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Exhibit R-2, RD&E Budget Item Justification: PB 2012 Air Force

DATE: February 2011

APPROPRIATION/BUDGET ACTIVITY

3600: Research, Development, Test & Evaluation, Air Force

BA 7: Operational Systems Development

R-1 ITEM NOMENCLATURE

PE 0101127F: B-2 SQUADRONS

The program funding includes reductions for acquisition excellence efficiencies for project 676023 in FY15 and FY16 that are not intended to impact program content. Reductions for efficiencies may be spread to other Air Force programs at a later date. Amounts of the reductions are: \$3.7M/FY15 and \$54.2M/FY16.

A. Mission Description and Budget Item Justification

The B-2A Spirit is the world's most advanced long-range strike asset. The unique combination of range, precision, payload, and ability to operate in anti-access environments allow the B-2 to identify, locate, target, and destroy the highest value enemy targets. The B-2 can, with necessary upgrades, accomplish its mission regardless of location, return to base safely, and permit freedom of movement for follow-on forces, including other long range strike platforms.

The array of planned RD&E projects are necessary to both preserve this strategic advantage as well as increase the flexibility, lethality, and survivability of this national asset tasked across a broad spectrum, from tactical to national objectives. Upgrades include, but are not limited to, armament systems, structures, engine improvements, low observable modifications, trainers, support equipment, Radar Modernization Program (RMP), Link-16 Center Instrument Display (CID)/In-Flight Replanner (IFR), Ultra High Frequency (UHF) Satellite Communication (SATCOM), Mode 5/S Identification Friend or Foe (IFF)-Automatic Dependence Surveillance-Broadcast, Adaptable Communications Suite (ACS), Extremely High Frequency (EHF) SATCOM and Computers, Defensive Management System (DMS), Electro-magnetic pulse (EMP) Hardening Testing, and advanced, low detection data links upgrades.

Specific efforts will be managed under one of four projects:

- 676021 Baseline Support
- 676022 EHF SATCOM and Computer
- 676023 Defensive Management System
- 675345 B-2 Modernization

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

B. Program Change Summary (\$ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	407.189	260.466	295.333	-	295.333
Current President's Budget	351.549	260.466	340.819	-	340.819
Total Adjustments	-55.640	-	45.486	-	45.486
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	-	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-2.039	-	-	-	-
• SBIR/STTR Transfer	-51.902	-	-	-	-
• Other Adjustments	-1.699	-	45.486	-	45.486

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PROJECT
 675345: B-2 Modernization

B. Accomplishments/Planned Programs (\$ in Millions)

Description: Development of Low Observable improvements, Proximity Sensor Logic Unit (PSLU), Massive Ordnance Penetrator (MOP), Integrated Windshield Solution, Trainer Upgrades, Electro Magnetic Pulse (EMP) Testing, Common Organizational Level Tester (COLT), Adaptable Communication Suite (ACS), Guided Bomb Unit (GBU) -28, Aft Deck, Mode S/5, and other airframe and avionics improvements.	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
	<p>FY 2010 Accomplishments: Continue development of Low Observable improvements, Proximity Sensor Logic Unit (PSLU), Massive Ordnance Penetrator (MOP), Integrated Strike Warfare (ISW), Advanced Tactical Data Link (ATDL), Trainer Upgrades, EMP Testing, COLT, ACS, GBU-28, Mode S/5, and other airframe, avionics, and weapons improvements. Complete Integrated Windshield Solution.</p> <p>FY 2011 Plans: Continue development of on-going Low Observable improvements, ISW, ATDL, Trainer Upgrades, COLT, PSLU, GBU-28, and other airframe, avionics, and weapons improvements. Complete development efforts for ACS, and complete integration of the MOP QRC weapon on the B-2 platform and the EMP test.</p> <p>FY 2012 Base Plans: Continue development of on-going Low Observable improvements, ISW, ATDL, Trainer Upgrades, EMP Testing, GBU-28, and other airframe, avionics, and weapons improvements. Complete PSLU and COLT.</p> <p>FY 2012 OCO Plans:</p>	329.865	260.466	5.135	-
Accomplishments/Planned Programs Subtotals					
	FY 2010	FY 2011			
Congressional Add: B-2 Advanced Tactical Data Link (ATDL)	9.560	-			
FY 2010 Accomplishments: B-2 Strike Control System upgrade establishes the foundation for all future data fusion and pilot vehicle interface (PVI) upgrades on B-2. Funds applied to the development B-2 DMS.					
FY 2011 Plans:					
Congressional Add: B-2 Strike Control System	12.124	-			