	E)// !!D!E D 0	RDT&E Budget Item	1 10 1			т.			
		DATE:							
	February 2006								
APPROPRIATION/BUDGET ACTIVITY	R-1 ITEM NOMENCLATURE								
REASEARCH DEVELOPMENT TEST & EVALUATION, NAVY	<i>(</i>	I	BA 5	()604262N, V-22A				
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011		
Total PE Cost	248.163	203.278	268.461	94.868	26.885	24.167	1.946		
H1425 V-22	248.163	203.278	268.461	94.868	26.885	24.167	1.946		
(II) A MISSION DESCRIPTION AND BUDGET ITEM IIIST	TIFICATION:				•				

The V-22 Osprey is an ACAT-ID Joint Program led by the Department of the Nawy for the purpose of developing, testing, evaluating, procuring and fielding a tilt rotor, vertical takeoff and landing aircraft for Join Service application. The V-22 program is designed to provide an aircraft to meet the amphibious/vertical assault needs of the Marine Corps, the strike rescue needs of the Naw, and the special operations needs of the Air Force and the United States Special Operations Command (USSOCOM). The V-22 will replace the CH-46E and CH53A/D in the Marine Corps with the MV-22; supplement the H-60 in the Navy with the HV-22; and replace the MH-53J and MH-53M as well as augment the C-130 in the Air Force and USSOCOM with the CV-22. The V-22 will be capable of flying over 2100 nautical miles with a single refueling, giving the services the advantage of a Vertical/Short Take-off, and Landing (VSTOL) aircraft that can rapidly self-deploy to any location in the world. This program is funded under Engineering Manufacturing and Development (EMD) for correction of deficiencies and includes Block A and Block B ugrades because it encompasses engineering and manufacturing development of new end-items prior a production approval decision. Block C suitability and effectiveness upgrades begin in FY 06 and are the first planned upgrades after the scheduled full rate production decision.

> Exhibit R-2 RDTEN Budget Item Justification (Exhibit R-2, Page 1 of 8)

	EXHIBIT R-2a, RDT&E Project Justification														
	ROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT NUMBER AND NAME PRO														
APPROPRIATION/BUDGET ACTIVITY	MBER AND N	AME													
RDT&E, N /	BA 5	0604262N, V-2	22A												
COST (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011								
H1425 V-22	248.163	203.278	268.461	94.868	26.885	24.167	1.946								
RDT&E Articles Qty															

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

The V-22 Osprey is an ACAT-ID Joint Program led by the Department of the Nawy for the purpose of developing, testing, evaluating, procuring and fielding a tilt rotor, vertical takeoff and landing aircraft for Joint Service application. The V-22 program is designed to provide an aircraft to meet the amphibious/vertical assault needs of the Marine Corps, the strike rescue needs of the Nawy, and the special operations needs of the Air Force and the United States Special Operations Command (USSOCOM). The V-22 will replace the CH-46E and CH53A/D in the Marine Corps with the MV-22; supplement the H-60 in the Navy with the HV-22; and replace the MH-53J and MH-53M as well as augment the C-130 in the Air Force and USSOCOM with the CV-22. The V-22 will be capable of flying over 2100 nautical miles with a single refueling, giving the services the advantage of a Vertical/Short Take-off, and Landing (VSTOL) aircraft that can rapidly self-deploy to any location in the world. This program is funded under Engineering Manufacturing and Development (EMD) for correction of deficiencies and includes Block A and Block B ugrades because it encompasses engineering and manufacturing development of new end-items prior to a production approval decision. Block C suitability and effectiveness upgrades begin in FY 06 and are the first planned upgrades after the scheduled full rate production decision.

	DATE:			
				February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND NA	AME
RDT&E, N /	BA 5	0604262N, V-22A	H1425, V-22	
RDT&E, N /				AME

B. ACCOMPLISHMENTS / PLANNED PROGRAM:

	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	87.917	94.191	112.025	
RDT&E Articles Qty				

Continue CV-22 Block-0 EMD development. Provide flight test support for CV-22 aircraft #7 and #9. Provide engineering and maintenance support for CV-22 flight testing. Fund fuel costs for test aircraft and/or engines. Provide R&D support in the areas of R&M data analysis, loads and dynamics, electromagnetic environmental effects, CV-22 flight controls, survivability, subsystems, shipboard compatibility, propulsion CV-22 avionics, facilities, computer support, structures, communications, Small Business Innovative Research, etc. Continue logistics, flight test, and flight test support, and address correction of deficiencies. Support CV-22 Additional Test Asset (ATA) flight test infrastructure and contractor maintenance/logistics support for ATA.

	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	61.053	30.833	49.486	
RDT&E Articles Qty				

Continue in-house field activity support of Integrated Test Team (ITT), Integrated Product Teams (IPT), logistics and training activities, the manned flight simulator and numerous other efforts at over 12 activities. Continue development in support of MV-22 Block upgrades. Continue field development efforts on aircraft #8, #10, and three LRIP aircraft. Provide R&D support in the areas of Reliability and Maintainability (R&M) data analysis, loads and dynamics, electromagnetic environmental effects, V-22 flight controls, survivability, subsystems, shipboard compatibility, propulsion, V-22 avionics, facilities, structures, communications, Small Business Innovative Research, etc. Continue logistics, flight test, and flight test support, and addressed correction of deficiencies. R&D support and planning for the Block C suitability and effectivness upgrade which begin in FY 06. Block C is the first planned upgrades after the scheduled full rate production decision.

	FY 2005	FY 2006	FY 2007	
Accomplishments / Effort / Sub-total Cost	99.193	78.254	106.950	
RDT&E Articles Qty				

Continue MV-22 development efforts by Bell-Boeing. Rolls-Royce continues to provide engine support and repair of repairables for MV-22 flight testing. Complete MV-22 software development efforts. Continue development in support of MV-22 Block upgrades. Continue development of maintenance training equipment. Continue Weapons Repairable Assembly (WRA) and Test Program Set (TPS) development. Continue logistics, flight test, and flight test support, address correction of deficiencies, and provide funding for the V-22 Way Forward. Continue contracted development efforts on aircraft #8 and #10. Block C suitability and effectivness upgrades begin in FY 06 and are the first planned upgrades after the scheduled full rate production decision.

Exhibit R-2a, RDTEN Project Justification (Exhibit R-2a, Page 3 of 8)

PROGRAM FLINDING SUMMARY Funding: FY 2005 FY 2006 FY 2007 Previous President's Budget: 263.541 206.376 266.240 Corpressional Reductions Congressional Reductions Congressional Reductions Corpressional Reductions Adjustments Subtotal 15.378 -3.088 2.221 Summary of Adjustments Corpressional Precidentificitied Reductions Congressional Reductions Congressional Reductions Reductions Reductions Congressional Reductions Reductions Congressional Reductions Reduc		EXHIBIT	R-2a, RDT&E	Project Justifica	ation					DATE:	ebruary 2006
Funding: FY 2005					ER AND NAM	E			MBER AND NA		55.4diy 2000
Funding: FY 2005											
Previous President's Budget: 263,541 206,376 286,240 287 288,461 206,076	. PROGRAM CHANGE SUMMARY										
Current BES / President's Budget: 248.163 203.278 268.461											
Total Adjustments Congressional Reductions Congressional Reductions Congressional Reductions Congressional Reductions Congressional Reductions Congressional Reductions Congressional Undistributed Reductions Congressional Increases Congressional Increase Congressional Increase Congressional Increase Congressional Increase Congressional Increase Congressio	Previous President's Budget:										
Summary of Adjustments Congressional Reductions Congressional Rescussions Congressional Reductions Congressional Increases Economic Assumptions Miscellaneous Adjustments Subtotal -15,378 -3,098 2,221 Schedule: Not Applicable Tachnical: Not Applicable Tothic PROGRAM FUNDING SUMMARY: ine Item No. 8 Name FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 To Complete FY 2011 To Complete FY 2011 To Complete FY 2011 To Complete Total Cost Model Adjustments FY 2011 To Complete FY											
Congressional Reductions Congressional Reductions Congressional Undistributed Reductions Congressional Increases Economic Assumptions Miscellaneous Adjustments -9.542 -0.940 -0.764 -0	Total Adjustificitis	-10.070	-5.050	2.221							
Congressional Increases Economic Assumptions Miscellaneous Adjustments 9.542 -0.764 -0.764 Subtotal -15.378 -3.098 -0.764 -0.7	Congressional Reductions Congressional Rescissions										
Conomic Assumptions 9.542 9.542 9.764		-5.836	-2.158								
Subtotal -15.378 -3.098 2.221 Schedule: Not Applicable Technical: Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Ine Item No. & Name 64000 / V-22 -22 APN-1 889.488 1,047.392 1,498.767 1,750.732 2,198.148 2,223.242 2,409.686 12,348.985 24,366.440 -722 APN-6 Spares 142.039 116.340 27.011 22.142 40.380 37.680 38.577 328.153 752.322 9000 / V-22 -22 APN-5 3.713 79.995 85.767 46.892 25.119 25.617 26.153 1,123.235 1,416.491 Related RDT&E: 401318F CV-22 14.175 39.955 26.601 56.972 58.315 58.317 72.268 0.000 326.603	Economic Assumptions		-0.940								
Schedule: Not Applicable Technical: Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: Ine Item No. & Name 64000 / V-22 /-22 APN-1 889.488 1,047.392 1,498.767 1,750.732 2,198.148 2,223.242 2,409.686 12,348.985 24,366.440 /-22 APN-6 Spares 142.039 116.340 27.011 22.142 40.380 37.680 38.577 328.153 752.322 Selected RDT&E: 401318F CV-22 14.175 39.955 26.601 56.972 58.315 58.317 72.268 0.000 326.603				-0.764							
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Not Applicable D. OTHER PROGRAM FUNDING SUMMARY: ine Item No. & Name 64000 / V-22 -/-22 APN-1 -/-22 APN-5 3.713 79.995 85.767 46.892 25.119 25.617 72.268 0.000 72.268 0.000 326.603											
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-22 APN-1 889.488 1,047.392 1,498.767 1,750.732 2,198.148 2,223.242 2,409.686 12,348.985 24,366.440 -22 APN-6 Spares 142.039 116.340 27.011 22.142 40.380 37.680 38.577 328.153 752.322 9000 / V-22 -22 APN-5 3.713 79.995 85.767 46.892 25.119 25.617 26.153 1,123.235 1,416.491 elated RDT&E: 401318F CV-22 14.175 39.955 26.601 56.972 58.315 58.317 72.268 0.000 326.603	ine Item No. & Name	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	To Complete	Total Cost	
7-22 APN-6 Spares 142.039 116.340 27.011 22.142 40.380 37.680 38.577 328.153 752.322 9000 / V-22 7-22 APN-5 3.713 79.995 85.767 46.892 25.119 25.617 26.153 1,123.235 1,416.491 Related RDT&E: 401318F CV-22 14.175 39.955 26.601 56.972 58.315 58.317 72.268 0.000 326.603		889.488	1,047.392	1,498.767	1,750.732	2,198.148	2,223.242	2,409.686	12,348.985	24,366.440	
7-22 APN-5 3.713 79.995 85.767 46.892 25.119 25.617 26.153 1,123.235 1,416.491 Related RDT&E: 401318F CV-22 14.175 39.955 26.601 56.972 58.315 58.317 72.268 0.000 326.603											
telated RDT&E: 401318F CV-22 14.175 39.955 26.601 56.972 58.315 58.317 72.268 0.000 326.603											
401318F CV-22 14.175 39.955 26.601 56.972 58.315 58.317 72.268 0.000 326.603	/-22 APN-5	3.713	79.995	85.767	46.892	25.119	25.617	26.153	1,123.235	1,416.491	
160421BB CV-22 57.256 29.954 14.234 31.660 28.551 37.635 69.028 0.000 268.318											
	160421BB CV-22	57.256	29.954	14.234	31.660	28.551	37.635	69.028	0.000	268.318	

	EXH	DATE:		
				February 2006
APPROPRIATION/BUDGET ACTIVITY		PROGRAM ELEMENT NUMBER AND NAME	PROJECT NUMBER AND N	AME
RDT&E, N /	BA 5	0604262N, V-22A	H1425, V-22	

E. ACQUISITION STRATEGY:

The MV-22 is currently in EMD under contract N00019-93-C-0006 awarded to Bell-Boeing on 22 Oct 92, and definitized in May 94. As a result of mishaps during and subsequent to MV-22 OPEVAL (Apr and Dec 00), the program was restructured employing a phased approach to return to flight and tactical introduction. The Contractor and Government defined deficient areas within the program/aircraft requiring correction prior to return to flight. A Block Upgrade approach has been planned, with required efforts being identified in Block "A", "B", and "C". Block "A" includes those efforts necessary to return the V-22 to safe and operational fleet operations. Block "B" includes those efforts necessary to improve the effectiveness and suitability of the aircraft. Block "C" includes mission enhancements like weather radar and cabin effectiveness suitability improvements. Non-recurring development activities are to be initiated and completed for all efforts identified to be in Block "A", "B", and "C". The Contractor will develop specific Statements of Work and Preliminary Specification Change Notices required to integrate the Block Upgrade efforts into the baseline EMD Program. A Systems Requirements Review, Initial Design Review, and Final Design Review will be held for each of the Block efforts so the design maturity can be reviewed and the Government can redirect activities as appropriate. The CV-22 EMD program is structured in Blocks to define an evolutionary approach to achieving full operational capability. Block "0" is the initial baseline CV-22 variant. Block "10" enhances mission capability with the addition of Directional Infrared Countermeasures. Additional Blocks are in planning to continue the growth process throughout the operational life of the weapon system.

UNCLASSIFIED DATE: Exhibit R-3 Cost Analysis (page 1) February 2006 APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT PROJECT NUMBER AND NAME RDT&E, N / BA 5 0604262N, V-22A H1425, V-22 Contract FY 2005 FY 2006 FY 2007 Target Method & Total PY s FY 2005 Award FY 2006 Award FY 2007 Award Cost to Value of Type Performing Activity & Location Cost Date Cost Date Cost Date Complete **Total Cost** Contract Cost Categories Cost PRODUCT DEVELOPMENT CV-22 Develop Support Equip VARIOUS NAWCAD, LAKEHURST NJ 6.952 .084 1/1/2005 5.346 1/1/2006 1/1/2007 16.766 CV-22 Hardware Dev. Airframe SS-CPAF BOEING COMPANY, RIDLEY PARK, PA 722.750 68.091 1/1/2005 72.388 1/1/2006 94.263 1/1/2007 957.492 957.492 CV-22 Hardware Dev. Propulsion C-CPIF ROLLS-ROYCE CORP, INDIANAPOLIS, IN 11.801 .224 1/1/2005 .513 1/1/2006 .608 1/1/2007 13.146 13.146 VARIOUS NAWCAD, LAKEHURST NJ 41.824 1/1/2007 MV-22 Develop Support Equip 3.211 1/1/2005 2.026 1/1/2006 2.550 49.612 MV-22 Hardware Dev. Airframe SS-CPAF BOEING COMPANY, RIDLEY PARK, PA 3.556.791 90.210 1/1/2005 66.169 1/1/2006 94.268 1/1/2007 98.807 3.906.245 3.906.245 MV-22 Hardware Dev. Propulsion C-CPIF ROLLS-ROYCE CORP. INDIANAPOLIS. IN 181.660 6.156 1/1/2005 2.764 1/1/2006 1/1/2007 3.512 195.745 1.653 195.745 VARIOUS VARIOUS MV-22 Training Development 16.185 .801 1/1/2005 4.874 1/1/2006 10.200 1/1/2007 9.512 41.572 SUBTOTAL PROD. DEVELOPMENT 4,537.964 168.778 154.080 207.925 111.831 5,180.579 Remarks: Total award fee pool available for MV and CV combined is \$226,981,111.00. To date \$203,328,616.31 has been awarded for a percentage of 89.5 percent. Award Fee included in MV-22 Primary Hardware Development Airframe line. SUPPORT CV-22 Govt. Engineering Support WX NAWCAD, PATUXENT RIVER MD 16.559 2.484 11/1/2004 3.739 11/1/2005 1.544 11/1/2006 24.325 CV-22 Integrated Logistics Support VARIOUS VARIOUS 7.099 .949 11/1/2004 792 11/1/2005 .460 11/1/2006 9.301 CV-22 Technical Data WX NAV AIR TEC EN SV CMD, SAN DIEGO CA 5.770 .302 11/1/2004 6.072 MV-22 Govt. Engineering Support WX NAWCAD, PATUXENT RIVER MD 1.082.119 8.515 11/1/2004 1.902 11/1/2005 3.720 11/1/2006 3.720 1.099.977 MV-22 Integrated Logistics Support VARIOUS VARIOUS 22.546 4.640 11/1/2004 1.650 11/1/2005 .716 11/1/2006 29.553 80.786 MV-22 Technical Data C-CPIF BOEING COMPANY, RIDLEY PARK, PA 2.827 11/1/2004 9.322 11/1/2005 11.030 11/1/2006 2.527 106.491 106.491 SUBTOTAL SUPPORT 1.214.879 19.718 17.405 17,470 6.247 1.275.719 Remarks: TEST & EVALUATION CV-22 Dev Test & Eval MIPRIEDWARDS AFB. CA 14.853 10.581 11/1/2004 8.310 11/1/2005 8.240 11/1/2006 41.985 MV-22 Dev Test & Eval WX NAWCAD, PATUXENT RIVER MD 907.054 15.522 11/1/2004 11.451 11/1/2005 21.944 11/1/2006 19.605 975.576 MV-22 Live Fire Test & Eval WX NAWCWD, CHINA LAKE CA 1.636 .000 11/1/2004 1.636 WX OPER T & E FOR CD 30, NORFOLK VA 25.634 9.823 11/1/2004 3.535 11/1/2005 3.091 11/1/2006 46.235 MV-22 Oper Test & Eval 4.153 SUBTOTAL TEST & EVALUATION 949.178 35.926 23.296 33.275 23.758 1,065.432 Remarks: MANAGEMENT CV-22 Engineering Technical Support VARIOUS VARIOUS 4.378 11/1/2004 2.619 11/1/2005 2.032 11/1/2006 .689 9.717 CV-22 Management Support Services VARIOUS VARIOUS 11.716 .595 11/1/2004 .224 11/1/2005 .234 11/1/2006 12.768 CV-22 Program Management Support WX NAWCAD, PATUXENT RIVER MD 9.481 11/1/2004 11/1/2005 11/1/2006 9.809 .007 .160 .161 CV-22 Travel WX NAWCAD, PATUXENT RIVER MD 3.954 .221 11/1/2004 .100 11/1/2005 .100 11/1/2006 4.375 MV-22 Engineering Technical Support VARIOUS VARIOUS 1,018.603 6.099 11/1/2004 1.167 11/1/2005 1.658 11/1/2006 .103 1,027.630 MV-22 Management Support Services VARIOUS VARIOUS 132,175 8.532 11/1/2004 2.338 11/1/2005 3.616 11/1/2006 3.342 150.003 MV-22 Studies and Analyses VARIOUS VARIOUS 1.126 .194 11/1/2005 .204 11/1/2006 .214 1.738 MV-22 Program Management Support WX NAWCAD, PATUXENT RIVER MD 43.272 2.777 11/1/2004 1.219 11/1/2005 1.383 11/1/2006 1.764 50.415 MV-22 Travel WX NAWCAD, PATUXENT RIVER MD 10.296 11/1/2004 11/1/2006 .607 12.916 1.132 .476 11/1/2005 .405

ivernaixs.										
Total Cost		7,933.333	248.163		203.278		268.461	147.866	8,801.101	
	•	•	-	•	-	•				

1.231.312

Remarks:

SUBTOTAL MANAGEMENT

6.029

1.279.371

23.740

8.497

9.792

CLASSIFICATION:																																
EXHIBIT R4, Schedul	e Profile	Э																							DATE	:	F	ebrua	rv 20)06		
APPROPRIATION/BUDGE RDT&E, N /	ET ACTI\										ELEM V-22A		IUMB	ER AN	D NAM	1E						JECT N 5, V-22		R ANI	D NAM	IE						
Fiscal Year		FY	2004			FY	2005			FY 2006 FY 2007 FY 2008									FY 2	2009			FY 2	2010	FY 2011							
	1	2	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	1	2	3	4
Program Milestones									MS-III				1	MV-22	IOC						CV- 20	22 IOC 3 FY09										
Engineering Milestones	BIK B PDR		Blk B CDR	-									Blk (C- PDF		lk C - (DR															
	MV-2	22 OT-	-IIF													0) / 00																
Test & Evaluation Milestones			MV-22 (OTRR		OPEV	/AL Ph	ase II		CV-22 3-40	OUI			CV-2 4Q/02	2 Fligh 2 - 4Q/	CV-22 t Test 07	1Q															
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* Not required for Budget Activitie	es 1, 2, 3, a	nd 6		_			_								_						_			_				_				

CLASSIFICATION: Exhibit R-4a, Schedule Detail DATE: February 2006 PROJECT NUMBER AND NAME APPROPRIATION/BUDGET ACTIVITY PROGRAM ELEMENT RDT&BA-5 0604262N, V-22A H1425, V-22 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2010 FY 2011 Schedule Profile Block-B Preliminary Design Review (PDR) 1Q Block-B Critical Design Review (CDR) 3Q MV-22 Operational Testing - IIF 3Q-4Q 1Q-4Q MV-22 Operational Test Readiness Review (OTRR) 3Q CV-22 Flight Test 1Q-4Q 1Q-4Q 1Q-4Q 2Q MV-22 Operational Evaluation (OPEVAL) Phase II 2Q - 3Q MV-22 Milestone III 1Q MV-22 Initial Operational Capability (IOC) 2Q Block-C Preliminary Design Review (PDR) 3Q Block-C Critical Design Review (CDR) 4Q CV-22 Operational Utility Evaluation 3Q-4Q CV-22 Initial Operational Test & Evaluation (IOT&E) 1Q CV-22 Initial Operation Capability (IOC) 2Q