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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604226F: B-1B							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	158.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
654596: Conventional Mission Upgrades	158.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Note FY10, B-1B development efforts are transferring from PE 0604226F, Budget Program Activity Code (BPAC) 654596 to B-1B Squadrons, PE 0101126F, BPAC 675344. This transfers funds / efforts from Budget Activity (BA) 5 Demonstration / Validation to BA 7 Operations Systems Development.											
A. Mission Description and Budget Item Justification This program provides RDT&E funding for the B-1B Conventional Mission Upgrade Program (CMUP). The CMUP program provides new and improved capabilities to the B-1B weapon system that require significant hardware and software development and testing. In addition, the CMUP program addresses reliability and diminishing manufacturing sources (DMS) deficiencies to prevent future grounding of aircraft. B-1B grounding items are addressed in the following efforts: Gyro Stabilization System (GSS), onboard diagnostics Central Integrated Test System (CITS) upgrade, Vertical Situation Display Upgrade (VSDU) to replace unsupportable pilot displays, Radar Reliability and Maintainability Improvement Program (RMIP), and Inertial Navigation System (INS) upgrade. B-1B improvement efforts include, but are not limited to, the development of the Fully Integrated Data Link (FIDL), ALQ-161A defensive system upgrades and a laptop controlled targeting pod (LCTP) capability. Also included is the development of an improved Threat Situational Awareness System (TSAS), and a Digital Communications Improvement (DCI) upgrade. FIDL integrates Link-16 and Beyond Line of Sight (BLOS) data links along with upgraded displays for improved connectivity to command and control authorities and for enhancements to targeting and weapons management. The ALQ-161A defensive system upgrades include the Preprocessor Avionics Control Unit (PACU) software re-host/development. The LCTP effort provides a limited targeting pod capability to meet emerging warfighter needs and a Digital Data Recorder (DDR) to support Non-Traditional Intelligence, Surveillance and Reconnaissance (NTISR). Program includes Congressional Add funding for 16-Carry Adapter Weapons Initiative and the Smart Bomb Rack Upgrade (BRU).											

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APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE			
3600: Research, Development, Test & Evaluation, Air Force		PE 0604226F: B-1B			
BA 5: Development & Demonstration (SDD)					
Upgrades to the B-1B training systems are included in CMUP to keep the training systems current with the aircraft configuration. In addition, program funds cover engineering/planning studies, related engineering efforts, and initiatives for future weapon system enhancements, including efforts to improve weapon system operational capabilities, safety, supportability, maintainability, reliability, and total ownership cost.					
All B-1B development programs support planned requirements for unique identification in their production phases. The B-1B CMUP upgrade program is included in Budget Activity (BA) 5, System Development and Demonstration.					
B. Program Change Summary (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Previous President's Budget	142.643	0.000	0.000	0.000	0.000
Current President's Budget	158.081	0.000	0.000	0.000	0.000
Total Adjustments	15.438	0.000	0.000	0.000	0.000
• Congressional General Reductions		0.000			
• Congressional Directed Reductions		0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds		0.000			
• Congressional Directed Transfers		0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	15.438	0.000	0.000	0.000	0.000
Congressional Add Details (\$ in Millions, and Includes General Reductions)					
Project: 654596: Conventional Mission Upgrades					
Congressional Add: 16-Carry Adapter					
Congressional Add: In FY2009: Smart BRU provides electrical connection to/fires the MK-107 Impulse Cartridges. End connectors frequently get damaged during weapons loading and repair requires the rack to be disassemb...					
Congressional Add Subtotals for Project: 654596					
Congressional Add Totals for all Projects					
	FY 2009	FY 2010			
	4.160	0.000			
	1.560	0.000			
	5.720	0.000			
	5.720	0.000			

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<p><u>Change Summary Explanation</u></p> <p>FY10/11, B-1B development efforts are transferring from PE 0604226F, Budget Program Activity Code (BPAC) 654596 to B-1B Squadrons, PE 0101126F, BPAC 675344. This transfers funds / efforts from Budget Activity (BA) 5 Demonstration / Validation to BA 7 Operations Systems Development.</p>		

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Exhibit R-2A, RDT&E Project Justification: PB 2011 Air Force								DATE: February 2010			
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 5: Development & Demonstration (SDD)				R-1 ITEM NOMENCLATURE PE 0604226F: B-1B				PROJECT 654596: Conventional Mission Upgrades			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
654596: Conventional Mission Upgrades	158.081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification											
This program provides RDT&E funding for the B-1B Conventional Mission Upgrade Program (CMUP). The CMUP program provides new and improved capabilities to the B-1B weapon system that require significant hardware and software development and testing. In addition, the CMUP program addresses reliability and diminishing manufacturing sources (DMS) deficiencies to prevent future grounding of aircraft.											
B-1B grounding items are addressed in the following efforts: Gyro Stabilization System (GSS), onboard diagnostics Central Integrated Test System (CITS) upgrade, Vertical Situation Display Upgrade (VSDU) to replace unsupportable pilot displays, Radar Reliability and Maintainability Improvement Program (RMIP), and Inertial Navigation System (INS) upgrade.											
B-1B improvement efforts include, but are not limited to, the development of the Fully Integrated Data Link (FIDL), ALQ-161A defensive system upgrades and a laptop controlled targeting pod (LCTP) capability. Also included is the development of an improved Threat Situational Awareness System (TSAS), and a Digital Communications Improvement (DCI) upgrade.											
FIDL integrates Link-16 and Beyond Line of Sight (BLOS) data links along with upgraded displays for improved connectivity to command and control authorities and for enhancements to targeting and weapons management. The ALQ-161A defensive system upgrades include the Preprocessor Avionics Control Unit (PACU) software re-host/development. The LCTP effort provides a limited targeting pod capability to meet emerging warfighter needs and a Digital Data Recorder (DDR) to support Non-Traditional Intelligence, Surveillance and Reconnaissance (NTISR). Program includes Congressional Add funding for 16-Carry Adapter Weapons Initiative and the Smart Bomb Rack Upgrade (BRU).											
Upgrades to the B-1B training systems are included in CMUP to keep the training systems current with the aircraft configuration. In addition, program funds cover engineering/planning studies, related engineering efforts, and initiatives for future weapon system enhancements, including efforts to improve weapon system operational capabilities, safety, supportability, maintainability, reliability, and total ownership cost.											

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All B-1B development programs support planned requirements for unique identification in their production phases. The B-1B CMUP upgrade program is included in Budget Activity (BA) 5, System Development and Demonstration.						
B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
MAJOR THRUST: B-1B bomber system design & development efforts to avert/alleviate grounding of aircraft due to diminishing manufacturing source (DMS) issues impacting the fleet's onboard computer.		152.361	0.000	0.000	0.000	0.000
FY 2009 Accomplishments: In FY 2009: The B-1 was fully into development efforts involving FIDL, VSD, Radar RMIP, CITS and INS. From almost the beginning of FY09 funding issues were evident. FIDL, VSD and CITS all breached their APBs. CITS was a known breach due to managing it alongside FIDL and VSD. The decision to package FIDL, VSD and CITS was made as early as 2006 in order to minimize the overall production costs, specifically installation costs. FIDL costs rose and the schedule moved to the right significantly. The new FIDL APB had to be approved by SAF/AQ. CITS did complete a new APB; however, VSD did not. FIDL completed Phase I flight test and is postured for Phase II. Radar and INS both continued to use the BAC 1-11 to reduce risk and prepare for MS C. VSD faced continued schedule adjustments and related cost growth. During third and fourth quarter the B-1 3600 funding position became such that a work slowdown was initiated with the prime contractor which lasted through the end of the FY. Programs felt the impact of that slowdown in various ways. Due to major support from ASC and SAF, prior year funds were provided to help alleviate the impacts of the slowdown. The B-1 entered FY10 in a much better position that was thought to be possible due to extended fiscal support from multiple agencies.						
FY 2010 Plans: In FY2010: Not Applicable						
FY 2011 Base Plans: In FY2011: Not Applicable						

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2011 OCO Plans: In FY 2011 OCO: Not Applicable.						
Accomplishments/Planned Programs Subtotals		152.361	0.000	0.000	0.000	0.000
		FY 2009	FY 2010			
Congressional Add: 16-Carry Adapter FY 2009 Accomplishments: In FY2009: The 16-Carry Adapter enhances the B-1 weapons carriage load out on the Conventional Multi-Purpose Rotary Launcher (MPRL) with a 16 weapon carriage capability of GBU-38/B and/or MK 82 Low Drag General Purpose (LDGP) weapons. This demonstration effort provides for the hardware development, testing and technical data requirements necessary for safe weapon separation of the GBU-38/B and/or MK82 LDGP weapons. Minimal software architecture development will also be accomplished. Program baseline is complete; contract was awarded in fourth quarter, FY2009. FY 2010 Plans: In FY2010: Not Applicable		4.160	0.000			
Congressional Add: In FY2009: Smart BRU provides electrical connection to/fires the MK-107 Impulse Cartridges. End connectors frequently get damaged during weapons loading and repair requires the rack to be disassemb... FY 2009 Accomplishments: In FY2010: Not Applicable		1.560	0.000			

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B. Accomplishments/Planned Program (\$ in Millions)											
								FY 2009	FY 2010		
<i>FY 2010 Plans:</i> In FY2011: Not Applicable											
Congressional Adds Subtotals								5.720	0.000		
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• PE 0101126F: <i>B-1B, Aircraft Procurement BP11, Mods</i>	29.887	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0101126F (1): <i>B-1B, Aircraft Procurement BP16, Initial Spares</i>	2.515	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0101126F (2): <i>B-1B, Aircraft Procurement BP12, Common Support Equipment</i>	2.649	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
• PE 0207446F: <i>Bomber TDL Core</i>	21.603	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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); installed performance responsibility; use of 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.											
E. Performance Metrics											
Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.											

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Product Development (\$ in Millions)													
				FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
(U) Central Integrated Test System (CITS)	SS/CPIF	Boeing Long Beach, CA	43.011	0.000		0.000		0.000		0.000	0.000	43.011	0.000
(U) Vertical Situation Display Upgrade (VSDU)	SS/CPFF	Boeing Long Beach CA	72.122	0.000		0.000		0.000		0.000	0.000	72.122	0.000
(U) Radar Reliability and Maintainability Improvement Program (RMIP)	SS/CPIF	Boeing Long Beach, CA	150.867	0.000		0.000		0.000		0.000	0.000	150.867	0.000
(U) Inertial Navigation System (INS) upgrade	SS/CPIF	Boeing Long Beach, CA	34.369	0.000		0.000		0.000		0.000	0.000	34.369	0.000
(U) Fully Integrated Data Link (FIDL)	SS/CPIF	Boeing Long Beach, CA	93.556	0.000		0.000		0.000		0.000	0.000	93.556	0.000
(U) ALQ-161A Preprocessor Avionics Control Unit (PACU)	SS/CPFF	561st Robins AFB, GA	44.735	0.000		0.000		0.000		0.000	0.000	44.735	0.000
(U) Threat Situational Awareness System (TSAS)	SS/CPFF	Boeing Long Beach, CA	33.701	0.000		0.000		0.000		0.000	0.000	33.701	0.000
(U) Laptop Controlled Targeting Pod (LCTP)	SS/CPFF	Boeing Long Beach, CA	4.157	0.000		0.000		0.000		0.000	0.000	4.157	0.000
(U) 16-Carry (Congressional Add (CA))	SS/CPIF	Boeing Long Beach, CA	12.960	0.000		0.000		0.000		0.000	0.000	12.960	0.000
(U) Smart Bomb Rack Unit (BRU) (CA)	TBD/TBD	TBD TBD	1.560	0.000		0.000		0.000		0.000	0.000	1.560	0.000
Subtotal			491.038	0.000		0.000		0.000		0.000	0.000	491.038	0.000

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Product Development (\$ in Millions) <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <th colspan="4"></th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th colspan="3"></th> </tr> <tr> <th>Cost Category Item</th> <th>Contract Method & Type</th> <th>Performing Activity & Location</th> <th>Total Prior Years Cost</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Award Date</th> <th>Cost</th> <th>Cost To Complete</th> <th>Total Cost</th> <th>Target Value of Contract</th> </tr> </table>																		FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total				Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract																																										
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(U) Advisory & Assistance Support (A&AS)	Various/ Various	Various Various	10.865	0.000		0.000		0.000		0.000	0.000	10.865	0.000																																																																						
(U) Studies & Analyses / Modeling & Simulation	C/FPI	Rockwell Collins Sterling VA	1.296	0.000		0.000		0.000		0.000	0.000	1.296	0.000																																																																						
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Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																	
				Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost																																																				
(U) Air Force Flight Test Center (AFFTC)	PO	AFFTC Edwards AFB, CA	70.986	0.000		0.000		0.000		0.000	0.000	70.986	0.000																																																	
Subtotal			70.986	0.000		0.000		0.000		0.000	0.000	70.986	0.000																																																	
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2"></th> <th rowspan="2">Total Prior Years Cost</th> <th colspan="2">FY 2010</th> <th colspan="2">FY 2011 Base</th> <th colspan="2">FY 2011 OCO</th> <th>FY 2011 Total</th> <th rowspan="2">Cost To Complete</th> <th rowspan="2">Total Cost</th> <th rowspan="2">Target Value of Contract</th> </tr> <tr> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td align="right" colspan="2">Project Cost Totals</td> <td align="right">574.185</td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td></td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">0.000</td> <td align="right">574.185</td> <td align="right">0.000</td> </tr> </tbody> </table> <p>Remarks Total Prior Years Cost may include only FY 2009 data.</p>															Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract							Project Cost Totals		574.185	0.000		0.000		0.000	0.000	0.000	574.185	0.000																			
	Total Prior Years Cost	FY 2010		FY 2011 Base		FY 2011 OCO		FY 2011 Total	Cost To Complete	Total Cost	Target Value of Contract																																																			
Project Cost Totals		574.185	0.000		0.000		0.000	0.000	0.000	574.185	0.000																																																			

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Exhibit R-4, RDT&E Schedule Profile: PB 2011 Air Force

DATE: February 2010

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force
BA 5: Development & Demonstration (SDD)

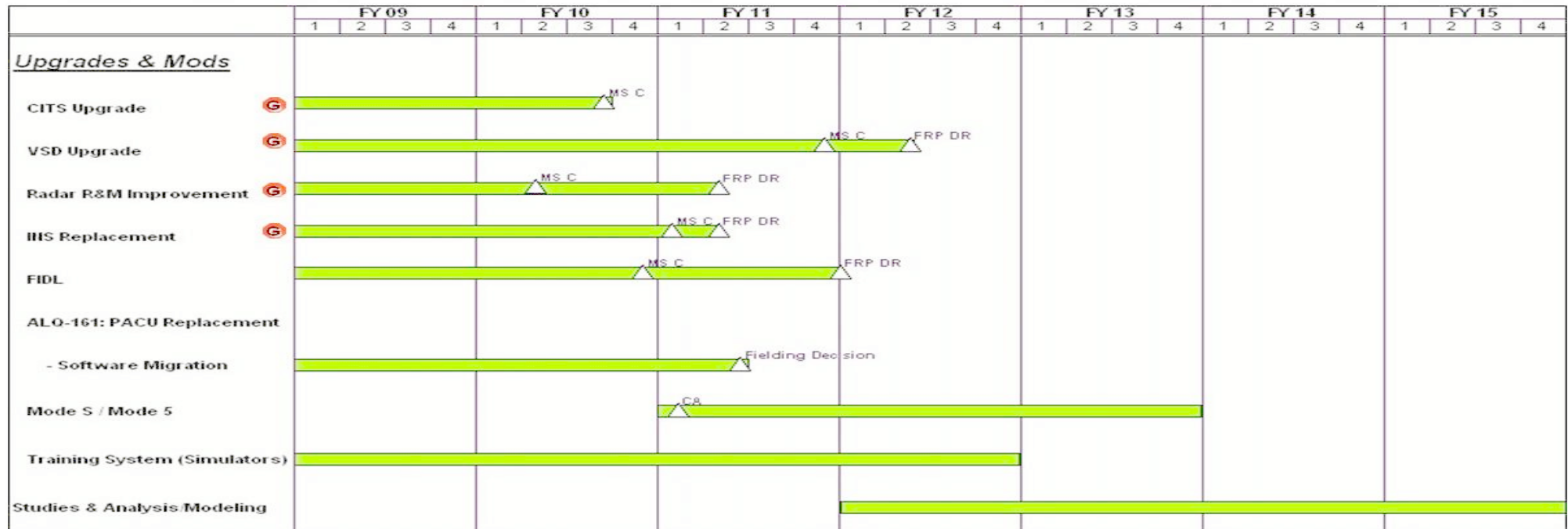
R-1 ITEM NOMENCLATURE

PE 0604226F: B-1B

PROJECT

654596: Conventional Mission Upgrades

Development Activity



CA - Contract Award
MS - Milestone
PDR - Preliminary Design Review
CDR - Critical Design Review
FRP DR - Full Rate Production Decision Review
HW - Hardware
LCTP - Laptop Controlled Targeting Pod
RAA - Required Assets Available
UNR - Urgent Need Request

△ Forecast Activity
▲ Completed
RDT&E Funding
G Grounding Item

17 Dec 09

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Exhibit R-4A, RDT&E Schedule Details: PB 2011 Air Force			DATE: February 2010
APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 5: <i>Development & Demonstration (SDD)</i>	R-1 ITEM NOMENCLATURE PE 0604226F: <i>B-1B</i>	PROJECT 654596: <i>Conventional Mission Upgrades</i>	

Schedule Details

Event	Start		End	
	Quarter	Year	Quarter	Year
Central Integrated Test System (CITS) - program start FY2004	1	2009	4	2009
Central Integrated Test System (CITS) - program completion FY2010	1	2009	4	2009
Vertical Situational Display Upgrade (VSDU) - program start FY2006	1	2009	4	2009
Vertical Situational Display Upgrade (VSDU) - program completion FY2012	1	2009	4	2009
Radar Reliability & Maintainability Improvement Program (RMIP) - program start FY2006	1	2009	4	2009
Radar Reliability & Maintainability Improvement Program (RMIP) - program completion FY2011	1	2009	4	2009
Inertial Navigation System (INS) - program start FY2007	1	2009	4	2009
Inertial Navigation System (INS) - program completion FY2011	1	2009	4	2009
Fully Integrated Data Link (FIDL) - program start FY2004	1	2009	4	2009
Fully Integrated Data Link (FIDL) - program completion FY2011	1	2009	4	2009
Preprocessor Avionics Control Unit (PACU) software migration - program start FY2004	1	2009	4	2009
Preprocessor Avionics Control Unit (PACU) software migration - program completion FY2011	1	2009	4	2009

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