

**UNCLASSIFIED**

**Exhibit P-40, Budget Line Item Justification:** PB 2015 Air Force **Date:** March 2014

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft

**P-1 Line Item Number / Title:**  
B01B00 / B-1B

**ID Code** (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** 0101126F **Other Related Program Elements:** 0101126F

Resource Summary	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO#	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	566.034	136.025	104.135	140.252	-	140.252	129.338	114.507	71.220	88.128	-	1,349.639
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	566.034	136.025	104.135	140.252	-	140.252	129.338	114.507	71.220	88.128	-	1,349.639
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>566.034</b>	<b>136.025</b>	<b>104.135</b>	<b>140.252</b>	<b>-</b>	<b>140.252</b>	<b>129.338</b>	<b>114.507</b>	<b>71.220</b>	<b>88.128</b>	<b>-</b>	<b>1,349.639</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-

# The FY 2015 OCO Request will be submitted at a later date.

**Description:**

The B-1B Lancer is a swing-wing, supersonic, long-range, conventional bomber. It carries the largest payload of both guided and unguided weapons in the Air Force inventory. The multi-mission B-1B is the backbone of America's long-range bomber force and can rapidly deliver massive quantities of precision and non-precision weapons against any adversary, anywhere in the world, at any time. The current service life extends beyond 2040.

This line item funds modifications to the B-1B aircraft and associated simulators and equipment. The specific modifications budgeted and programmed are below.

Funding for this exhibit contained in PE 0101126F.

Exhibits Schedule		Prior Years			FY 2013			FY 2014			FY 2015 Base			FY 2015 OCO			FY 2015 Total			
Title*	Exhibits	ID CD	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Item - 1 / Simulator Digital Control Loading	P-40a***		-	-	1.024	-	-	1.544	-	-	-	-	-	-	-	-	-	-	-	-
Item - 2 / Gyro Stabilization System (GSS)	P-40a***		-	-	55.696	-	-	4.520	-	-	3.957	-	-	0.701	-	-	-	-	-	0.701
Item - 3 / Inertial Navigation System (INS)	P-40a***		-	-	44.165	-	-	10.719	-	-	7.031	-	-	4.103	-	-	-	-	-	4.103
Item - 4 / B-1 TRAINING SUPPORT	P-40a***		-	-	1.080	-	-	0.269	-	-	0.333	-	-	0.427	-	-	-	-	-	0.427

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**Exhibit P-40, Budget Line Item Justification:** PB 2015 Air Force **Date:** March 2014

**Appropriation / Budget Activity / Budget Sub Activity:**  
3010F: Aircraft Procurement, Air Force / BA 05: Modification of Inservice Aircraft / BSA 1: Strategic Aircraft

**P-1 Line Item Number / Title:**  
B01B00 / B-1B

**ID Code** (A=Service Ready, B=Not Service Ready) : **Program Elements for Code B Items:** 0101126F **Other Related Program Elements:** 0101126F

Exhibits Schedule		ID CD	Prior Years			FY 2013			FY 2014			FY 2015 Base			FY 2015 OCO			FY 2015 Total		
Title*	Exhibits		Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ M)	Qty (Each)	Total Cost (\$ M)
Item - 5 / Digital Communications	P-40a***		-	-	36.824	-	-	-	-	-	0.257	-	-	0.100	-	-	-	-	-	0.100
Item - 6 / RADAR IMPROVEMENT UPGRADE	P-40a***		-	-	154.321	-	-	10.498	-	-	3.642	-	-	1.265	-	-	-	-	-	1.265
Item - 7 / B-1 Link 16 Crypto	P-40a***		-	-	-	-	-	-	-	-	-	-	-	0.223	-	-	-	-	-	0.223
Item - 8 / LAPTOP CONTROLLED TARGETING POD	P-40a***		-	-	68.694	-	-	-	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
Item - 9 / LOW COST MODIFICATIONS	P-40a***		-	-	2.649	-	-	1.249	-	-	0.100	-	-	0.100	-	-	-	-	-	0.100
P-3a - 4280 / FULLY INTEGRATED DATA LINKS	P-3a		-	-	121.375	-	-	58.150	-	-	43.750	-	-	58.742	-	-	-	-	-	58.742
P-3a - 4281 / Self Contained Attitude Indicator	P-3a		-	-	-	-	-	-	-	-	-	-	-	8.209	-	-	-	-	-	8.209
P-3a - 4284 / CITS UPGRADE	P-3a		-	-	29.760	-	-	16.493	-	-	14.099	-	-	22.000	-	-	-	-	-	22.000
P-3a - 8971 / VERTICAL SITUATION DISPLAYS	P-3a		-	-	50.446	-	-	32.583	-	-	30.866	-	-	44.282	-	-	-	-	-	44.282
<b>Total Gross/Weapon System Cost</b>			-	-	<b>566.034</b>	-	-	<b>136.025</b>	-	-	<b>104.135</b>	-	-	<b>140.252</b>	-	-	-	-	-	<b>140.252</b>

\*\*\* Although this is an Exhibit P-40a item, the actual exhibit is not included since all of the required information for this item is already being shown here.

\*For Items, Title represents the Item Number / Title [DODIC]. For the P-3a, Title represents the Modification Number / Title.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**  
Where applicable, justification for individual modifications is provided in the P-3A exhibits.

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<b>Exhibit P-3a, Individual Modification: PB 2015 Air Force</b>		<b>Date:</b> March 2014
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1	<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B	<b>Modification Number / Title:</b> 4280 / FULLY INTEGRATED DATA LINKS

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO#</b>	<b>FY 2015 Total</b>
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	121.375	58.150	43.750	58.742	-	58.742
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P1) ( <i>\$ in Millions</i> )	121.375	58.150	43.750	58.742	-	58.742
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	<b>121.375</b>	<b>58.150</b>	<b>43.750</b>	<b>58.742</b>	-	<b>58.742</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Gross/Weapon System Unit Cost ( <i>\$ in Millions</i> )	-	-	-	-	-	-

# The FY 2015 OCO Request will be submitted at a later date.

**Description:**

Fully Integrated Data Link (FIDL) is a net-centric warfare upgrade enabling full B-1B participation in joint combat and time-critical targeting operations. FIDL adds line-of-sight and beyond line-of-sight command and control (C2) connectivity through the addition of Link 16 and Joint Range Extension (JRE) data link. Modification funds will procure and install Group A and B kits for the FIDL upgrade to the B-1B.

This modification provides two tactical data processors and five multi-function displays for the B-1B aft crew stations. This modification also adds an Ethernet infrastructure enabling rapid airborne re-targeting by high-speed transfer of aircraft information to all four crew stations and on-board weapons. FIDL installations are scheduled concurrently with Central Integrated Test System (CITS) and Vertical Situation Display Upgrade (VSDU) to reduce installation costs, aircraft downtime, and to keep fielded aircraft configurations to a minimum for aircrew training, maintenance, and operational deployment efficiencies.

Modification funding is being used to alleviate Diminishing Manufacturing Sources (DMS) and Material Shortages (DMSMS) issues. DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS). Activities comprised in the equipment non-recurring line include, but are not limited to, production test equipment and tooling. Group B non-recurring also includes Systems Engineering Program Management (SEPM).

Modification funds from fiscal years 2012 and 2013 will be used to acquire five Group A and Group B kits, support equipment and SEPM with the award of the Lot 4 production buy in the second quarter of FY 2014.

Requirement list in ORD: B-1B Conventional Mission Upgrade Program (26 Jan 05) (ORD CAF-357-92 (SAC 007-92) I/II-A, Rev 2, Annex A).

**Milestone/Development Status**

The EMD phase completed October 2011.

Two aircraft were modified using Research Development Test and Evaluation (RDT&E) funding in PE 0604226F / 0101126F.

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<b>Exhibit P-3a, Individual Modification: PB 2015 Air Force</b>					<b>Date: March 2014</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1			<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B		<b>Modification Number / Title:</b> 4280 / FULLY INTEGRATED DATA LINKS	
<b>Models of Systems Affected: B-1B</b>		<b>Modification Type: Capability Improvement</b>			<b>Related RDT&amp;E PEs: 0101126F</b>	
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>RDT&amp;E PE #</b>						
0101126F	- / 162.988	- / -	- / -	- / -	- / -	- / -
<b>Procurement</b>						
<i>Modification Item 1 of 1: IBS</i>						
A Kits						
Recurring						
IBS:INSTALL KITS Group A (Active)	13 / 4.951	15 / 5.515	5 / 1.609	10 / 3.431	- / -	10 / 3.431
<i>Subtotal: Recurring</i>	- / 4.951	- / 5.515	- / 1.609	- / 3.431	- / -	- / 3.431
B Kits						
Recurring						
IBS:EQUIPMENT Group B (Active)	13 / 39.893	15 / 25.309	5 / 7.385	10 / 16.632	- / -	10 / 16.632
<i>Subtotal: Recurring</i>	- / 39.893	- / 25.309	- / 7.385	- / 16.632	- / -	- / 16.632
<i>Subtotal: IBS</i>	- / 44.844	- / 30.824	- / 8.994	- / 20.063	- / -	- / 20.063
<i>Subtotal: Procurement, All Modification Items</i>	- / 44.844	- / 30.824	- / 8.994	- / 20.063	- / -	- / 20.063
<b>Support (All Modification Items)</b>						
GROUP B: TOTAL NONRECURRING	- / 40.488	- / 19.459	- / 11.106	- / 8.068	- / -	- / 8.068
Change Orders	- / 5.055	- / 2.146	- / 12.801	- / 2.679	- / -	- / 2.679
Data	- / 1.758	- / 0.331	- / -	- / 0.025	- / -	- / 0.025
SIM/TRAINER	0 / 0.000	- / 4.147	- / -	- / 0.806	- / -	- / 0.806
SUPPORT-EQUIP	- / 24.585	- / 4.663	- / 4.810	- / 5.293	- / -	- / 5.293
ICS-Labor	- / -	- / 0.974	- / 0.292	- / 2.074	- / -	- / 2.074
ICS-Material	- / -	- / -	- / 2.700	- / 1.350	- / -	- / 1.350
OTHER GOVT	- / 2.327	- / 0.249	- / 1.082	- / 2.277	- / -	- / 2.277
PMA - Contractor Services	- / 0.997	- / 1.577	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / 0.017	- / 0.052	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	0 / 75.227	- / 23.598	- / 22.791	- / 22.572	- / -	- / 22.572
<b>Installation</b>						
<i>Modification Item 1 of 1: IBS</i>	1 / 1.304	3 / 3.728	7 / 11.965	10 / 16.107	- / -	10 / 16.107
<i>Subtotal: Installation</i>	1 / 1.304	3 / 3.728	7 / 11.965	10 / 16.107	- / -	10 / 16.107
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	<b>121.375</b>	<b>58.150</b>	<b>43.750</b>	<b>58.742</b>	<b>-</b>	<b>58.742</b>

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<b>Exhibit P-3a, Individual Modification:</b> PB 2015 Air Force		<b>Date:</b> March 2014
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1	<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B	<b>Modification Number / Title:</b> 4280 / FULLY INTEGRATED DATA LINKS

**Modification Item 1 of 1:** IBS  
**Modification Item MDAP/MAIS Code:**

**Manufacturer Information**

Manufacturer Name: Boeing		Manufacturer Location: Oklahoma City, OK	
Administrative Leadtime (in Months): 4		Production Leadtime (in Months): 18	
<b>Dates</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
Contract Dates	May 2013	Feb 2014	Feb 2015
Delivery Dates	Nov 2014	Aug 2015	Aug 2016

**Installation Information**

**Method of Implementation:** Depot

Installation Cost	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 1.304	3 / 3.728	7 / 11.965	2 / 3.221	- / -	2 / 3.221
FY 2013	- / -	- / -	- / -	8 / 12.886	- / -	8 / 12.886
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>	1 / 1.304	3 / 3.728	7 / 11.965	10 / 16.107	- / -	10 / 16.107

**Installation Schedule**

	PYS	FY 2013				FY 2014				FY 2015			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
In	1	-	-	1	2	-	2	3	2	3	2	3	2
Out	0	-	-	-	-	-	2	1	1	3	3	3	2

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<b>Exhibit P-3a, Individual Modification: PB 2015 Air Force</b>				<b>Date:</b> March 2014		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1		<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B		<b>Modification Number / Title:</b> 4281 / Self Contained Attitude Indicator		

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO<sup>#</sup></b>	<b>FY 2015 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	-	-	-	8.209	-	8.209
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	-	-	-	8.209	-	8.209
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	-	-	-	<b>8.209</b>	-	<b>8.209</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-

<sup>#</sup> The FY 2015 OCO Request will be submitted at a later date.

**Description:**

Self-Contained Standby Attitude Indicator (SCAI) will replace the B-1B's standby altitude, attitude, and airspeed/Mach indicators with a single combined standby instrument displaying the altitude, attitude, and airspeed/Mach flight information.

This development activity will replace the current obsolete legacy backup indicators with a more reliable/supportable unit. SCAI must be functional and reliable in the event of primary flight display failure, and is a Mission-Essential Subsystem List (MESL) item.

One test aircraft will be modified using Research, Development, Test and Evaluation (RDT&E) funding.

Requirement listed in ORD: B-1B Conventional Mission Upgrade Program (26 Jan 05) (ORD CAF-357-92 (SAC 007-92) I/II-A, Rev 2, Annex A).

This is a FY15 new start for Aircraft Procurement Air Force (APAF) funding.

**Milestone/Development Status**

Engineering and Manufacturing Development (EMD) contract award planned for FY 2014.

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<b>Exhibit P-3a, Individual Modification: PB 2015 Air Force</b>					<b>Date: March 2014</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1			<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B		<b>Modification Number / Title:</b> 4281 / Self Contained Attitude Indicator	
<b>Models of Systems Affected: B-1B</b>		<b>Modification Type: Capability Improvement</b>			<b>Related RDT&amp;E PEs: 0101126F</b>	
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>RDT&amp;E PE #</b>						
0101126F	- / -	- / 3.000	1 / 5.200	- / -	- / -	- / -
<b>Procurement</b>						
<b>Modification Item 1 of 1: SCAI Kit</b>						
A Kits						
Recurring						
SCAI Kit:INSTALL KITS Group A (Active)	- / -	- / -	- / -	53 / -	- / -	53 / -
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / -	- / -	- / -
B Kits						
Recurring						
SCAI Kit:EQUIPMENT Group B (Active)	- / -	- / -	- / -	53 / 5.286	- / -	53 / 5.286
<i>Subtotal: Recurring</i>	- / -	- / -	- / -	- / 5.286	- / -	- / 5.286
<i>Subtotal: SCAI Kit</i>	- / -	- / -	- / -	- / 5.286	- / -	- / 5.286
<i>Subtotal: Procurement, All Modification Items</i>	- / -	- / -	- / -	- / 5.286	- / -	- / 5.286
<b>Support (All Modification Items)</b>						
Change Orders	- / -	- / -	- / -	- / 0.059	- / -	- / 0.059
Data	- / -	- / -	- / -	- / 0.026	- / -	- / 0.026
SIM/TRAINER	- / -	- / -	- / -	- / 1.900	- / -	- / 1.900
PMA - Other Gov't Costs	- / -	- / -	- / -	- / 0.035	- / -	- / 0.035
OTHER GOVT	- / -	- / -	- / -	- / 0.903	- / -	- / 0.903
<i>Subtotal: Support</i>	- / -	- / -	- / -	- / 2.923	- / -	- / 2.923
<b>Installation</b>						
<i>Subtotal: Installation</i>	- / -	- / -	- / -	- / -	- / -	- / -
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	-	-	-	8.209	-	8.209

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<b>Exhibit P-3a, Individual Modification:</b> PB 2015 Air Force		<b>Date:</b> March 2014	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1		<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B	
		<b>Modification Number / Title:</b> 4281 / Self Contained Attitude Indicator	
<b>Modification Item 1 of 1:</b> SCAI Kit			
<b>Modification Item MDAP/MAIS Code:</b>			
<b>Manufacturer Information</b>			
Manufacturer Name: TBD		Manufacturer Location: TBD	
Administrative Leadtime ( <i>in Months</i> ): 8		Production Leadtime ( <i>in Months</i> ): 12	
<b>Dates</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015</b>
Contract Dates			Jun 2015
Delivery Dates			Jun 2016
<b>Installation Information</b>			
<b>Method of Implementation (Organic):</b> Org/Intermediate		<b>Installation Quantity:</b> 61	



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<b>Exhibit P-3a, Individual Modification: PB 2015 Air Force</b>				<b>Date: March 2014</b>		
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1		<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B		<b>Modification Number / Title:</b> 4284 / CITS UPGRADE		

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO#</b>	<b>FY 2015 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	29.760	16.493	14.099	22.000	-	22.000
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	29.760	16.493	14.099	22.000	-	22.000
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>29.760</b>	<b>16.493</b>	<b>14.099</b>	<b>22.000</b>	<b>-</b>	<b>22.000</b>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-

# The FY 2015 OCO Request will be submitted at a later date.

**Description:**

Central Integrated Test System (CITS) is the B-1B on-board diagnostic system that monitors aircraft avionics and mechanical systems on the ground and during flight, reporting faults to aircrew and maintainers. The current CITS suffers from Diminishing Manufacturing Source (DMS) issues with the potential to ground aircraft. Current CITS processor is also at maximum memory/throughput, inhibiting fault detection and isolation for current systems and future B-1B upgrades.

Modification funds will procure and install Group A and Group B kits for the CITS upgrade to the B-1B. This modification provides a new CITS Dedicated Processor (CDP), upgraded Multi-Functional Display (MFD), and re-hosted CITS software, resulting in enhanced diagnostic capabilities, improved turnaround time, and reduced maintenance costs. CITS installations are scheduled concurrently with the Fully Integrated Data Link (FIDL) and the Vertical Situation Display Upgrade (VSDU) to reduce installation costs, aircraft downtime, and to keep fielded aircraft configurations to a minimum for aircrew training, maintenance, and operational deployment efficiencies.

Modification funding is being used to alleviate Diminishing Manufacturing Sources and Material Shortages (DMSMS). DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS). Activities comprised in the equipment non-recurring line include, but are not limited to, production test equipment and tooling. Group B non-recurring also includes Systems Engineering Program Management (SEPM).

Modification funds from fiscal years 2012 and 2013 will be used to acquire five Group A and Group B kits, support equipment and SEPM with the award of the Lot 4 production buy in the second quarter of FY 2014.

Requirement listed in ORD: B-1B Conventional Mission Upgrade Program (26 Jan 05) (ORD CAF-357-92 (SAC 007-92) I/II-A, Rev 2, Annex A).

**Milestone/Development Status**

The Engineering & Manufacturing Development phase completed Oct 10.

Two aircraft were modified using Research Development Test and Evaluation (RDT&E) funding in PE 0604226F / 0101126F.

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<b>Exhibit P-3a, Individual Modification: PB 2015 Air Force</b>					<b>Date: March 2014</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1			<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B		<b>Modification Number / Title:</b> 4284 / CITS UPGRADE	
<b>Models of Systems Affected: B-1B</b>		<b>Modification Type: Service Life Extension</b>			<b>Related RDT&amp;E PEs: 0101126F</b>	
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
<b>RDT&amp;E PE #</b>						
0101126F	- / 49.635	- / -	- / -	- / -	- / -	- / -
<b>Procurement</b>						
<i>Modification Item 1 of 1: IBS (2)</i>						
A Kits						
Recurring						
IBS:INSTALL KITS Group A (Active)	13 / 1.043	15 / 1.178	5 / 0.420	10 / 0.890	- / -	10 / 0.890
<i>Subtotal: Recurring</i>	<i>- / 1.043</i>	<i>- / 1.178</i>	<i>- / 0.420</i>	<i>- / 0.890</i>	<i>- / -</i>	<i>- / 0.890</i>
B Kits						
Recurring						
IBS:EQUIPMENT Group B (Active)	13 / 5.356	15 / 5.407	5 / 1.928	10 / 2.766	- / -	10 / 2.766
<i>Subtotal: Recurring</i>	<i>- / 5.356</i>	<i>- / 5.407</i>	<i>- / 1.928</i>	<i>- / 2.766</i>	<i>- / -</i>	<i>- / 2.766</i>
<i>Subtotal: IBS (2)</i>	<i>- / 6.399</i>	<i>- / 6.585</i>	<i>- / 2.348</i>	<i>- / 3.656</i>	<i>- / -</i>	<i>- / 3.656</i>
<i>Subtotal: Procurement, All Modification Items</i>	<i>- / 6.399</i>	<i>- / 6.585</i>	<i>- / 2.348</i>	<i>- / 3.656</i>	<i>- / -</i>	<i>- / 3.656</i>
<b>Support (All Modification Items)</b>						
GROUP B: TOTAL NONRECURRING	- / 16.629	- / 13.419	- / 10.289	- / 3.944	- / -	- / 13.944
Change Orders	- / 1.083	- / 0.790	- / 2.808	- / 0.636	- / -	- / 0.636
Data	- / 1.146	- / 0.147	- / -	- / 0.011	- / -	- / 0.011
SIM/TRAINER	0 / 0.050	- / 2.358	- / -	- / 0.269	- / -	- / 0.269
SUPPORT-EQUIP	- / 3.119	- / 0.550	- / 0.700	- / 3.430	- / -	- / 3.430
ICS-Labor	- / -	- / 0.085	- / 0.706	- / 0.544	- / -	- / 0.544
ICS-Material	- / -	- / -	- / 0.450	- / 0.225	- / -	- / 0.225
OTHER GOVT	- / 0.270	- / 0.385	- / 0.572	- / 0.525	- / -	- / 0.525
PMA - Contractor Services	- / 0.154	- / 0.050	- / -	- / -	- / -	- / -
PMA - Other Gov't Costs	- / 0.308	- / 0.290	- / -	- / -	- / -	- / -
<i>Subtotal: Support</i>	<i>0 / 22.759</i>	<i>- / 8.074</i>	<i>- / 5.525</i>	<i>- / 9.584</i>	<i>- / -</i>	<i>- / 9.584</i>
<b>Installation</b>						
<i>Modification Item 1 of 1: IBS (2)</i>	<i>1 / 0.602</i>	<i>3 / 1.834</i>	<i>7 / 6.226</i>	<i>10 / 8.760</i>	<i>- / -</i>	<i>10 / 8.760</i>
<i>Subtotal: Installation</i>	<i>1 / 0.602</i>	<i>3 / 1.834</i>	<i>7 / 6.226</i>	<i>10 / 8.760</i>	<i>- / -</i>	<i>10 / 8.760</i>
<b>Total</b>						
<b>Total Cost (Procurement + Support + Installation)</b>	<b>29.760</b>	<b>16.493</b>	<b>14.099</b>	<b>22.000</b>	<b>-</b>	<b>22.000</b>

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<b>Exhibit P-3a, Individual Modification:</b> PB 2015 Air Force		<b>Date:</b> March 2014
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1	<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B	<b>Modification Number / Title:</b> 4284 / CITS UPGRADE

**Modification Item 1 of 1:** IBS (2)

**Modification Item MDAP/MAIS Code:**

**Manufacturer Information**

Manufacturer Name: Boeing      Manufacturer Location: Oklahoma City, OK

Administrative Leadtime (in Months): 4      Production Leadtime (in Months): 18

Dates	FY 2013	FY 2014	FY 2015
Contract Dates	May 2013	Feb 2014	Feb 2015
Delivery Dates	Nov 2014	Aug 2015	Aug 2016

**Installation Information**

**Method of Implementation:** Depot

Installation Cost	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 0.602	3 / 1.834	7 / 6.226	2 / 1.752	- / -	2 / 1.752
FY 2013	- / -	- / -	- / -	8 / 7.008	- / -	8 / 7.008
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 0.602	3 / 1.834	7 / 6.226	10 / 8.760	- / -	10 / 8.760

**Installation Schedule**

PYS	FY 2013				FY 2014				FY 2015				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
In	1	-	-	1	2	-	2	3	2	3	2	3	2
Out	0	-	-	-	-	-	2	1	1	3	3	3	2

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<b>Exhibit P-3a, Individual Modification: PB 2015 Air Force</b>		<b>Date:</b> March 2014
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1	<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B	<b>Modification Number / Title:</b> 8971 / VERTICAL SITUATION DISPLAYS

<b>Resource Summary</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO#</b>	<b>FY 2015 Total</b>
Procurement Quantity <i>(Units in Each)</i>	-	-	-	-	-	-
Gross/Weapon System Cost <i>(\$ in Millions)</i>	50.446	32.583	30.866	44.282	-	44.282
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P1) <i>(\$ in Millions)</i>	50.446	32.583	30.866	44.282	-	44.282
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
<b>Total Obligation Authority <i>(\$ in Millions)</i></b>	<b>50.446</b>	<b>32.583</b>	<b>30.866</b>	<b>44.282</b>	-	<b>44.282</b>
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>						
Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Millions)</i>	-	-	-	-	-	-

# The FY 2015 OCO Request will be submitted at a later date.

**Description:**

Vertical Situation Display Upgrade (VSDU) is a safety-critical program to replace B-1B pilot and co-pilot primary flight displays and associated flight instruments. The current VSDs are monochrome cathode ray tube displays, which along with the "steam gauge" primary flight instruments, are experiencing Diminishing Manufacturing Sources (DMS) issues with the potential to ground aircraft. Spares are no longer procurable due to obsolescence.

Modification funds will procure and install Group A and Group B kits for the VSDU upgrade to the B-1B. This modification installs two 8"x6" color displays at pilot and co-pilot stations to provide Primary Flight Information (PFI) and backup PFI to meet flight safety standards. These displays also provide front crew situational awareness from the Fully Integrated Data Link (FIDL) enhancing the ability to avoid threats and strike emerging targets. VSDU installations are scheduled concurrently with Central Integrated Test System (CITS) and FIDL to reduce installation costs, aircraft downtime, and to keep fielded aircraft configurations to a minimum for aircrew training, maintenance, and operational deployment efficiencies.

Modification funding will be used for DMS and Material Shortages (DMSMS). DMSMS activities can include, but are not limited to, life of type buy or minor redesign. Procurement modification funding will be used to establish depot repair capability and for Interim Contractor Support (ICS). Activities comprised in the equipment non-recurring line include, but are not limited to, production test equipment and tooling. Group B non-recurring also includes Systems Engineering Program Management (SEPM).

Modification funds from fiscal years 2012 and 2013 will be used to acquire five Group A and Group B kits, support equipment and SEPM with the award of the Lot 4 production buy in the second quarter of fiscal year 2014.

Requirement listed in ORD: B-1B Conventional Mission Upgrade Program (26 Jan 05) (ORD CAF-357-92 (SAC 007-92) I/II-A, Rev 2, Annex A).

**Milestone/Development Status**

The Engineering & Manufacturing Development (EMD) phase is scheduled to close out in March 2014, based on disposition and repair of assets. Two aircraft were modified as a part of the development program and funded with RDT&E funding in PE 0604226F / 0101126F.

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<b>Exhibit P-3a, Individual Modification: PB 2015 Air Force</b>						<b>Date: March 2014</b>	
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1			<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B			<b>Modification Number / Title:</b> 8971 / VERTICAL SITUATION DISPLAYS	
<b>Models of Systems Affected: B-1B</b>		<b>Modification Type: Service Life Extension</b>			<b>Related RDT&amp;E PEs: 0101126F</b>		
<b>Financial Plan</b>	<b>Prior Years</b>	<b>FY 2013</b>	<b>FY 2014</b>	<b>FY 2015 Base</b>	<b>FY 2015 OCO</b>	<b>FY 2015 Total</b>	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
<b>RDT&amp;E PE #</b>							
0101126F	- / 163.683	- / 2.986	- / -	- / -	- / -	- / -	
<b>Procurement</b>							
<i>Modification Item 1 of 1: IBS (3)</i>							
A Kits							
Recurring							
IBS:INSTALL KITS Group A (Active)	13 / 2.123	15 / 2.492	5 / 0.809	10 / 1.580	- / -	10 / 1.580	
<i>Subtotal: Recurring</i>	- / 2.123	- / 2.492	- / 0.809	- / 1.580	- / -	- / 1.580	
B Kits							
Recurring							
IBS:EQUIPMENT Group B (Active)	13 / 19.865	15 / 11.438	5 / 3.712	10 / 7.959	- / -	10 / 7.959	
<i>Subtotal: Recurring</i>	- / 19.865	- / 11.438	- / 3.712	- / 7.959	- / -	- / 7.959	
<i>Subtotal: IBS (3)</i>	- / 21.988	- / 13.930	- / 4.521	- / 9.539	- / -	- / 9.539	
<i>Subtotal: Procurement, All Modification Items</i>	- / 21.988	- / 13.930	- / 4.521	- / 9.539	- / -	- / 9.539	
<b>Support (All Modification Items)</b>							
GROUP B: TOTAL NONRECURRING	- / 13.387	- / 5.186	- / 0.556	- / 3.514	- / -	- / 3.514	
Change Orders	- / 4.055	- / 2.122	- / 3.413	- / 1.767	- / -	- / 1.767	
Data	- / 1.473	- / 0.030	- / -	- / 0.015	- / -	- / 0.015	
SIM/TRAINER	0 / 0.000	- / 3.686	- / -	- / 1.288	- / -	- / 1.288	
SUPPORT-EQUIP	- / 5.912	- / 0.069	- / 2.825	- / 2.387	- / -	- / 2.387	
ICS-Labor	- / -	- / 0.161	- / 1.357	- / 1.902	- / -	- / 1.902	
ICS-Material	- / -	- / -	- / 1.295	- / 0.648	- / -	- / 0.648	
OTHER GOVT	- / 0.418	- / 1.081	- / 2.312	- / 2.489	- / -	- / 2.489	
PMA - Contractor Services	- / 1.245	- / 1.575	- / 1.521	- / 1.549	- / -	- / 1.549	
PMA - Other Gov't Costs	- / 0.411	- / -	- / 0.437	- / 0.445	- / -	- / 0.445	
<i>Subtotal: Support</i>	0 / 26.901	- / 13.910	- / 13.716	- / 16.004	- / -	- / 16.004	
<b>Installation</b>							
<i>Modification Item 1 of 1: IBS (3)</i>	1 / 1.557	3 / 4.743	7 / 12.629	10 / 18.739	- / -	10 / 18.739	
<i>Subtotal: Installation</i>	1 / 1.557	3 / 4.743	7 / 12.629	10 / 18.739	- / -	10 / 18.739	
<b>Total</b>							
<b>Total Cost (Procurement + Support + Installation)</b>	<b>50.446</b>	<b>32.583</b>	<b>30.866</b>	<b>44.282</b>	<b>-</b>	<b>44.282</b>	

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<b>Exhibit P-3a, Individual Modification:</b> PB 2015 Air Force		<b>Date:</b> March 2014
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 05 / 1	<b>P-1 Line Item Number / Title:</b> B01B00 / B-1B	<b>Modification Number / Title:</b> 8971 / VERTICAL SITUATION DISPLAYS

**Modification Item 1 of 1:** IBS (3)

**Modification Item MDAP/MAIS Code:**

**Manufacturer Information**

Manufacturer Name: Boeing	Manufacturer Location: Oklahoma City, OK
Administrative Leadtime (in Months): 4	Production Leadtime (in Months): 18

Dates	FY 2013	FY 2014	FY 2015
Contract Dates	May 2013	Feb 2014	Feb 2015
Delivery Dates	Nov 2014	Aug 2015	Aug 2016

**Installation Information**

**Method of Implementation:** Depot

Installation Cost	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 1.557	3 / 4.743	7 / 12.629	2 / 3.748	- / -	2 / 3.748
FY 2013	- / -	- / -	- / -	8 / 14.991	- / -	8 / 14.991
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -
Total	1 / 1.557	3 / 4.743	7 / 12.629	10 / 18.739	- / -	10 / 18.739

**Installation Schedule**

PYS	FY 2013				FY 2014				FY 2015				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
In	1	-	-	1	2	-	2	3	2	3	2	3	2
Out	0	-	-	-	-	-	2	1	1	3	3	3	2