

UNCLASSIFIED

CLASSIFICATION:

EXHIBIT R-2, RDT&E Budget Item Justification						DATE: February 2005		
APPROPRIATION/BUDGET ACTIVITY RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / BA-5					R-1 ITEM NOMENCLATURE 0604245N USMC H-1 Upgrades			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Total PE Cost	98.412	173.046	42.012	7.700	3.620	3.680	3.815	3.94
2279 USMC H-1 Upgrades	98.412	173.046	42.012	7.700	3.620	3.680	3.815	3.94

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The mission of the AH-1W attack helicopter is to provide rotary wing close air support, anti-armor, armed escort, armed/visual reconnaissance and fire support coordination capabilities under day/night and adverse weather conditions. The mission of the UH-1N utility helicopter is to provide command and control and combat assault support under day/night and adverse weather conditions and special operations support; supporting arms coordination and aeromedical evacuation. Major modifications for both aircraft that remanufacture AH-1W/UH-1N's into AH-1Z/UH-1Y's include: a new 4-bladed, composite rotor system with semi-automatic blade-fold, new performance matched transmissions, T700 Engine Digital Electronic Control Units (DECUs), new 4-bladed tail rotors and drive systems, more effective stabilizers, upgraded landing gear, tail pylon structural modifications, and common, fully integrated cockpits and avionics systems. This remanufacture will add 10,000 flight hours to AH-1Z/UH-1Y airframes. The fully integrated cockpits will reduce operator workload and improve situational awareness, thus increasing safety and reducing the rate of aircraft attrition. They will provide considerable growth potential for future weapon systems and avionics, which will significantly increase mission effectiveness and survivability. The cockpits will also include integration of onboard mission planning, communications, digital fire control, self-navigation, night navigation/targeting, and weapon systems management in nearly identical crew stations, which significantly reduces training requirements. This remanufacture maximizes commonality between the two aircraft and provides needed improvements in crew and passenger survivability, payload, power available, endurance, range, airspeed, maneuverability and supportability.

Note: FY2005 column of the FY2006 President's Budget for RDT&E reflects the addition of a proposed \$42M Prior Approval Reprogramming (DD1415-1).

UNCLASSIFIED

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005	
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5		PROGRAM ELEMENT NUMBER AND NAME 0604245N USMC H-1 Upgrades			PROJECT NUMBER AND NAME 2279 USMC H-1 Upgrades			
COST (\$ in Millions)	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Project Cost	98.412	173.046	42.012	7.700	3.620	3.680	3.815	3.940
RDT&E Articles Qty								
<p>A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The mission of the AH-1W attack helicopter is to provide rotary wing close air support, anti-armor, armed escort, armed/visual reconnaissance and fire support coordination capabilities under day/night and adverse weather conditions. The mission of the UH-1N utility helicopter is to provide command and control and combat assault support under day/night and adverse weather conditions and special operations support; supporting arms coordination and aeromedical evacuation. Major modifications for both aircraft that remanufacture AH-1W/UH-1N's into AH-1Z/UH-1Y's include: a new 4-bladed, composite rotor system with semi-automatic blade fold, new performance matched transmissions, T700 Engine Digital Electronic Control Units (DECUs), new 4-bladed tail rotors and drive systems, more effective stabilizers, upgraded landing gear, tail pylon structural modifications, and common, fully integrated cockpits and avionics systems. This remanufacture will add 10,000 flight hours to AH-1Z/UH-1Y airframes. The fully integrated cockpits will reduce operator workload and improve situational awareness, thus increasing safety and reducing the rate of aircraft attrition. They will provide considerable growth potential for future weapon systems and avionics, which will significantly increase mission effectiveness and survivability. The cockpits will also include integration of onboard mission planning, communications, digital fire control, self-navigation, night navigation/targeting, and weapon systems management in nearly identical crew stations, which significantly reduces training requirements. This remanufacture maximizes commonality between the two aircraft and provides needed improvements in crew and passenger survivability, payload, power available, endurance, range, airspeed, maneuverability and supportability.</p> <p>Note: FY2005 column of the FY2006 President's Budget for RDT&E reflects the addition of a proposed \$42M Prior Approval Reprogramming (DD1415-1).</p>								

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B. Accomplishments/Planned Program																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 15%;">FY 04</td> <td style="width: 15%;">FY 05</td> <td style="width: 15%;">FY 06</td> <td style="width: 15%;">FY07</td> </tr> <tr> <td>Technical design & development</td> <td>74.265</td> <td>124.045</td> <td>29.000</td> <td>2.240</td> </tr> <tr> <td>RDT&E Articles Quantity</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p style="margin-top: 10px; border: 1px solid black; padding: 5px;">Conduct pre-flight ground test and first flight of UH-1Y. Continue tooling validation and assembly of remaining EMD aircraft including structural test. Conduct envelope expansion and complete electrical demonstration. Continue development of integrated software. Conduct Software development efforts to support development testing and address operational testing results.</p>						FY 04	FY 05	FY 06	FY07	Technical design & development	74.265	124.045	29.000	2.240	RDT&E Articles Quantity				
	FY 04	FY 05	FY 06	FY07															
Technical design & development	74.265	124.045	29.000	2.240															
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	FY 04	FY 05	FY 06	FY07															
Program development testing	16.012	23.681	2.500																
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	FY 04	FY 05	FY 06	FY07															
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B. Accomplishments/Planned Program (Cont.)																			
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	FY 04	FY 05	FY 06	FY07															
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	FY 04	FY 05	FY 06	FY07															
Component Fatigue Testing	1.387	7.977	4.000	0.000															
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	FY 04	FY 05	FY 06	FY07															
Contractor Technical Support	1.566	1.560	1.412	0.270															
RDT&E Articles Quantity																			

R-1 SHOPPING LIST - Item No.

93

UNCLASSIFIED

Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2, page 4 of 10)

UNCLASSIFIED

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EXHIBIT R-2a, RDT&E Project Justification			DATE: February 2005																																																																												
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<p>C. PROGRAM CHANGE SUMMARY:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"></th> <th style="text-align: right;">FY 2004</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>Funding:</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Previous President's Budget:</td> <td style="text-align: right;">90.965</td> <td style="text-align: right;">90.389</td> <td style="text-align: right;">10.907</td> <td style="text-align: right;">7.723</td> </tr> <tr> <td>Current BES/President's Budget</td> <td style="text-align: right;">98.412</td> <td style="text-align: right;">173.046</td> <td style="text-align: right;">42.012</td> <td style="text-align: right;">7.700</td> </tr> <tr> <td>Total Adjustments</td> <td style="text-align: right; border-top: 1px solid black;">7.447</td> <td style="text-align: right; border-top: 1px solid black;">82.657</td> <td style="text-align: right; border-top: 1px solid black;">31.105</td> <td style="text-align: right; border-top: 1px solid black;">-0.023</td> </tr> <tr> <td colspan="5" style="padding-top: 10px;">Summary of Adjustments</td> </tr> <tr> <td> Congressional program reductions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> Congressional undistributed reductions</td> <td></td> <td style="text-align: right;">-1.273</td> <td></td> <td></td> </tr> <tr> <td> Congressional rescissions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> SBIR/STTR Transfer</td> <td style="text-align: right;">-1.621</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Other Adjustments</td> <td></td> <td style="text-align: right;">-0.070</td> <td style="text-align: right;">31.012</td> <td style="text-align: right;">-0.190</td> </tr> <tr> <td> Economic Assumptions</td> <td></td> <td></td> <td style="text-align: right;">0.093</td> <td style="text-align: right;">0.167</td> </tr> <tr> <td> Reprogrammings</td> <td style="text-align: right;">9.068</td> <td></td> <td></td> <td></td> </tr> <tr> <td> Congressional increases</td> <td></td> <td style="text-align: right;">84.000</td> <td></td> <td></td> </tr> <tr> <td> Subtotal</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">7.447</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">82.657</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">31.105</td> <td style="text-align: right; border-top: 1px solid black; border-bottom: 1px solid black;">-0.023</td> </tr> </tbody> </table> <p style="margin-top: 20px;">Schedule:</p> <p style="margin-top: 20px; padding-left: 40px;">Additional effort has been integrated into the remaining EMD schedule due to technical issues with tailboom annealing, rocket gas ingestion and weapons system integration which defers a MS III decision for Full Rate Production to 4QFY06 and adds a 3rd Lot of LRIP</p> <p style="margin-top: 20px;">Technical:</p> <p style="margin-left: 40px;">Not Applicable</p>						FY 2004	FY 2005	FY 2006	FY 2007	Funding:					Previous President's Budget:	90.965	90.389	10.907	7.723	Current BES/President's Budget	98.412	173.046	42.012	7.700	Total Adjustments	7.447	82.657	31.105	-0.023	Summary of Adjustments					Congressional program reductions					Congressional undistributed reductions		-1.273			Congressional rescissions					SBIR/STTR Transfer	-1.621				Other Adjustments		-0.070	31.012	-0.190	Economic Assumptions			0.093	0.167	Reprogrammings	9.068				Congressional increases		84.000			Subtotal	7.447	82.657	31.105	-0.023
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R-1 SHOPPING LIST - Item No. 93

Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2, page 5 of 10)

UNCLASSIFIED

UNCLASSIFIED

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EXHIBIT R-2a, RDT&E Project Justification							DATE: February 2005			
APPROPRIATION/BUDGET ACTIVITY RDT&E, N / BA-5			PROGRAM ELEMENT NUMBER AND NAME 0604245N USMC H-1 Upgrades			PROJECT NUMBER AND NAME 2279 USMC H-1 Upgrades				

D. OTHER PROGRAM FUNDING SUMMARY:

Line Item No. & Name	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost
P-1 LI #9, UH-1Y/AH-1Z (4BN/4BW)	308.562	198.858	307.479	434.942	471.633	443.578	482.196	501.74	TBD	TBD
Quantity	9	7	10	18	21	21	22	23	149	280

E. ACQUISITION STRATEGY:

The USMC H-1 Upgrades is an ACAT 1D program which encompasses Engineering and Manufacturing Development of new end-items prior to a production approval decision. The prime contract is a sole source to Bell Helicopter Textron, Inc.

R-1 SHOPPING LIST - Item No. 93

UNCLASSIFIED

Exhibit R-2a, RDTEN Project Justification
(Exhibit R-2, page 6 of 10)

UNCLASSIFIED

CLASSIFICATION:

Exhibit R-3 Cost Analysis (page 1)										DATE: February 2005		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604245N USMC H-1 Upgrades			2279 USMC H-1 Upgrades						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY06 Cost	FY06 Award Date	FY 07 Cost	FY07 Award Date	Cost to Complete	Total Cost	Target Value of Contract
Primary Hardware Development	SS CPFF	Bell Helicopter, Ft. Worth, TX	902.341	124.045	10/04	29.000	11/05			0.000	1,055.386	1,055.386
Anciliary Hdw Development											0.000	
Training Development	WR	Various	6.212							0.000	6.212	
Aircraft Integration											0.000	
Ship Integration											0.000	
Ship Suitability											0.000	
Systems Engineering	WR	Various	66.022	5.270	Various					0.000	71.292	
Licenses											0.000	
Tooling											0.000	
GFE	Various	Various	21.050	2.648	10/04					0.000	23.698	
Award Fees*	WR	Bell Helicopter, Ft. Worth, TX	12.668							0.000	12.668	12.668
Subtotal Product Development			1,008.293	131.963		29.000		0.000		0.000	1,169.256	
<p>*Remarks: Effective 1 May 00, cost plus incentive fee (CPIF) applies. Original contract was was a SS CPAF contract. Total award fee pool \$47,496,152, and to date \$12,668,250 has been awarded. Period #1 was 90%, period #2 87%, period #3 90%, period #4 77%, period #5 76%, and period #6 was 0%. Award fee activity was terminated on 30 April 2000.</p>												
Development Support	Various	Various	1.387	7.977	11/04	4.000	11/05	4.252	10/06	8.043	25.659	
Software Dev. Electronics											0.000	
Software Dev. Weapons Integration	Various	Various	2.800	5.067	11/04	5.100	11/05	3.178	10/06	6.112	22.257	
Integrated Logistics Support	Various	Various	23.383	2.798	11/04						26.181	
Configuration Management	Various	Various	0.957								0.957	
Technical Data											0.000	
Studies & Analysis											0.000	
GFE											0.000	
Award Fees											0.000	
Subtotal Support			28.527	15.842		9.100		7.430		14.155	75.054	
Remarks:												

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Exhibit R-3 Cost Analysis (page 2)										DATE: February 2005			
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT				PROJECT NUMBER AND NAME						
RDT&E, N / BA-5			0604245N USMC H-1 Upgrades				2279 USMC H-1 Upgrades						
Cost Categories	Contract Method & Type	Performing Activity & Location	Total PY s Cost	FY 05 Cost	FY 05 Award Date	FY 06 Cost	FY 06 Award Date	FY 07 Cost	FY 07 Award Date	Cost to Complete	Total Cost	Target Value of Contract	
Developmental Test & Evaluation	Various	NAWC Patuxent River	35.252	16.881	11/04	2.500	11/05				54.633		
Operational Test & Evaluation	Various	NAWC Patuxent River	2.406	5.147	11/04						7.553		
Live Fire Test & Evaluation	Various	NAWC China Lake		1.653	10/04						1.653		
Test Assets											0.000		
Tooling											0.000		
GFE											0.000		
Award Fees											0.000		
Subtotal T&E			37.658	23.681		2.500		0.000		0.000	63.839		
Remarks:													
Contractor Engineering Support	C FFP	Various	4.670	0.745	11/04	0.571	11/05				5.986	5.986	
Government Engineering Support											0.000		
Program Management Support	C FFP	Various	5.767	0.545	11/04	0.571	11/05				6.883	6.883	
Travel	WR	Various	2.117	0.270	11/04	0.270	11/05	0.270	11/06	0.900	3.827		
Transportation											0.000		
Subtotal Management			12.554	1.560		1.412		0.270		0.900	16.696		
Remarks:													
Total Cost			1,087.032	173.046		42.012		7.700		15.055	1,324.845		
Remarks:													

UNCLASSIFIED

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EXHIBIT R4, Schedule Profile																								DATE: February 2005								
APPROPRIATION/BUDGET ACTIVITY												PROGRAM ELEMENT NUMBER AND NAME												PROJECT NUMBER AND NAME								
RDT&E, N / BA-5												0604245N USMC H-1 Upgrades												2279 USMC H-1 Upgrades								
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												MS-III △						IOC UH1 ☆										IOC AH1Z ☆				
Test & Evaluation Milestones																																
Development Test	DT																															
Operational Test			OT-IIB								OT-IIC OPEVAL																					
Production Milestones																																
LRIP I FY 04	△	LRIP I Start																														
LRIP II FY 05					△	LRIP II Start																										
LRIP III FY05										△	LRIP III Start (Lot 3 / QTY 10)																					
FRP FY 06																																
FRP FY 07																																
FRP FY 08																																
FRP FY 09																																
FRP FY 10																																
FRP FY 11																																
Deliveries												LRIP 1 (9)				LRIP II (7)																

Exhibit R-2a, RD TEN Project Justification
(Exhibit R-2, page 9 of 10)

UNCLASSIFIED

UNCLASSIFIED

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Exhibit R-4a, Schedule Detail						DATE:		
						February 2005		
APPROPRIATION/BUDGET ACTIVITY			PROGRAM ELEMENT			PROJECT NUMBER AND NAME		
RDT&E, N / BA-5			0604245N USMC H-1 Upgrades			2279 USMC H-1 Upgrades		
Schedule Profile	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011
Full Rate Production (FRP) Decision Milestone III			4Q					
IOC-UH1Y								
IOC-AH1Z								
Developmental Testing (DT)	1Q-4Q	1Q-4Q						
Operational Testing (OT-IIB)	3Q							
Operational Evaluation (OT-IIC) (OPEVAL)		4Q	1Q					
Start Low-Rate Initial Production I (LRIP I)	1Q							
Low-Rate Initial Production I Delivery			2Q - 4Q	1Q-2Q				
Start Low-Rate Initial Production II (LRIP II)		2Q						
Low-Rate Initial Production II Delivery				2Q-4Q				
Start Low-Rate Initial Production III (LRIP III)			2Q					
Low-Rate Initial Production III Delivery								
Full Rate Production Start (FRP) (Lot 4)				2Q				
Full Rate Production (FRP) Delivery (Lot 4)								
Full Rate Production Start (FRP) (Lot 5)								
Full Rate Production (FRP) Delivery (Lot 5)								
Full Rate Production Start (FRP) (Lot 6)								
Full Rate Production Start (FRP) (Lot 7)								
Full Rate Production Start (FRP) (Lot 8)								

This schedule reflects a change to the program baseline including a pending \$42M FY05 prior approval reprogramming action. A PDR and APB have been submitted by the Program Office and are pending approval by the MDA.

This RDT&E budget reflects a pending \$42M FY05 prior approval reprogramming action.