PE NUMBER: 0401318F PE TITLE: CV-22

	Exhib	oit R-2, RDT	&E Budge	t Item Jus	tification			DATE	February	2006
						TITLE				
05 Sys	tem Development and Demonstrat	ion (SDD)		0	401318F CV-	22				
	Cost (\$ in Millions)	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total
	Cost (\$ iii Willions)	Actual	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	Complete	
	Total Program Element (PE) Cost	14.175	39.955	26.601	56.972	58.315	58.317	79.268	Continuing	TBD
4103	CV-22	14.175	39.955	26.601	56.972	58.315	58.317	79.268	Continuing	TBD

(U) A. Mission Description and Budget Item Justification

The CV-22 is a Special Operations Forces (SOF) variant of the V-22 vertical lift, multi-mission aircraft. The CV-22 will provide critical capability to insert, extract, and resupply special operation forces into politically or militarily denied areas, not currently provided by existing aircraft. The CV-22 Block B/10 configuration adds terrain following radar, additional fuel tanks, additional radios, flare/chaff dispensers, a RF warning receiver and jammer, and infrared countermeasures to the V-22 Block B aircraft.

USSOCOM and USAF jointly fund Block 10 development. USSOCOM funds the development, integration and testing of SOF mission capability, while USAF funds the design, integration, testing and certification of Block 10 Communication Navigation Surveillance/ Air Traffic Management (CNS/ATM) capability for compliance with the CNS/ATM Capstone Requirements Document for worldwide deployment. USAF also funds the integration of Air Force and Navy maintenance information systems used with the V-22, contractor logistics support for operational testing, Block B/10 correction of deficiencies, and CV-22 unique implementation and testing of V-22 Block B and Block C changes.

USAF Block 20 funding is required to design, integrate, and test improvements to enhance the CV-22 ability to execute the SOF mission as well as comply with OSD mandated interoperability requirements. FY06 risk reduction studies will refine requirements and specifications for Block 20 development to be initiated in FY07.

(U) B. Program Change Summary (\$ in Millions)

	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Previous President's Budget	16.439	39.532	6.635
(U) Current PBR/President's Budget	14.175	39.955	26.601
(U) Total Adjustments	-2.264	0.423	
(U) Congressional Program Reductions			
Congressional Rescissions	-0.156	-0.577	
Congressional Increases		1.000	
Reprogrammings	-1.650		
SBIR/STTR Transfer	-0.458		

(U) Significant Program Changes:

- FY06 Defense Appropriation added \$1M to research nanocrystaline diamond coatings for potential radome anti-icing and surface erosion protection
- PB07 increase fully funds Block B/10 operational testing, correction of deficiencies and initiation of Block 20 development

R-1 Shopping List - Item No. 103-1 of 103-6

Exhibit R-2 (PE 0401318F

	Ext	nibit R-2a, F	RDT&E Pro	ject Justi	fication			DATE	February	2006
BUDGET ACTIVITY 05 System Development and Demonstration (SDD)							PROJECT NUMBER AND TITLE 4103 CV-22			
	Cost (\$ in Millions)	FY 2005 Actual	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total
4103	CV-22	14.175	39.955	26.601	56.972	58.315	58.317	79.268	Continuing	TBD
	Quantity of RDT&E Articles	0	0	(0	0	0	0		

(U) A. Mission Description and Budget Item Justification

The CV-22 is a Special Operations Forces (SOF) variant of the V-22 vertical lift, multi-mission aircraft. The CV-22 will provide critical capability to insert, extract, and resupply special operation forces into politically or militarily denied areas, not currently provided by existing aircraft. The CV-22 Block B/10 configuration adds terrain following radar, additional fuel tanks, additional radios, flare/chaff dispensers, a RF warning receiver and jammer, and infrared countermeasures to the V-22 Block B aircraft.

USSOCOM and USAF jointly fund Block 10 development. USSOCOM funds the development, integration and testing of SOF mission capability, while USAF funds the design, integration, testing and certification of Block 10 Communication Navigation Surveillance/ Air Traffic Management (CNS/ATM) capability for compliance with the CNS/ATM Capstone Requirements Document for worldwide deployment. USAF also funds the integration of Air Force and Navy maintenance information systems used with the V-22, contractor logistics support for operational testing, Block B/10 correction of deficiencies, and CV-22 unique implementation and testing of V-22 Block B and Block C changes.

USAF Block 20 funding is required to design, integrate, and test improvements to enhance the CV-22 ability to execute the SOF mission as well as comply with OSD mandated interoperability requirements. FY06 risk reduction studies will refine requirements and specifications for Block 20 development to be initiated in FY07.

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0.790
1.140
11.370
4.971
3.120
5.210
I
26.601

Project 4103 R-1 Shopping List - Item No. 103-2 of 103-6

	Exhibit R-	2a, RDT&E	Project Jus	stification			DATE	February	2006	
BUDGET ACTIVITY 05 System Development and D	emonstration (SDI	D)		PE NUMBER A 0401318F C			PROJECT NUMB	BER AND TITLE		
(U) C. Other Program Funding Summary (\$ in Millions)										
	<u>FY 2005</u> <u>Actual</u>	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total Cost	
(U) AF RDT&E(U) Other APPN										
(U) 3010 BP10/11/16/AP, PE 0401318F	339.803	268.165	279.525	573.217	470.970	501.451	415.629	1,341.909	4,190.669	
Total Cost number does not in	clude 407.614M proce	urement funding	g prior to FY05.							

(U) D. Acquisition Strategy

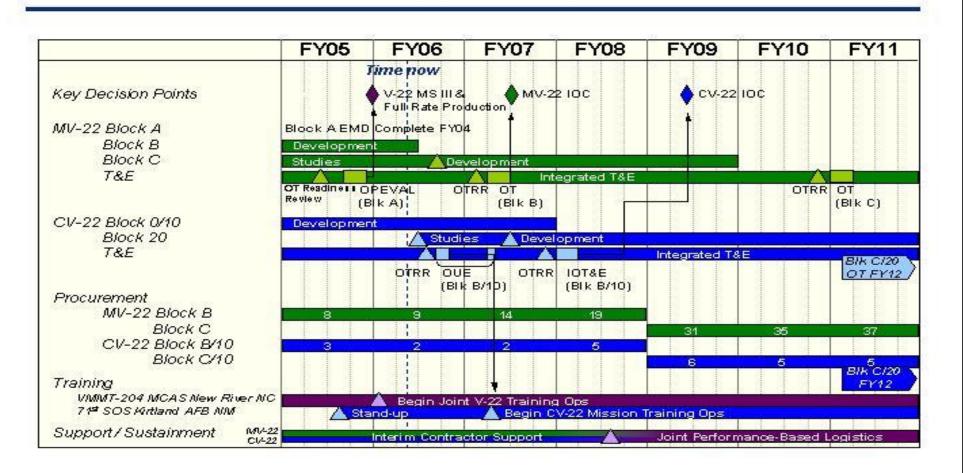
Development activities for the V-22 program are performed by the prime contractor selected on a sole-source basis. Bell-Boeing is a strategic partnership between Bell Helicopter and Boeing Integrated Defense Systems.

Project 4103 R-1 Shopping List - Item No. 103-3 of 103-6 Exhibit R-2a (PE 0401318F)

	Exhibit R-	3, RDT&E	Project Co	st Anal	ysis				D	ATE Feb	ruary 20	006
BUDGET ACTIVITY 05 System Development and Demor	stration (SD	D)			UMBER ANI I 318F CV				PROJECT N	NUMBER ANI • 22	O TITLE	
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY 2005 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
(U) Product Development Development of 2 PRTVs (Block 10) Integration of USN/USAF Maintenance	SS, CPIF MIPR	Bell-Boeing Multiple	185.422 5.417	2.580	Dec-04	3.907	Feb-06	0.790	Dec-06	0.000	185.422 12.694	
Information Systems (Block 10) Development CNS/ATM (Block 10) Block 10 Development Technical Support Block B/10 Correction of Deficiencies	SS, CPAF MIPR TBD	Bell-Boeing Multiple Bell-Boeing	21.801 0.310	0.344	Dec-04	7.000 2.868	Feb-06 Feb-06	1.140 4.971	Oct-06 Dec-06 Dec-06	0.000 Continuing Continuing	28.801 TBD TBD	4.971
Block 20 Risk Reduction Study Block 20 Development and Integration Block 20 Development Technical Support CV-22 Incorporation of V-22 Blk B&C Change	SS, CPFF TBD MIPR s TBD	Bell-Boeing Bell-Boeing Multiple Bell-Boeing				3.635 1.403	Apr-06 Feb-06	5.210 3.120	Mar-07 Dec-06	0.000 Continuing Continuing	3.635 TBD TBD TBD	3.635 5.210 1.403 3.120
Research Nanocrystalline Diamond Coatings fo Radome Applications (Congressional Add) Subtotal Product Development		TBD	212.950	2.924		1.000 19.813	Apr-06	15.231	Dec-00	0.000 Continuing	1.000 TBD	1.000 19.339
Remarks: (U) Support										,	0.000	
Subtotal Support Remarks: (U) <u>Test & Evaluation</u>			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Block 10 Flight Test Technical Support Block 10 Flight Test Maintenance Support Block B/10 Operational Test Logistics Support	SS, CPAF SS, CPFF SS, CPAF SS, CPFF	Bell-Boeing DynCorp Bell-Boeing Rolls Royce	1.648	7.471 0.381	Dec-04 Oct-04	4.380 0.541 11.973 1.260	Apr-06 Feb-06 Feb-06 Feb-06	8.979 0.945	Dec-06 Oct-06	0.000 0.000 Continuing Continuing	4.380 0.541 TBD TBD	4.380
Block B/10 Operational Test Logistics Support Block B/10 Operational Test Logistics Support Subtotal Test & Evaluation Remarks:	MIPR	Multiple	0.140 1.788	3.399 11.251	Dec-04	1.988 20.142	Feb-06	1.446 11.370	Dec-06	Continuing Continuing Continuing	TBD TBD	4.380
(U) Management Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000 0.000	0.000
Remarks: (U) Total Cost			214.738	14.175		39.955		26.601		Continuing	TBD	23.719
Project 4103		ı	R-1 Shopping Lis	t - Item No.	103-4 of 10	3-6				Exh	ibit R-3 (PE	0401318F)

Exhibit R-4, RDT&E Schedule Profile BUDGET ACTIVITY 05 System Development and Demonstration (SDD) PENUMBER AND TITLE 0401318F CV-22 DATE February 2006 PROJECT NUMBER AND TITLE 4103 CV-22

CV-22 Osprey Schedule



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UNCLASSIFIED									
le Detail		DATE February 2006							
PE NUMBER AND TITLE 0401318F CV-22		PROJECT NUMBER AND T							
	FY 2005	FY 2006	FY 2007						
	4Q	1Q							
	1Q	2Q	1-20						
incremental	1Q	2Q	1-2Q						
		2-3Q							
	1Q	2Q	1-2Q						
		3-4Q							
			2Q						
		3Q							
			2-30						
	le Detail	PE NUMBER AND TITLE 0401318F CV-22 FY 2005 4Q 1Q incremental 1Q	PE NUMBER AND TITLE						

Exhibit R-4a (PE 0401318F)

Project 4103