

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)								DATE February 2002		
BUDGET ACTIVITY 05 - Engineering and Manufacturing Development				PE NUMBER AND TITLE 0604240F B-2 Advanced Technology Bomber				PROJECT 3843		
COST (\$ in Thousands)		FY 2001 Actual	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	Cost to Complete	Total Cost
3843	B-2 Advanced Technology Bomber	126,053	216,962	225,327	201,132	299,917	437,024	161,131	Continuing	TBD
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0
<p>New start effort: In FY03 project 3843, B-2 Advanced Technology Bomber includes new start efforts.</p> <p>In FY03, the B-2 anticipates receiving \$50 M from the Cost of War Transfer Account. These funds are not included in the FY03 Air Force baseline. Funding will be used to move the APQ-181 radar spectrum band where it can receive a primary user designation and permanent frequency allocation authorization from the National Telecommunications Information Administration (NTIA). This funding is in addition to the \$16, 603 for Radar Frequency Management identified in the R-2.</p> <p>(U) <u>A. Mission Description</u> The B-2 SPIRIT is America's most advanced long-range strike aircraft. This all-wing two crew member aircraft has twin weapons bays of over 20,000 pounds capacity each and employs a wide array of signature reduction technologies to greatly enhance its ability to penetrate enemy defenses and survive in a highly defended target environment. The B-2 provides global force projection capability and the ability to influence an enemy regardless of the location of enemy assets or the availability of forward basing.</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$6,704 Continue Developmental Test and Evaluation</p> <p>(U) \$4,556 Continue AFMSS support for baseline B-2</p> <p>(U) \$2,500 Continue AFMSS support for EGBU-28; Begin support for Mk-82 Joint Direct Attack Munition (JDAM)/Smart Bomb Rack Assembly (SBRA) Congressional Plus-Up</p> <p>(U) \$7,492 Continue support for Labs, Facilities and other government agencies for baseline B-2</p> <p>(U) \$9,705 Continue support for Labs, Facilities, and other government agencies for Link-16/CID/IFR and EGBU-28 Congressional Plus-Up; Begin support for Mk-82 JDAM/SBRA</p> <p>(U) \$25,609 Continue support for modification of EMD Aircraft; continue JASSM integration; continue contractor support of flight test base of operations; continue SATCOM integration, continue classified efforts; perform integration studies, reports, and analyses</p> <p>(U) \$69,487 Continue development of Congressional Plus-up programs (Link 16/CID/IFR, EGBU-28 Integration); Begin Mk-82 JDAM/SBRA</p>										
Project 3843			Page 1 of 7 Pages				Exhibit R-2 (PE 0604240F)			

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05 - Engineering and Manufacturing Development	0604240F B-2 Advanced Technology Bomber	3843
(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 2001 (\$ in Thousands) Continued</u>		
	development	
(U) \$126,053	Total	
(U) <u>FY 2002 (\$ in Thousands)</u>		
(U) \$7,794	Continue Developmental Test and Evaluation	
(U) \$7,150	Continue AFMSS support for baseline B-2, continue support for Mk-82 JDAM/SBRA	
(U) \$3,000	Continue AFMSS support for Link-16/CID/IFR Congressional Plus-Up	
(U) \$7,548	Continue support for Labs, Facilities and other government agencies for baseline B-2, continue support for Mk-82 JDAM/SBRA, and UHF SATCOM	
(U) \$7,000	Continue support for Labs, Facilities and other government agencies for Congressional Plus-Up Programs (Link-16/CID/IFR and EGBU-28)	
(U) \$2,030	Begin support for Labs, Facilities and other government agencies for EHF SATCOM Integration	
(U) \$85,870	Continue support for modification of EMD Aircraft; continue Mk-82 JDAM/SBRA; continue UHF SATCOM integration; continue contractor support of flight test base of operations; continue classified efforts; perform planning, integration studies, proposals, reports, and analyses.	
(U) \$54,000	Continue development of Congressional Plus-up programs (Link-16/CID/IFR and EGBU-28)	
(U) \$42,570	Begin development of EHF SATCOM Integration	
(U) \$216,962	Total	
(U) <u>FY 2003 (\$ in Thousands)</u>		
(U) \$14,005	Continue Development Test and Evaluation for Mk-82 JDAM/SBRA, UHF SATCOM, and EGBU-28	
(U) \$3,650	Continue AFMSS support for Mk-82 JDAM/SBRA and EHF	
(U) \$11,310	Continue support for Labs, Facilities and other government agencies for baseline B-2; continue support for Link-16/CID/IFR integration; continue support for EGBU-28 integration; continue support for EHF SATCOM integration; continue support for Mk-82 JDAM/SBRA; continue support for UHF SATCOM	
(U) \$164,659	Continue contractor support of flight test base of operations; continue UHF SATCOM integration; continue Link-16/CID/IFR integration; continue EGBU-28 integration; continue EHF SATCOM integration; continue classified efforts; perform planning, integration studies, proposals, reports, and analyses	
(U) \$4,500	Begin Digital Engine Controller development	
(U) \$16,603	Begin Radar Frequency Management modification development	
Project 3843	Page 2 of 7 Pages	Exhibit R-2 (PE 0604240F)

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT		
05 - Engineering and Manufacturing Development	0604240F B-2 Advanced Technology Bomber	3843		
(U) <u>A. Mission Description Continued</u>				
(U) <u>FY 2003 (\$ in Thousands) Continued</u>				
(U) \$1,000	Begin support for Labs, Facilities and other government agencies for Radar Frequency Management modification development			
(U) \$1,600	Begin Small Diameter Bomb - Smart Bomb Rack Assembly Integration			
(U) \$8,000	Begin Aft Deck repair and life extension			
(U) \$225,327	Total			
(U) <u>B. Budget Activity Justification</u>				
This program is in budget activity 5 - Engineering and Manufacturing Development - because of concurrency in developing, testing, producing, and deploying the B-2.				
(U) <u>C. Program Change Summary (\$ in Thousands)</u>				
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Total Cost</u>
(U) Previous President's Budget	129,118	155,004	116,923	TBD
(U) Appropriated Value	130,313	155,004		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-912	-2,042		
b. Small Business Innovative Research	-3,642			
c. Omnibus or Other Above Threshold Reprogram				
d. Below Threshold Reprogram	127			
e. Rescissions	-283			
(U) Adjustments to Budget Years Since FY 2002 PBR	450	64,000	108,404	
(U) Current Budget Submit/FY 2003 PBR	126,053	216,962	225,327	TBD
(U) <u>Significant Program Changes:</u>				
FY01: Congress appropriated an additional \$82M: Mk-82 JDAM/SBRA Integration (\$56M), EGBU-28 Integration (\$15M), and In-flight Replanner (\$11M); decrease of \$3.0M to adjust for actuals				
FY02: Congress appropriated an additional \$64M: LINK-16/Center Instrument Display/Inflight Replanner (\$47M), EGBU-28 Integration (\$17M); decrease of \$1.89M for Congressional Reduction; decrease of \$152K for PBD 630 General Reductions				
FY 03: FY 03 BES added \$1.202M for Interim Contractor Support Offset Zero Budget Transfer; added Digital Engine Controller (\$4.5M); added Radar Frequency				
Project 3843	Page 3 of 7 Pages	Exhibit R-2 (PE 0604240F)		

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BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT	
05 - Engineering and Manufacturing Development				0604240F B-2 Advanced Technology Bomber				3843	
(U) <u>C. Program Change Summary (\$ in Thousands) Continued</u>									
(U) <u>Significant Program Changes Continued:</u> Management modification (\$23.8M); added Small Diameter Bomb (\$1.6M); added Aft Deck repair and life extension (\$8M); continued funding for Link-16/CID/IFR (\$60M); added Correction of Deficiencies (COD) (\$1M); continued funding for EGBU-28 (\$9M) . Adjustment for Advisory & Assistance Support (A&AS) reduction -\$151K; adjustment for inflation -\$547K.									
(U) <u>D. Other Program Funding Summary (\$ in Thousands)</u>									
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>	
(U) A/C Proc, AF, Combat A/C/BA07/B-2A	0	0	0	0	0				
(U) A/C Proc, AF, Post Prod Support/BA07	17,487	12,397	3,329	7,316	7,488	7,632	7,778		
(U) A/C Proc, AF, Modifications/BA05/B-2A	23,578	22,547	72,123	128,552	69,575	120,079	570,289		
(U) A/C Prod, AF, ICS	40,389	38,612	33,484	33,362	33,780	23,105	11,837		
(U) A/C Proc, AF, Cmn Spt Eq/BA07/Items<\$2M	439	427	426	470	468	477	487		
(U) A/C Proc, AF, A/C Initial Spares/BA06/B-2A	37,060	58,713	8,533	4,830	3,977	3,959	2,683		
(U) Proc (Other), AF/BA 02,03, 04/B-2A	6,043	8,279	7,604	7,779	7,933	8,074	8,235		
(U) Military Construction/BA01	12,050	0	36,100	0	0	0	0		
(U) <u>E. Acquisition Strategy</u> Key elements of the overall acquisition strategy include: use of sole source contract with a prime/integrating contractor; use of cost plus award fee (CPAF) development contracts; and combining developmental upgrades with software sustainment blocks to minimize the number of software releases, aircraft downtime and differences in fielded configurations									
(U) <u>F. Schedule Profile</u>									
	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>						
Project 3843	Page 4 of 7 Pages	Exhibit R-2 (PE 0604240F)							

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(U) <u>F. Schedule Profile Continued</u>												
		<u>FY 2001</u>				<u>FY 2002</u>				<u>FY 2003</u>		
	1	2	3	4	1	2	3	4	1	2	3	4
(U) AHFM Flight Test Complete	*											
(U) JASSM Flight Test Complete					*							
(U) Link-16/CID/IFR Final Design Review						X						
(U) EHF Contract Award							X					
(U) Radar Frequency Management Mod Dev Contract Award										X		
(U) Small Diameter Bomb-SBRA Contract Award										X		
(U) Aft Deck Repair Contract Award										X		
(U) EGBU-28 Flight Test Complete												X
(U) JDAM-82/SBRA Flight Test Complete												X
(U) UHF SATCOM Flight Test Complete												X
* = Completed event												
x = Planned event												
Project 3843				Page 5 of 7 Pages				Exhibit R-2 (PE 0604240F)				

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RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)							DATE February 2002				
BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT				
05 - Engineering and Manufacturing Development				0604240F B-2 Advanced Technology Bomber			3843				
(U) A. Project Cost Breakdown (\$ in Thousands)											
						<u>FY 2001</u>		<u>FY 2002</u>		<u>FY 2003</u>	
(U)	Equipment Development & Evaluation					101,155		192,595		198,512	
(U)	Government Test					6,704		7,789		14,005	
(U)	Other Government Costs (OGC)					17,197		16,578		12,810	
(U)	Other					997		0		0	
(U)	Total					126,053		216,962		225,327	
(U) B. Budget Acquisition History and Planning Information (\$ in Thousands)											
(U) Performing Organizations:											
	<u>Contractor or Government Performing Activity</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Performing Activity EAC</u>	<u>Project Office EAC</u>	<u>Total Prior to FY 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</u>
<u>Product Development Organizations</u>											
	Air Vehicle - NG	Multiple	Multiple	22,822,357	22,822,357	21,438,264	94,099	183,340	194,862	911,792	22,822,357
	Aircrew Training	CPIF	Jul 1985	561,345	561,345	561,345	0			0	561,345
	Mission Planning	Multiple	Multiple	361,137	361,137	325,281	7,056	9,150	3,650	16,000	361,137
<u>Support and Management Organizations</u>											
	Other Govt Costs	N/A		1,197,869	1,197,869	1,027,766	18,194	16,578	12,810	122,521	1,197,869
<u>Test and Evaluation Organizations</u>											
	Govt Test	N/A	N/A	866,149	866,149	781,856	6,704	7,794	14,005	Continuing	TBD
(U) Government Furnished Property:											
	<u>Item Description</u>	<u>Contract Method/Type or Funding Vehicle</u>	<u>Award or Obligation Date</u>	<u>Delivery Date</u>		<u>Total Prior to FY 2001</u>	<u>Budget FY 2001</u>	<u>Budget FY 2002</u>	<u>Budget FY 2003</u>	<u>Budget to Complete</u>	<u>Total Program</u>

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BUDGET ACTIVITY				PE NUMBER AND TITLE			PROJECT		
05 - Engineering and Manufacturing Development				0604240F B-2 Advanced Technology Bomber			3843		
(U) Government Furnished Property Continued:									
<u>Item</u>	<u>Contract Method/Type</u>	<u>Award or</u>	<u>Delivery</u>	<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
<u>Description</u>	<u>or Funding Vehicle</u>	<u>Obligation Date</u>	<u>Date</u>	<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
<u>Product Development Property</u>									
Engines G.E.	Multiple	Multiple	N/A	566,500	0				566,500
AARL Boeing		FPIF	Jun 88	125,934	0	100		0	126,034
<u>Support and Management Property</u>									
<u>Test and Evaluation Property</u>									
<u>Subtotals</u>				<u>Total Prior</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget</u>	<u>Budget to</u>	<u>Total</u>
				<u>to FY 2001</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>Complete</u>	<u>Program</u>
Subtotal Product Development				23,017,324	101,155	192,590	198,512	927,792	24,437,373
Subtotal Support and Management				1,027,766	18,194	16,578	12,810	122,521	1,197,869
Subtotal Test and Evaluation				781,856	6,704	7,794	14,005	TBD	TBD
Total Project				24,826,946	126,053	216,962	225,327	TBD	TBD