD)	████████████████																											
Testing					████████████████																							
Early User Test II																	████											
Fighter Integrated Fire Control (IFC)					████████																							
Weapon Systems Evaluation Program (WSEP)					████																							
Engineering & Manufacturing Development (EMD) Key Events	████████████████																											
Acquisition Decision Memorandum (ADM)/ Acquisition Program Baseline (APB)					████																							
Defense Acquisition Executive (DAE) Exercise Update					████																							
White Sands Missile Range, NM (WSMR) Closure					████																							
Functional Configuration Audit (FCA)					████																							
Orbit Verification and Validation (V&V) Start									████																			
Orbit Verification and Validation (V&V) End													████															
Utah Test & Training Range, UT (UTTR) Drawdown									████																			
Combatant Command (COCOM) Exercise	████████████████				████████████████				████████████████				████████████████				████████████████				████████████████							
Joint Requirements Oversight Council Memorandum (JROCOM)	████																											
Military Construction (MILCON) Planning	████████████████				████████████████																							
Planning	████████████████				████████████████																							
Funds Available					████																							
Military Construction Contract Award					████																							

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**Exhibit R-4, RDT&E Schedule Profile: PB 2015 Army** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0102419A / Aerostat Joint Project Office	<b>Project (Number/Name)</b> E55 / Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS
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	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
Site Design, Construction, and System Checkout	██████████																											
Site 1 (Surveillance Radar (SuR))					██████████																							
Site 2 (Fire Control Radar (FCR))					██████████																							
Operations					██																							
Surveillance System (SuS) Initial Capability Delivery (ICD)					████																							
Fire Control System (FCS) Initial Capability Delivery (ICD)									████																			
Orbit Initial Capability Delivery (ICD)									████																			
Combatant Command (COCOM) Assessment									████████████████																			
Enduring Operations Decision Point													████															
Operational Exercise													██															
Training	██																											
Initial Training	██████████																											
New Equipment Training I					██████████																							
Crew Certification									████																			
New Equipment Training II									██████████																			
New Equipment Training III													████															

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2015 Army		<b>Date:</b> March 2014
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0102419A / Aerostat Joint Project Office	<b>Project (Number/Name)</b> E55 I Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Engineering & Manufacturing Development (EMD)	1	2013	3	2014
Testing	3	2013	4	2014
Early User Test II	3	2013	3	2013
Fighter Integrated Fire Control (IFC)	3	2013	4	2013
Weapon Systems Evaluation Program (WSEP)	4	2013	4	2013
Engineering & Manufacturing Development (EMD) Key Events	1	2013	3	2014
Acquisition Decision Memorandum (ADM)/Acquisition Program Baseline (APB)	4	2013	4	2013
Defense Acquisition Executive (DAE) Exercise Update	4	2013	4	2013
White Sands Missile Range, NM (WSMR) Closure	1	2014	1	2014
Functional Configuration Audit (FCA)	1	2014	1	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
Combatant Command (COCOM) Exercise	4	2012	1	2018
Joint Requirements Oversight Council Memorandum (JROCOM)	2	2013	2	2013
Military Construction (MILCON) Planning	1	2013	2	2014
Planning	1	2013	2	2014
Funds Available	2	2014	2	2014
Military Construction Contract Award	2	2014	2	2014
Site Design, Construction, and System Checkout	1	2013	1	2014
Site 1 (Surveillance Radar (SuR))	2	2014	4	2014
Site 2 (Fire Control Radar (FCR))	3	2014	1	2015

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**Exhibit R-4A, RDT&E Schedule Details: PB 2015 Army** **Date:** March 2014

<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0102419A / Aerostat Joint Project Office	<b>Project (Number/Name)</b> E55 / Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS
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Events	Start		End	
	Quarter	Year	Quarter	Year
Operations	3	2014	1	2018
Surveillance System (SuS) Initial Capability Delivery (ICD)	4	2014	4	2014
Fire Control System (FCS) Initial Capability Delivery (ICD)	1	2015	1	2015
Orbit Initial Capability Delivery (ICD)	1	2015	1	2015
Combatant Command (COCOM) Assessment	1	2015	4	2015
Enduring Operations Decision Point	4	2015	4	2015
Operational Exercise	1	2016	1	2018
Training	1	2013	4	2015
Initial Training	1	2013	4	2013
New Equipment Training I	2	2014	3	2014
Crew Certification	4	2014	4	2014
New Equipment Training II	1	2015	2	2015
New Equipment Training III	1	2016	1	2016