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

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development</i>	R-1 Program Element (Number/Name) PE 0605555N / (U)STRIKE WEAPONS DEVELOPMENT
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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	0.000	-	13.757	-	-	-	-	-	-	-	-	13.757
3212: <i>MEDUSA JCTD</i>	0.000	-	2.000	-	-	-	-	-	-	-	-	2.000
3412: <i>Hellfire-R Integration</i>	0.000	-	7.757	-	-	-	-	-	-	-	-	7.757
9999: <i>Congressional Adds</i>	0.000	-	4.000	-	-	-	-	-	-	-	-	4.000

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

Note

Beginning in FY 2014, 3212 MEDUSA Joint Capability Technology Demonstration (JCTD) was transferred from 0205601N/Harm Improvement.

A. Mission Description and Budget Item Justification

Research, Development, Test and Evaluation funding for Strike Weapons to be employed from a multitude of fixed and rotary wing aircraft in support of offensive and defensive land and sea based targets across multiple mission areas. Specific efforts include Advanced Precision Kill Weapons System (APKWS), MEDUSA JCTD, support the feasibility of a new air to ground missile for F-18 and Hellfire-R Integration. This will include HPRF and HEL as well as Rockets Improvement Program and future Program of Record forward firing weapons.

These projects are funded under Operational Systems Development because they include development efforts to upgrade systems that have been fielded or have received approval for Full-Rate Production and anticipate funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
Previous President's Budget	-	9.757	6.590	-	6.590
Current President's Budget	-	13.757	-	-	-
Total Adjustments	-	4.000	-6.590	-	-6.590
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	4.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	-	-	-6.590	-	-6.590

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

Project: 9999: *Congressional Adds*

Congressional Add: *F/A-18 Missile Flt Testing - Cong*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

	FY 2013	FY 2014
	-	4.000
	-	4.000
	-	4.000

Change Summary Explanation

Technical: FY15 funding was decreased because Navy will no longer be investing in Hellfire-R as the focus shifts to the integration of Joint Air Ground Missile (JAGM).

Schedule: The late release of funding for project units 3412 Hellfire R Integration and 3212 Digital Rocket Launcher (DRL), considered new starts under the FY14 Continuing Resolution, caused the shift in the schedule.

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy **Date:** March 2014

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 060555N / (U)STRIKE WEAPONS DEVELOPMENT	Project (Number/Name) 3212 / MEDUSA JCTD
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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
3212: MEDUSA JCTD	-	-	2.000	-	-	-	-	-	-	-	-	2.000
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

The MEDUSA JCTD demonstrated the Low Cost Guided Imaging Rockets (LOGIR) technology developed at the Naval Air Warfare Center Weapons Division, China Lake on the MH-60S. LOGIR was to initially provide "fire and forget" capability to 2.75-inch rockets in support of Sea Shield Pillar. LOGIR provides increased platform lethality against Fast Attack Craft (FAC)/Fast Inshore Attack Craft (FIAC) threat, a low-cost imaging infraRed precision guidance section for the existing 2.75-inch unguided rockets and maximum precision kills per sortie with minimum collateral damage, increased efficiency and increased standoff distance. Initial program documentation (i.e. performance specifications, Capabilities Development Document) was developed within the scope of the JCTD.

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

	FY 2013	FY 2014	FY 2015
Title: Digital Rocket Launcher	-	2.000	-
Articles:	-	-	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: FY14 funding will be used to cover the operational testing and completion of Quick Reaction Assessment (QRA) for the Digital Rocket Launcher (DRL) which provides 2.75-inch rocket capability on MH-60R/S in support of Sea Shield Pillar, and increases lethality against FAC/FIAC threat.			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	-	2.000	-

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

N/A

Remarks

D. Acquisition Strategy

The MEDUSA JCTD was performed in FY09 through FY12. The Digital Rocket Launcher (DRL) is a Rapid Deployment Capability with Early Operational Capability in FY14, which will be a combination of procurement from government and contractor sources for the final product.

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Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0605555N / (U)STRIKE WEAPONS DEVELOPMENT	Project (Number/Name) 3212 / MEDUSA JCTD

E. Performance Metrics

Successful development and test of all up round DRL system, including warhead, rocket motor and guidance system for Fast Attack Craft/Fast Inshore Attack Craft.

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

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0605555N / (U)STRIKE WEAPONS DEVELOPMENT	Project (Number/Name) 3212 / MEDUSA JCTD
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Medusa/DRL	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Acquisition Milestone																																
Early Operational Capability						EOC MH-60S ▲				EOC MH-60R ▲																						
Test & Evaluation																																
Quick Reaction Assessment						QRA MH-60S				QRA MH-60R																						
Quick Reaction Assessment Final Report						QRAFR MH-60S				QRAFR MH-60R																						
DRL Operational Test						OT MH-60S				OT MH-60R																						
Final WSESRB						WSESRB MH-60S				WSESRB MH-60R																						
Fleet Clearance						FC MH-60S				FC MH-60R																						

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Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 060555N / (U)STRIKE WEAPONS DEVELOPMENT	Project (Number/Name) 3412 / Hellfire-R Integration
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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
3412: <i>Hellfire-R Integration</i>	-	-	7.757	-	-	-	-	-	-	-	-	7.757
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

Air-to-ground Missile (AGM)-114R is an Engineering Change Proposal to the fielded AGM-114K, K2, K2A, P, P2, P2A and AGM-114M missiles. It is intended to address safety, reliability and producibility issues while maintaining the current lethality of fielded versions of the Hellfire missile. The Department of the Navy (DoN) has participated in the development of the AGM-114R, which provides full Unmanned Air Vehicle (UAV), FW (Harvest Hawk) and Rotary Wing Capabilities. The AGM-114R also increases lethality (Trajectory Shaping), increases Engagement Envelope (360 deg) and roll-tip off safety issues. The AGM-114R will maximize the Warfighter's operational flexibility by allowing them to effectively engage a variety of stationary and mobile targets, including advanced armor, bunkers, buildings, command and control vehicles, transporter/erector launchers and patrol craft.

Research, Development Test and Evaluation (RDT&E) funding will support aircraft airworthiness certification through a combination of missile software verifications, Hazards of Electromagnetic Radiation to Ordnance (HERO) analysis and aircraft interface validations. In addition, Development Test/Operational Test (DT/OT) flight tests using all-up rounds will be performed during backwards compatibility System Qualification Testing (SQT).

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

	FY 2013	FY 2014	FY 2015
Title: Test and Evaluation	-	7.757	-
Articles:	-	24.000	-
FY 2013 Accomplishments: N/A			
FY 2014 Plans: Procure AGM-114R test articles to support DT/OT events with primary platforms. Conduct aircraft Operational Flight Program analysis and integration of missile logic for identification and appropriate fire control commands for the KC-130J Harvest Hawk and AH-1Z. Conduct airworthiness analysis to support interim flight clearance and perform captive carriage flight test on KC-130J and AH-1Z.			
FY 2015 Plans: N/A			
Accomplishments/Planned Programs Subtotals	-	7.757	-

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Exhibit R-2A, RDT&E Project Justification: PB 2015 Navy		Date: March 2014
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C. Other Program Funding Summary (\$ in Millions)

Line Item	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
• WPN/2254: HELLFIRE	86.256	59.341	-	-	-	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

The United States Army is currently in the developmental test phase of the air-to-ground missile (AGM)-114R and qualifying both the Integrated Blast Fragmentation Warhead as well as the Production Pilot Line. Missiles from this first Low Rate Initial Production will support Army/Air Force Development Test/Operational Firings as well as Live Fire Test and Evaluation in FY13. FY14 Full-Rate Production will support Army and Air Force fielding and will be used to provide missiles to support United States Navy Platform Integration.

E. Performance Metrics

Successful completion of Army Live Fire Test and Evaluation in FY14.

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

Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0605555N / (U)STRIKE WEAPONS DEVELOPMENT	Project (Number/Name) 3412 / Hellfire-R Integration
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Hellfire-R Integration	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Test and Evaluation																																
System Qualification Testing																																
Developmental Test/Operational Test																																

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Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0605555N / (U)STRIKE WEAPONS DEVELOPMENT	Project (Number/Name) 9999 / Congressional Adds
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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
9999: <i>Congressional Adds</i>	-	-	4.000	-	-	-	-	-	-	-	-	4.000
Quantity of RDT&E Articles	0.000	-	-	-	-	-	-	-	-	-		

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

A. Mission Description and Budget Item Justification

Research, Development, Test and Evaluation (RDT&E) funding will support the feasibility of a new air-to-ground missile for F/A-18.

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

	FY 2013	FY 2014
<i>Congressional Add:</i> F/A-18 Missile Flt Testing - Cong	-	4.000
<i>FY 2013 Accomplishments:</i> N/A		
<i>FY 2014 Plans:</i> Conduct feasibility analysis and tests for new air-to-ground missile.		
Congressional Adds Subtotals	-	4.000

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

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

Congressional add.

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Navy

Date: March 2014

Appropriation/Budget Activity
1319 / 7

R-1 Program Element (Number/Name)
PE 0605555N / (U)STRIKE WEAPONS
DEVELOPMENT

Project (Number/Name)
9999 / Congressional Adds

F/A-18 Missil Flight Testing	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019							
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q				
Test and Evaluation																																
System Qualification Testing																																
Developmental Testing																																

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