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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs	P-1 Line Item Number / Title: 353020 / General Purpose Bombs
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	0.000	341.501	811.170	0.000	631.194	631.194	1,106.037	896.535	905.658	484.254	-	5,176.349
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	0.000	341.501	811.170	0.000	631.194	631.194	1,106.037	896.535	905.658	484.254	-	5,176.349
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	0.000	341.501	811.170	0.000	631.194	631.194	1,106.037	896.535	905.658	484.254	-	5,176.349

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

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

Description:

FY2020 funding totals include \$0.0M for Base and \$631.194M for Overseas Contingency Operations (OCO); of which \$344.194M is realigned as part of the OCO for Base Requirements. FY2020 OCO for Base Requirements is OCO funding for base budget requirements in support of the National Defense Strategy. The Budget requests these funds in OCO to comply with the base budget defense caps included in the Budget Control Act of 2011.

CY2019 funding total includes \$551.862M appropriated for Overseas Contingency Operations.

The following Weapon System Cost Elements are represented in this P-1 line:

-MXU-651 B/B (EC31/EC28) is an airfoil group consisting of an aft wing assembly, forward canards and attaching hardware needed to assemble a GBU-10 Laser Guided Bomb (BLU-109 2000lb Hard Target Penetrator Bomb or MK84 2000lb class bomb). The system has folding wings which open upon release for increased maneuverability. This item is procured by Munitions Sustainment Division at Hill AFB.

-MXU-650 Fin Assembly kit (EC32) consists of a tail fin, forward canards and attachment hardware needed to assemble the GBU-12 (MK-82 Warhead, 500lb class) Laser Guided Bomb (LGB). This Fin assembly kit, coupled with a Computer Control Group (ED58) complete the GBU-12 weapons build. These weapons are primarily used for precision bombing against non-hardened targets. This item is procured by Munitions Sustainment Division at Hill AFB.

-MAU-209/MAU-169 (ED58) GBU-10/12 Computer Control Group is a laser homing guidance unit used on the GBU-10 and GBU-12 Laser Guided Bombs, (GBU-10, MK-84 Warhead, 2000lb class or GBU-12, MK-82 Warhead, 500lb class). The system has folding wings which open upon release for maneuverability and increased aircraft payload. This item is procured by Hill AFB. Laser Guided Bombs are essential to meeting training, operational and inventory objective requirements worldwide for precision bombing against hardened and non-hardened targets. Yearly procurements ensure the necessary stock on hand to meet these requirements. Paveway II telemetry (TM) kits are radio monitored modules installed in the GBU-10, 12 and 16 weapon systems that monitor and track data during flight. They provide essential data for issues such as flight failures and weapon accuracy as well as data for the long term sustainment of the weapon system.

-GBU-49 Paveway kit: the Enhanced Paveway II kit for the GBU-49 consists of a MAU-210 G/B Enhanced Computer Control Group (ECCG) and an MXU-650 M/B Air Foil Group (AFG). The ECCG and AFG provide GPS-aided INS and laser terminal guidance capabilities to enable the GBU-49 to engage fixed, re-locatable, and moving targets.

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs		P-1 Line Item Number / Title: 353020 / General Purpose Bombs
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
Line Item MDAP/MAIS Code: N/A		
<p>-BLU-117 (ED09) is a 2,000-pound class general purpose bomb. The bomb produces blast and fragmentation effects and can be used as either an unguided high or low drag weapon. When used with a guidance kit, it can be employed as a precision guided bomb. The warhead is used on the GBU-10/12 (PAVEWAY) and Joint Direct Attack Munition (GBU-31) weapon systems. The BLU-117 can also be fuzed with proximity, instantaneous, or delayed fuzes to provide a variety of military effects. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA). The MK-84 is a tritonal-filled variant.</p> <p>-BLU-111 (all variants) is a 500 lb General Purpose Bomb, based on the tritonal-filled MK-82, but with PBXN-109 explosive fill and vented aft closure. It has a relatively thin case with a slender body designed for improved ballistics. It can be employed as general purpose/penetrator bomb delivered in high and low drag modes with ground burst, delayed, or air burst fuzes and as precision guided munitions (GBU-12,-22,-38,or -54) and aerial mines depending on the fin/airfoil group and fuzing. Most variants are procured through the Army Single Manager for Conventional Ammunition (SMCA).</p> <p>-BLU-109 warhead is a 2000-pound hard target penetrator bomb used against bunkers, aircraft shelters, and reinforced concrete structures. The warhead is used on the GBU-10, 24, and 27 as well as Joint Direct Attack Munition (JDAM) GBU-31V3 weapon systems. This item is procured through the Army Single Manager for Conventional Ammunition (SMCA). Variants are filled with tritonal or with a more Insensitive munitions (IM) compliant fill.</p> <p>-BLU-137/B (EE59) Advanced 2,000-pound Penetrator (A2K) is a weapon used against bunkers, aircraft shelters, and reinforced concrete structures and is compatible with the JDAM guidance tail kit. Procurement started in FY18 at Eglin AFB (AFLCMC/EBD) but will transition to Hill AFB (AFLCMC/EBH)~FY20. The BLU-137/B begins to complement the BLU-109 when fielded.</p> <p>-BLU-129/B (ED78) Composite Case Warhead - Carbon fiber composite case for high near-field lethality to deliver 3x reduction in collateral damage. New inventory objective is 1,500.</p> <p>-Next Generation Area Attack Weapons (NGAAWs) are a family of unitary area attack weapons which meet the DoD policy on cluster munitions. It consists of the BLU-134/B and BLU-136/B warheads with a height of burst sensor. The BLU-134/B, Improved Lethality Warhead (ILW), Next Generation Area Attack Weapon Increment I, is a 500 lb area attack warhead with improved lethality against personnel and materiel targets. The unitary warhead meets DoD policy on cluster munitions. The BLU-134/B, Next Generation Area Attack Weapon Increment II, is a 2,000 lb, high fragmentation area attack warhead which, augmented by the BLU-134/B, provides for significant improved lethality against lethality personnel and materiel targets and meets DoD policy on cluster munitions.</p> <p>-Items Less Than Five Million Dollars: All items have an annual procurement of less than \$5,000,000 and are Code A.</p> <p>Portion of FY20-FY24 funding will be used for facilitization efforts. This will enhance production line capacity required to replenish inventory, accommodate large caliber warheads, and provide for alternative explosive fills.</p> <p>Funds may be used to resolve production DMS/MS/Obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply, and qualification activities to preserve future production capabilities and capacities.</p> <p>In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.</p> <p>Funding for this exhibit contained in PEs: 0208030F, 0207599F</p> <p>As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.</p>		

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Exhibit P-40, Budget Line Item Justification: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity:
3011F: Procurement of Ammunition, Air Force / BA 01: Ammunition / BSA 13: Bombs

P-1 Line Item Number / Title:
353020 / General Purpose Bombs

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

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Exhibit Type	Title*	Subexhibits	ID CD	MDAP/MAIS Code	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)	Quantity / Total Cost (Each) / (\$ M)
P-40a	(E466) MK-81, 250LB GP BOMB, TRITONAL				- / -	- / 0.000	- / 0.000	- / 0.000	- / 15.000	- / 15.000
P-40a	(EC32) MXU-650 GCG, FIN ASSEMBLY				- / -	- / 18.000	- / 21.300	- / 0.000	- / 14.797	- / 14.797
P-5	(ED09) BLU-117, 2000LB GP BOMB	P-5a	A		- / -	- / 0.000	- / -	- / -	- / 31.500	- / 31.500
P-5	(ED15) BLU-111A/B 500LB GP BOMB	P-5a	A		- / -	- / 5.000	- / 5.000	- / -	- / 47.000	- / 47.000
P-5	(ED49) BLU-109 2000 LB HARD TARGET BOMB	P-5a	A		- / -	- / 69.176	- / 587.349	- / -	- / 208.799	- / 208.799
P-40a	(ED58) MAU-209C/B CCG				- / 0.000	- / 25.000	- / 41.700	- / -	- / 28.820	- / 28.820
P-40a	(ED78) BLU-129/B 500LB BOMB				- / -	- / 8.125	- / 8.125	- / 0.000	- / 8.125	- / 8.125
P-5	(EE59) BLU-137		A		- / -	- / 43.000	- / 45.500	- / -	- / 51.953	- / 51.953
P-5	(F140) BLU-109/B 2000 LB Hard Target Penetrator		A		- / -	- / -	- / -	- / -	- / 100.000	- / 100.000
P-40a	BLU-134/B CDI 500LB				- / -	- / 84.000	- / 84.996	- / 0.000	- / 85.000	- / 85.000
P-40a	BLU-136/B 2000LB GP BOMB				- / -	- / 0.000	- / 0.000	- / 0.000	- / 23.000	- / 23.000
P-40a	GBU-49				- / 0.000	- / 72.000	- / -	- / -	- / -	- / -
P-40a	GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION)				- / 0.000	- / 17.200	- / 17.200	- / -	- / 17.200	- / 17.200
P-40	Total Gross/Weapon System Cost				- / 0.000	- / 341.501	- / 811.170	- / 0.000	- / 631.194	- / 631.194

*Title represents 1) the Number / Title for Items; 2) the Number / Title [DODIC] for Ammunition; and/or 3) the Number / Title (Modification Type) for Modifications. Title represents the P-40a Title when only the P-40a Summary/Total is shown.

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

Justification:
FY2020 funds purchase 500, 1,000 and 2,000 pound conventional general purpose bombs, and guidance and control kits to provide precision bombing capability. In addition, funds may be used for equipment or support required to enhance production line capacity as required for inventory replenishment. These weapons are used to defeat non-hard, hardened and deeply buried targets, bunkers, aircraft shelters, reinforced concrete structures and various armored targets. Built up with assorted componentry, the bombs can also be employed as Joint Direct Attack Munitions or Laser Guided Bombs.

The Air Force procures munitions to maintain appropriate quantities in the War Reserve Materiel (WRM) Munitions and test and training stockpiles. Active, Guard and Reserve components draw from the WRM stockpiles as required and receive test and training allocations annually based on current-year requirements.

Procurement/Replenishment is required to maintain readiness objectives and worldwide war reserve materiel (WRM) stockpiles to support requirements for penetrator bombs, low collateral damage bombs, and multiple precision guided bomb configurations as determined by the non-nuclear consumables annual analysis (NCAA), to execute DoD approved combat plans and training requirements.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: (E466) MK-81, 250LB GP BOMB, TRITONAL
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			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)
UNCATEGORIZED																				
(E466) MK-81, 250LB BOMB	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	15.000	-	-	15.000
Subtotal: UNCATEGORIZED			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	15.000	-	-	15.000
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	15.000	-	-	15.000

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353020 / General Purpose Bombs **Aggregated Items Title:** (EC32) MXU-650 GCG, FIN ASSEMBLY

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			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)
Uncategorized																				
MXU-650 FIN ASSEMBLY - EC32	A		-	-	-	0.004	4,500	18.000	0.004	5,592	21.300	-	-	0.000	0.004	3,840	14.797	0.004	3,840	14.797
Subtotal: Uncategorized			-	-	-	-	-	18.000	-	-	21.300	-	-	0.000	-	-	14.797	-	-	14.797
Total			-	-	-	-	-	18.000	-	-	21.300	-	-	0.000	-	-	14.797	-	-	14.797

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Remarks:

Prices shown reflect the average unit cost of split-award contracts plus inflation. Due to the competitive nature of the currently qualified vendors, estimated unit cost information from the vendors is not available for planning purposes.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: (ED09) BLU-117, 2000LB GP BOMB

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	0.000	-	-	31.500	31.500
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	0.000	-	-	31.500	31.500
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	0.000	-	-	31.500	31.500

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

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

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	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)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	-	-	-	0.000	-	-	-	-	-	-	0.005	2,378	11.966	0.005	2,378	11.966
BOMB BODY 2000LB MK84 MOD 10 IM	-	-	-	-	-	0.000	-	-	-	-	-	-	0.006	2,341	13.540	0.006	2,341	13.540
LUG SUSP ACFT ORD MK3-0	-	-	-	-	-	0.000	-	-	-	-	-	-	0.000	4,830	0.725	0.000	4,830	0.725
CXM-AF7	-	-	-	-	-	0.000	-	-	-	-	-	-	0.000	301,147	4.725	0.000	301,147	4.725
PALLET MK79-1	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	0.189	-	-	0.189
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	31.145	-	-	31.145
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	31.145	-	-	31.145
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	0.268	-	-	0.268
QUALITY ASSURANCE	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	0.008	-	-	0.008
FIRST ARTICLE TEST	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	0.079	-	-	0.079
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	0.355	-	-	0.355
Gross/Weapon System Cost	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	31.500	-	-	31.500

Remarks:

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: (ED09) BLU-117, 2000LB GP BOMB
ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:	
<p>This cost analysis represents the Single Manager for Conventional Ammunition (SMCA) efforts to obtain hardware, containers, pallets, straps, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack (LAP) the Air Force order.</p> <p>The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round.</p> <p>Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives.</p> <p>Primary cost drivers include the total military customer orders (increases/decreases), complex or scarce materials, economic price adjustments, currency rate fluctuations.</p> <p>(†) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13			P-1 Line Item Number / Title: 353020 / General Purpose Bombs					Item Number / Title [DODIC]: (ED09) BLU-117, 2000LB GP BOMB				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)	✓	2020	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2020	Jun 2021	2,378	0.005	Y		

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13		P-1 Line Item Number / Title: 353020 / General Purpose Bombs
		Item Number / Title [DODIC]: (ED15) BLU-111A/B 500LB GP BOMB

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	5.000	5.000	-	47.000	47.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	5.000	5.000	-	47.000	47.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	5.000	5.000	-	47.000	47.000

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

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

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	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)
Hardware - Cost Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP) ^(†)	-	-	-	0.002	787	1.234	0.002	904	1.831	-	-	-	0.000	9,828	1.551	0.000	9,828	1.551
BOMB BODY 500 LB MK82 MOD 6 IM	-	-	-	0.002	787	1.954	0.001	904	1.342	-	-	-	0.002	9,820	23.031	0.002	9,820	23.031
LUG SUSP ACFT ORD MS3314	-	-	-	0.000	1,574	0.054	0.000	1,808	0.052	-	-	-	0.000	19,307	1.081	0.000	19,307	1.081
CXM-7	-	-	-	0.000	102,310	1.566	0.000	117,520	1.614	-	-	-	0.000	1,288,081	20.210	0.000	1,288,081	20.210
PALLET INSPECTION, MHU-122E	-	-	-	0.000	131	0.025	0.000	151	0.028	-	-	-	0.000	2,000	0.376	0.000	2,000	0.376
PALLET MHU-122/E	-	-	-	0.000	131	0.031	0.000	151	0.036	-	-	-	0.000	1,762	0.423	0.000	1,762	0.423
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	4.864	-	-	4.903	-	-	-	-	-	46.671	-	-	46.671
<i>Subtotal: Hardware - Cost Cost</i>	-	-	-	-	-	4.864	-	-	4.903	-	-	-	-	-	46.671	-	-	46.671
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.069	-	-	0.080	-	-	-	-	-	0.259	-	-	0.259
QUALITY ASSURANCE	-	-	-	-	-	0.004	-	-	0.010	-	-	-	-	-	0.016	-	-	0.016
FIRST ARTICLE TEST	-	-	-	-	-	0.047	-	-	0.007	-	-	-	-	-	0.054	-	-	0.054
ACCEPTANCE TESTING	-	-	-	-	-	0.016	-	-	0.000	-	-	-	-	-	0.000	-	-	0.000
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.136	-	-	0.097	-	-	-	-	-	0.329	-	-	0.329

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Exhibit P-5, Cost Analysis: PB 2020 Air Force												Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13						P-1 Line Item Number / Title: 353020 / General Purpose Bombs						Item Number / Title [DODIC]: (ED15) BLU-111A/B 500LB GP BOMB					
ID Code (A=Service Ready, B=Not Service Ready) : A												MDAP/MAIS Code:					

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	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)
Gross/Weapon System Cost	-	-	-	-	-	5.000	-	-	5.000	-	-	-	-	-	47.000	-	-	47.000

Remarks:

This cost analysis represents the Single Manager for Conventional Ammunition (SMCA) efforts to obtain hardware, containers, pallets, straps, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack (LAP) the Air Force order.

The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round.

Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives.

Primary cost drivers include the total military customer orders (increases/decreases), complex or scarce materials, economic price adjustments, currency rate fluctuations.

(t) indicates the presence of a P-5a

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: (ED15) BLU-111A/B 500LB GP BOMB
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Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty <i>(Each)</i>	Unit Cost <i>(\$ M)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK (LAP)		2018	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2018	Jun 2019	787	0.002	Y		
LOAD, ASSEMBLE, PACK (LAP)		2019	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2019	Jun 2020	904	0.002	Y		
LOAD, ASSEMBLE, PACK (LAP)	✓	2020	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2020	Jun 2021	9,828	0.000	Y		

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Exhibit P-5, Cost Analysis: PB 2020 Air Force													Date: March 2019					
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13						P-1 Line Item Number / Title: 353020 / General Purpose Bombs						Item Number / Title [DODIC]: (ED49) BLU-109 2000 LB HARD TARGET BOMB						
ID Code (A=Service Ready, B=Not Service Ready) : A									MDAP/MAIS Code:									
Resource Summary				Prior Years		FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total				
Procurement Quantity (Units in Each)				-		-		-		-		-		-				
Gross/Weapon System Cost (\$ in Millions)				-		69.176		587.349		-		208.799		208.799				
Less PY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Net Procurement (P-1) (\$ in Millions)				-		69.176		587.349		-		208.799		208.799				
Plus CY Advance Procurement (\$ in Millions)				-		-		-		-		-		-				
Total Obligation Authority (\$ in Millions)				-		69.176		587.349		-		208.799		208.799				
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																		
Initial Spares (\$ in Millions)				-		-		-		-		-		-		-		
Gross/Weapon System Unit Cost (\$ in Millions)				-		-		-		-		-		-		-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	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)
Hardware - Hardware End Item Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK ^(†)	-	-	-	0.008	2,045	16.478	0.008	18,426	145.561	-	-	-	0.009	6,044	53.792	0.009	6,044	53.792
BOMB BODY, 2000LB BLU-109/B	-	-	-	0.021	2,006	41.606	0.020	17,760	361.293	-	-	-	0.021	6,044	126.205	0.021	6,044	126.205
CONTAINER, CNU-417/E	-	-	-	0.002	1,023	2.231	0.002	9,213	19.510	-	-	-	0.002	3,022	6.554	0.002	3,022	6.554
CXM-AF-5	-	-	-	0.000	347,650	8.476	0.000	3,132,420	59.641	-	-	-	0.000	1,027,480	21.217	0.000	1,027,480	21.217
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	68.791	-	-	586.006	-	-	-	-	-	207.768	-	-	207.768
<i>Subtotal: Hardware - Hardware End Item Cost</i>	-	-	-	-	-	68.791	-	-	586.006	-	-	-	-	-	207.768	-	-	207.768
Support - Support End Item Cost																		
PRODUCTION ENGINEERING	-	-	-	-	-	0.249	-	-	0.930	-	-	-	-	-	0.790	-	-	0.790
QUALITY ASSURANCE	-	-	-	-	-	0.026	-	-	0.028	-	-	-	-	-	0.021	-	-	0.021
FIRST ARTICLE TEST	-	-	-	-	-	0.110	-	-	0.385	-	-	-	-	-	0.220	-	-	0.220
<i>Subtotal: Support - Support End Item Cost</i>	-	-	-	-	-	0.385	-	-	1.343	-	-	-	-	-	1.031	-	-	1.031
Gross/Weapon System Cost	-	-	-	-	-	69.176	-	-	587.349	-	-	-	-	-	208.799	-	-	208.799
Remarks:																		

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: (ED49) BLU-109 2000 LB HARD TARGET BOMB
ID Code (A=Service Ready, B=Not Service Ready) : A		MDAP/MAIS Code:
<p>This cost analysis represents the Single Manager for Conventional Ammunition (SMCA) efforts to obtain hardware, containers, pallets, straps, explosive material, lugs, etc. for the DoD Military Services purchasing the same or similar items, and to load, assemble and pack (LAP) the Air Force order.</p> <p>The load, assemble, pack (LAP) quantity is the number of completed rounds to be delivered into the AF inventory. The ammunition production plant provides the LAP price to SMCA, which includes cost to receive bomb bodies and for miscellaneous explosives, fillers and packing materials used to produce an inventory-worthy round.</p> <p>Bomb Body price, provided by the manufacturer to SMCA, is the unit price of an empty bomb body/casing. Developing the cost for a completed round, SMCA applies a Production Loss Factor (PLF) to estimate an additional quantity of bomb bodies/casings to mitigate risks during production of complete rounds. Risks may include defective bomb body or need to replace the body after filled with a nonconforming batch of explosives.</p> <p>Primary cost drivers include the total military customer orders (increases/decreases), complex or scarce materials, economic price adjustments, currency rate fluctuations.</p> <p>The BLU-137/B Advanced 2,000-pound Penetrator (A2K) will eventually begin to replace the BLU-109 C/B. The BLU-137/B will be initially procured through AFLCMC/EBD at Eglin AFB in FY18 and will transition to Hill (AFLCMC/EBH) for future procurement.</p> <p>(t) indicates the presence of a P-5a</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2020 Air Force								Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13			P-1 Line Item Number / Title: 353020 / General Purpose Bombs					Item Number / Title [DODIC]: (ED49) BLU-109 2000 LB HARD TARGET BOMB				
Cost Elements	O C O	FY	Contractor and Location	Method/Type or Funding Vehicle	Location of PCO	Award Date	Date of First Delivery	Qty (Each)	Unit Cost (\$ M)	Specs Avail Now?	Date Revision Available	RFP Issue Date
LOAD, ASSEMBLE, PACK		2018	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2018	Jul 2019	2,045	0.008	Y		
LOAD, ASSEMBLE, PACK		2019	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2019	Jun 2020	18,426	0.008	Y		
LOAD, ASSEMBLE, PACK	✓	2020	MCALESTER ARMY AMMUNITION PLANT / MCALESTER, OK	MIPR	ACC-ROCK ISLAND	Jun 2020	Jun 2021	6,044	0.009	Y		

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: (ED58) MAU-209C/B CCG
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			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)
Uncategorized																				
MAU-209C/B - ED58	A		-	-	0.000	0.007	3,571	25.000	0.008	5,385	41.700	-	-	-	0.008	3,679	28.820	0.008	3,679	28.820
Subtotal: Uncategorized			-	-	0.000	-	-	25.000	-	-	41.700	-	-	-	-	-	28.820	-	-	28.820
Total			-	-	0.000	-	-	25.000	-	-	41.700	-	-	-	-	-	28.820	-	-	28.820

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Remarks:

Prices shown reflect the average unit cost of split-award contracts plus inflation. Due to the competitive nature of the currently qualified vendors, estimated unit costs are not available for planning purposes.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13 **P-1 Line Item Number / Title:** 353020 / General Purpose Bombs **Aggregated Items Title:** (ED78) BLU-129/B 500LB BOMB

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			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)
Uncategorized																				
BLU-129/B 500LB BOMB	A		-	-	-	-	-	8.125	0.116	70	8.125	-	-	0.000	0.116	70	8.125	0.116	70	8.125
Subtotal: Uncategorized			-	-	-	-	-	8.125	-	-	8.125	-	-	0.000	-	-	8.125	-	-	8.125
Total			-	-	-	-	-	8.125	-	-	8.125	-	-	0.000	-	-	8.125	-	-	8.125

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Remarks:

BLU-129/B Composite Case Warhead - carbon fiber composite case for high near-field lethality to deliver 3x reduction in collateral damage.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: (EE59) BLU-137

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	-	43.000	45.500	-	51.953	51.953
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	-	43.000	45.500	-	51.953	51.953
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	-	43.000	45.500	-	51.953	51.953

(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>)	-	-	-	-	-	-

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	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)
Hardware - (EE59) BLU-137 Cost																		
Recurring Cost																		
Load Assemble Pack (LAP)	-	-	-	0.030	500	15.046	0.013	1,000	12.951	-	-	-	0.019	1,000	18.601	0.019	1,000	18.601
BLU-137/B Warhead Case and Assembly	-	-	-	0.033	500	16.720	0.031	1,000	31.330	-	-	-	0.032	1,000	32.270	0.032	1,000	32.270
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	31.766	-	-	44.281	-	-	-	-	-	50.871	-	-	50.871
<i>Subtotal: Hardware - (EE59) BLU-137 Cost</i>	-	-	-	-	-	31.766	-	-	44.281	-	-	-	-	-	50.871	-	-	50.871
Support - (EE59) BLU-137 Cost																		
Production Engineering	-	-	-	-	-	11.104	-	-	1.109	-	-	-	-	-	1.082	-	-	1.082
First Article Acceptance Test	-	-	-	-	-	0.130	-	-	0.110	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - (EE59) BLU-137 Cost</i>	-	-	-	-	-	11.234	-	-	1.219	-	-	-	-	-	1.082	-	-	1.082
Gross/Weapon System Cost	-	-	-	-	-	43.000	-	-	45.500	-	-	-	-	-	51.953	-	-	51.953

Remarks:

The Advanced 2,000-pound Penetrator (A2K) is a weapon used against bunkers, aircraft shelters, and reinforced concrete structures and is compatible with the JDAM guidance tail kit. Procurement started in FY18 at Eglin AFB (AFLCMC/EBD) but will transition to Hill AFB (AFLCMC/EBH)~FY20. The BLU-137/B begins to complement the BLU-109 when fielded.

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Exhibit P-5, Cost Analysis: PB 2020 Air Force		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Item Number / Title [DODIC]: (F140) BLU-109/B 2000 LB Hard Target Penetrator

ID Code (A=Service Ready, B=Not Service Ready) : A	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	-	-	-	-	100.000	100.000
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	-	-	-	-	100.000	100.000
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	-	-	-	-	100.000	100.000

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

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

Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.

Cost Elements	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
	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)
Hardware - (F140) BLU-109/B 2000 LB Hard Target Penetrator Cost																		
Recurring Cost																		
LOAD, ASSEMBLE, PACK (LAP)	-	-	-	-	-	-	-	-	-	-	-	-	0.004	2,877	12.002	0.004	2,877	12.002
BOMB BODY, 2000LB BLU-109/B TRITONAL	-	-	-	-	-	-	-	-	-	-	-	-	0.023	3,056	70.907	0.023	3,056	70.907
TNT	-	-	-	-	-	-	-	-	-	-	-	-	0.000	1,654,136	11.000	0.000	1,654,136	11.000
ALUMINUM POWDER	-	-	-	-	-	-	-	-	-	-	-	-	0.000	550,458	1.800	0.000	550,458	1.800
SHIP CONTAINER	-	-	-	-	-	-	-	-	-	-	-	-	0.002	1,521	3.702	0.002	1,521	3.702
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99.410	-	-	99.410
<i>Subtotal: Hardware - (F140) BLU-109/B 2000 LB Hard Target Penetrator Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99.410	-	-	99.410
Support - (F140) BLU-109/B 2000 LB Hard Target Penetrator Cost																		
PRODUCTION SUPPORT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.590	-	-	0.590
<i>Subtotal: Support - (F140) BLU-109/B 2000 LB Hard Target Penetrator Cost</i>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.590	-	-	0.590
Gross/Weapon System Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.000	-	-	100.000

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: BLU-134/B CDI 500LB
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			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)
Uncategorized																				
BLU-134/B, CDI 500 lb	A		-	-	-	-	-	84.000	-	-	84.996	-	-	0.000	0.009	9,274	85.000	0.009	9,274	85.000
Subtotal: Uncategorized			-	-	-	-	-	84.000	-	-	84.996	-	-	0.000	-	-	85.000	-	-	85.000
Total			-	-	-	-	-	84.000	-	-	84.996	-	-	0.000	-	-	85.000	-	-	85.000

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Remarks:

Next Generation Area Attack Weapons (NGAAWs) are a family of unitary area attack weapons which meet the DoD policy on cluster munitions. They consist of BLU-134/B and BLU-136/B warheads with a height of burst sensor.

BLU-134/B, Improved Lethality Warhead (ILW), NGAAW Increment I, is a 500 lb area attack warhead with improved lethality against personnel and materiel targets. The unitary warhead meets DoD policy on cluster munitions.

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Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: BLU-136/B 2000LB GP BOMB
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			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)
Uncategorized																				
BLU-136/B, 2,000 lb.	A		-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	23.000	-	-	23.000
Subtotal: Uncategorized			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	23.000	-	-	23.000
Total			-	-	-	-	-	0.000	-	-	0.000	-	-	0.000	-	-	23.000	-	-	23.000

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Remarks:

Next Generation Area Attack Weapons (NGAAWs) are a family of unitary area attack weapons which meet the DoD policy on cluster munitions. It consists of the BLU-134/B and BLU-136/B warheads with a cockpit-selectable height of burst sensor.

BLU-136/B, NGAAW Increment II, is a 2,000 lb area attack warhead which, augmented by the BLU-134/B, provides for significant improvement of lethality against personnel and materiel targets while meeting the DoD policy on cluster munitions.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force **Date:** March 2019

Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13	P-1 Line Item Number / Title: 353020 / General Purpose Bombs	Aggregated Items Title: GBU-49
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			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)
Uncategorized																				
GBU-49	A		-	-	0.000	-	-	72.000	-	-	-	-	-	-	-	-	-	-	-	
Subtotal: Uncategorized			-	-	0.000	-	-	72.000	-	-	-	-	-	-	-	-	-	-	-	
Total			-	-	0.000	-	-	72.000	-	-	-	-	-	-	-	-	-	-	-	

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.

Remarks:

Procurement of 1,200 guidance kits (notional inventory requirement), necessary support equipment, and qualification testing.

UNCLASSIFIED

Exhibit P-40a, Budget Item Justification For Aggregated Items: PB 2020 Air Force															Date: March 2019				
Appropriation / Budget Activity / Budget Sub Activity: 3011F / 01 / 13							P-1 Line Item Number / Title: 353020 / General Purpose Bombs								Aggregated Items Title: GENERAL PURPOSE BOMBS (ITEMS LESS THAN \$5 MILLION)				

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 Total		
			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)
Uncategorized																				
MXU-651 AFG, GBU-10 (EC31)	A		-	-	-	0.009	211	1.800	-	-	1.800	-	-	-	-	-	1.800	-	-	1.800
BOMB FUZE PROTECTION ASSEMBLY (ED67)	A		-	-	-	0.000	4,310	0.500	-	-	0.500	-	-	-	-	-	0.500	-	-	0.500
MK84 FIN ASSEMBLY (F607)	A		-	-	-	0.001	1,308	1.000	-	-	1.000	-	-	-	-	-	1.000	-	-	1.000
FIN ASSY BSU-33B/B (EE10)	A		-	-	-	0.000	10,879	3.000	-	-	3.000	-	-	-	-	-	3.000	-	-	3.000
(ED41) BLU-110B/B GENERAL PURPOSE BOMB	A		-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	-	-	-	-
IM	A		-	-	-	-	-	2.000	-	-	2.000	-	-	-	-	-	2.000	-	-	2.000
LWIP	A		-	-	-	-	-	3.000	-	-	3.000	-	-	-	-	-	3.000	-	-	3.000
GP BOMB IM PRODUCTION ENGINEERING	A		-	-	-	-	-	4.900	-	-	4.900	-	-	-	-	-	4.900	-	-	4.900
PMA OTHER GOVERNMENT COSTS	A		-	-	-	-	-	1.000	-	-	1.000	-	-	-	-	-	1.000	-	-	1.000
Subtotal: Uncategorized			-	-	0.000	-	-	17.200	-	-	17.200	-	-	-	-	-	17.200	-	-	17.200
Total			-	-	0.000	-	-	17.200	-	-	17.200	-	-	-	-	-	17.200	-	-	17.200

Note: Subtotals or Totals in this Exhibit P-40a may not be exact or sum exactly, due to rounding.