PE NUMBER: 0401318F PE TITLE: CV-22

Ex	Exhibit R-2, RDT&E Budget Item Justification									February 2005		
BUDGET ACTIVITY  05 System Development and Demons	tration (SDD	)			BER AND TITLE  8F CV-22							
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	Cost to Complete	Total		
Total Program Element (PE) Cost	53.459	16.295	39.532	6.635	29.470	47.143	56.792	61.654	Continuing	TBD		
4103 CV-22	53,459	16.295	39.532	6.635	29.470	47.143	56,792	61.654	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 configuration adds terrain following radar, additional fuel tanks, additional radios, flare/chaff dispensers, a RF warning receiver and jammer, and infrared countermeasures to the MV-22 aircraft (CV-22 Block 10 configuration).

Funding is required for Block 10 to continue the design, integration, testing and certification of Communication Navigation Surveillance/ Air Traffic Management (CNS/ATM) components for compliance with the CNS/ATM Capstone Requirements Document for worldwide deployment; to continue the development, test, and test support of two Production Representative Test Vehicles (PRTV) used in Initial Operational Test and Evaluation (IOT&E); and to integrate the Navy and Air Force maintenance information systems used on the V-22.

Funding is required for Block C to incorporate the baseline V-22 improvements developed by the lead Service (USMC) into the CV-22 variant This funding is required to maximize commonality between the MV-22 and CV-22 and optimize long term affordability. Block C is scheduled for inline production incorporation in FY09.

Funding is required for Block 20 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. Initial risk reduction and trade studies will be pursued prior to starting System Development and Demonstration in FY08.

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

		<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U)	Previous President's Budget	65.703	16.439	56.648	6.512
(U)	Current PBR/President's Budget	53.459	16.295	39.532	6.635
(U)	Total Adjustments	-12.244	-0.144		
(U)	Congressional Program Reductions				
	Congressional Rescissions	-1.676	-0.144		
	Congressional Increases				
	Reprogrammings	-8.883			
	SBIR/STTR Transfer	-1.685			

## (U) Significant Program Changes:

R-1 Shopping List - Item No. 101-1 of 101-6

Exhibit R-2 (PE 0401318F)

<sup>-</sup> FY06 RDT&E requirement was reduced due to a 6 month slip in the flight test schedule. Funding was used to fully fund procurement requirements including initial spares

	Exhibit R-2a, RDT&E Project Justification									2005
				BER AND TITLE  8F CV-22	Ī		OJECT NUMBE 03 CV-22	R AND TITLE		
Cost (\$ in Millions)	FY 2004 Actual	FY 2005 Estimate	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	53.459	16.295	39.532	6.635	29.470	47.143	56.792	61.654	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

#### (U) A. Mission Description and Budget Item Justification

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( <b>U</b> )	B. Accomplishments/Planned	l Program (\$ in	Millions)				FY 20	004	FY 2005	FY 2006	FY 2007
(U)	Accomplishment/Planned Prog	gram									
(U)	Continue Navy/Air Force main	tenance informa	tion system int	tegration (Bloc	k 10)		2.5	567	2.451	1.800	
(U)	Continue development of CNS	/ATM/TCAS fo	r CV-22 includ	ling integration	and test (Bloc	k 10)	5.7	762	5.095	6.880	6.635
(U)	Complete development of two	PRTVs (Block 1	0)				45.1	130			
(U)	Support for operational test and	d evaluation of C	CV-22 (Block 1	0)					8.749	27.640	
(U)	Risk reduction studies (Block 2	20)								3.212	
(U)	Total Cost						53.4	159	16.295	39.532	6.635
(U)	C. Other Program Funding S	ummary (\$ in N	Millions)								
		FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	Cost to	Total Cost
		<u>Actual</u>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	<b>Estimate</b>	Complete	Total Cost
(U)	AF RDT&E										
(U)	Other APPN										
(U)	3010 BP10/11/16/AP, PE	191.311	355.468	271.777	303.807	586.856	538.754	542.816	464.988	1,479.056	4,734.833
Pro	oject 4103			R-1 Shoppir	ng List - Item No.	101-2 of 101-6				Exhibit R-2a (I	PE 0401318F)

BUDGET ACTIVITY  05 System Development and Demonstration (SDD)  (U) C. Other Program Funding Summary (\$ in Millions) 0401318F Total Cost number does not include 226.819M procurement funding prior to FY04.  (U) D. Acquisition Strategy All development activities for the V-22 program have been performed by the prime contractor (a consortium of the Bell and Bo basis.	
<ul> <li>O5 System Development and Demonstration (SDD)</li> <li>O401318F CV-22</li> <li>(U) C. Other Program Funding Summary (\$ in Millions)         <ul> <li>0401318F</li> <li>Total Cost number does not include 226.819M procurement funding prior to FY04.</li> </ul> </li> <li>(U) D. Acquisition Strategy         <ul> <li>All development activities for the V-22 program have been performed by the prime contractor (a consortium of the Bell and Bo</li> </ul> </li> </ul>	DATE February 2005
0401318F Total Cost number does not include 226.819M procurement funding prior to FY04.  (U) D. Acquisition Strategy All development activities for the V-22 program have been performed by the prime contractor (a consortium of the Bell and Bo	PROJECT NUMBER AND TITLE 4103 CV-22
All development activities for the V-22 program have been performed by the prime contractor (a consortium of the Bell and Bo	
	eing companies) selected on a sole source

R-1 Shopping List - Item No. 101-3 of 101-6 UNCLASSIFIED

Project 4103

Exhibit R-2a (PE 0401318F)

	Exhib	it R-3, RD	T&E Proj	ect Co	st Ana	lysis					DATE		ıary 200	)5
BUDGET ACTIVITY  05 System Development and Demor	nstration	(SDD)				IUMBER A <b>1318F C</b>					ECT NUM B CV-22	IBER AND 1	ΓΙΤLĒ	
(\$ in Millions)	Contract Method & Type	Performing Activity & Location	Total Prior to FY  2004 Cost	FY 2004 Cost	FY 2004 Award Date	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
Developmen CNS/ATM/TCAS (Block 10) Development of Navy/Air Force maintenance information system integration (Block 10) Block C incorporation	MIPR TBD	Bell-Boeing Bell-Boeing TBD TBD TBD	140.292 6.704 3.000	5.762	May-04 May-04 Feb-04		Oct-04 Dec-04	6.880 1.800	Oct-05 Dec-05	6.635		0.000 0.000 0.000 Continuing	185.422 31.076 9.818 TBD TBD	185.422 31.076 9.818
Subtotal Product Development Remarks: (U) Support Logistics and technical support of operational	TBD SS, CPAF		149.996 0.000	53.459	Jan-04	7.546	Dec-04	8.680 25.660	Dec-05	6.635		Continuing Continuing Continuing	TBD TBD	226.316
test and evaluation Logistics and technical support of operational test and evaluation Technical Support Subtotal Support	SS, CPFF TBD	Rolls Royce TBD	0.000	0.000 0.000 0.000	Jun 01	1.149 0.000 8.749	Oct-04	1.980 3.212 30.852	Oct-05 Feb-06	0.000		Continuing Continuing Continuing	TBD TBD TBD	0.000
Remarks: (U) Test & Evaluation  Subtotal Test & Evaluation Remarks:			0.000	0.000		0.000		0.000		0.000		0.000	0.000 0.000	0.000
(U) Management Subtotal Management			0.000	0.000		0.000		0.000		0.000		0.000	0.000 0.000	0.000
Remarks: (U) Total Cost			149.996	53.459		16.295		39.532		6.635		Continuing	TBD	226.316
Project 4103			R-1 Sh	opping Lis	t - Item No	. 101-4 of '	101-6					Exhibi	t R-3 (PE 04	01318F)

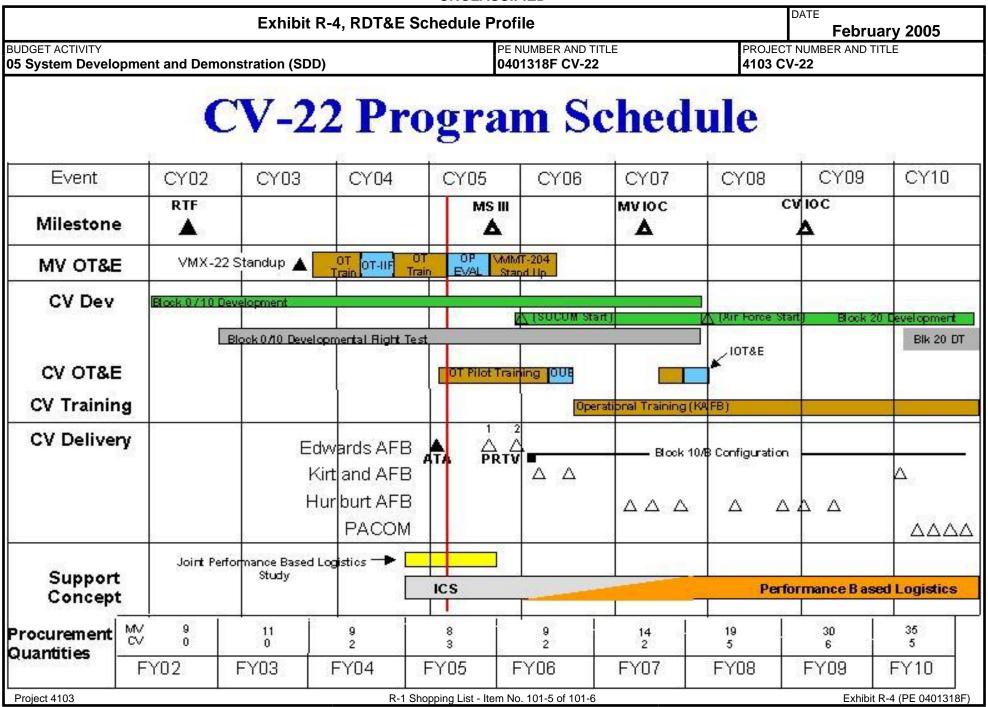


Exhibit R-4a, RDT&E Schedule Detail

DATE

February 2005

	PE NUMBER AND TITLE <b>0401318F CV-22</b>		JECT NUMBER AND TIT 3 CV-22	LE
U) Schedule Profile	<u>FY 2004</u>	FY 2005	FY 2006	FY 2007
U) Production Representative Test Vehicle contract	2Q			
U) CNS/ATM/TCAS development contract (incremental funding)	3Q	1-2Q	1-2Q	1-2Q
U) Navy/Air Force maintenance information system development contract (incremental funding)	2Q	1-2Q	1-2Q	
U) Support for operational test and evaluation contract		1-2Q	1-2Q	
Project 4103 R-1 Shopping List - Ite	m No. 101-6 of 101-6		Exhibit R-4	4a (PE 0401318F)