

**UNCLASSIFIED**

PE NUMBER: 0604226F

PE TITLE: B-1B

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2005</b>
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BUDGET ACTIVITY <b>05 System Development and Demonstration (SDD)</b>	PE NUMBER AND TITLE <b>0604226F B-1B</b>
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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	82.330	83.719	132.496	120.485	88.748	55.152	85.684	5.000	Continuing	TBD
4596 Conventional Mission Upgrades	82.330	83.719	132.496	120.485	88.748	55.152	85.684	5.000	Continuing	TBD

The FY03 National Defense Authorization Act (NDAA) language directed T&E centers to charge only direct costs beginning in FY06; this resulted in a zero-balance transfer (ZBT) of funding over the FYDP from the customer accounts (for indirect test costs) to T&E support, PE 65807F

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

This program provides RDT&E funding for the B-1B Conventional Mission Upgrade Program (CMUP). Funding in the FYDP includes integration of advanced conventional weapons, including (but not limited to) variants of the Joint Direct Attack Munition (JDAM), Wind Corrected Munitions Dispenser (WCMD), Joint Stand-Off Weapon (JSOW), and Joint Air to Surface Stand-Off Missile (JASSM). FYDP funding also includes upgrades to the Electronic Countermeasures (ECM) suite. Additional efforts include an upgrade to the avionics computers to enable simultaneous carriage of multiple weapon types, provide growth capability, and reduce support costs; development of the B-1B mission planning interface to the Air Force Mission Support System (AFMSS) and related mission planning systems; and upgrades to the B-1B training systems to keep them current with the aircraft's configuration. Funding is provided for development efforts to improve the display of threat situational awareness (S/A) information (to include datalink) to the aircrew and to record mission information. ALQ-161 defensive system upgrades to address reliability, maintainability, diminishing manufacturing sources (DMS) and performance deficiencies on selected line replaceable units (LRUs) are also included. Reliability and DMS deficiencies and performance improvements to the Central Integrated Test System (CITS), Inertial Navigation System/Gyro Stabilization System (INS/GSS), Vertical Situation Display (VSD), and weapons radar subsystem are addressed in this program also. Funding is provided for engineering efforts and engineering and planning studies for potential future weapon system enhancements (weapons, targeting, sensors, and avionics) and for weapon system operational/safety, supportability, maintainability, reliability, and Total Ownership Cost (TOC) improvements. Also included are the B-1 platform unique development items for integration of Link 16 and Beyond Line of Sight Datalinks, and associated weapons management enhancements. The Defensive System Upgrade Program (DSUP) has been terminated.

(U) The B-1 CMUP program is included in Budget Activity 5, System Demonstration and Development. The CMUP program provides new capabilities to the B-1B weapon system, including GPS, Near-Precision Weapons, enhanced computers, datalink, and upgraded ECM. These capabilities require significant software development and testing.

## Exhibit R-2, RDT&amp;E Budget Item Justification

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(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	87.933	59.462	107.061	74.751
(U) Current PBR/President's Budget	82.330	83.719	132.496	120.485
(U) Total Adjustments	-5.603	24.257		
(U) Congressional Program Reductions		-0.743		
Congressional Rescissions				
Congressional Increases		25.000		
Reprogrammings	-2.946			
SBIR/STTR Transfer	-2.657			

(U) **Significant Program Changes:**

FY04 realigned to match Congressional Program Reductions. Current efforts for Computer upgrade; and WCMD; JSOW/JASSM weapons integration, are ending, with new development efforts beginning in FY05 and later in the FYDP.

FY06: (-\$8.5M) The FY03 National Defense Authorization Act (NDAA) language directed T&E centers to charge only direct costs beginning in FY06; this resulted in a zero-balance transfer (ZBT) of funding over the FYDP from the customer accounts (for indirect test costs) to T&E support, PE 65807F Support; Increased funding for Radar R&M effort (+\$16.8M); and increased development funding to correct B-1 critical systems (avoid grounding aircraft).

FY07: Increased funding for Radar R&M effort (+\$48.8M); and increased development funding to correct B-1 critical systems (avoid grounding aircraft)

## Exhibit R-2a, RDT&amp;E Project Justification

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BUDGET ACTIVITY							PE NUMBER AND TITLE		PROJECT NUMBER AND TITLE	
<b>05 System Development and Demonstration (SDD)</b>							<b>0604226F B-1B</b>		<b>4596 Conventional Mission Upgrades</b>	
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
4596 Conventional Mission Upgrades	82.330	83.719	132.496	120.485	88.748	55.152	85.684	5.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

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

This program provides RDT&E funding for the B-1B Conventional Mission Upgrade Program (CMUP). Funding in the FYDP includes integration of advanced conventional weapons, including (but not limited to) variants of the Joint Direct Attack Munition (JDAM), Wind Corrected Munitions Dispenser (WCMD), Joint Stand-Off Weapon (JSOW), and Joint Air to Surface Stand-Off Missile (JASSM). FYDP funding also includes upgrades to the Electronic Countermeasures (ECM) suite. Additional efforts include an upgrade to the avionics computers to enable simultaneous carriage of multiple weapon types, provide growth capability, and reduce support costs; development of the B-1B mission planning interface to the Air Force Mission Support System (AFMSS) and related mission planning systems; and upgrades to the B-1B training systems to keep them current with the aircraft's configuration. Funding is provided for development efforts to improve the display of threat situational awareness (S/A) information (to include datalink) to the aircrew and to record mission information. ALQ-161 defensive system upgrades to address reliability, maintainability, diminishing manufacturing sources (DMS) and performance deficiencies on selected line replaceable units (LRUs) are also included. Reliability and DMS deficiencies and performance improvements to the Central Integrated Test System (CITS), Inertial Navigation System/Gyro Stabilization System (INS/GSS), Vertical Situation Display (VSD), and weapons radar subsystem are addressed in this program also. Funding is provided for engineering efforts and engineering and planning studies for potential future weapon system enhancements (weapons, targeting, sensors, and avionics) and for weapon system operational/safety, supportability, maintainability, reliability, and Total Ownership Cost (TOC) improvements. Also included are the B-1 platform unique development items for integration of Link 16 and Beyond Line of Sight Datalinks, and associated weapons management enhancements. The Defensive System Upgrade Program (DSUP) has been terminated.

(U) The B-1 CMUP program is included in Budget Activity 5, System Demonstration and Development. The CMUP program provides new capabilities to the B-1B weapon system, including GPS, Near-Precision Weapons, enhanced computers, datalink, and upgraded ECM. These capabilities require significant software development and testing.

**(U) B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Continued Conventional Mission Upgrade Program (CMUP) contractual efforts	57.284	65.424	118.425	113.684
(U) Government Furnished Equipment (GFE)	0.000	0.000	0.000	0.000
(U) Government Flight Test, Live Fire Test & Evaluation and General Test Support	15.504	13.155	7.735	5.028
(U) Continuing Mission Support	5.414	4.640	5.178	1.743
(U) Modeling & Simulation / Studies & Analyses	4.128	0.500	1.158	0.030
(U) Total Cost	82.330	83.719	132.496	120.485

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**Exhibit R-2a, RDT&E Project Justification**

DATE

**February 2005**

BUDGET ACTIVITY

**05 System Development and Demonstration (SDD)**

PE NUMBER AND TITLE

**0604226F B-1B**

PROJECT NUMBER AND TITLE

**4596 Conventional Mission Upgrades**

**(U) C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</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>Estimate</u>	<u>Complete</u>	
(U) Appn 10, PE 0101126F, B-1B, Aircraft Procurement BP11, Mods	99.427	8.689	27.875	59.839	81.417	104.112	162.193	92.306	777.525	1,413.383
(U) Appn 10, PE 0101126F, B-1B, Aircraft Procurement BP16, Initial Spares	5.839	1.463	3.523	6.681	13.395	3.476	5.790	6.125	61.866	108.158
(U) Appn 10, PE 0101126F, B-1B, Aircraft Procurement BP12, Common Support Equipment	24.743	4.893	2.423	2.438	2.613	2.616	2.681	2.713	0.000	45.120
(U) Appn 10, PE 0101126F, B-1B, Aircraft Procurement BP13, Post Production Charges	8.157	11.553	13.466	10.151	0.000	0.000	0.000	0.000	10.000	53.327
(U) Appn 10, PE 0207423F, Adv Com Sys BP11	0.000	0.000	0.000	20.761	19.472	20.315	25.532	20.289	84.325	190.694
(U) Appn 36, PE 0207446F, Bomber TDL Core Related RDT&E:	12.049	66.098	77.988	32.292	0.000	0.000	0.000	0.000	0.000	188.427
(U) Program Element 0205164F, Global Positioning System (GPS)										
(U) Program Element 0207325F, Joint Air to Surface Standoff Missile (JASSM)										
(U) Program Element 0604727F/N, Joint Stand-Off Weapon (JSOW)										
(U) Program Element 0604600F, Wind Corrected Munitions Dispenser (WCMD)										
(U) Program Element 0208006F, Air Force Mission Support System (AFMSS)										
(U) Program Element 0604270F, Electronic Warfare (EW) Development										

**(U) D. Acquisition Strategy**

(U) Key elements of the overall CMUP acquisition strategy include: use of a sole source contract with a prime/integrating contractor (Boeing); assignment of Total System Installed Performance Responsibility (TSIPR) to the integrating contractor; use of cost plus award fee (CPAF) and cost plus incentive fee (CPIF) development contracts; and combining developmental upgrades with software sustainment blocks to minimize the number of software releases, aircraft downtime and differences in fielded configurations.

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**Exhibit R-3, RDT&E Project Cost Analysis**

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<b>BUDGET ACTIVITY</b>	<b>PE NUMBER AND TITLE</b>	<b>PROJECT NUMBER AND TITLE</b>
<b>05 System Development and Demonstration (SDD)</b>	<b>0604226F B-1B</b>	<b>4596 Conventional Mission Upgrades</b>

<u>(U) Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method &amp; Type</u>	<u>Performing Activity &amp; Location</u>	<u>Total Prior to FY 2004 Cost</u>	<u>FY 2004 Cost</u>	<u>FY 2004 Award Date</u>	<u>FY 2005 Cost</u>	<u>FY 2005 Award Date</u>	<u>FY 2006 Cost</u>	<u>FY 2006 Award Date</u>	<u>FY 2007 Cost</u>	<u>FY 2007 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>														
(U) DSUP*													0.000	
(U) TBC	SS/CPAF		31.918										31.918	
(U) TBC	SS/CPAF		217.727										217.727	
* FY03 funds to be applied to DSUP termination													0.000	
(U) Mission Planning System													0.000	
(U) Lockheed-Sanders	C/CPAF		0.545										0.545	
(U) Northrup Grumman	C/CPAF		56.954	2.753	Jan-05								59.707	
(U) Training Systems													0.000	
(U) Lockheed-Martin	C/CPAF		13.248										13.248	
(U) INLX	C/CPAF		27.089	3.752	Feb-05	0.945	Jan-06						31.786	
(U) TBD	TBD							0.760	Jan-07				0.760	
(U) Weapons													0.000	
(U) TBC - CBU's	SS/CPFF		4.960										4.960	
(U) TBC - CBU's	SS/CPFF		16.314										16.314	
(U) TBC - FWEP	SS/T&M		3.866										3.866	
(U) TBC - EFX	SS/T&M		5.727										5.727	
(U) TBC- JDAM/GPS Pre-SDD	SS/CPFF		75.099	2.890	Dec-04								77.989	
(U) TBD - INS/GSS	TBD							14.681	Jan-06	9.425	Nov-06	56.466	80.572	
(U) TBD - RADAR Improvements	TBD							42.189	Jan-06	67.079	Dec-06	78.956	188.224	
(U) AIL - ALQ-161 R&M/DMS	SS/CPFF		9.413	18.660	Feb-04	12.362	Feb-05	14.095	Jan-06	10.944	Dec-06	44.734	110.208	
(U) TBC - TSAS/AVTR Improvements	SS/CPFF		26.396	8.645	Feb-05								35.041	
(U) TBD - VSD Upgrade	TBD							15.571	Jan-06	7.554	Jan-07		23.125	
(U) TBD - CITS/R&M/DMS	TBD					6.895	Apr-05	12.234	Nov-05	15.079	Nov-06		34.208	
(U) TBC -FIDL Pre-SDD	SS/CPFF			1.038	May-04	3.746	Feb-05						4.784	
(U) TBD -FIDL SDD	TBD					20.732	Apr-05	18.895	Nov-05	3.603	Nov-06	2.295	45.525	
(U) TBC- JDAM/ GPS SDD	SS/CPAF		272.404										272.404	
(U) TBC-ACBM	SS/CPAF		1.900										1.900	
(U) TBC-Wing Sweep	SS/T&M		1.089										1.089	
(U) TBC- Computer	SS/CPAF		173.340										173.340	
(U) TBC-WCMD	SS/CPAF		41.325										41.325	
(U) Lockheed-Martin - WCMD	SS/CPAF		1.801										1.801	
(U) TBC- JSOW/ JASSM	SS/CPAF		34.537	19.546	Feb-05								54.083	
(U) Lockheed- Martin - JASSM	SS/T&M		9.499										9.499	
(U) Raytheon -JSOW	SS/T&M		2.510										2.510	
(U) TBD-EO/IR Targeting Pod (Congressional Add)						20.744	Mar-05					78.955	99.699	
(U) TBD - Future CMUP Related SDD	TBD											Continuing	TBD	
Subtotal Product Development			1,027.661	57.284		65.424		118.425		113.684		Continuing	TBD	0.000
Remarks:														

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Exhibit R-3, RDT&E Project Cost Analysis											DATE <b>February 2005</b>			
BUDGET ACTIVITY					PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE				
<b>05 System Development and Demonstration (SDD)</b>					<b>0604226F B-1B</b>					<b>4596 Conventional Mission Upgrades</b>				
<u>(U) Support</u>														
(U) A&AS	Various	32.976	5.414	Jun-04	4.640	Jun-05	5.178	Jun-06	1.743	Jun-07	10.066	60.017		
(U) Studies & Analyses / Modeling & Sim	Various	25.074	4.128	Feb-05	0.500	Dec-05	1.158	Dec-06	0.030	Dec-07	1.384	32.274		
(U) Program Mgmt & Admin	Various											0.000		
Subtotal Support		58.050	9.542		5.140		6.336		1.773		11.450	92.291	0.000	
Remarks:														
<u>(U) Test &amp; Evaluation</u>														
(U) Modernization/DataLinks												0.000		
(U) AFFTC	P.O.											0.000		
(U) DSUP*												0.000		
* FY03 funds to be applied to DSUP termination												0.000		
(U) AFFTC	P.O.	17.761										17.761		
(U) Weapons												0.000		
(U) AFFTC	P.O.	118.752	15.504	Jul-04	13.155	Jul-05	7.735	Jul-06	5.028	Jul-07	14.160	174.334		
Subtotal Test & Evaluation		136.513	15.504		13.155		7.735		5.028		14.160	192.095	0.000	
Remarks:														
<u>(U) Management</u>														
Subtotal Management		0.000	0.000		0.000		0.000		0.000		0.000	0.000	0.000	
Remarks:														
(U) Total Cost		1,222.224	82.330		83.719		132.496		120.485		Continuing	TBD	0.000	

Exhibit R-4, RDT&E Schedule Profile

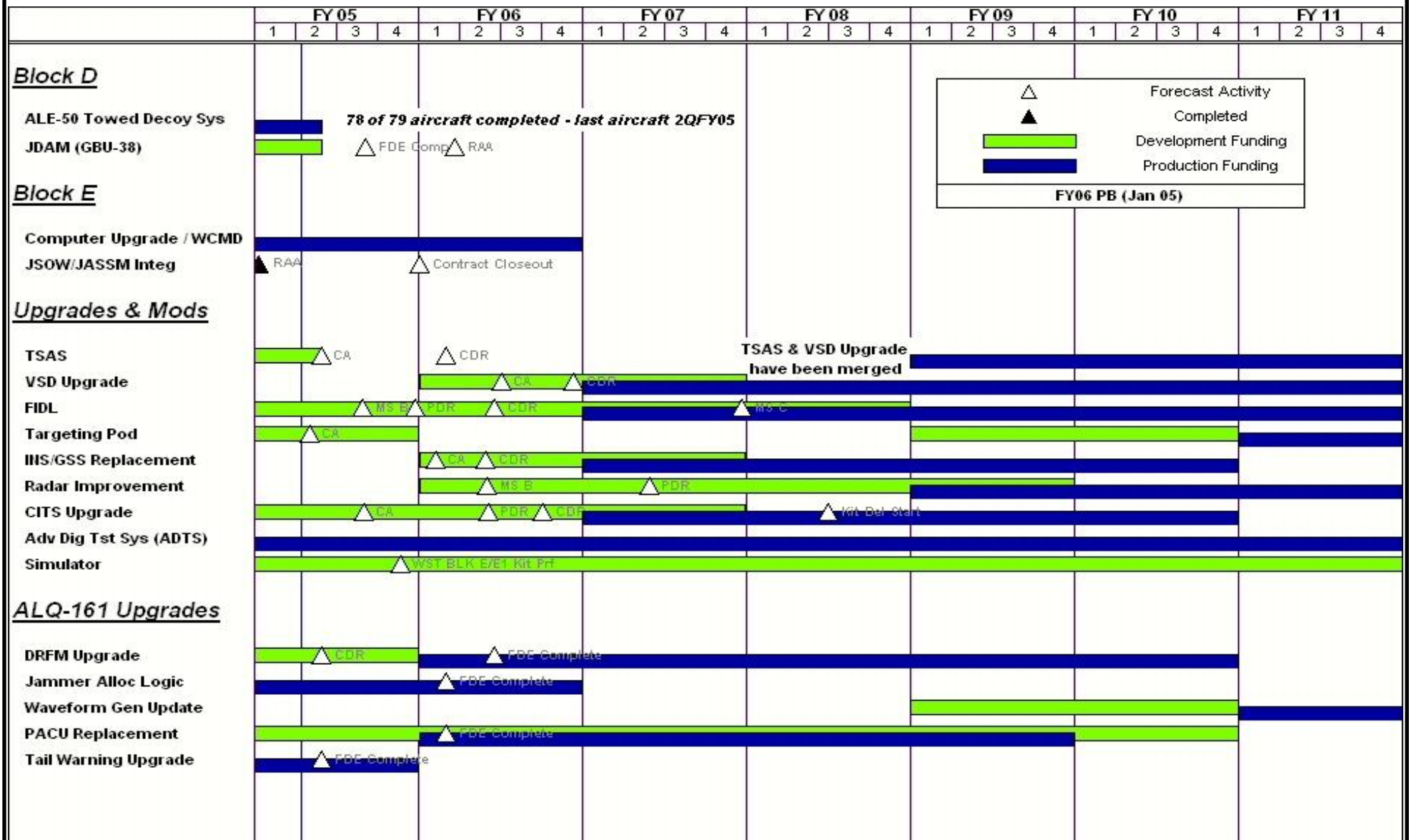
DATE

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BUDGET ACTIVITY  
05 System Development and Demonstration (SDD)

PE NUMBER AND TITLE  
0604226F B-1B

PROJECT NUMBER AND TITLE  
4596 Conventional Mission Upgrades



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## Exhibit R-4a, RDT&amp;E Schedule Detail

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BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT NUMBER AND TITLE			
<b>05 System Development and Demonstration (SDD)</b>	<b>0604226F B-1B</b>	<b>4596 Conventional Mission Upgrades</b>			
<b>(U) Schedule Profile</b>	<b>FY 2004</b>	<b>FY 2005</b>	<b>FY 2006</b>	<b>FY 2007</b>	
(U) JSOW/JASSM Integration-- FCA/PCA		1Q			
(U) JSOW/JASSM Integration -- Software Fielding Decision	4Q				
(U) JSOW/JASSM Integration (T&E)-- DT/OT Complete	4Q				
(U) JSOW/JASSM Integration (T&E)-- FDE Complete	3Q				
(U) JSOW/JASSM Integration-- RAA		1Q			
(U) JSOW/JASSM Integration-- EOC		1Q			
(U) JSOW/JASSM Integration-- Award Fee Period #13	4Q		1Q		
(U) JSOW/JASSM Integration-- Delivery Order 007 Complete			1Q		
(U) JSOW/JASSM Integration-- Contract -2075 CLIN 16 Closeout			1Q		
(U) Mission Planning System-- S/W Release 2.10 Delivery	3Q				
(U) Mission Planning System-- S/W Release 2.20 Delivery		2Q			
(U) Mission Planning System-- In-Flight Replanner (IFR) Spiral 1 Delivery	1Q				
(U) Mission Planning System-- IFR Spiral 2 Delivery	2Q				
(U) Mission Planning System-- IFR Spiral 3 Delivery		1Q			
(U) Mission Planning System-- IFR Spiral 4 Delivery		3Q			
(U) Mission Planning System-- Award Fee Period 10		2Q			
(U) Mission Planning System (T&E)-- S/W Release 2.10 DT/OT	2Q				
(U) Mission Planning System (T&E)-- IFR Spiral 3 DT/OT	4Q				
(U) Mission Planning System (T&E)-- S/W Release 2.20 DT/OT		1Q			
(U) Mission Planning System (T&E)-- IFR Spiral 4 DT/OT		2Q			
(U) Trainer/Simulator System-- WST Rehost FCA/PCA		2Q			
(U) Trainer/Simulator System-- SB-10 SSR		1Q			
(U) Trainer/Simulator System-- CPT E1 FCA/PCA		2Q			
(U) Trainer/Simulator System-- WST Blk E/E1 FCA/PCA		3Q			
(U) Trainer/Simulator System (T&E) -- WST Rehost FMT Kit-Proof		1Q			
(U) Trainer/Simulator System (T&E) -- CPT E1 Kit-Proof FMT		3Q			
(U) Trainer/Simulator System (T&E) -- WST Blk E/E1 Kit-Proof FMT		4Q			
(U) Trainer/Simulator System (T&E) -- Mission Trainer Blk E/E1 Kit-Proof FMT		4Q			
(U) Trainer/Simulator System (Contract) -- Award Fee (FY03)	2Q				
(U) Trainer/Simulator System (Contract) -- Award Fee (FY04)		3Q			
(U) ALQ-161A Digital Radio Frequency Memory (DRFM)-- PDR		1Q			
(U) ALQ-161A Digital Radio Frequency Memory (DRFM)-- CDR		2Q			
(U) ALQ-161A Digital Radio Frequency Memory (DRFM)-- QT&E/FDE Start		4Q			

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R-1 Shopping List - Item No. 67-8 of 67-10

Exhibit R-4a (PE 0604226F)



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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>		<b>DATE</b> <b>February 2005</b>
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<b>05 System Development and Demonstration (SDD)</b>	<b>0604226F B-1B</b>	<b>4596 Conventional Mission Upgrades</b>
(U) ALQ-161A Digital Radio Frequency Memory (DRFM)-- QT&E/FDE Complete		2Q
(U) ALQ-161A Jammer Allocation Logic Sys (JALS)-- QT&E/FDE		1Q
(U) ALQ-161A Tail Warning Function (TWF)-- QT&E/FDE		2Q
(U) ALQ-161A Preprocessor Avionics Control Unit (PACU)-- PDR/CDR	3Q	1Q
(U) ALQ-161A Preprocessor Avionics Control Unit (PACU)-- QT&E/FDE Flight Test Start		4Q
(U) ALQ-161A Preprocessor Avionics Control Unit (PACU)-- QT&E/FDE Flight Test Complete		1Q
(U) Threat Situational Awareness System (TSAS)-- PDR		3Q
(U) Threat Situational Awareness System (TSAS)-- SDD Contract Award		2Q
(U) Threat Situational Awareness System (TSAS)-- CDR		1Q
(U) Fully Integrated Data Link (FIDL)-- FIDL Pre-SDD Contract Award	3Q	
(U) Fully Integrated Data Link (FIDL)-- FIDL Pre-SDD Complete		3Q
(U) Fully Integrated Data Link (FIDL)-- FIDL Milestone B		3Q
(U) Fully Integrated Data Link (FIDL)-- FIDL SDD Contract Award		3Q
(U) Fully Integrated Data Link (FIDL)-- PDR		4Q
(U) Fully Integrated Data Link (FIDL)-- CDR		2Q
(U) Fully Integrated Data Link (FIDL)-- DT&E Flight Test Start		3Q
(U) Central Integrated Test System (CITS)-- SDD Contract Award		1Q
(U) Central Integrated Test System (CITS)-- PDR		4Q
(U) Central Integrated Test System (CITS)-- CDR		4Q
(U) Central Integrated Test System (CITS)-- DT/OT Flight Test		2Q
(U) Vertical Situation Displays (VSD) Upgr-- SDD Contract Award		2Q
(U) Vertical Situation Displays (VSD) Upgr-- PDR		4Q
(U) Vertical Situation Displays (VSD) Upgr-- CDR		1Q
(U) Vertical Situation Displays (VSD) Upgr-- DT/OT Flight Test		2Q
(U) JDAM/GPS -- DT/OT Complete		2Q
(U) JDAM/GPS -- Kit Proof Complete		2Q
(U) JDAM/GPS -- FDE Complete		3Q
(U) JDAM/GPS -- FCA/PCA Complete		3Q
(U) JDAM/GPS -- RAA		1Q
(U) JDAM/GPS -- Delivery Order 0030 Complete		2Q
(U) Inertial Nav Sys/Guro Stab Sys (INS/GSS)-- SDD Contract Award		2Q
(U) Inertial Nav Sys/Guro Stab Sys (INS/GSS)-- PDR		4Q
(U) Inertial Nav Sys/Guro Stab Sys (INS/GSS)-- CDR		1Q

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R-1 Shopping List - Item No. 67-9 of 67-10

Exhibit R-4a (PE 0604226F)

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<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>		DATE <b>February 2005</b>
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<b>BUDGET ACTIVITY</b> <b>05 System Development and Demonstration (SDD)</b>	<b>PE NUMBER AND TITLE</b> <b>0604226F B-1B</b>	<b>PROJECT NUMBER AND TITLE</b> <b>4596 Conventional Mission Upgrades</b>
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(U) Inertial Nav Sys/Guro Stab Sys (INS/GSS)-- DT/OT Flight Test			2Q
(U) RADAR Improvement Upgrade -- Milestone B		2Q	
(U) RADAR Improvement Upgrade -- SDD Contract Award		2Q	
(U) RADAR Improvement Upgrade -- PDR			2Q