

**UNCLASSIFIED**

PE NUMBER: 0101113F  
 PE TITLE: B-52 SQUADRONS

<b>Exhibit R-2, RDT&amp;E Budget Item Justification</b>	DATE <b>February 2005</b>
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<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0101113F B-52 SQUADRONS</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	34.037	31.090	22.784	71.085	44.470	29.765	5.047	0.000	Continuing	TBD
4810 Avionics Midlife Improvement (AMI)	26.455	9.095	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
4875 Situational Awareness Defensive Improvement	7.582	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	67.712
5039 B-52 Modernization	0.000	21.995	22.784	71.085	44.470	29.765	5.047	0.000	Continuing	TBD

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

The B-52 is one of two bomber weapon systems which supports conventional and nuclear taskings. It employs a diverse weapons load and is the only long range bomber/weapon system that can employ the Advanced Cruise Missile (ACM), the Air Launched Cruise Missile (ALCM), and the Conventional Air Launched Cruise Missile (CALCM). The current service life is forecast to be beyond 2040. The Avionics Midlife Improvement (AMI) modification replaces unsupportable mission critical parts of the Offensive Avionics System (OAS), which controls navigation and weapons delivery. The Situational Awareness Defensive Improvement (SADI) modification was originally planned to improve situational awareness and electronic countermeasure system control. In Fiscal Year 2003, the SADI program was rebaselined and moved the development and acquisition activities under the Airborne Electronic Attack Stand Off Jamming (AEA/SOJ) program (PE 64270F). The Global Air Traffic Management (GATM) upgrade will allow the B-52 to meet Federal Aviation Agency (FAA) and International Civil Aviation Organization (ICAO) avionics requirements to reduce airspace congestion and increase safety; however, program start is now outside of the Future Years Defense Plan (FYDP). The B-52 Modernization upgrade provides communications improvements for enhanced command and control and in-flight CALCM and J-series/GPS aided weapons retargeting. In addition, the B-52 Modernization program will start a modification in the out-years which will fully integrate the targeting pods. Fully integrating the targeting pods will also allow the B-52 to employ other advanced targeting pods. Air Force Material Command's Oklahoma Air Logistics Center has program management responsibility. The prime contractor for these projects is Boeing Defense located in Wichita, Kansas.

The B-52 is an operational system resulting in this program being budget activity 7 - Operational System Development.

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

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BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0101113F B-52 SQUADRONS

(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	28.406	25.766	34.259	71.215
(U) Current PBR/President's Budget	34.037	31.090	22.784	71.085
(U) Total Adjustments	5.631	5.324		
(U) Congressional Program Reductions		-0.276		
Congressional Rescissions				
Congressional Increases		5.600		
Reprogrammings	5.631			
SBIR/STTR Transfer				

(U) **Significant Program Changes:**

B-52 Modernization Program is a FY05 start. FY06 funding requirement decreased due to transfer of LINK 16 portion of the B-52 Modernization program to the Tactical Data Link program. FY07 funding requirement for B-52 Modernization BPAC 675039 increased due to a program realignment required to execute the CALCM Inflight Beyond Line of Sight Rapid Retasking (CIBR2) and Airborne Wideband Terminal (AWT) modifications.

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

DATE

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BUDGET ACTIVITY		PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE		
07 Operational System Development		0101113F B-52 SQUADRONS						4810 Avionics Midlife Improvement (AMI)		
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
4810 Avionics Midlife Improvement (AMI)	26.455	9.095	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

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

The B-52H Offensive Avionics System (OAS) has several subsystems which must be replaced. The Inertial Navigation System (INS) utilizes 1960 unsupported spinning mass gyro technology. The Avionics Control Unit (ACU) is a computer system with limited processing capability and memory. The Data Transfer Unit Cartridges (DTUCs) are bulky, unreliable, and obsolete. The AMI program will use non developmental components and technology to replace these subsystems and their associated software, significantly increasing OAS reliability, maintainability, supportability. Reliability, DMS deficiencies, and performance improvements to the OAS are also addressed in this program. Funding is provided for engineering and planning studies for potential future weapon system enhancements (weapons, sensors, and avionics) and for weapon system operation/safety, supportability, maintainability, reliability, and Total Ownership Cost (TOC) improvements.

The B-52 is an operational system resulting in this program being budget activity 7 - Operational System Development.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Prototype Hardware	0.000			
(U) Design, development of replacement software	15.841	1.300		
(U) Ground and Flight Test	9.976	7.669		
(U) System Program Office Support	0.638	0.126		
(U) Program Support/Modeling and Simulation/Studies and Analysis				
(U) Total Cost	26.455	9.095	0.000	0.000

(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) AF RDT&E	26.455	9.176							Continuing	TBD
(U) Other APPN										
(U) Aircraft Procurement (BP1100)	11.410	37.178	51.622	31.793	20.018	2.000			Continuing	TBD

(U) **D. Acquisition Strategy**

The AMI program contracted with Boeing Wichita for aircraft hardware integration and Flight Management System and the Stores Management Overlay software development. Boeing works with selected vendors which will provide EMD hardware. The Government will subsequently contract with these specific vendors for procurement of production hardware to support aircraft installations.

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

DATE

**February 2005**

BUDGET ACTIVITY			PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE					
<b>07 Operational System Development</b>			<b>0101113F B-52 SQUADRONS</b>						<b>4810 Avionics Midlife Improvement (AMI)</b>					
(U) Cost Categories (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> Boeing, Wichita	CONTRA CT			9.776								Continuing	TBD	
Subtotal Product Development			0.000	9.776		0.000		0.000		0.000		Continuing	TBD	0.000
Remarks:														
(U) <u>Support</u> OC-ALC/LH	PMA			0.203								Continuing	TBD	
OC-ALC/LAS	206			0.500								Continuing	TBD	
OO-ALC/LIR	616			5.700								Continuing	TBD	
SER/CASU	MIPR			0.300								Continuing	TBD	
Miscellaneous	BTR/SIB R												0.000	
Subtotal Support			0.000	6.703		0.000		0.000		0.000		Continuing	TBD	0.000
Remarks:														
(U) <u>Test &amp; Evaluation</u> 419 FLTS	Project Order			9.976		9.095						Continuing	TBD	
Subtotal Test & Evaluation			0.000	9.976		9.095		0.000		0.000		Continuing	TBD	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			0.000	26.455		9.095		0.000		0.000		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

DATE

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BUDGET ACTIVITY  
07 Operational System Development

PE NUMBER AND TITLE  
0101113F B-52 SQUADRONS

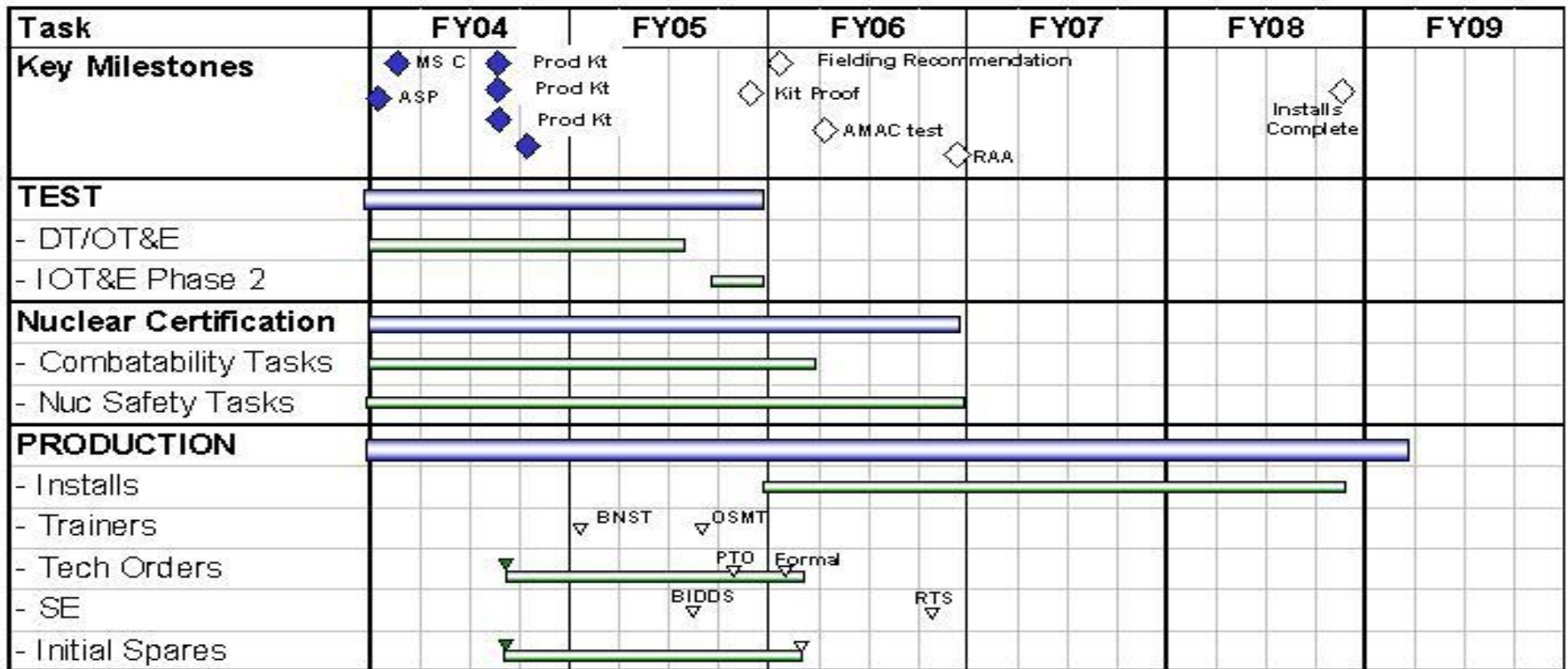
PROJECT NUMBER AND TITLE  
4810 Avionics Midlife Improvement (AMI)



U.S. AIR FORCE

# Program Status Schedule

*Rapidly delivering war-winning capability*



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**Exhibit R-4a, RDT&E Schedule Detail**

DATE

**February 2005**

BUDGET ACTIVITY

**07 Operational System Development**

PE NUMBER AND TITLE

**0101113F B-52 SQUADRONS**

PROJECT NUMBER AND TITLE

**4810 Avionics Midlife Improvement (AMI)**

**(U) Schedule Profile**

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Ground & Flight Test	1-4Q	1-3Q		
(U) Milestone C	1Q			
(U) Production Acquisition Strategy Plan	1Q			
(U) Production Contract Award	2-3Q			
(U) Kit Proof		4Q		
(U) Production		1-4Q	1-4Q	1-4Q
(U) RAA			4Q	
(U) Trainers		2-4Q	1-4Q	1-4Q

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

DATE  
**February 2005**

<b>BUDGET ACTIVITY</b> 07 Operational System Development				<b>PE NUMBER AND TITLE</b> 0101113F B-52 SQUADRONS				<b>PROJECT NUMBER AND TITLE</b> 4875 Situational Awareness Defensive Improvement		
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
4875 Situational Awareness Defensive Improvement	7.582	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	67.712
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

The Situational Awareness Defensive Improvement (SADI) modifications originally was planned to preserve B-52 survivability and add cornerstone architecture for stand off jamming (SOJ) capability in support of Air Force's system of system approach for Airborne Electronic Attack (AEA) by replacing the AN/ALR-20 Panoramic Receiver System. SADI has been rebaselined under the AEA/SOJ program (PE64270F). Fiscal Year 2004 will be the last year of funding under the SADI modification program. SADI is currently going through contract closeout actions.

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

The Situational Awareness Defensive Improvement (SADI) modification originally was planned to preserve B-52 survivability and add cornerstone architecture for stand off jamming (SOJ) capability in support of Air Force's system of system approach for Airborne Electronic Attack (AEA) by replacing the AN/ALR-20 Panoramic Receiver System. SADI has been rebaselined under the Airborne Electronic Attack Stand Off Jamming (AEA/SOJ) program (PE 64270F). Fiscal Year 2004 will be the last year of funding under the SADI modification program.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) System Concept Studies (Includes CTD planning, System Engineering, System Capability Trades, Modeling and Simulation, Studies and Analysis and contract Closeout Actions)	7.530			
(U) Program Management	0.052			
(U) Not Applicable	0.000			
(U) Total Cost	7.582	0.000	0.000	0.000

**(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) AF RDT&E									Continuing	TBD
(U) Other APPN									Continuing	TBD
(U) Aircraft Procurement (BP1100)									Continuing	TBD

**(U) D. Acquisition Strategy**

Program has been rebaselined under the Airborne Electronic Attack Stand Off Jamming (AEA/SOJ) program (PE 64270F). The SADI program is undergoing contract closeout actions. All FY04 activities retroactive to 1 Jul 04 and ongoing contract closeout activities are being priced as Firm Fixed Price. The AEA/SOJ program will manage funding and development efforts, starting in FY05.

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

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**February 2005**

BUDGET ACTIVITY				PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE					
<b>07 Operational System Development</b>				<b>0101113F B-52 SQUADRONS</b>						<b>4875 Situational Awareness Defensive Improvement</b>					
(U) Cost Categories (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>															
Boeing Military Programs, Wichita Division	CPAF			4.999									4.999		
Subtotal Product Development			0.000	4.999		0.000		0.000		0.000		0.000	4.999	0.000	
Remarks:															
(U) <u>Support</u>															
OC-ALC/LH	PMA			2.583									2.583		
WR/ALC	616												0.000		
OO-ALC/YWT													0.000		
HQ ACC/XRA52	MORD												0.000		
Subtotal Support			0.000	2.583		0.000		0.000		0.000		0.000	2.583	0.000	
Remarks:															
(U) <u>Test &amp; Evaluation</u>															
36 EWS/EWF	616												0.000		
419 FLTS	616												0.000		
2LG & 49 TES	616												0.000		
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000		0.000	0.000	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			0.000	7.582		0.000		0.000		0.000		0.000	7.582	0.000	





<b>Exhibit R-4a, RDT&amp;E Schedule Detail</b>	DATE <b>February 2005</b>
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BUDGET ACTIVITY <b>07 Operational System Development</b>	PE NUMBER AND TITLE <b>0101113F B-52 SQUADRONS</b>	PROJECT NUMBER AND TITLE <b>4875 Situational Awareness Defensive Improvement</b>
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<b>(U) <u>Schedule Profile</u></b>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Studies and Analysis/Pre Milestone A /risk reduction activities for AEA/SOJ	3-4Q			
(U) Contract Closeout		2-3Q		

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

DATE

February 2005

BUDGET ACTIVITY				PE NUMBER AND TITLE				PROJECT NUMBER AND TITLE			
<b>07 Operational System Development</b>				<b>0101113F B-52 SQUADRONS</b>				<b>5039 B-52 Modernization</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	
5039 B-52 Modernization	0.000	21.995	22.784	71.085	44.470	29.765	5.047	0.000	Continuing	TBD	
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0			

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

B-52 Modernization is a comprehensive program that will ensure future B-52 viability. B-52 Modernization will first provide a communication and data link suite through the COmbat NEtwork Communications Technology (CONNECT), a three spiral modification program. Spiral one is the Conventional Air Launched Cruise Missile In-flight Beyond Line-Of-Sight Rapid Retasking (CIBR2) modification, which will establish a communications backbone by providing a new client/server architecture using commercial-off-the-shelf (COTS) computers interconnected through a Local Area Network (LAN) system and adding new color displays at each crew station. CIBR2 will improve information processing and presentation. Spiral two is the Airborne Wideband Terminal (AWT) modification, which will integrate an Extremely High Frequency (EHF) radio, which will replace the AFSATCOM radio used for nuclear Command and Control and beyond-line-of sight connectivity. AWT terminal and antenna, which will be developed through the Family of Airborne Terminals (FAB T) program, are architecture keystones to the B-52 conventional beyond-line-of-sight (BLOS) data link integration programs. AWT will provide secure, wideband, high data rate BLOS connectivity. Spiral three will integrate Link 16 Tactical Data Link (TDL) system protocol. Funding for Spiral three is in the Tactical Data Link PE. Starting in Fiscal Year 2008, the B-52 Modernization program includes funding for a modification program which will fully integrate the 12 targeting pods purchased this past year through the Warfighter Rapid Acquisition Process and provide the capability to employ other advanced targeting pods. Additionally, B-52 Modernization funding pays for test activities at the Air Force Flight Test Center (AFFTC); engineering and planning studies for potential future weapon system enhancements (weapons, sensors, and avionics); and weapon system operational/safety, supportability, reliability, and Total Ownership Cost (TOC) improvements.

The B-52 is an operational system resulting in this program being budget activity 7 - Operational System Development.

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

	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) Group A and B Kit Development		8.700	5.578	33.194
(U) Ground and Flight Test Planning		0.831	0.150	0.150
(U) Data Development		0.277	0.854	3.100
(U) Installation/Integration Planning		0.211	1.100	5.599
(U) Support Equipment Development		1.066	2.491	4.599
(U) Software Development		3.284	3.481	8.499
(U) Simulation/Trainer Development		1.203	3.167	8.251
(U) Program Support/Modeling and Simulation/Studies and Analysis		6.423	1.723	3.762
(U) Management support			4.240	3.931
(U) Total Cost	0.000	21.995	22.784	71.085

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

DATE  
**February 2005**

<b>BUDGET ACTIVITY</b> <b>07 Operational System Development</b>	<b>PE NUMBER AND TITLE</b> <b>0101113F B-52 SQUADRONS</b>	<b>PROJECT NUMBER AND TITLE</b> <b>5039 B-52 Modernization</b>
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**(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) AF RDT&E									Continuing	TBD
(U) Other APPN									Continuing	TBD
(U) Aircraft Procurement (BP1100)		4.993	26.468	25.407	145.980	185.122	45.141	51.100	Continuing	TBD

**(U) D. Acquisition Strategy**

B-52 modernization is an development program that will be sole sourced to Boeing, which will be designing group A wiring and fairing for an Electronic System Center developed antenna and associated AWT electronic hardware. At the same time, Boeing will be developing the architecture for a system to process the information; procuring information processing equipment from their subcontractors; and developing drawings, data, and time compliance technical order (TCTO) for the installation on the B-52.

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

DATE

**February 2005**

BUDGET ACTIVITY				PE NUMBER AND TITLE						PROJECT NUMBER AND TITLE					
<b>07 Operational System Development</b>				<b>0101113F B-52 SQUADRONS</b>						<b>5039 B-52 Modernization</b>					
(U) Cost Categories (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>															
Boeing, Wichita	Contract					11.790	Dec-04	15.230	Dec-05	58.750	Dec-06	Continuing	TBD		
Subtotal Product Development			0.000	0.000		11.790		15.230		58.750		Continuing	TBD	0.000	
Remarks:															
(U) <u>Support</u>															
OO-ALC/LIR	616					2.740		3.170		8.251		Continuing	TBD		
OC-ALC/LH	PMA					6.635		1.030		0.920		Continuing	TBD		
ASC								2.410		2.140		Continuing	TBD		
Subtotal Support			0.000	0.000		9.375		6.610		11.311		Continuing	TBD	0.000	
Remarks:															
(U) <u>Test &amp; Evaluation</u>															
419 FLTS	Project Order					0.830		0.150		0.150		Continuing	TBD		
Subtotal Test & Evaluation			0.000	0.000		0.830		0.150		0.150		Continuing	TBD	0.000	
Remarks:															
(U) <u>Management</u>															
Subtotal Management			0.000	0.000		0.000		0.794		0.874		Continuing	TBD	0.000	
Remarks:								0.794		0.874		Continuing	TBD	0.000	
(U) Total Cost			0.000	0.000		21.995		22.784		71.085		Continuing	TBD	0.000	

Exhibit R-4, RDT&E Schedule Profile

DATE

February 2005

BUDGET ACTIVITY  
07 Operational System Development

PE NUMBER AND TITLE  
0101113F B-52 SQUADRONS

PROJECT NUMBER AND TITLE  
5039 B-52 Modernization

Exhibit R-4: B-52 Modernization																											
		FY05				FY06				FY07				FY08				FY09				FY10				TOTAL	
Quarter		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
<b>CONECT SDD Contract</b>		▲																								▲	
<b>SDD CIBRR</b>		▲								▲																	
Color Displays, Client Server Archetecture, SA, CALCM Retasking, ENTR Card, Group A for I- 1 I2 and I3, Group B for I1																											
Ground/FlightTest									▲			▲															
<b>SDD AWT Group A</b>		▲																								▲	
AEHF Antenna Modem Processor Operator Interface																											
Ground/FlightTest													▲												▲		
<b>SDD Link 16 Group A</b>		▲																								▲	
Ground/FlightTest																	▲								▲		
<b>Data</b>				▲																						▲	
<b>Trainer Upgrades</b>		▲																								▲	

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**Exhibit R-4a, RDT&E Schedule Detail**

DATE

**February 2005**

BUDGET ACTIVITY <b>07 Operational System Development</b>	PE NUMBER AND TITLE <b>0101113F B-52 SQUADRONS</b>	PROJECT NUMBER AND TITLE <b>5039 B-52 Modernization</b>
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(U) <u>Schedule Profile</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>
(U) CIBR2 SDD		1-4Q	1-3Q	
(U) AWT SDD		1-4Q	1-4Q	1-4Q
(U) CIBR2 Ground and Flight Testing		4Q	1-4Q	1Q
(U) AWT Ground and Flight Testing				3Q
(U) Production Award			1Q	
(U) Trainer Upgrade			1-4Q	1-4Q
(U) Data		3-4Q	1-4Q	1-4Q