

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604216N: Multi-Mssn Helicopter Upgrade Dev							
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	67.891	75.284	55.792	0.000	55.792	15.244	3.247	0.000	0.000	0.000	1,130.451
1707: MH-60R Development	67.891	71.540	55.792	0.000	55.792	15.244	3.247	0.000	0.000	0.000	1,125.073
9999: Congressional Adds	0.000	3.744	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.378
A. Mission Description and Budget Item Justification											
The primary mission areas of the MH-60R include Anti-Submarine Warfare (ASW) and Surface Warfare (SUW). Secondary mission areas include Search and Rescue (SAR), Vertical Replenishment (VERTREP), Naval Surface Fire Support (NSFS), logistics support, personnel transport and Medical Evacuation (MEDEVAC). The MH-60R provides direct support to the Carrier Strike Group and provides Link Communications Relay (COMREL) via VHF/UHF, Link-16, and Common Data Link (CDL) with the incorporation of Interface Design Specification (IDS) (SAU-07-000) full data exchange via CDL. Ku-Band will be provided to DDG-1000, CVN-78 Class and LCS platforms. Aircraft Ship Integrated Secure and Traverse (ASIST) reduces operational requirements aboard ships by eliminating the need for hauldown capability and providing automatic movements for aircraft on deck. The MH-60R is Post-Milestone III; executing Pre-Planned Product Improvements (P3I) to Air Vehicle and Mission systems. P3I includes upgrades to communication, navigation, Identification Friend or Foe (IFF), Multi-Spectral Targeting System (MTS)/Forward Looking Infrared Radar (FLIR), Automatic Radar Periscope Detection and Discrimination (ARPDD), weapons, data link, safety, maintenance, airframe and mission planning systems. IFF Mode 5 Interrogator capability is being embedded into the APS-147 Radar to provide positive determination of friendly combatants beyond visual range. ARPDD funding prior to FY2008 was in PE 0604261N/4017. This PE includes Congressional Add funding: M230 30 MM Chain Gun Automatic Cannon.											

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
1319: Research, Development, Test & Evaluation, Navy BA 5: Development & Demonstration (SDD)		PE 0604216N: Multi-Mssn Helicopter Upgrade Dev			
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	69.839	81.953	0.000	0.000	0.000
Current President's Budget	67.891	75.284	55.792	0.000	55.792
Total Adjustments	-1.948	-6.669	55.792	0.000	55.792
• Congressional General Reductions		-0.314			
• Congressional Directed Reductions		-10.100			
• Congressional Rescissions	0.000	-0.015			
• Congressional Adds		3.760			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	-1.948	0.000			
• Program Adjustments	0.000	0.000	55.792	0.000	55.792
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 9999: Congressional Adds					
Congressional Add: M230 30mm Chain Gun Automatic Cannon					
Congressional Add Subtotals for Project: 9999					
Congressional Add Totals for all Projects					
Change Summary Explanation					
Technical: Not applicable.					
Schedule: Not applicable.					
FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.					

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Navy								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604216N: <i>Multi-Mssn Helicopter Upgrade Dev</i>				<b>PROJECT</b> 1707: <i>MH-60R Development</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
1707: <i>MH-60R Development</i>	67.891	71.540	55.792	0.000	55.792	15.244	3.247	0.000	0.000	0.000	1,125.073
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
<b>A. Mission Description and Budget Item Justification</b> The primary mission areas of the MH-60R include Anti-Submarine Warfare (ASW) and Surface Warfare (SUW). Secondary mission areas include Search and Rescue (SAR), Vertical Replenishment (VERTREP), Naval Surface Fire Support (NSFS), logistics support, personnel transport and Medical Evacuation (MEDEVAC). The MH-60R provides direct support to the Carrier Strike Group and provides Link Communications Relay (COMREL) via VHF/UHF, Link-16, and Common Data Link (CDL) with the incorporation of Interface Design Specification (IDS) (SAU-07-000) full data exchange via CDL. Ku-Band will be provided to DDG-1000, CVN-78 Class and LCS platforms. Aircraft Ship Integrated Secure and Traverse (ASIST) reduces operational requirements aboard ships by eliminating the need for hauldown capability and providing automatic movements for aircraft on deck. The MH-60R is Post-Milestone III; executing Pre-Planned Product Improvements (P3I) to Air Vehicle and Mission systems. P3I includes upgrades to communication, navigation, Identification Friend or Foe (IFF), Multi-Spectral Targeting System (MTS)/Forward Looking Infrared Radar (FLIR), Automatic Radar Periscope Detection and Discrimination (ARPDD), weapons, data link, safety, maintenance, airframe and mission planning systems. IFF Mode 5 Interrogator capability is being embedded into the APS-147 Radar to provide positive determination of friendly combatants beyond visual range.											
<b>B. Accomplishments/Planned Program (\$ in Millions)</b>											
						<b>FY 2009</b>	<b>FY 2010</b>	<b>FY 2011 Base</b>	<b>FY 2011 OCO</b>	<b>FY 2011 Total</b>	
Avionics H/W and S/W Development Supports aircraft integration, problem investigation and resolution, lab management and upgrades, hardware investigations, and repairs in support of the test program. Provides for ILS support and Program Management Board Support and subvendor support. Avionics hardware and software development and integration to include: P3I/Link-16, Radar (ARPDD), IFF Mode 5 interrogator, Communications, GPS, Acoustics and post processing. Mission planning, MTS/FLIR, Weapons, Stores and self defense, Data fusion, and Logistics products including Integrated Electronic Technical Manuals (IETMS). ARPDD provides an automated periscope detection, classification, and tracking capability to						44.644	34.848	38.347	0.000	38.347	

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
reliably detect periscopes and masts, and reliably discriminate periscopes from clutter and confusion targets. This capability is suitable for air and surface platforms.  FY 2009 Accomplishments: Completed Automatic Radar Periscope Detection and Discrimination (ARPDD) PDR and ARPDD CDR; Continued ARPDD SDD, and P3I integration testing.  FY 2010 Plans: Continue ARPDD SDD, P3I integration testing, and conduct ARPDD integrated testing.  FY 2011 Base Plans: Continue ARPDD SDD, P3I integration testing, and ARPDD integrated testing.						
Engineering , Integration, and Testing  Airframe test articles, engineering support, GFE, and risk management board support. Integration and testing of P3I. ASIST integration to support aircraft movement aboard ships.  FY 2009 Accomplishments: Completed design/integration of Aircraft Ship Integrated Secure and Traverse effort.		1.600	0.000	0.000	0.000	0.000
Common Data Link  Avionics P3I Upgrade for the Common Data Link (CDL) and reversability between C-Band and KuBand software design interface (SAU-07-000) provides connectivity and full data exchange with DDG-1000, LCS and CVN-78 Class.  FY 2009 Accomplishments: Completed CDL integrated testing and conducted SAU-07-000 testing.		6.369	14.372	0.600	0.000	0.600

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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: Continue SAU-07-000 testing.						
FY 2011 Base Plans: Continue SAU-07-000 testing.						
Engineering and Logistics		9.731	13.672	11.138	0.000	11.138
FY 2009 Accomplishments: Provided engineering specialists, Integrated Logistics Support (ILS), Government Furnished Equipment (GFE), Systems Engineering (SE), Program Management (PM), Contractor Support Services (CSS), and travel as required to support the MH-60R development program and test activities to complete ARPDD PDR and ARPDD CDR; Continue ARPDD SDD, P3I integration testing, CDL integrated testing, design/integration of ASIST effort and conduct SAU-07-000 testing.						
FY 2010 Plans: Continue to provide engineering specialists, ILS, GFE, SE, PM, CSS, and travel to support P3I integration testing, SAU-07-000 testing, ARPDD SDD, and conduct ARPDD integrated testing.						
FY 2011 Base Plans: Continue to provide engineering specialists, ILS, GFE, SE, PM, CSS, and travel to support P3I integration testing, SAU-07-000 testing, ARPDD SDD, and conduct ARPDD integrated testing.						
Avionics Testing and Evaluation		5.547	8.648	5.707	0.000	5.707
FY 2009 Accomplishments: Provided MH-60R Mission Avionics testing, Avionics Mission P3I, and ARPDD testing and evaluation efforts.						

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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: Continue to provide MH-60R Mission Avionics testing, Avionics Mission P3I, and ARPDD testing and evaluation efforts.											
FY 2011 Base Plans: Continue to provide MH-60R Mission Avionics testing, Avionics Mission P3I, and ARPDD testing and evaluation efforts. Begin IFF Mode 5 Interrogator testing and evaluation efforts.											
Accomplishments/Planned Programs Subtotals						67.891	71.540	55.792	0.000	55.792	
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
• APN-1 BLI:018200: MH-60R	1,170.822	931.706	1,059.939	0.000	1,059.939	1,002.497	1,010.672	1,238.559	1,268.377	946.186	12,305.720
• APN-6 BLI: 060510: MH-60R	1.977	1.835	45.288	0.000	45.288	28.700	0.897	0.000	0.000	0.000	267.498
• APN-5 BLI: 053000: SH60 Series	21.488	34.259	23.985	0.000	23.985	38.601	55.865	59.366	58.232	562.532	881.484
D. Acquisition Strategy											
Initial Operating Capability (IOC) was achieved in Dec 05 and the MSIII, Full Rate Production (FRP) decision occurred in March 2006. As the SH-60B and SH-60F reach the end of their service life, the MH-60R serves as the replacement weapon system. The MH-60R weapon system began fielding in FY2006. The mission systems include Common Cockpit, ALFS, sonobuoy launcher, COTS Acoustics Processor, ESM, MTS/FLIR system, MMR, ARPDD, CDL Hawklink, ISD and weapons capability. Pre-Planned Product Improvement (P3I) upgrades will be integrated, tested, and fielded to ensure increased capabilities are provided to the Fleet User.											
E. Performance Metrics											
Successfully achieve IOC for the Automatic Radar Periscope Detection and Discriminator upgrade to the MH-60R Multi-Mode Radar. Improve ESM MDL performance prior to next operational deployment and determine if any long term ESM software/hardware fixes are required. Determine solutions to the Automatic Video Tracking (AVT) lock and Eye-safe Laser Range Finder (ELRF) labeling prior to next operational deployment.											

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<b>Product Development (\$ in Millions)</b> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th rowspan="2">Cost Category Item</th> <th rowspan="2">Contract Method &amp; Type</th> <th rowspan="2">Performing Activity &amp; Location</th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> </tr> </thead> <tbody> <tr> <td>Primary Hdw Dev, Airframe (SAC)</td> <td>SS/CPAF</td> <td>Sikorsky Stratford, CT</td> <td align="right">81.177</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">81.177</td> <td align="right">81.177</td> </tr> <tr> <td>Primary Hdw Dev, Avionics (LMSI)</td> <td>SS/CPFF</td> <td>Lockheed Martin Owego, NY</td> <td align="right">769.701</td> <td align="right">34.848</td> <td>Jan 2010</td> <td align="right">38.347</td> <td>Nov 2010</td> <td align="right">0.000</td> <td></td> <td align="right">38.347</td> <td align="right">5.862</td> <td align="right">848.758</td> <td align="right">848.758</td> </tr> <tr> <td>Primary Hdw Dev, Avionics (CDL)</td> <td>SS/CPAF</td> <td>Harris Melbourne, FL</td> <td align="right">45.343</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">45.343</td> <td align="right">45.343</td> </tr> <tr> <td>Primary Hdw Dev, Avionics (SAU)</td> <td>SS/CPIF</td> <td>Lcokheed Martin Owego, NY</td> <td align="right">4.400</td> <td align="right">2.000</td> <td>Feb 2010</td> <td align="right">0.600</td> <td>Feb 2011</td> <td align="right">0.000</td> <td></td> <td align="right">0.600</td> <td align="right">0.000</td> <td align="right">7.000</td> <td align="right">7.000</td> </tr> <tr> <td>Primary Hdw Dev, Avionics (CDL)</td> <td>C/TBD</td> <td>TBD TBD</td> <td align="right">0.000</td> <td align="right">12.372</td> <td>Mar 2010</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">12.372</td> <td align="right">12.372</td> </tr> <tr> <td>GFE</td> <td>Various/ Various</td> <td>Various Not Specified</td> <td align="right">4.688</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">4.688</td> <td align="right">4.688</td> </tr> <tr> <td>All Product Dev Cost from FY93-FY09</td> <td>Various/ Various</td> <td>Various Not Specified</td> <td align="right">149.181</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">149.181</td> <td align="right">149.181</td> </tr> <tr> <td align="right" colspan="3"><b>Subtotal</b></td><td align="right">1,054.490</td><td align="right">49.220</td><td></td><td align="right">38.947</td><td></td><td align="right">0.000</td><td></td><td align="right">38.947</td><td align="right">5.862</td><td align="right">1,148.519</td><td align="right">1,148.519</td></tr> </tbody> </table>														Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Primary Hdw Dev, Airframe (SAC)	SS/CPAF	Sikorsky Stratford, CT	81.177	0.000		0.000		0.000		0.000	0.000	81.177	81.177	Primary Hdw Dev, Avionics (LMSI)	SS/CPFF	Lockheed Martin Owego, NY	769.701	34.848	Jan 2010	38.347	Nov 2010	0.000		38.347	5.862	848.758	848.758	Primary Hdw Dev, Avionics (CDL)	SS/CPAF	Harris Melbourne, FL	45.343	0.000		0.000		0.000		0.000	0.000	45.343	45.343	Primary Hdw Dev, Avionics (SAU)	SS/CPIF	Lcokheed Martin Owego, NY	4.400	2.000	Feb 2010	0.600	Feb 2011	0.000		0.600	0.000	7.000	7.000	Primary Hdw Dev, Avionics (CDL)	C/TBD	TBD TBD	0.000	12.372	Mar 2010	0.000		0.000		0.000	0.000	12.372	12.372	GFE	Various/ Various	Various Not Specified	4.688	0.000		0.000		0.000		0.000	0.000	4.688	4.688	All Product Dev Cost from FY93-FY09	Various/ Various	Various Not Specified	149.181	0.000		0.000		0.000		0.000	0.000	149.181	149.181	<b>Subtotal</b>			1,054.490	49.220		38.947		0.000		38.947	5.862	1,148.519	1,148.519
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**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
Government Engineering Support	WR	NAWC AD Patuxent River, MD	7.397	5.285	Jan 2010	4.561	Nov 2010	0.000		4.561	2.423	19.666	Continuing
Government Engineering Support	WR	NAWC WD China Lake, CA	8.740	3.745	Nov 2009	3.610	Nov 2010	0.000		3.610	0.761	16.856	Continuing
Government Engineering Support	WR	Pacific Missile Range PMRF, HI	0.183	1.487	Jan 2010	0.000		0.000		0.000	0.000	1.670	Continuing
Government Engineering Support	Various/ Various	Various Various	1.134	1.545	Dec 2009	1.357	Nov 2010	0.000		1.357	0.574	4.610	Continuing
All Product Dev Cost From FY93-FY09	Various/ Various	Various Various	123.294	0.000		0.000		0.000		0.000	0.000	123.294	Continuing
<b>Subtotal</b>			140.748	12.062		9.528		0.000		9.528	3.758	166.096	

**Remarks**

**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
Developmental Test & Evaluation	WR	NAWC AD Patuxent River, MD	118.697	8.398	Nov 2009	5.212	Nov 2010	0.000		5.212	7.231	139.538	Continuing

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<b>Test and Evaluation (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Operation Test & Evaluation	WR	COMOPTEVFOR Norfolk, VA	10.730	0.250	Dec 2009	0.495	Nov 2010	0.000		0.495	2.887	14.362	Continuing
All T&E costs from FY93-FY09	Various/ Various	various various	11.688	0.000		0.000		0.000		0.000	0.000	11.688	Continuing
<b>Subtotal</b>			141.115	8.648		5.707		0.000		5.707	10.118	165.588	
<b>Remarks</b>													
<b>Management Services (\$ in Millions)</b>													
				<b>FY 2010</b>		<b>FY 2011 Base</b>		<b>FY 2011 OCO</b>		<b>FY 2011 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Total Prior Years Cost</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Contractor Engineering Support	Various/ Various	Various Various	24.566	0.910	Nov 2009	0.910	Nov 2010	0.000		0.910	0.000	26.386	Continuing
Travel	WR	NAWC AD Patuxent River, MD	3.825	0.700	Nov 2009	0.700	Nov 2010	0.000		0.700	0.000	5.225	Continuing
All Mangement cost from FY03- FY09	Various/ Various	Various Various	9.667	0.000		0.000		0.000		0.000	0.000	9.667	Continuing
<b>Subtotal</b>			38.058	1.610		1.610		0.000		1.610	0.000	41.278	
<b>Remarks</b>													

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<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2011 Navy							<b>DATE:</b> February 2010		
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604216N: <i>Multi-Mssn Helicopter Upgrade Dev</i>			<b>PROJECT</b> 1707: <i>MH-60R Development</i>		
<b>Remarks</b>									

	Total Prior Years Cost	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	1,374.411	71.540	55.792	0.000	55.792	19.738	1,521.481	1,148.519

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2011 Navy			<b>DATE:</b> February 2010
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>	<b>R-1 ITEM NOMENCLATURE</b> PE 0604216N: <i>Multi-Mssn Helicopter Upgrade</i> Dev	<b>PROJECT</b> 1707: <i>MH-60R Development</i>	

**Schedule Details**

Event	Start		End	
	Quarter	Year	Quarter	Year
Multi-Year Award (Lockheed/SAC)	1	2009	1	2015
P3I Integrated Test (IT-III)	1	2009	2	2011
ARPDD SDD	1	2009	4	2012
CDL Integrated Test	1	2009	2	2009
ARPDD PDR	1	2009	1	2009
ARPDD CDR	3	2009	3	2009
SAU-07-000 Test	3	2010	3	2011
ARPDD Integrated Test	3	2010	2	2012
ARPDD OT	3	2012	4	2012
ARPDD IOC	4	2013	4	2013
Production Deliveries	1	2009	3	2013

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Navy								<b>DATE:</b> February 2010			
<b>APPROPRIATION/BUDGET ACTIVITY</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy</i> BA 5: <i>Development &amp; Demonstration (SDD)</i>				<b>R-1 ITEM NOMENCLATURE</b> PE 0604216N: <i>Multi-Mssn Helicopter Upgrade Dev</i>				<b>PROJECT</b> 9999: <i>Congressional Adds</i>			
<b>COST (\$ in Millions)</b>	<b>FY 2009 Actual</b>	<b>FY 2010 Estimate</b>	<b>FY 2011 Base Estimate</b>	<b>FY 2011 OCO Estimate</b>	<b>FY 2011 Total Estimate</b>	<b>FY 2012 Estimate</b>	<b>FY 2013 Estimate</b>	<b>FY 2014 Estimate</b>	<b>FY 2015 Estimate</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
9999: <i>Congressional Adds</i>	0.000	3.744	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.378
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
<b>A. Mission Description and Budget Item Justification</b> Congressional Add											
<b>B. Accomplishments/Planned Program (\$ in Millions)</b>											
							<b>FY 2009</b>	<b>FY 2010</b>			
Congressional Add: M230 30mm Chain Gun Automatic Cannon							0.000	3.744			
<i>FY 2010 Plans:</i> M230 Cannon Qualification and 30MM Ammunition evaluation											
Congressional Adds Subtotals							0.000	3.744			
<b>C. Other Program Funding Summary (\$ in Millions)</b> N/A											
<b>D. Acquisition Strategy</b> Not required for Congressional Adds											
<b>E. Performance Metrics</b> Not required for Congressional Adds											

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