Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0205601N: Harm Improvement

BA 7: Operational Systems Development

,	•										
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	39.261	29.920	14.207	0.000	14.207	8.869	9.259	9.946	8.074	Continuing	Continuing
1780: HARM Improvement	1.833	1.911	1.555	0.000	1.555	1.572	1.597	1.634	1.686	Continuing	Continuing
2185: <i>AARGM</i>	22.647	9.197	7.793	0.000	7.793	7.297	7.662	8.312	6.388	Continuing	Continuing
3056: Advanced Precision Kill Weapons System	12.288	4.979	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	47.297
3212: MEDUSA JCTD	0.000	13.833	4.859	0.000	4.859	0.000	0.000	0.000	0.000	0.000	18.692
9999: Congressional Adds	2.493	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22.697

A. Mission Description and Budget Item Justification

Research, Development, Test and Evaluation (RDT&E) funding for the Joint Service P3I program which will include near and far term performance improvements, cost reduction, and studies that establish future development requirements. Specific initial efforts include lower cost seeker component development and seeker aided fuzing to enhance warhead performance in low angle impacts and against certain ship targets. Excludes civilian and military manpower and their related costs and military construction costs which will be included in appropriate management and support elements.

B. Program Change Summary (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	33.668	30.045	0.000	0.000	0.000
Current President's Budget	39.261	29.920	14.207	0.000	14.207
Total Adjustments	5.593	-0.125	14.207	0.000	14.207
 Congressional General Reductions 		-0.125			
 Congressional Directed Reductions 		0.000			
 Congressional Rescissions 	0.000	0.000			
Congressional Adds		0.000			
 Congressional Directed Transfers 		0.000			
Reprogrammings	5.950	0.000			
SBIR/STTR Transfer	-0.357	0.000			
 Program Adjustments 	0.000	0.000	14.207	0.000	14.207

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

1319: Research, Development, Test & Evaluation, Navy

PE 0205601N: Harm Improvement

BA 7: Operational Systems Development

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 9999: Congressional Adds

Congressional Add: Aircraft composite rocket launcher

Congressional Add Subtotals for Project: 9999 2.493

Congressional Add Totals for all Projects 2.493 0.000

FY 2009

FY 2010

0.000

0.000

Change Summary Explanation

Technical: Not applicable.

Schedule:

APKWS MS C has slid to 2Q FY10 due to unanticipated Wing Slot Seal issues which caused a delay in the completion of DT and OA testing. LRIP begins in 2Q FY 2010 after Milestone C.

AARGM changed to move PCA from 2Q FY10 to 1Q FY10, DT-B2 from 3Q FY09 to 4Q FY09, OT-C from 4Q FY09 to 2Q FY10, and LRIP2 from 1Q FY10 to 3Q FY10. Change in schedule is due to software correction to enter OPEVAL.

FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.

DATE: February 2010

APPROPRIATION/BUDGET ACTIV 1319: Research, Development, Tes BA 7: Operational Systems Develop	t & Evaluatio	n, Navy			IOMENCLA 1N: <i>Harm Im</i>			PROJECT 1780: HAR	M Improvem	ent	
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
1780: HARM Improvement	1.833	1.911	1.555	0.000	1.555	1.572	1.597	1.634	1.686	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

HIGH-SPEED ANTI-RADIATION MISSILE (HARM) IMPROVEMENT: The High-speed Anti-Radiation Missile (HARM) is a joint service program with the Air Force (Navy lead). The program commenced production in FY 1983. Program element 0205601N was used until FY 1990 to develop and test one hardware and two software upgrades to the HARM (AGM-88B, Block III & AGM-88C, Block IV) as Engineering Change Proposals (ECPs). Another ECP software program (Block IIIA&V) was developed (FY 1996 through FY 1999) to modify HARM software in order to meet operational requirements. The Block V tactical software upgrade gives HARM improved geographic specificity and improved capability against advanced waveforms. HARM Block IIIA/V software was distributed to the Fleet in FY 2000.

HARM Improvement includes efforts to conduct Foreign Military Assessment (FMA) analysis and engineering to exploit vulnerabilities of foreign anit-radar threats. HARM Improvement includes funding for threat assessment, operational updates and integration efforts.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
HARM Foreign Military Assessment (FMA)	1.833	1.911	1.555	0.000	1.555
FY 2009 Accomplishments: Conducted Foreign Military Assessment (FMA) analysis and engineering to exploit vulnerabilities of foreign anti-radar threats. HARM Improvement includes funding for threat assessment, operational updates and integration efforts.					
FY 2010 Plans: Conduct Foreign Military Assessment (FMA) analysis and engineering to exploit vulnerabilities of foreign anti-radar threats. HARM Improvement includes funding for threat assessment, operational updates and integration efforts.					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy PE 0205601N: Harm Improvement

1780: HARM Improvement

BA 7: Operational Systems Development

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: Continue to conduct Foreign Military Assessment (FMA) analysis and engineering to exploit vulnerabilities of foreign anti-radar threats. HARM Improvement includes funding for threat assessment, operational updates and integration efforts.					
Accomplishments/Planned Programs Subtotals	1.833	1.911	1.555	0.000	1.555

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

N/A

D. Acquisition Strategy

Program is out of production and in sustainment phase.

E. Performance Metrics

Successfully complete Developmental Test/Operational Test.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0205601N: Harm Improvement

1780: HARM Improvement

BA 7: Operational Systems Development

Product Development (\$ in Millions)

				FY 2	010	FY 2 Ba	2011 ise	FY 2		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
Systems Engineering	WR	NAWC-AD Patuxent River, MD	0.230	0.229	Feb 2010	0.216	Nov 2010	0.000		0.216	Continuing	Continuing	Continuing
	•	Subtotal	0.230	0.229		0.216		0.000		0.216			

Remarks

Support (\$ in Millions)

Capport (4 m mmo	,												
				FY 2	:010	FY 2 Ba		FY 2	2011 CO	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
Studies & Analyses	Various/ Various	Various Various	0.680	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
		Subtotal	0.680	0.000		0.000		0.000		0.000			

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development

PE 0205601N: Harm Improvement

1780: HARM Improvement

Test and Evaluation (\$ in Millions)

				FY 2	010	FY 2 Ba	-	FY 2		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
Operational Test & Eval	WR	NAWC-WD China Lake, CA	15.494	1.672	Feb 2010	1.329	Nov 2010	0.000		1.329	Continuing	Continuing	Continuing
		Subtotal	15.494	1.672		1.329		0.000		1.329			

Remarks

Management Services (\$ in Millions)

				FY 2	2010	FY 2 Ba	-	FY 2		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
Program Management Support	WR	NAWC-AD Patuxent River, MD	0.311	0.000		0.000		0.000		0.000	Continuing	Continuing	Continuing
Travel	WR	Various Various	0.393	0.010	Jan 2010	0.010	Nov 2010	0.000		0.010	Continuing	Continuing	Continuing
		Subtotal	0.704	0.010		0.010		0.000		0.010			

Remarks

Contrat Type for Travel is TO

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0205601N: Harm Improvement

1780: HARM Improvement

BA 7: Operational Systems Development

	Total Prior Years Cost	FY 2	2010		2011 Ise	FY 2	-	FY 2011 Total	Cost To	Total Cost	Target Value of Contract	
					,	_	_					4
Project Cost Totals	17.108	1.911		1.555		0.000		1.555				

R	e	ma	arl	(S

Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205601N: Harm Improvement

PROJECT

1780: HARM Improvement

		20	09			2()10			2	011			20)12			20)13			2(014			20	015	
Fiscal Year																									_			_
	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	
Acquisition Milestones																												
Prototypo Pharo																												
Radar Systom Dovolopmont																												
EDM Radar Dolivory																												
Saftuare																												
Tast & Evaluation Milastonas																												
Dovolapmont Tost																												
Oporational Tost (Foroign Military Assossmont)																												
Production Milastonas																												
LRIPI																											\vdash	
LRIPII																												
FRP	_																											
Production Dolivories																												=

UNCLASSIFIED

R-1 Line Item #176 Page 8 of 33

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY
1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

DATE: February 2010

R-1 ITEM NOMENCLATURE
PE 0205601N: Harm Improvement
1780: HARM Improvement

Schedule Details

	St	art	Eı	nd
Event	Quarter	Year	Quarter	Year
Operational Test - Foreign Military Assessment (FMA)	1	2009	4	2015

DATE: February 2010

•		•							•		
APPROPRIATION/BUDGET ACT 1319: Research, Development, To BA 7: Operational Systems Devel	st & Evaluatio	n, Navy			IOMENCLA 1N: <i>Harm In</i>			PROJECT 2185: AAR	GM		
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
2185: <i>AARGM</i>	22.647	9.197	7.793	0.000	7.793	7.297	7.662	8.312	6.388	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

The AGM-88E Advanced Anti-Radiation Guided Missile (AARGM) Project transitioned a Phase III Small Business Innovative Research (SBIR) program to develop and demonstrate a multi-mode guidance section on a HARM airframe to System Development and Demonstration (SD&D) in FY 2003. The AARGM SD&D program is designed to integrate multi-mode guidance (passive Anti-Radiation Homing (ARH)/active Millimeter Wave (MMW) Radar/Global Positioning system/Inertial Navigation System (GPS/INS)) on the HARM AGM-88 missile. AARGM weapon system capabilities include: active Millimeter Wave terminal guidance, counter shutdown, expanded threat coverage, enhanced anti-radiation homing receiver, netted targeting real-time feed via Integrated Broadcast Service (IBS) prior to missile launch, weapon impact assessment transmitted prior to detonation, GPS/point-to-point weapon navigation, and weapon employment with impact avoidance zone/missile impact zones.

The AARGM program transitioned the Quick Bolt Advanced Concept Technology Demonstration (ACTD) to SD&D. Quick Bolt added the capabilities to receive threat data from national assets, enlarging the target set and increasing aircrew situational awareness, and to transmit a Weapon Impact Assessment (WIA) message to assist in the critical area of Battle Damage Assessment (BDA). The Quick Bolt ACTD was completed in FY 2003. Quick Bolt demonstration testing successfully used Impact Avoidance Zone (IAZ) logic to distinguish between the proscribed and original target, demonstrating the ability to greatly reduce friendly fire incidents and collateral damage.

In June 2003, a successful Milestone B transitioned AARGM to a System Development and Demonstration (SD&D) Acquisition Category 1C (ACAT 1C) program. ATK Missile Systems Company (AMSC) was awarded the AARGM SD&D NAVAIR Contract N00019-03-C-0353, valued at \$222.6M. In May 2004, the contract baseline was increased to \$231.9M to accelerate incorporation of an embedded IBS-Reciever, enabling the warfighter to directly receive National intelligence data, providing additional AARGM targeting data to increase overall pilot situational awareness. Recent modifications have increased the current baseline to \$232.3. The AARGM program includes 31 test articles and 1.871 production modification kits.

DT-B1 began in FY 2004 and continued through 4Q FY 2008. Captive carry testing of Engineering Manufacturing Development hardware began in FY 2007. DT-B1 overlapped with DT-B2 which began in 3Q FY 2007. Operational Assessment was completed 4Q FY 2008. All live fire tests have been completed for DT-B2, and the program is ready for Operational Evaluation. Milestone C was achieved 4Q FY 2008, followed by a combined Low Rate Initial Production (LRIP) contract award in 1Q FY 2009. LRIP 1 deliveries are scheduled to commence 2Q FY 2010.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	PE 0205601N: Harm Improvement	2185: <i>AAR</i>	GM
BA 7: Operational Systems Development			

In FY 2010-FY 2015, the AGM-88E AARGM program plans to develop and demonstrate the capability to engage and destroy non-traditional Suppression of Enemy Air Defenses (SEAD)/Destruction of Enemy Air Defenses (DEAD) and Overseas Contigency Operations targets. These developments continue Future Naval Capability (FNC) Science and Technology (S&T) investments by the Office of Naval Research (ONR) initiated in FY 2006.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
AARGM SD&D	22.647	3.642	0.000	0.000	0.000
FY 2009 Accomplishments: Completion of DT-B2 with integration, captive carry, and live fire of AARGM on F/A-18 C/D.					
FY 2010 Plans: OPEVAL will commence 2nd quarter of FY 2010. Beginning of Follow-on Test and Evaluation (FOT&E).					
AARGM Derivative Program (ADP)	0.000	0.250	4.340	0.000	4.340
FY 2010 Plans: Development of capability to attack non-traditional SEAD/DEAD and OCO targets will continue through the FYDP.					
FY 2011 Base Plans: Continue to develop the capability to attack non-traditional SEAD/DEAD and OCO targets.					
Threat Data Library	0.000	2.715	3.453	0.000	3.453
FY 2010 Plans: Update Electronic Intelligence (ELINT) files and Millimeter Wave (MMW) signatures to ID track and engage new and/or improved threat radars. Testing and assessment of threat systems. Update AARGM threat data library.					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development

PE 0205601N: Harm Improvement

2185: AARGM

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 Base Plans: Continue to update Electronic Intelligence (ELINT) files and Millimeter Wave (MMW) signatures to ID track and engage new and/or improved threat radars. Testing and assessment of threat systems. Update AARGM threat data library.					
ARM JMPS UPC S/W	0.000	2.590	0.000	0.000	0.000
FY 2010 Plans: Updates to UPC software leading to testing to maintain ARM Joint Mission Planning System (JMPS) UPC compatibility with future JMPS architecture.					
Accomplishments/Planned Programs Subtotals	22.647	9.197	7.793	0.000	7.793

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

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	Base	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• WPN 2327: <i>HARM Mods</i>	22.334	47.825	53.543	0.000	53.543	84.547	113.436	132.620	136.775	0.000	632.103
• RDTE 3063: <i>EA-18G</i>	2.200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	12.200
Development											

D. Acquisition Strategy

The AARGM program started as a Phase I Small Business Innovative Research (SBIR), Advanced Technology Program (ATD), evolved into a Phase III SBIR program, and transitioned into a System Development and Demonstration (SD&D) ACAT 1C program in June 2003. The AARGM SD&D fulfills U.S. Navy operational requirements and incorporates AARGM ATD and Quick Bolt ACTD-demonstrated system requirements. Government responsibilities for SD&D have included monitoring, technical assessment, and validation of contractor technology development and testing. Milestone C was achieved 4Q FY 2008, followed by a combined Low Rate Initial Production (LRIP) contract award in 1Q FY 2009. LRIP 1 deliveries are scheduled to commence 2Q FY 2010.

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development	R-1 ITEM NOMENCLATURE PE 0205601N: Harm Improvement	PROJECT 2185: AARGM
E. Performance Metrics		
Achieved Milestone C in 2008. Completed Developmental Testi complete Operational Test in 2010.	ing in 2009. Successfully complete Operational Te	st Readiness Review (OTRR) in 2010. Successfully

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205601N: Harm Improvement

PROJECT 2185: *AARGM*

Product Development (\$ in Millions)

				FY 2	2010	FY 2 Ba	2011 ise	FY 2		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
Primary Hardware Development1	SS/CPIF	ATK Woodland Hills, CA	276.699	0.000		0.000		0.000		0.000	0.000	276.699	270.876
Primary Hardware Development	MIPR	SAF-FMB DC	0.088	0.000		0.000		0.000		0.000	0.000	0.088	Continuing
Primary Hardware Development2	SS/FPI	ATK Woodland Hills, CA	0.000	2.003	Feb 2010	0.000		0.000		0.000	0.000	2.003	2.003
Primary Hardware Development	WR	NSMA Arlington, VA	1.084	0.250	Feb 2010	1.576	Nov 2010	0.000		1.576	9.416	12.326	Continuing
Aircraft Integration	WR	NAWC-WD China Lake, CA	8.836	0.000		0.000		0.000		0.000	0.000	8.836	Continuing
Aircraft Integration	WR	NAWC-AD Patuxent River, MD	0.050	0.000		0.000		0.000		0.000	0.000	0.050	Continuing
Systems Engineering	MIPR	SAF-FMB DC	0.150	0.000		0.000		0.000		0.000	0.000	0.150	Continuing
Systems Engineering	WR	NAWC-WD China Lake, CA	55.999	2.604	Feb 2010	5.162	Nov 2010	0.000		5.162	16.633	80.398	Continuing
PY Product Development	Various/ Various	Various Various	176.785	0.000		0.000		0.000		0.000	0.000	176.785	Continuing
		Subtotal	519.691	4.857		6.738		0.000		6.738	26.049	557.335	272.879

Remarks

Difference between Total cost and Target Value of Contract represents contract variance to date.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development

PE 0205601N: Harm Improvement

2185: *AARGM*

Support (\$ in Millions)

					FY 2010		FY 2011 Base		1	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
Integrated Logistics Support	WR	NAWC-WD China Lake, CA	5.404	0.000		0.000		0.000		0.000	0.000	5.404	Continuing
Integrated Logistics Support	Various/ Various	Various Various	1.468	0.000		0.000		0.000		0.000	0.000	1.468	Continuing
Studies and Analyses	Various/ Various	Various Various	0.711	0.050	Feb 2010	0.050	Nov 2010	0.000		0.050	0.010	0.821	Continuing
Prior Years Support	Various/ Various	Various Various	0.012	0.000		0.000		0.000		0.000	0.000	0.012	Continuing
		Subtotal	7.595	0.050		0.050		0.000		0.050	0.010	7.705	

Remarks

Test and Evaluation (\$ in Millions)

				FY 2	2010	FY 2 Ba	-	FY 2 OC		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
Development Test & Evaluation	WR	NAWC-WD China Lake, CA	20.130	0.468	Feb 2010	0.335	Nov 2010	0.000		0.335	1.286	22.219	Continuin
Operational Test & Evaluation	WR	COMOPTEVFOR Norfolk, VA	1.714	3.642	Feb 2010	0.440	Nov 2010	0.000		0.440	2.213	8.009	Continuin
Test Assets	WR	NAWC-WD China Lake, CA	6.390	0.000		0.000		0.000		0.000	0.000	6.390	Continuin

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0205601N: Harm Improvement

2185: AARGM

BA 7: Operational Systems Development

Test and Evaluation (\$ in Millions)

		-,		FY 20	010	FY 2 Ba		FY 2		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
		Subtotal	28.234	4.110		0.775		0.000		0.775	3.499	36.618	

Remarks

Management Services (\$ in Millions)

				FY 2	FY 2010		2011 se	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
Contractor Engineering Support	Various/ Various	Various Various	6.759	0.000		0.000		0.000		0.000	0.000	6.759	Continuing
Engineering & Technical Services	Various/ Various	Various Various	3.461	0.020	Feb 2010	0.020	Feb 2011	0.000		0.020	0.020	3.521	Continuing
Program Management Support	Various/ Various	Various Various	6.354	0.150	Feb 2010	0.200	Feb 2011	0.000		0.200	0.200	6.904	Continuing
Travel	WR	NAVAIR HQ Patuxent River, MD	1.518	0.010	Jan 2010	0.010	Nov 2010	0.000		0.010	0.040	1.578	Continuing
		Subtotal	18.092	0.180		0.230		0.000		0.230	0.260	18.762	

Remarks

Contract Type for Travel is TO

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0205601N: Harm Improvement

2185: *AARGM*

BA 7: Operational Systems Development

	Total Prior Years Cost	FY 2	2010	FY 2 Ba	FY 2	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	573.612	9.197		7.793	0.000	7.793	29.818	620.420	272.879	

R	e	ma	arl	(S

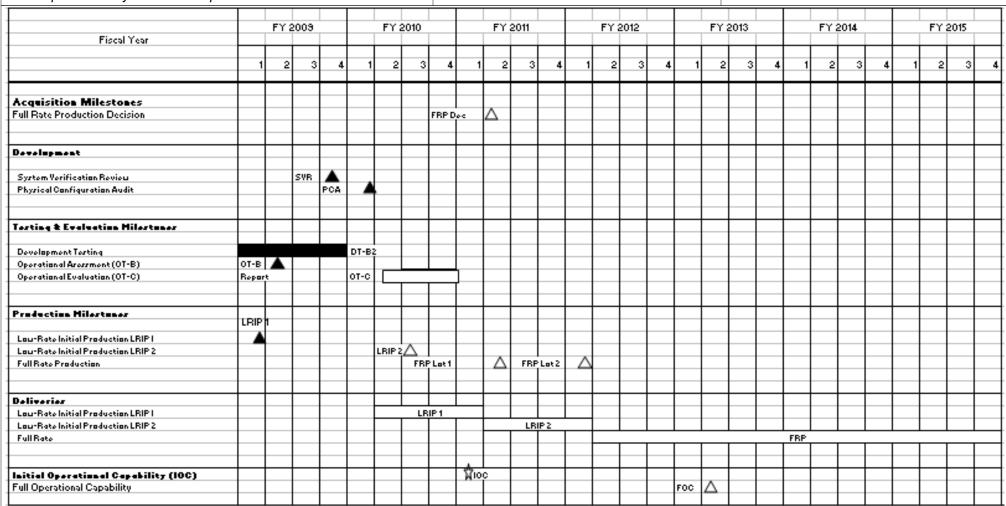
Exhibit R-4, RDT&E Schedule Profile: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy
BA 7: Operational Systems Development

DATE: February 2010

R-1 ITEM NOMENCLATURE
PE 0205601N: Harm Improvement
2185: AARGM



UNCLASSIFIED

R-1 Line Item #176 Page 18 of 33

Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205601N: Harm Improvement

PROJECT

2185: *AARGM*

Schedule Details

	St	art	En	ıd
Event	Quarter	Year	Quarter	Year
Developmental Testing (DT-B2)	1	2009	4	2009
Low Rate Initial Production 1 (LRIP-1)	1	2009	1	2009
Operational Assessment (OT-B)	1	2009	2	2009
System Verification Review	4	2009	4	2009
Operational Evaluation (OT-C)	2	2010	4	2010
Low Rate Initial Production 2 (LRIP-2)	3	2010	3	2010
Low Rate Initial Production 1 Delivery	2	2010	1	2011
Physical Configuration Audit (PCA)	1	2010	1	2010
Full Rate Production Lot 1	2	2011	2	2011
Initial Operational Capability	1	2011	1	2011
Low-Rate Initial Production 2 Delivery	2	2011	1	2012
Full Rate Production Lot 2	1	2012	1	2012
Full Rate Production Deliveries	2	2012	4	2015
Full Rate Production Decision	2	2011	2	2011
Full Operational Capability	2	2013	2	2013

Exhibit R-2A, RDT&E Project Jus	stification: Pl	3 2011 Navy	/						DATE: February 2010				
APPROPRIATION/BUDGET ACTI 1319: Research, Development, Tes BA 7: Operational Systems Develo	st & Evaluatio	n, Navy			IOMENCLA 1N: <i>Harm Im</i>		PROJECT 3056: Advanced Precision Kill Weapons System						
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		
3056: Advanced Precision Kill Weapons System	12.288	4.979	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	47.297		
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0				

A. Mission Description and Budget Item Justification

Formerly known as the Advanced Precision Kill Weapons System (APKWS), APKWS II was an Army System Development & Demonstration (SD&D) program to develop a low cost Semi Active Laser (SAL) precision guidance section for existing 2.75-inch unguided rockets. APKWS II will provide an inexpensive, small, lightweight precision-kill weapon that is effective against soft and lightly armored targets, and which enhances crew survivability with increased standoff range. APKWS offers precision, maximum stored kills per aircraft sortie, minimum collateral damage potential, and increased effectiveness over legacy unguided rockets. The guidance package can be assembled with existing unguided rocket components (warhead and rockets motor) and can be fired from LAU-61/LAU-68. SD&D program will complete 2Q 2010, and is on track to achieve Milestone C 2Q FY 2010.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Advanced Precision Kill Weapons System (APKWS) SD&D	12.288	4.979	0.000	0.000	0.000
APKWS System Development and Demonstration (SD&D) program to develop a low cost Semi Active Laser (SAL) precision guidance section for existing 2.75 inch unguided rockets. FY 2009 Accomplishments: Funds used for the completion of the United States Marine Corps (USMC) led APKWS program. This included prime contractor hardware development, engineering support, testing and evaluation, and logistic support. FY 2010 Plans: Continuation of FY09 effort.					

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT	
1319: Research, Development, Test & Evaluation, Navy	PE 0205601N: Harm Improvement	3056: Adva	nced Precision Kill Weapons
BA 7: Operational Systems Development		System	

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Accomplishments/Planned Programs Subtotals	12.288	4.979	0.000	0.000	0.000

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

			FY 2011	FY 2011	<u>FY 2011</u>					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	<u>Base</u>	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
PANMC/015100: Airborne	57.054	75.034	38.721	76.043	114.764	43.053	42.709	46.559	47.564	Continuing	Continuing
Rockets											

D. Acquisition Strategy

The Navy assumed the APKWS program from the Army. The previously competed SD&D Army contract to prime contractor was transferred to the Navy for continued management. The program was through milestone B and meeting cost schedule and technical performance requirements. The Navy funded the remainder of the program to complete SD&D. The Navy intend to award Sole Source LRIP 1 & 2 contract to SD&D prime contractor.

E. Performance Metrics

Milestone C is scheduled for February 2010

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0205601N: Harm Improvement

3056: Advanced Precision Kill Weapons

System

Product Development (\$ in Millions)

				FY 2	010	FY 20 Bas		FY 2		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
Primary Hardware Development	C/CPFF	BAE SYS New Hampshire	21.924	0.000		0.000		0.000		0.000	0.000	21.924	21.924
Systems Engineering	WR	NAWC-WD China Lake, CA	2.849	0.000		0.000		0.000		0.000	0.000	2.849	Continuing
Systems Engineering	WR	NAWC-AD Patuxent River, MD	0.997	0.300	Nov 2009	0.000		0.000		0.000	0.000	1.297	Continuing
		Subtotal	25.770	0.300		0.000		0.000		0.000	0.000	26.070	21.924

Remarks

Support (\$ in Millions)

	,			FY 2	010	FY 2 Ba	-	FY 2		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
Integrated Logistics Support	WR	Various Various	0.624	0.000		0.000		0.000		0.000	0.000	0.624	Continuing
		Subtotal	0.624	0.000		0.000		0.000		0.000	0.000	0.624	

Remarks

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205601N: Harm Improvement

PROJECT

3056: Advanced Precision Kill Weapons

System

Test and Evaluation (\$ in Millions)

				FY 2	2010	FY 2 Ba		FY 2		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
Developmental Test & Evaluation	WR	NAWC-WD China Lake, CA	2.522	0.000		0.000		0.000		0.000	0.000	2.522	Continuing
Developmental Test & Evaluation	Various/ Various	Various Various	1.300	0.000		0.000		0.000		0.000	0.000	1.300	Continuing
Operational Test & Evaluation	WR	COMOPTEVFOR Norfolk, VA	0.800	1.800	Nov 2009	0.000		0.000		0.000	0.000	2.600	Continuing
		Subtotal	4.622	1.800		0.000		0.000		0.000	0.000	6.422	

Remarks

Management Services (\$ in Millions)

				FY 2	010	FY 20 Bas		FY 2		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
Government Engineering Support	WR	NAWC-WD China Lake, CA	1.627	2.779	Nov 2009	0.000		0.000		0.000	0.000	4.406	Continuing
Program Management Support	Various/ Various	Various Various	1.706	0.000		0.000		0.000		0.000	0.000	1.706	Continuing
Travel	WR	NAVAIR HQ Patuxent River, MD	0.200	0.100	Nov 2009	0.000		0.000		0.000	0.000	0.300	Continuing
		Subtotal	3.533	2.879		0.000		0.000		0.000	0.000	6.412	

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy

PE 0205601N: Harm Improvement

3056: Advanced Precision Kill Weapons

System

Management Services (\$ in Millions)

				FY	2010		2011 ase		2011 CO	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

Remarks

Contract Type for Travel is TO

	Total Prior Years Cost	FY 2	2010	FY 2011 Base		2011 CO	FY 2011 Total	Cost To	Total Cost	Target Value of Contract
Project Cost Totals	34.549	4.979		0.000	0.000		0.000	0.000	39.528	21.924

Remarks

Exhibit R-4, RDT&E Sche	dule Profi	le: PB 2	011 N	lavy																			DA	ΓE: Ι	Febr	uary	201	0		
APPROPRIATION/BUDGE 1319: Research, Developm 3A 7: Operational Systems	ent, Test 8	& Evalua	ition, i	Navy	′								NCL larm			men	t			30	S6: A stem	Adva	nced	l Pre	ecisio	on Ki	ill We	eapo	ns	
Fiscal Year				20	09			20)10			20	011			20)12			20	113			20	014			20	15	
risodiredi			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	Γ
Acquisition Milestones																														
SD&D																														Γ
							М	l sc∠	\																					
Test & Evaluation Milestones																														
Operational Assessment IOT&E							OA			ЮТ	&E																			
Production Milestones											10C <u>/</u>	<u> </u>			FRP	Δ														Γ
Deliveries Low-Rate Initial Production LRIP I									LF	RIP 1																				Ī
Low-Rate Initial Production LRIP 2													LR	P2		_			FDC											
Full Rate																<u> </u>			FRP					<u> </u>	_	_	_		_	$\overline{}$

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy		DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE	PROJECT
1319: Research, Development, Test & Evaluation, Navy	PE 0205601N: Harm Improvement	3056: Advanced Precision Kill Weapons
BA 7: Operational Systems Development		System

Schedule Details

	St	art	E	nd
Event	Quarter	Year	Quarter	Year
APKWS SDD	1	2009	2	2010
APKWS OA	2	2010	2	2010
APKWS Milestone C	2	2010	2	2010
APKWS LRIP 1	2	2010	1	2011
IOC	2	2011	2	2011
APKWS IOT&E	2	2011	4	2011
APKWS LRIP 2	2	2011	1	2012
FRP	2	2012	2	2012
FRP Deliveries	2	2012	4	2015

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy PE 0205601N: Harm Improvement 3212: MEDUSA JCTD

BA 7: Operational Systems Development

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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
3212: MEDUSA JCTD	0.000	13.833	4.859	0.000	4.859	0.000	0.000	0.000	0.000	0.000	18.692
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Medusa FY 2010 new start Joint Capability Technology Demonstration (JCTD) will demonstrate the Low Cost Guided Imaging Rockets (LOGIR) technology currently being developed at the Naval Air Warfare Center Weapons Division (NAWCWD) China Lake on the MH-60R. LOGIR provides "fire and forget" capability to 2.75-inch rockets in support of Sea Shield Pillar. LOGIR increases platform lethality against Fast Attack Craft/Fast Inshore Attack Craft (FAC/FIAC) threat. LOGIR provides a low-cost Imaging InfraRed (I2R) precision guidance section for the existing 2.75-inch unguided rockets. LOGIR provides maximum precision kills per sortie, low cost, minimum collateral damage, increased efficiency, and increased standoff. Medusa was approved by OSD for a rolling start. OSD is also providing funding for this effort. Initial Program documentation (i.e. Performance Spec, CDD) will be developed within the scope of the JCTD.

B. Accomplishments/Planned Program (\$ in Millions)

	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MEDUSA JCTD	0.000	13.833	4.859	0.000	4.859
FY 2010 Plans: Demonstration of the Low Cost Guided Imaging Rockets (LOGIR) technology currently being developed.					
FY 2011 Base Plans: Continue demonstration of the Low Cost Guided Imaging Rockets (LOGIR) technology currently being developed.					
Accomplishments/Planned Programs Subtotals	0.000	13.833	4.859	0.000	4.859

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

PROJECT

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205601N: Harm Improvement

3212: MEDUSA JCTD

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

			FY 2011	FY 2011	FY 2011					Cost To	
<u>Line Item</u>	FY 2009	FY 2010	<u>Base</u>	OCO	<u>Total</u>	FY 2012	FY 2013	FY 2014	FY 2015	Complete	Total Cost
• RDTE 0603648D8Z: <i>Project#648,</i>	0.000	4.000	4.000	0.000	4.000	0.000	0.000	0.000	0.000	0.000	8.000
DUSD (AS&C)											
• RDTEN 0603790N: <i>NATO</i>	0.000	0.500	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.000	1.000
Research and Development											
Project# K0-1: Republic of Korea	0.000	1.000	1.408	0.000	1.408	0.000	0.000	0.000	0.000	0.000	2.408

D. Acquisition Strategy

The MEDUSA JCTD is a technology demonstation by DoD government activities.

E. Performance Metrics

Military Utility Assessment (MUA) is scheduled for August 2011

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

. .

R-1 ITEM NOMENCLATURE

PROJECT

1319: Research, Development, Test & Evaluation, Navy BA 7: Operational Systems Development

PE 0205601N: Harm Improvement

3212: MEDUSA JCTD

Product Development (\$ in Millions)

		·		FY 2	010	FY 2 Ba	2011 Ise	FY 2		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
Systems Engineering	WR	NAWC-WD China Lake, CA	0.000	13.081	Nov 2009	4.749	Nov 2010	0.000		4.749	0.000	17.830	Continuing
		Subtotal	0.000	13.081		4.749		0.000		4.749	0.000	17.830	

Remarks

Management Services (\$ in Millions)

_	•	•											
				FY 2	010	FY 2 Ba	2011 se	FY 2		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
Program Management Support	WR	NAWC-AD Patuxent River, MD	0.000	0.702	Nov 2009	0.100	Nov 2010	0.000		0.100	0.000	0.802	Continuing
Travel	WR	NAVAIR HQ Patuxent River, MD	0.000	0.050	Nov 2009	0.010	Nov 2010	0.000		0.010	0.000	0.060	Continuing
	•	Subtotal	0.000	0.752		0.110		0.000		0.110	0.000	0.862	

Remarks

Contract Type for Travel is TO

Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Navy

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0205601N: Harm Improvement

PROJECT

3212: MEDUSA JCTD

	Total Prior Years Cost	FY 2010		2011 ase	FY 2	2011 CO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	13.833	4.859		0.000		4.859	0.000	18.692	

Remarks

Exhibit R-4, RDT&E Sch	nedul	e Pro	R-1 ITEM NOMENCLATURE PROJECT PE 0205601N: Harm Improvement 3212: MEDUSA JCTD															10										
APPROPRIATION/BUDO 1319: Research, Develop BA 7: Operational System	men	t, Tes	st & E	valua nt	ation,	Navy											nt						JCT	D				
Fiscal Year		20	109			201	10			20	111			20	12			20	13			20	114			20	15	
	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
Milestones																												
Test & Evaluation Milestones Integration & Demonstration																												
Military Utility Assessment												Δ	MUA															
Production Milestones																												
Deliveries Performance Spec CDD									\Diamond																			

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY

1319: Research, Development, Test & Evaluation, Navy

BA 7: Operational Systems Development

DATE: February 2010

R-1 ITEM NOMENCLATURE
PE 0205601N: Harm Improvement
3212: MEDUSA JCTD

Schedule Details

	St	art	Eı	nd
Event	Quarter	Year	Quarter	Year
Integration and Demonstration	1	2009	4	2011
Performance Spec	1	2011	1	2011
CDD	1	2011	1	2011
Military Utility Assessment (MUA)	4	2011	4	2011

Exhibit R-2A, RDT&E Project Justification: PB 2011 Navy

APPROPRIATION/BUDGET ACTIVITY R-1 ITEM NOMENCLATURE PROJECT

1319: Research, Development, Test & Evaluation, Navy PE 0205601N: Harm Improvement 9999: Congressional Adds

BA 7: Operational Systems Development

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
9999: Congressional Adds	2.493	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	22.697
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

Congressional Adds.

B. Accomplishments/Planned Program (\$ in Millions)

		FY 2009	FY 2010
		2.493	0.000
Congressional Add: Aircraft composite rocket launcher			
FY 2009 Accomplishments:			
Aircraft Composite Rocket Launcher			
	Congressional Adds Subtotals	2.493	0.000

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

N/A

D. Acquisition Strategy

Not required for Congressional Adds.

E. Performance Metrics

Not required for Congressional Adds.