

EXHIBIT R-2, RDT&E Budget Item Justification							DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY						R-1 ITEM NOMENCLATURE		
RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY /						0604212N, OTHER HELO DEVELOPMENT		
BA 5								
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
Total PE Cost	182.840	79.894	86.197	44.853	25.576	8.033	7.947	
1109 CH/MH-53	2.305	2.429	2.514	2.596	2.652	2.717	2.783	
2415 MH-60S DEVELOPMENT	80.599	77.465	83.683	42.257	22.924	5.316	5.164	
3059 CH-53E SLEP*	99.033							
9055 SH-60 LASER AIM SCORING SYSTEM (LASS)	.903							

\*Details for 3059 reported under Program Element 0605212N

**A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:**

1109 - The H-53 helicopter is the premier heavy lift helicopter for the Marine Corps and the only operational airborne mine sweeping platform for the Navy. Through FY2011, H-53 efforts will continue to develop and qualify components, prior to production approval decisions, in order to replace obsolete system components. Emphasis will be placed on incorporating supportability improvement modifications that will sustain the H-53 aircraft through the year 2025 until the transition to the H-53X is complete. These efforts, combined, will significantly improve the readiness of the H-53 fleet while reducing long term operational and supportability costs. H-53 RDT&E efforts will focus on trade studies and risk reduction measures to identify candidate survivability, safety, avionics, cargo handling, cockpit and other airframe specific improvements to extend the service life to 2025.

2415 - The Helicopter Combat Support (HC) mission is to maintain forward deployed fleet sustainability through rapid airborne delivery of materials and personnel and to support amphibious operations through search and rescue coverage. The primary roles of the aircraft are to conduct vertical replenishment (VERTREP), day/night ship-to-ship, ship-to-shore, and shore-to-ship external transfer of cargo; internal transport of passengers, mail and cargo, vertical on board delivery (VOD); airhead operations, and day/night search and rescue (SAR), Organic Airborne Mine Countermeasures (OAMCM) and Armed Helo. The MH-60S ORD was modified in May 2000 to add Organic Airborne Mine Countermeasures (OAMCM) as a primary mission for the MH-60S. The AMCM mission will provide Carrier Strike Groups (CSGs) and Expeditionary Strike Groups (ESGs) with an OAMCM capability. The Armed Helo will provide Combat Search and Rescue (CSAR), Surface Warfare (SUW) and Maritime Interdiction Operations (MIO) to include Link 16. The aircraft secondary roles include torpedo and drone recovery, noncombatant evacuation operations (NEO), Sea Air Land (SEAL) and Explosive Ordnance Disposal (EOD) support.

9055 - The Laser Aim Scoring System (LASS) provides real-time, quantitative feedback on critical aspects of laser guided weapon employment not currently available from existing Navy laser scoring systems. This feedback has been proven to significantly improve flight crew weapon delivery capabilities during nearly a decade of use by the U.S. Army. The system consists of three major components: A Base Station, Target Kit and Aircraft Flight Data Unit. LASS will be adapted to existing Navy seaborne target to support Navy H-60 armed helicopter training and readiness events requiring laser scoring capability.

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APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME				PROJECT NUMBER AND NAME			
RDT&E, N /		BA 5				0604212N, OTHER HELO DEVELOPMENT			H1109, CH/MH-53
COST (\$ in Millions)		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
H1109 CH/MH-53		2.305	2.429	2.514	2.596	2.652	2.717	2.783	
RDT&E Articles Qty									

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<p>B. ACCOMPLISHMENTS / PLANNED PROGRAM:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th></th> </tr> <tr> <td><b>H-53 Avionics</b></td> <td style="text-align: center;">.407</td> <td style="text-align: center;">.357</td> <td style="text-align: center;">.339</td> <td></td> </tr> <tr> <td>RDT&amp;E Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Trade studies, risk reduction, design, development, model, integration and test activities for cockpit and avionics improvements for the H-53 avionics systems and associated subsystems. Integrate software applique for cockpit and avionics improvements, to include the development of new sensors and the impact in flight control computers. Conduct Business Case Analyses to determine impact of high Operation and Support (O&amp;S) cost drivers and address alternatives for obsolescence issues.</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th></th> </tr> <tr> <td><b>H-53 Survivability</b></td> <td style="text-align: center;">.361</td> <td style="text-align: center;">.168</td> <td style="text-align: center;">.171</td> <td></td> </tr> <tr> <td>RDT&amp;E Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Trade studies, risk reduction, design, development, model, integration and test activities for H-53 survivability systems to include effectiveness of the ballistic vulnerability (armor) package.</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th></th> </tr> <tr> <td><b>H-53 Propulsion</b></td> <td style="text-align: center;">1.053</td> <td style="text-align: center;">1.217</td> <td style="text-align: center;">1.259</td> <td></td> </tr> <tr> <td>RDT&amp;E Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Trade studies, risk reduction, design, development, integration and test activities for H-53 T64 engine and related systems.</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th></th> </tr> <tr> <td><b>Project Management Support</b></td> <td style="text-align: center;">.484</td> <td style="text-align: center;">.538</td> <td style="text-align: center;">.556</td> <td></td> </tr> <tr> <td>RDT&amp;E Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>In-house, field activities, and contractors support of Integrated Product Teams (IPTs) to allow for studies and analyses, preparation of acquisition documentation and examination of equipment and avionics for the H-53. Efforts include, but are not limited to, government development support, engineering support, program management support, systems engineering and logistics support, and travel for the H-53 program.</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>FY 2005</th> <th>FY 2006</th> <th>FY 2007</th> <th></th> </tr> <tr> <td><b>H-53 Airframe</b></td> <td style="text-align: center;">.000</td> <td style="text-align: center;">.149</td> <td style="text-align: center;">.189</td> <td></td> </tr> <tr> <td>RDT&amp;E Articles Qty</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>Trade studies, risk reduction, design, development, integration and test activities for the H-53 airframe to include, but not limited to, main rotorhead, cowlings, aircraft structure, drive train, and various dynamic components.</p> </div>						FY 2005	FY 2006	FY 2007		<b>H-53 Avionics</b>	.407	.357	.339		RDT&E Articles Qty						FY 2005	FY 2006	FY 2007		<b>H-53 Survivability</b>	.361	.168	.171		RDT&E Articles Qty						FY 2005	FY 2006	FY 2007		<b>H-53 Propulsion</b>	1.053	1.217	1.259		RDT&E Articles Qty						FY 2005	FY 2006	FY 2007		<b>Project Management Support</b>	.484	.538	.556		RDT&E Articles Qty						FY 2005	FY 2006	FY 2007		<b>H-53 Airframe</b>	.000	.149	.189		RDT&E Articles Qty				
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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2006
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N /</b>	<b>BA 5</b>	PROGRAM ELEMENT NUMBER AND NAME <b>0604212N, OTHER HELO DEVELOPMENT</b>	PROJECT NUMBER AND NAME H1109, CH/MH-53
C. PROGRAM CHANGE SUMMARY			
Funding:			
Previous President's Budget:	FY 2005 2.381	FY 2006 2.466	FY 2007 2.531
Current President's Budget:	2.305	2.429	2.514
Total Adjustments	-0.076	-0.037	-0.017
Summary of Adjustments			
Congressional Reductions			
Congressional Rescissions			
Congressional Undistributed Reductions	-0.033	-0.026	
Congressional Increases	0.001		
Economic Assumptions		-0.011	0.012
Miscellaneous Adjustments	-0.044		-0.029
Subtotal	-0.076	-0.037	-0.017
Schedule:			
Schedule slip due to emerging requirements in FY05 which forced the program office to defer the greater portion of the effort into 4th quarter FY06. In addition the complexity of the effort was greater than originally anticipated.			
Technical:			
Not Applicable			

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APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 5			PROGRAM ELEMENT NUMBER AND NAME 0604212N, OTHER HELO DEVELOPMENT					PROJECT NUMBER AND NAME H1109, CH/MH-53			
D. OTHER PROGRAM FUNDING SUMMARY:											
Not Applicable			FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
E. ACQUISITION STRATEGY:											
This is a non-ACAT program with no specific acquisition strategies.											

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Exhibit R-3 Cost Analysis (page 1)									DATE:		February 2006		
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /		PROGRAM ELEMENT 0604212N, OTHER HELO DEVELOPMENT				PROJECT NUMBER AND NAME H1109, CH/MH-53							
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
PRODUCT DEVELOPMENT													
Primary Hardware Development	VARIOUS	VARIOUS	1.097	.053	Various	.233	Various	.228	Various	Continuing	Continuing		
Ancillary Hardware Development	VARIOUS	VARIOUS	1.284			.105	Various	.067	Various	Continuing	Continuing		
Training Development	WX	NAWCAD, PATUXENT RIVER MD	.311							Continuing	Continuing		
Systems Engineering	WX	NAWCAD, PATUXENT RIVER MD		.098	1/15/2005	.461	Various	.531	Various	Continuing	Continuing		
SUBTOTAL PRODUCT DEVELOPMEN			2.692	.151		.799		.826		Continuing	Continuing		
Remarks:													
SUPPORT													
Developmental Support	WX	NAWCAD, PATUXENT RIVER MD	.406	.595	Various					Continuing	Continuing		
Software Development	VARIOUS	VARIOUS	.327			.131	Various	.172	Various	Continuing	Continuing		
Technical Data	VARIOUS	VARIOUS	.194								.194		
Studies & Analyses	VARIOUS	VARIOUS	2.754							Continuing	Continuing		
GFE	WX	NAWCAD, PATUXENT RIVER MD	.125			.360	Various	.337	Various	Continuing	Continuing		
SUBTOTAL SUPPORT			3.806	.595		.491		.509		Continuing	Continuing		
Remarks:													
Developmental Test & Evaluation	VARIOUS	VARIOUS	1.635			.601	Various	.623	Various	Continuing	Continuing		
Operational Test & Evaluation	WX	COMOPTEVFOR	.130								.130		
Live Fire Test & Evaluation (LFT&E)	WX	NAWCAD, PATUXENT RIVER MD		.197	Various					Continuing	Continuing		
SUBTOTAL TEST & EVALUATION			1.765	.197		.601		.623		Continuing	Continuing		
Remarks:													
MANAGEMENT													
Govt Supt (Survivability - Des&Analysis)	WX	NAWCAD, PATUXENT RIVER MD	.180	1.348	Various	.129	Various	.141	Various	Continuing	Continuing		
Program Management Support	VARIOUS	VARIOUS	.380	.014	Various	.312	Various	.317	Various	Continuing	Continuing		
Travel	TO	NAVAIR HQ	.706			.097	Various	.098	Various	Continuing	Continuing		
SUBTOTAL MANAGEMENT			1.266	1.362		.538		.556		Continuing	Continuing		
Remarks:													
Total Cost			9.529	2.305		2.429		2.514		Continuing	Continuing		
Remarks:													

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## CLASSIFICATION:

EXHIBIT R4, Schedule Profile																				DATE:								
APPROPRIATION/BUDGET ACTIVITY					PROGRAM ELEMENT NUMBER AND NAME										PROJECT NUMBER AND NAME													
RDT&E, N /					0604212N OTHER HELO DEVELOPMENT										1109 CH/MH-53													
Fiscal Year	2005				2006				2007				2008				2009				2010				2011			
	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
Program Milestones																												
Engineering Milestones																												
Aircraft Survivability Assmt																												
Armor Threat Assessment & Selection Test																												
Engine Armor Package																												
Cockpit Upgrade Architecture Selection																												
Baseline Vulnerability Study																												
AFCS Computer																												
Hydraulic & Electric Actuator Assessment																												
Fuel Sponson Ballistic Vulnerability Assessment																												
Obsolescence Issues/Studies																												
Survivability Analysis																												
Legacy P3I Efforts																												
T&E Milestones				△																								
				Complete Initial Phase - Live-Fire Vulnerability Test																								

△  
Complete Initial Phase -  
Live-Fire Vulnerability Test

R-1 SHOPPING LIST - Item No. 84

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## CLASSIFICATION:

Exhibit R-4a, Schedule Detail					DATE: <b>February 2006</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;BA-5</b>				PROJECT NUMBER AND NAME 1109 CH/MH-53			
Schedule Profile	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Aircraft Survivability Assessment	1Q-4Q	1Q-4Q					
Armor Threat Assessment & Selection Test	1Q-4Q	1Q-4Q					
Cockpit Upgrade Architecture Selection	1Q-4Q	1Q-4Q					
Baseline Vulnerability Study	1Q-4Q	1Q-4Q					
Hydraulic & Electric Actuator Assessment	1Q-4Q						
Fuel Sponson Ballistic Vulnerability Assessment	1Q-4Q						
Obsolescence Issues/Studies		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Survivability Analysis		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Legacy P3I Efforts		1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Engine Armor	1Q-4Q	1Q-4Q					
AFCE Obsolescence Study	1Q-4Q	1Q-4Q					
Live Fire Vulnerability Test	4Q						

R-1 SHOPPING LIST - Item No. 84



EXHIBIT R-2a, RDT&E Project Justification								DATE:
								February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME	
RDT&E, N /		BA 5 0604212N, OTHER HELO DEVELOPMENT					2415, MH-60S DEVELOPMENT	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
2415 MH-60S DEVELOPMENT	80.599	77.465	83.683	42.257	22.924	5.316	5.164	
RDT&E Articles Qty								

## A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

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<p>C. PROGRAM CHANGE SUMMARY</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Funding:</th> <th style="text-align: right;">FY 2005</th> <th style="text-align: right;">FY 2006</th> <th style="text-align: right;">FY 2007</th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget:</td> <td style="text-align: right;">80.127</td> <td style="text-align: right;">78.646</td> <td style="text-align: right;">80.282</td> </tr> <tr> <td>Current President's Budget:</td> <td style="text-align: right;">80.599</td> <td style="text-align: right;">77.465</td> <td style="text-align: right;">83.683</td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: right;">0.472</td> <td style="text-align: right;">-1.181</td> <td style="text-align: right;">3.401</td> </tr> <tr> <td colspan="4" style="padding-top: 10px;">Summary of Adjustments</td> </tr> <tr> <td>    Congressional Reductions</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Congressional Rescissions</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Congressional Undistributed Reductions</td> <td style="text-align: right;">-1.717</td> <td style="text-align: right;">-0.823</td> <td></td> </tr> <tr> <td>    Congressional Increases</td> <td style="text-align: right;">0.018</td> <td></td> <td></td> </tr> <tr> <td>    Economic Assumptions</td> <td></td> <td style="text-align: right;">-0.358</td> <td style="text-align: right;">0.699</td> </tr> <tr> <td>    Miscellaneous Adjustments</td> <td style="text-align: right;">2.171</td> <td></td> <td style="text-align: right;">2.702</td> </tr> <tr> <td style="text-align: right;">Subtotal</td> <td style="text-align: right;">0.472</td> <td style="text-align: right;">-1.181</td> <td style="text-align: right;">3.401</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Schedule:</p> <p>AMCM - Initial Operating Capability (IOC) for Block 2A has been moved to 4th quarter FY07 per the program rebaseline approved by ASN(RD&amp;A) on 4 April 05. IPR III has moved to third quarter FY06 to align with CT completion. Block 2B CDR has been rescheduled due to contract award delays resulting from program restructuring. AMCM Block 2A CT has been extended to address issues with CSTRS discovered during CT testing. As a result, DT and OT have been delayed. The schedule for 2B testing is reflecting overlap of CT/DT and DT/OT test periods for the three separate systems (OASIS, ALMDS, AMNS). OASIS, ALMDS &amp; AMNS OT periods and RAMICS testing have been moved due to the reprogramming of the OAMCM program.</p> <p>Link 16 - IPR I (completed) and Contractor Testing (CT) have been moved due to updated estimates associated with contract award. Contract award was delayed awaiting IPR I. As a result, IPR II and III and Developmental Testing (DT) and Operational Testing (OT) have been delayed. SDR, PDR and CDR have been moved one quarter each due to contract award delays.</p> <p style="margin-top: 40px;">Technical: N/A</p>					Funding:	FY 2005	FY 2006	FY 2007	Previous President's Budget:	80.127	78.646	80.282	Current President's Budget:	80.599	77.465	83.683	Total Adjustments	0.472	-1.181	3.401	Summary of Adjustments				Congressional Reductions				Congressional Rescissions				Congressional Undistributed Reductions	-1.717	-0.823		Congressional Increases	0.018			Economic Assumptions		-0.358	0.699	Miscellaneous Adjustments	2.171		2.702	Subtotal	0.472	-1.181	3.401
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UNCLASSIFIED R-1 Shopping List Item No 84 Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, Page 12 of 21)

## UNCLASSIFIED

Exhibit R-3 Cost Analysis (page 1)									DATE:				February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /		PROGRAM ELEMENT 0604212N, OTHER HELO DEVELOPMENT				PROJECT NUMBER AND NAME 2415, MH-60S DEVELOPMENT								
BA 5														
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 2005 Cost	FY 2005 Award Date	FY 2006 Cost	FY 2006 Award Date	FY 2007 Cost	FY 2007 Award Date	Cost to Complete	Total Cost	Target Value of Contract		
PRODUCT DEVELOPMENT														
GFE	SS/FFP	HONEYWELL TECH SOL INC, NM	1.100	1.250	6/10/2005						2.350	2.350		
Primary Hdw Development -AIRFRAME	*SS/CPIF	SIKORSKY AIRCRAFT, STRATFORD, CT	71.260	27.793	2/17/2005	23.357	12/30/2005	20.923	12/30/2006	17.354	160.687	160.687		
Primary Hdw Development -AVIONICS	*SS/CPIF	LOCKHEED MARTIN CORP, OWEGO, NY	75.668	32.142	1/12/2005	30.513	12/30/2005	30.730	12/30/2006	18.856	187.909	187.909		
Primary Hdw Development - CSTRS	**SS/CPFF	CONCURRENT TECHNOLOGIES CORP, PA	31.475	4.828	VARIOUS						36.303	36.303		
Primary Hdw Development - CSTRS	VARIOUS	VARIOUS		1.365	VARIOUS	1.820	VARIOUS	3.397	VARIOUS	2.842	9.424			
Training Development AIRFRAME	WX/RX	NAWCAD, PAX RIVER MD & NAWC TSD	1.068	.050	11/30/2004	.250	12/30/2005	.250	12/30/2006		1.618			
Training Development AVIONICS	WX/RX	NAWCAD, PAX RIVER MD & NAWC TSD	1.068	.050	11/30/2004	.250	12/30/2005	.250	12/30/2006		1.618			
All Product Dev Cost from FY97 - FY04	VARIOUS	VARIOUS	7.739								7.739			
SUBTOTAL PRODUCT DEV			189.378	67.478		56.190		55.550		39.052	407.648			
Remarks:*PYs SS/CPAF - \$3.715 FY05-07 SS/CPIF **PYs SS/CPAF, FY05 CPFF														
SUPPORT														
ILS - MSS (NON-FFRDC) AIRFRAME	VARIOUS	VARIOUS	.285	.137	VARIOUS	.125	VARIOUS	.125	VARIOUS	.325	.997			
ILS - MSS (NON-FFRDC) AVIONICS	VARIOUS	VARIOUS		.137	VARIOUS	.125	VARIOUS	.125	VARIOUS	.325	.712			
Integrated Logistics Sup AIRFRAME	VARIOUS	VARIOUS	2.613	.365	11/30/2004	1.024	11/30/2005	1.051	11/30/2006	3.086	8.137			
Integrated Logistics Sup AVIONICS	VARIOUS	VARIOUS	2.613	.365	11/30/2004	1.024	11/30/2005	1.051	11/30/2006	3.086	8.137			
All Support Cost from FY97 - FY04	VARIOUS	VARIOUS	4.172								4.172			
SUBTOTAL SUPPORT			9.682	1.004		2.297		2.351		6.821	22.155			
Remarks:														
TEST & EVALUATION														
DT&E - ETS (NON-FFRDC) AIRFRAME	VARIOUS	VARIOUS				.253	VARIOUS	.287	VARIOUS	.220	.760			
DT&E - ETS (NON-FFRDC) AVIONICS	VARIOUS	VARIOUS				.253	VARIOUS	.287	VARIOUS	.220	.760			
Dev Test & Eval AIRFRAME	WX	NAWCAD, PATUXENT RIVER MD		1.250	11/30/2004	2.598	11/30/2005	2.970	12/30/2006	3.182	9.999			
Dev Test & Eval AIRFRAME	WX	VARIOUS	7.413	.145	VARIOUS	.947	VARIOUS	.563	VARIOUS	.548	9.615			
Dev Test & Eval AVIONICS	WX	NAWCAD, PATUXENT RIVER MD		1.250	11/30/2004	2.598	11/30/2005	2.970	12/30/2006	3.182	9.999			
Dev Test & Eval AVIONICS	WX	VARIOUS	7.413	.145	VARIOUS	.947	VARIOUS	.563	VARIOUS	.548	9.615			
Live Fire Test & Eval	WX	NAWCWD, CHINA LAKE CA	.464	.172	VARIOUS						.636			
Oper Test & Eval AIRFRAME	WX	VARIOUS						2.076	VARIOUS		2.076			
Oper Test & Eval AIRFRAME	WX	COMOPTEVFOR, NORFOLK VA				.124	VARIOUS	.600	VARIOUS	1.295	2.019			
Oper Test & Eval AVIONICS	WX	COMOPTEVFOR, NORFOLK VA				.124	VARIOUS	.600	VARIOUS	1.295	2.019			
Oper Test & Eval AVIONICS	WX	VARIOUS	.776					2.076	VARIOUS		2.852			
All Test & Eval Cost from FY97 - FY04	VARIOUS	VARIOUS	2.860								2.860			
SUBTOTAL TEST & EVALUATION			18.925	2.960		7.841		12.992		10.489	53.207			
Remarks:														

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Exhibit R-3 Cost Analysis (page 1)									DATE:			February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N /		BA 5		PROGRAM ELEMENT 0604212N, OTHER HELO DEVELOPMENT			PROJECT NUMBER AND NAME 2415, MH-60S DEVELOPMENT						
MANAGEMENT													
Contractor Eng Sup AIRFRAME	VARIOUS	VARIOUS	3.296	.540	VARIOUS	.250	VARIOUS	.250	VARIOUS	.228	4.564		
Contractor Eng Sup AVIONICS	VARIOUS	VARIOUS	2.474	.540	VARIOUS	.250	VARIOUS	.250	VARIOUS	.228	3.742		
Government Eng Sup AIRFRAME	WX	NAWCAD, PATUXENT RIVER MD	1.936	.835	11/30/2004	1.189	11/30/2005	1.148	11/30/2006	2.464	7.572		
Government Eng Sup AIRFRAME	WX	NSWC, PANAMA CITY FL	2.091	2.315	11/30/2004	2.541	11/30/2005	3.700	11/30/2006	3.903	14.550		
Government Eng Sup AIRFRAME	WX	VARIOUS	7.126			.320	VARIOUS	.477	VARIOUS	.379	8.302		
Government Eng Sup AVIONICS	WX	NAWCAD, PATUXENT RIVER MD		.835	11/30/2004	1.189	11/30/2005	1.148	11/30/2005	2.464	5.636		
Government Eng Sup AVIONICS	WX	NSWC, PANAMA CITY FL		2.315	3/1/2005	2.541	11/30/2005	3.300	11/30/2006	3.903	12.059		
Government Eng Sup AVIONICS	WX	VARIOUS	7.126			.319	VARIOUS	.477	VARIOUS	.379	8.301		
Program Mgmt CSS AVIONICS	VARIOUS	VARIOUS		.315	VARIOUS	.364	VARIOUS	.309	VARIOUS	1.168	2.155		
Program Mgmt CSS AIRFRAME	VARIOUS	VARIOUS		.315	VARIOUS	.364	VARIOUS	.309	VARIOUS	1.168	2.155		
Program Mgmt Govt Sup AIRFRAME	WX	VARIOUS	4.742	.450	VARIOUS	.755	VARIOUS	.586	VARIOUS	1.108	7.640		
Program Mgmt Govt Sup AVIONICS	WX	VARIOUS	.838	.450	VARIOUS	.755	VARIOUS	.586	VARIOUS	1.108	3.736		
Travel AIRFRAME	TO	NAVAIR HQ, PATUXENT RIVER MD	.445	.125	VARIOUS	.150	VARIOUS	.125	VARIOUS	.400	1.245		
Travel AVIONICS	TO	NAVAIR HQ, PATUXENT RIVER MD	.445	.125	VARIOUS	.150	VARIOUS	.125	VARIOUS	.400	1.245		
All Management Cost from FY97 - FY04	VARIOUS	VARIOUS	7.897								7.897		
SUBTOTAL MANAGEMENT			38.415	9.157		11.137		12.790		19.299	90.797		
Remarks:													
Total Cost			256.400	80.599		77.465		83.683		75.661	573.807		
Remarks:													

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CLASSIFICATION:

EXHIBIT R4, Schedule Profile

DATE:

**February 2005**

APPROPRIATION/BUDGET ACTIVITY

**RDT&E, N / BA-5**

PROGRAM ELEMENT NUMBER AND NAME

0604212N ASW and Other Helo Development

PROJECT NUMBER AND NAME

2415 MH-60S Development

Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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				
Acquisition Milestones																																
MH-60S AMCM Aircraft Development																																
AMCM Mission Kits CSTRS & Common Console																																
Test & Evaluation Milestones																																
MH-60S AMCM Block 2A																																
MH-60S AMCM * Block 2B (ALMDS, OASIS, ANMS) (RAMICS)																																
Production Milestones AMCM Mission Kits																																
Contract Award																																
Deliveries CSTRS																																
Common Console																																

\*Note: Block 2B time bar uses slant lines to depict the over lap of CT/DT and DT/OT test periods for the three separate systems (OASIS,ALMDS, AMNS).

R-1 SHOPPING LIST - Item No. 84

**Exhibit R-4, Schedule Profile**  
(Exhibit R-4, page 15 of 21)

R-1 Shopping List Item No 84

# UNCLASSIFIED

## CLASSIFICATION:

Exhibit R-4a, Schedule Detail

DATE:

**February 2005**

APPROPRIATION/BUDGET ACTIVITY	PROGRAM ELEMENT				PROJECT NUMBER AND NAME			
<b>RDT&amp;BA-5</b>	0604212N ASW and Other Helo Development				2415 MH-60S Development			
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Block 2A								
Ground Testing	1Q							
Contractor Test	4Q	1Q-4Q	1Q-2Q					
Initial Production Delivery (Common Consoles & CSTRS)	1Q-4Q	1Q-3Q						
Functional Configuration Audit			3Q					
Physical Configuration Audit			4Q					
Developmental Testing (DT-IIC)			2Q-4Q	1Q				
Operational Testing (OT-IIC)				1Q-2Q				
Contract Award - LRIP			1Q					
Low Rate Production (LRIP) Decision / IPR III (Qty 2)			3Q					
Initial Operational Capability - Block 2A				4Q				
Low Rate Initial Production Delivery (Common Consoles & CSTRS)			3Q	2Q				
Block 2B								
Ground Testing (ALMDS, OASIS, AMNS)			2Q-4Q	1Q				
RAMICS Ground Testing				3Q-4Q				
PDR		3Q						
CDR			1Q					
Contractor Test			1Q-4Q	1Q-3Q				
Developmental Testing (DT-IID)				2Q-4Q	1Q-2Q			
Operational Testing (OT-IID)				4Q	1Q-4Q			
RAMICS Contractor Test					2Q-4Q	1Q		
RAMICS Developmental Testing (DT-IID)						1Q-4Q	1Q	
RAMICS Operational Testing (OT-IID)							1Q-3Q	
Full Rate Production (FRP) Decision / IPR IV				2Q				
Contract Award - Production				3Q				
Full Rate Production Delivery (Common Consoles & CSTRS)					2Q-4Q	1Q-4Q	1Q-4Q	1Q-4Q
Full Operational Capability - Block 2B							4Q	

R-1 SHOPPING LIST - Item No. 84



# UNCLASSIFIED

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EXHIBIT R4, Schedule Profile																								DATE: February 2005								
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5								PROGRAM ELEMENT NUMBER AND NAME 0604212N ASW and Other Helo Development																PROJECT NUMBER AND NAME 2415 MH-60S Development								
Fiscal Year	2004				2005				2006				2007				2008				2009				2010				2011			
	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				
Acquisition Milestones																																
(Block 3B)																																
MH-60S Block 3B Development																																
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MH-60S Block 3B Development Milestones																																
Aircraft Block 3B Mod Delivery																																
Test & Evaluation Milestones																																
Contractor Test																																
Development Test																																
Operational Test																																
R-1 SHOPPING LIST - Item No. 84																																

# UNCLASSIFIED

<b>CLASSIFICATION:</b>								
Exhibit R-4a, Schedule Detail						DATE: <b>February 2005</b>		
APPROPRIATION/BUDGET ACTIVITY <b>RD&amp;E, N / BA-5</b>		PROGRAM ELEMENT 0604212N ASW and Other Helo Development			PROJECT NUMBER AND NAME 2415 MH-60S Development			
Schedule Profile - Link 16	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
BLOCK 3B								
IPR 1		2Q						
System Design, Build, and Integration	2Q-4Q	1Q-4Q	1Q-4Q					
Systems Requirements Review (SRR)		3Q						
System Design Review (SDR)		4Q						
Preliminary Design Review (PDR)			1Q					
Software Readiness Review (SRR)		3Q						
Critical Design Review (CDR)			2Q					
Aircraft Block 3B Mod Delivery				2Q				
Contractor Test (CT-IIJ)			3Q-4Q	1Q				
IPR 2			3Q					
Developmental Test Readiness Review (DTRR)				1Q				
Developmental Testing (DT-IIJ)				1Q-3Q				
Operational Test Readiness Review (OTRR)				3Q				
Operational Testing (OT-IIJ)				3Q-4Q				
IPR 3					1Q			
IOC					4Q			
R-1 SHOPPING LIST - Item No. 84								

EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2006	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA 5		PROGRAM ELEMENT NUMBER AND NAME 0604212N, OTHER HELO DEVELOPMENT					PROJECT NUMBER AND NAME 9055, SH-60 LASER AIM SCORING SYSTEM (LASS)	
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	
H9055 SH-60 LASER AIM SCORING SYSTEM (LASS)	.903							
RDT&E Articles Qty								
<p>A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:The Sea Target Laser Aim Scoring System (STLASS) provides real-time, quantitative feedback on critical aspects of laser guided weapon employment not currently available from existing Navy laser scoring systems. This feedback has been proven to significantly improve flight crew weapon delivery capabilities during nearly a decade of use by the U.S. Army. The system consists of three major components: A Base Station, Target Kit and Aircraft Flight Data Unit. STLASS will be adapted to existing Navy seaborne targets to support Navy H-60 armed helicopter training and readiness events requiring laser scoring capability.</p>								

EXHIBIT R-2a, RDT&E Project Justification				DATE: February 2006																																																	
APPROPRIATION/BUDGET ACTIVITY <b>RDT&amp;E, N / BA 5</b>		PROGRAM ELEMENT NUMBER AND NAME <b>0604212N, OTHER HELO DEVELOPMENT</b>		PROJECT NUMBER AND NAME 9055, SH-60 LASER AIM SCORING SYSTEM (LASS)																																																	
B. ACCOMPLISHMENTS / PLANNED PROGRAM:																																																					
	FY 2005	FY 2006	FY 2007																																																		
Accomplishments / Effort / Sub-total Cost	.903																																																				
RDT&E Articles Qty																																																					
Continue the design and development efforts required for adaptation of a STCLASS base station, target and flight data unit to Navy H-60 configuration requirements.																																																					
<p>C. PROGRAM CHANGE SUMMARY</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Funding:</th> <th style="text-align: right;">FY 2005</th> <th style="text-align: right;">FY 2006</th> <th style="text-align: right;">FY 2007</th> </tr> </thead> <tbody> <tr> <td>Previous President's Budget:</td> <td style="text-align: right;">0.922</td> <td></td> <td></td> </tr> <tr> <td>Current BES / President's Budget:</td> <td style="text-align: right;">0.903</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: right;">-0.019</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> </tr> <tr> <td colspan="4" style="padding-top: 10px;">Summary of Adjustments</td> </tr> <tr> <td>    Congressional Reductions</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Congressional Rescissions</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Congressional Undistributed Reductions</td> <td style="text-align: right;">-0.019</td> <td></td> <td></td> </tr> <tr> <td>    Congressional Increases</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Economic Assumptions</td> <td></td> <td></td> <td></td> </tr> <tr> <td>    Miscellaneous Adjustments</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">Subtotal</td> <td style="text-align: right;">-0.019</td> <td style="text-align: right;">0.000</td> <td style="text-align: right;">0.000</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Schedule: Not Applicable</p> <p style="margin-top: 20px;">Technical: Not Applicable</p>						Funding:	FY 2005	FY 2006	FY 2007	Previous President's Budget:	0.922			Current BES / President's Budget:	0.903	0.000	0.000	Total Adjustments	-0.019	0.000	0.000	Summary of Adjustments				Congressional Reductions				Congressional Rescissions				Congressional Undistributed Reductions	-0.019			Congressional Increases				Economic Assumptions				Miscellaneous Adjustments				Subtotal	-0.019	0.000	0.000
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EXHIBIT R-2a, RDT&E Project Justification								DATE:		February 2006			
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME					PROJECT NUMBER AND NAME						
RDT&E, N /		BA 5		0604212N, OTHER HELO DEVELOPMENT					9055, SH-60 LASER AIM SCORING SYSTEM (LASS)				
D. OTHER PROGRAM FUNDING SUMMARY:													
APN BLI-053000 H-60 Series		FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost			
		30.575	12.206	33.113	23.306	24.097	23.465	17.012	100.173	263.947			
E. ACQUISITION STRATEGY: FY05 RDT&E funding provided for Laser Aim Scoring System. The program will develop an aircrew training system which provides real-time feedback to H-60 flight crews on the effectiveness in designating targets with Laser energy through a forward looking infrared. The system will track effectiveness and tactical proficiency. If system proves effective, units may be purchased through fleet training funds.													