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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY					R-1 ITEM NOMENCLATURE							
2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					PE 0603774A: Night Vision Systems Advanced Development							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	0.000	10.715	9.066	-	9.066	6.208	5.260	5.193	5.000	Continuing	Continuing
131: NIGHT VISION SYS A/DEV	-	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
VT7: Soldier Maneuver Sensors - Adv Dev	-	0.000	10.715	9.066	-	9.066	6.208	5.260	5.193	5.000	Continuing	Continuing
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
Note												
Change Summary Explanation:												
A. Mission Description and Budget Item Justification												
This program element focuses on efforts to evaluate and integrate technologies and representative prototype systems that facilitate the development of Soldier-borne sensor devices transitioning from the laboratory to operational use. Efforts focus on proving out commonality across as broad a spectrum of users as possible to provide enhanced Soldier products, giving them superiority on the battlefield.												
Project VT7 (Soldier Maneuver Sensors-Advanced Development) Efforts focus on proving out commonality across as broader spectrum of users as possible to provide enhanced Soldier products, giving them superiority on the battlefield. Near term efforts include the integration of goggles with the weapon sights for Rapid Target Acquisition (RTA) in a realistic operating environment, thereby increasing Soldier lethality. This project also develops a Family of Weapon Sights (FWS) with fused electro-optical performance, including focal plane arrays and high resolution micro-displays. FWS enabling technologies increase product resolution, range, and imaging performance. New technologies will improve Soldier lethality, survivability, reduce weight, and improve affordability, mobility and comfort to combat and training environments. In addition this project will explore insertion of technology that improves the Soldier's ability to detect Improvised Explosive Devices (IED) Detection.												

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Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Army				DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
2040: Research, Development, Test & Evaluation, Army		PE 0603774A: Night Vision Systems Advanced Development			
BA 4: Advanced Component Development & Prototypes (ACD&P)					
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total
Previous President's Budget	0.000	10.715	9.066	-	9.066
Current President's Budget	0.000	10.715	9.066	-	9.066
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603774A: Night Vision Systems Advanced Development				PROJECT 131: NIGHT VISION SYS A/DEV			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
131: NIGHT VISION SYS A/DEV	-	0.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
This project supports the Army's transformation by developing payloads for brigade combat team, division, and corps Unmanned Aircraft Systems(UAS) and unmanned systems in accordance with Headquarters Department of the Army (HQDA) and Training and Doctrine Command (TRADOC) priorities.												
CSP Target Location Accuracy (TLA) is the final upgrade to CSP which will provide all of the CSP HD functionality but with significantly improved targeting accuracy. CSP TLA provides the Battlefield Commander a vastly improved TLA allowing timely use of Joint Direct Attack Munitions (JDAMs) and Coordinate Seeking Weapons (CSWs) across the battlespace. CSP TLA is being procured as an upgraded capability for the Gray Eagle UAS program and can be integrated onto other manned and unmanned aerial platforms. The funds associated with this funding line are for the technology maturity of the TLA Laser. Once this laser technology has been matured to the appropriate Technology Readiness Level (TRL), it will be cut into the TLA development effort and eventual production to replace the CSP HD payloads on the Gray Eagle platform.												
This program has no FY 2013 Base or OCO requirement.												
B. Accomplishments/Planned Programs (\$ in Millions)												
N/A												
C. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost	
• 0305204A - D11A: 0305204A - Tactical Unmanned Aerial Vehicle (11A)	15.910	6.247	7.180		7.180	7.386	11.994	3.094		0.000	51.811	
• A00020: MQ-1 Payload - UAS - A00020	146.983	231.508	249.486		249.486	258.027	10.146	10.162		0.000	906.312	
Remarks												
0305204A - Tactical Unmanned Aerial Vehicle (11A) - Shared RDT&E development funding line between CSP, HD, TLA, STARLite, TSP and Advanced Payloads. TSP funding is being migrated to 0305204A 11B funding line as of FY 2012.												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013	
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>					R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems</i> <i>Advanced Development</i>			PROJECT 131: <i>NIGHT VISION SYS A/DEV</i>			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
MQ-1 Payload - UAS - A00020 - Shared APA procurement funding line between CSP, HD, TLA, STARLite, TSP and Advanced Payloads.											
D. Acquisition Strategy The approved acquisition strategy was to award a Sole Source Task Order on the Navy Basic Order Agreement (BOA) to Raytheon to mature the Diode Pump laser technology to an appropriate Technology Readiness Level (TRL). Once sufficiently matured, the components/technology will be incorporated into test systems and transitioned into the Block upgrade program to undergo further system and qualification testing as part of RDTE efforts conducted in the TLA Block upgrade under Advanced Payloads (PE 0305204A Project D11A).											
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 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>							R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems</i> <i>Advanced Development</i>					PROJECT 131: <i>NIGHT VISION SYS A/DEV</i>			

Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All 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 Maturity of the TLA Laser	MIPR	NSWC Crane:Crane, IN	12.975	-		-		-		-		-	0.000	12.975	12.975
Subtotal			12.975	0.000		0.000		0.000		0.000		0.000	0.000	12.975	12.975

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	12.975	0.000	0.000	0.000	0.000	0.000	0.000	12.975	12.975

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army																DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY								R-1 ITEM NOMENCLATURE								PROJECT			
2040: Research, Development, Test & Evaluation, Army								PE 0603774A: Night Vision Systems								131: NIGHT VISION SYS A/DEV			
BA 4: Advanced Component Development & Prototypes (ACD&P)								Advanced Development											

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems</i> <i>Advanced Development</i>	PROJECT 131: <i>NIGHT VISION SYS A/DEV</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
HD/IR and Laser Technology Maturity	3	2012	4	2012

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)					R-1 ITEM NOMENCLATURE PE 0603774A: Night Vision Systems Advanced Development				PROJECT VT7: Soldier Maneuver Sensors - Adv Dev			
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
VT7: Soldier Maneuver Sensors - Adv Dev	-	0.000	10.715	9.066	-	9.066	6.208	5.260	5.193	5.000	Continuing	Continuing
Quantity of RDT&E Articles												
# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
## The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
This project supports efforts to evaluate and integrate technologies and representative prototype systems for the development of Soldier-borne sensor devices, transitioning from the laboratory to operational use. Efforts focus on proving out commonality across as broad a spectrum of users as possible to provide enhanced products that give Soldiers superiority on the battlefield. Near term efforts include the integration of Helmet Mounted Displays (HMDs) with weapon sights for a Rapid Target Acquisition (RTA) capability in a realistic environment, increasing Soldier situational awareness and lethality and integrates technology, which detects enemy snipers using precise target information to mitigate operational risk before sniper fire occurs. This project also integrates high resolution thermal focal plane arrays, integrated ballistic solutions for auto-adjusting reticles, and wireless technology with weapon sights, increasing range, performance, and capability, while decreasing system size and weight. These integration efforts improve Soldier situational awareness, lethality, survivability, mobility, and comfort to combat and training environments. Funds in this program are a realignment of funds from program Night Vision Systems Engineering Development , Program Element 0604710A; Project L67 for more efficient program management.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)										FY 2012	FY 2013	FY 2014
Title: Family of Weapons Sights (FWS)										0.000	8.840	9.066
										Articles:		
Description: FWS is a family of weapon sights that utilize advances in thermal and image intensified technologies to produce Individual (I), Crew-Served (CS), and Sniper (S) weapon sights operable in-line with a day optic or in stand-alone mode. FWS-CS includes fused multi-band imagery and rapid target acquisition with ballistic equations, providing the Soldier with improved situational awareness and more rapid target detection and engagement during day and night operations. This program integrates smaller pixel (12 micron) uncooled long-wave infrared focal plane arrays in multiple large format sizes to improve sensitivity, clarity, and range, while simultaneously reducing the size, weight and power consumption of the Crew-Served and Sniper variants.												
FY 2013 Plans:												

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Exhibit R-2A, RDT&E Project Justification: PB 2014 Army									DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603774A: Night Vision Systems Advanced Development				PROJECT VT7: Soldier Maneuver Sensors - Adv Dev			
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)									FY 2012	FY 2013	FY 2014
Demonstrate technology for the FWS-I at an Early User Assessment and develop FWS-CS technology including the build and testing of prototypes and evaluation of 12 micron Focal Plane Arrays (FPA). FY 2014 Plans: Will continue development of FWS-CS including integration of 12 micron thermal focal plane arrays, integrated ballistic solutions for auto-adjusting reticles, wireless technology, and HMDs demonstration of these technologies at an Early User Assessment.											
Title: Improvised Explosive Devices (IED) Detection Articles: Description: In response to JUONS 0269 for the LineFinder (counter-IED), this program funds the development of technological improvements to Soldier-borne sensors that automatically detect and alert to IED related signatures. In addition it funds improvements in the Size, Weight, and Power (SWaP) of head-borne Soldier sensors including the Enhanced Night Vision Goggle (ENVG). FY 2013 Plans: Initiate the integration of detection technologies to enable an Improvised Explosive Devices (IED) Detection system that can locate buried command wires and disturbed ground.									0.000	1.079 0	0.000
Title: Handheld Optical Augmentation (HOA) Sniper Detection Articles: Description: This Sniper Detection System is designed to detect and locate optical scopes used by snipers or optronic sight systems on the battlefield or urban zones. FY 2013 Plans: Initiate the development of a man portable sniper detection/laser warning system.									0.000	0.796 0	0.000
Accomplishments/Planned Programs Subtotals									0.000	10.715	9.066
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
• DL67: DL67 Night Vision Systems -Eng Dev (PE 604710 L67)	23.946		11.271		11.271	16.987	13.880	12.773	19.729	Continuing	Continuing
• Helmet Mounted Enhanced Vision Devi: Helmet Mounted	119.078	125.917	167.379		167.379	174.861	183.695	121.581	64.238	Continuing	Continuing

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APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)				R-1 ITEM NOMENCLATURE PE 0603774A: Night Vision Systems Advanced Development				PROJECT VT7: Soldier Maneuver Sensors - Adv Dev			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u> <u>Base</u>	<u>FY 2014</u> <u>OCO</u>	<u>FY 2014</u> <u>Total</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
Enhanced Vision Devices (HMEVD) (SSN K36400)											
• Thermal Weapon Sight (TWS): Thermal Weapon Sight (TWS) K22900	176.972	82.162	14.074		14.074	95.920	141.121	143.565	154.000	Continuing	Continuing
• Sniper Night Sight (SNS): Sniper Night Sight (SSN K41500)	0.661	11.660						11.240	19.838	Continuing	Continuing
• Multi Function Laser: Multi Function Laser (MFAL K35000)						15.015	16.049	19.000	19.000	Continuing	Continuing
Remarks											
D. Acquisition Strategy											
The various developmental programs in this project continue to exercise competitively awarded contracts using best value source selection procedures.											
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 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: Research, Development, Test & Evaluation, Army BA 4: Advanced Component Development & Prototypes (ACD&P)						R-1 ITEM NOMENCLATURE PE 0603774A: Night Vision Systems Advanced Development						PROJECT VT7: Soldier Maneuver Sensors - Adv Dev			
Management Services (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
FWS Program Management	Various	Various:Various	0.000	-		-		1.681	Dec 2013	-		1.681	0.000	1.681	0.000
Subtotal			0.000	0.000		0.000		1.681		0.000		1.681	0.000	1.681	0.000
Product Development (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Family of Weapon Sights (FWS)	Various	ACC:ABERDEEN, MD	0.000	-		8.185	Nov 2012	-		-		-	Continuing	Continuing	0.000
Improvised Explosive Devices (IED) Detection	MIPR	ACC:ABERDEEN, MD	0.000	-		0.938	Feb 2013	-		-		-	0.000	0.938	0.000
FWS-Crew Served-Sniper	Various	ACC:ABERDEEN, MD	0.000	-		-		4.707	Jan 2014	-		4.707	0.000	4.707	0.000
Handheld Optical Augmentation (HOA) Sniper Detect	Various	TBD:TBD	0.000	-		0.740	Feb 2013	-		-		-	Continuing	Continuing	0.000
Subtotal			0.000	0.000		9.863		4.707		0.000		4.707			0.000
Support (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Improvised Explosive Devices (IED) Detection	Various	NVESD:FT BELVOIR, VA	0.000	-		0.147	Feb 2013	-		-		-	0.000	0.147	0.000
Handheld Optical Augmentation (HOA) Sniper Detect	Various	NVESD:FT BELVOIR, VA	0.000	-		0.050	Feb 2013	-		-		-	0.000	0.050	0.000
Family of Weapon Sights (FWS)	MIPR	NVESD:FT BELVOIR, VA	0.000	-		0.405	Mar 2013	2.492	Dec 2013	-		2.492	0.000	2.897	0.000
Subtotal			0.000	0.000		0.602		2.492		0.000		2.492	0.000	3.094	0.000

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Army												DATE: April 2013			
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>							R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems</i> <i>Advanced Development</i>					PROJECT VT7: <i>Soldier Maneuver Sensors - Adv Dev</i>			

Test and Evaluation (\$ in Millions)				FY 2012		FY 2013		FY 2014 Base		FY 2014 OCO		FY 2014 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	All Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
FWS Individual Early User Assessment (EUA)	Various	TBD:TBD	0.000	-		0.250	Jan 2013	-		-		-	0.000	0.250	0.000
FWS Crew Served Early User Assessment (EUA)	Various	TBD:WSMR, NM	0.000	-		-		0.186	Feb 2014	-		0.186	0.000	0.186	0.000
Subtotal			0.000	0.000		0.250		0.186		0.000		0.186	0.000	0.436	0.000

	All Prior Years	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000	10.715	9.066	0.000	9.066			0.000

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2014 Army			DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>		R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems</i> <i>Advanced Development</i>		PROJECT VT7: <i>Soldier Maneuver Sensors - Adv Dev</i>	

	FY 2012				FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018			
	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
FWS-I MS B																												
FWS-CS Technology Development																												
FWS-CS MS B																												
FWS-Sniper (S) Technology Development																												
FWS-I Increment II Technology Development																												
IED Detection Development (IDD)																												
HANDHELD OPTICAL AUGMENTATION (HOA)																												
HOA MDD																												
HOA Technology Development																												
HOA MS B																												
Next Generation Enhanced Vision Devices Development																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2014 Army			DATE: April 2013
APPROPRIATION/BUDGET ACTIVITY 2040: <i>Research, Development, Test & Evaluation, Army</i> BA 4: <i>Advanced Component Development & Prototypes (ACD&P)</i>	R-1 ITEM NOMENCLATURE PE 0603774A: <i>Night Vision Systems</i> <i>Advanced Development</i>	PROJECT VT7: <i>Soldier Maneuver Sensors - Adv Dev</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
FWS-I MS B	1	2014	2	2014
FWS-CS Technology Development	2	2013	2	2015
FWS-CS MS B	2	2015	2	2015
FWS-Sniper (S) Technology Development	2	2014	1	2016
FWS-I Increment II Technology Development	1	2016	4	2017
IED Detection Development (IDD)	2	2013	2	2014
HANDHELD OPTICAL AUGMENTATION (HOA)	2	2012	2	2012
HOA MDD	2	2013	2	2013
HOA Technology Development	2	2013	1	2016
HOA MS B	1	2016	1	2016
Next Generation Enhanced Vision Devices Development	1	2016	4	2018