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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Army									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development				R-1 ITEM NOMENCLATURE PE 0102419A: Aerostat Joint Project Office							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	344.850	328.356	372.493	0.000	372.493	176.198	118.448	0.000	0.000	Continuing	Continuing
E55: Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS	344.850	328.356	372.493	0.000	372.493	176.198	118.448	0.000	0.000	Continuing	Continuing
A. Mission Description and Budget Item Justification U) The mission of the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) is to provide elevated, persistent, Over-The-Horizon (OTH) surveillance and fire control quality data on Army and Joint networks enabling protection of the United States, Allied and Coalition forces, as well as critical geo-political assets from Cruise Missiles, Aircraft, Unmanned Aerial Vehicles (UAVs), Tactical Ballistic Missiles (TBMs), Large Caliber Rockets (LCRs), and Surface Moving Targets (SMTs). JLENS is a critical part of the Army's future Integrated Air and Missile Defense (IAMD) architecture and is a Joint Service interest program. 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 equipment. JLENS uses advanced sensor and networking technologies to provide 360-degree, wide-area surveillance and precision tracking of land-attack cruise missiles. This JLENS information is distributed via joint service networks and contributes to the development of a single integrated air picture. JLENS has the capability of detecting and tracking surface moving targets, detecting Tactical Ballistic Missiles at boost phase and Large Caliber Rockets during the ascent phase. JLENS also performs as a multi-role platform to enable extended range command and control linkages, communications relay, and battlefield situational awareness.											

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 7: Operational Systems Development		R-1 ITEM NOMENCLATURE PE 0102419A: Aerostat Joint Project Office			
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	355.257	360.076	372.153	0.000	372.153
Current President's Budget	344.850	328.356	372.493	0.000	372.493
Total Adjustments	-10.407	-31.720	0.340	0.000	0.340
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	-0.524	0.000			
• SBIR/STTR Transfer	-9.883	0.000			
• Adjustments to Budget Years	0.000	0.000	0.340	0.000	0.340
• Congressional General Reductions	0.000	-1.720	0.000	0.000	0.000
• Congressional Directed Reductions	0.000	-30.000	0.000	0.000	0.000
Change Summary Explanation					
Adjustments to FY 2010: FY 2010 funds realigned -\$30,000 (dollars thousands) to higher priority requirements.					

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Army								DATE: February 2010			
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>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
E55: <i>Jnt Land Atk Msl Def Elevated Netted Sensor-JLENS</i>	344.850	328.356	372.493	0.000	372.493	176.198	118.448	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles											
A. Mission Description and Budget Item Justification (U) The mission of the Joint Land Attack Cruise Missile Defense Elevated Netted Sensor System (JLENS) is to provide elevated, persistent, Over-The-Horizon (OTH) surveillance and fire control quality data on Army and Joint networks enabling protection of the United States, Allied and Coalition forces, as well as critical geo-political assets from Cruise Missiles, Aircraft, Unmanned Aerial Vehicles (UAVs), Tactical Ballistic Missiles (TBMs), Large Caliber Rockets (LCRs), and Surface Moving Targets (SMTs). JLENS is a critical part of the Army's future Integrated Air and Missile Defense (IAMD) architecture and is a Joint Service interest program. 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 equipment. JLENS uses advanced sensor and networking technologies to provide 360-degree, wide-area surveillance and precision tracking of land-attack cruise missiles. This JLENS information is distributed via joint service networks and contributes to the development of a single integrated air picture. JLENS has the capability of detecting and tracking surface moving targets, detecting Tactical Ballistic Missiles at boost phase and Large Caliber Rockets during the ascent phase. JLENS also performs as a multi-role platform to enable extended range command and control linkages, communications relay, and battlefield situational awareness.											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Program #1						294.771	261.689	237.258	0.000	237.258	
Continue System Development and Demonstration (SDD) phase contract activity.											
<i>FY 2009 Accomplishments:</i>											
FY 2009											
<i>FY 2010 Plans:</i>											
FY 2010											

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B. Accomplishments/Planned Program (\$ in Millions)								
				FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #2 Government System Test and Evaluation				11.846	17.491	52.700	0.000	52.700
FY 2009 Accomplishments: FY 2009								
FY 2010 Plans: FY 2010								
FY 2011 Base Plans: FY 2011 Base								
FY 2011 OCO Plans: FY 2011 OCO								
Program #3 Other contracts and Other Government Agencies (OGAs).				24.600	30.986	40.073	0.000	40.073
FY 2009 Accomplishments: FY 2009								

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B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #4 Government Project Management	3.818	3.310	2.272	0.000	2.272
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #5 Government Furnished Equipment(GFE)	9.815	5.694	40.190	0.000	40.190

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B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Program #6 Small Business Innovative Research/Small Business Technology Transfer Programs (SBIR/STTR)	0.000	9.186	0.000	0.000	0.000
FY 2009 Accomplishments: FY 2009					
FY 2010 Plans: FY 2010					
FY 2011 Base Plans: FY 2011 Base					
FY 2011 OCO Plans: FY 2011 OCO					
Accomplishments/Planned Programs Subtotals	344.850	328.356	372.493	0.000	372.493

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• Ord. #1: PE 0604869A, Proj M06, Patriot/MEADS Combined Aggregate Program (CAP)	454.565	566.215	467.139	0.000	467.139	408.012	325.184	240.018	75.585	Continuing	Continuing
• Ord. #2: SSN C53101, MSE Missile	0.000	0.000	0.000	0.000	0.000	607.796	534.022	516.479	503.786	Continuing	Continuing
• Ord. #3: SSN C53201, Patriot/MEADS GSE	0.000	0.000	0.000	0.000	0.000	0.000	126.589	217.639	528.435	Continuing	Continuing
• Ord. #4: SSN BZ0525, JLENS Production	0.000	0.000	0.000	0.000	0.000	470.661	419.801	427.731	394.325	Continuing	Continuing
• Ord. #5: PE 0604802A, Proj S23, SLAMRAAM	31.306	56.441	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• Ord. #6: PE 0605450A, Proj S35 SLAMRAAM	0.000	0.000	23.700	0.000	23.700	17.800	53.500	7.500	7.600	Continuing	Continuing
• Ord. #7: SSN C81002, SLAMRAAM Launcher	40.349	0.000	116.732	0.000	116.732	83.302	233.762	241.691	248.895	Continuing	Continuing
• Ord. #8: SSN C81004, SLAMRAAM Missile	0.000	0.000	0.000	0.000	0.000	0.000	39.542	39.426	15.416	Continuing	Continuing
• Ord. #9: SSN WK5053, FAAD GBS	0.000	0.000	91.467	169.260	260.727	7.948	7.935	0.000	0.000	Continuing	Continuing
• Ord. #10: PE 0603327A, Proj S34, AMD System of System Engineering and Integration	111.496	166.061	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
• Ord. #11: PE 0605457A, Proj S40, Army Integrated Air and Missile Defense (AIAMD)	0.000	0.000	251.124	0.000	251.124	271.543	251.646	228.639	129.043	Continuing	Continuing
• Ord. #12: SSN BZ5075, Army IAMD Battle Command System (IBCS)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	24.045	99.102	Continuing	Continuing
• Ord. #13: PE 0605456A, Project PA3, PAC-3/MSE Missile	0.000	0.000	62.500	0.000	62.500	62.100	3.500	62.000	64.500	Continuing	Continuing
	1.949	36.005	12.403	0.000	12.403	12.630	13.038	7.982	7.947	Continuing	Continuing

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C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• Ord. #14: PE 0208053, Proj 635, JOINT TACT GRD STATION-P3I (MIP)											
• Ord. #15: BZ8401, Joint Tactical Ground Station (JTAGS)	0.000	6.682	9.279	0.000	9.279	0.000	0.000	9.415	4.658	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 System Development and Demonstration (SDD) as recommended by the Army Acquisition Executive. The DAB elected to maintain oversight of JLENS as an ACAT 1D program as stated in the Acquisition Decision Memorandum signed on 5 Aug 05.As part of the overall strategy for the Army Integrated Air and Missile Defense (IAMD) capability, The Department of Army, in POM10-15, stretched the SDD program for other higher Army priorities independent of JLENS program performance. The Department of the Army resourced the schedule extension in POM10-15 with additional RDTE funds. Low Rate Initial Production, previously to begin in FY2011 will be delayed until FY2012. The Department of Army decided to re-allocate JLENS FY11 LRIP funding and stretch the SDD program for "other higher Army priorities". There were no JLENS program issues that necessitated the Department of Army decision. The JLENS program was and is meeting cost, schedule and performance goals.											
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 2011 Army										DATE: February 2010			
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Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	SS	Raytheon Systems Co. (MA/CA/FL/ TX) Location could not be determined.	301.083	0.000		0.000		0.000		0.000	Continuing	Continuing	301.083
Lightweight X-band Radar Antenna	C	Multiple Location could not be determined.	7.811	0.000		0.000		0.000		0.000	Continuing	Continuing	0
Contractor System Development and Demonstration (SDD) Hardware/Software	SS/CPIF	Raytheon Systems Co. (MA/CA/FL/ TX) Location could not be determined.	671.431	253.619		201.802		0.000		201.802	Continuing	Continuing	1,414.652
SDD OGA System Engineering	C	Multiple Location could not be determined.	11.612	5.402		5.242		0.000		5.242	Continuing	Continuing	0
SDD System Engineering Contracts	C	Multiple Location could not be determined.	43.943	24.074		33.261		0.000		33.261	Continuing	Continuing	0
SDD GFE Various	C	Multiple Location could not be determined.	18.091	1.464		0.000		0.000		0.000	Continuing	Continuing	0
SDD GFE - Cooperative Engagement Transmission Processing Set (CETPS)	C	Multiple Location could not be determined.	15.389	4.230		5.190		0.000		5.190	Continuing	Continuing	0
SDD Govt Integrated Logistics Support	C	Multiple	2.500	1.510		1.570		0.000		1.570	Continuing	Continuing	0

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Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
		Location could not be determined.											
SDD Organizational Support Equipment	C	Multiple Location could not be determined.	0.000	0.000		35.000		0.000		35.000	Continuing	Continuing	0
Subtotal			1,071.860	290.299		282.065		0.000		282.065			1,715.735
Remarks													
Support (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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 Misc Support	C	Multiple Location could not be determined.	2.084	0.000		0.000		0.000		0.000	0	2.084	0
Subtotal			2.084	0.000		0.000		0.000		0.000	0.000	2.084	0.000
Remarks													

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Test and Evaluation (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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 Maintain Test Bed	SS	CAS-TX NM	3.056	0.000		0.000		0.000		0.000	Continuing	Continuing	0	
SDD Contractor System Test and Evaluation	SS/CPIF	Raytheon Systems Co. (MA/CA/FL/ TX) Location could not be determined.	7.625	8.070		35.456		0.000		35.456	Continuing	Continuing	0	
SDD Government System Test and Evaluation	C	Multiple Location could not be determined.	20.389	17.491		52.700		0.000		52.700	Continuing	Continuing	0	
Subtotal			31.070	25.561		88.156		0.000		88.156			0.000	
Remarks														
Management Services (\$ in Millions)														
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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	
SDD Government Program Management	C	PEO Missiles and Space HSV, AL	9.543	3.310		2.272		0.000		2.272	Continuing	Continuing	0	
SBIR/STTR	C	Nothing entered for Activity and Location.	0.000	9.186		0.000		0.000		0.000	Continuing	Continuing	0	

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Management Services (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 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
		Location could not be determined.											
Subtotal			9.543	12.496		2.272		0.000		2.272			0.000
Remarks													
			Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			1,114.557	328.356		372.493		0.000		372.493			1,715.735
Remarks													

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Army			DATE: February 2010		
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	FY 2009				FY 2010				FY 2011				FY 2012				FY 2013				FY 2014				FY 2015			
	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									#																			
Milestone (MS) C													#															
Orbit 2 Delivery to Test									#																			
First Unit Equipped (FUE)																#												
Subsystem/System (Ss/Sys) Level Integration							#	#	#	#																		
Developmental Testing (DT)									#	#	#	#	#	#	#	#	#	#	#									
Force Development Experiment (FDE)- Operational Testing (OT)											#																	
Limited User Test (LUT) - OT												#																
Force Development Test (FDT)- OT																#												
Initial Operational Test (IOT)																#	#											

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Army			DATE: February 2010
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Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Orbit 1 Delivery to Test	1	2011	1	2011
Milestone (MS) C	1	2012	1	2012
Orbit 2 Delivery to Test	2	2011	2	2011
First Unit Equipped (FUE)	1	2013	1	2013
Subsystem/System (Ss/Sys) Level Integration	3	2010	2	2011
Developmental Testing (DT)	1	2011	3	2013
Force Development Experiment (FDE)- Operational Testing (OT)	3	2011	3	2011
Limited User Test (LUT) - OT	4	2011	4	2011
Force Development Test (FDT)- OT	1	2013	1	2013
Initial Operational Test (IOT)	1	2013	2	2013

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