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**Exhibit P-40, Budget Line Item Justification:** PB 2019 Air Force **Date:** February 2018

**Appropriation / Budget Activity / Budget Sub Activity:**  
 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 4: War Consumables

**P-1 Line Item Number / Title:**  
 000074 / War Consumables

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207040F, 0305116F

**Line Item MDAP/MAIS Code:** N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	120.036	37.647	29.342	0.000	29.342	32.102	40.759	40.957	41.700	-	342.543
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	120.036	37.647	29.342	0.000	29.342	32.102	40.759	40.957	41.700	-	342.543
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>120.036</b>	<b>37.647</b>	<b>29.342</b>	<b>0.000</b>	<b>29.342</b>	<b>32.102</b>	<b>40.759</b>	<b>40.957</b>	<b>41.700</b>	-	<b>342.543</b>

*(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:**

This program provides funding for the procurement of initial/replacement War Consumables and includes commodities such as Miniature Air Launched Decoy Jammers (MALD-J), Fiber Optic Towed Decoys (FOTD), and Rocket-Assisted Take-Off (RATO) motors. These items support War Reserve Materiel (WRM) requirements and fleet inventory objectives across multiple weapon systems.

**DESCRIPTION:**

The Miniature Air Launched Decoy (MALD) and Jammer (MALD-J) configurations are key enablers supporting Air Force Global Strike, Global Response, Space and C4ISR, and Air and Space Expeditionary Force Concepts of Operation. MALD is a low cost, powered, expendable decoy designed to represent the kinematics and radar signature characteristics of various combat aircraft. The MALD will be employed from various aircraft platforms to stimulate, saturate, and deceive integrated air defense systems (IADS) thus increasing the survivability of strike aircraft. MALD production is complete and transitioned to sustainment. MALD-J is currently in production and is the DODs only stand-in jamming capability for Airborne Electronic Attack Systems. MALD-J is designed to degrade or deny the IADS detection of friendly aircraft or munitions, and is able to operate in both decoy and jammer modes.

The MALD program plans to use some funds to address emerging and short-notice Diminishing Manufacturing and Material Shortage (DMSMS) issues, obsolescence issues, and reliability improvements, including flight testing. FY18 is the final year of MALD funding.

**DESCRIPTION:**

The ALE-70 Towed Decoy is a countermeasures dispenser system designed to fit into the F-35 Joint Strike Fighter (JSF) aircraft. The ALE-70 provides aircraft self-protection against radar guided missiles. Funds procure all system components: decoys, canisters, and explosive cartridges to deploy the decoys.

**DESCRIPTION:**

Items Less Than \$5M: The Rocket-Assisted Take-Off (RATO) motor is a solid propellant rocket used to provide launching thrust to the Air Force Subscale Aerial Target (AFSAT) drone (BQM-167). Support items include reefing line cutters, igniters, and initiators. The RATO and the associated support items are single use items.

Funding for this exhibit contained in Program Elements PE 0207442F, 0305116F, and 0207040F.

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**Exhibit P-40, Budget Line Item Justification:** PB 2019 Air Force **Date:** February 2018

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F: Aircraft Procurement, Air Force / BA 07: Aircraft Supt Equipment & Facilities / BSA 4: War Consumables **P-1 Line Item Number / Title:** 000074 / War Consumables

**ID Code** (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0207040F, 0305116F

**Line Item MDAP/MAIS Code:** N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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	ITEMS LESS THAN \$5,000,000				- / -	- / 0.000	- / 4.560	- / 4.599	- / 0.000	- / 4.599
P-5	MINIATURE AIR LAUNCHED DECOY	P-5a	A		- / -	- / 85.712	- / 0.159	- / 0.000	- / 0.000	- / 0.000
P-40a	Multi-Platform Electronic Warfare Equipment				- / -	- / 34.324	- / 32.928	- / 24.743	- / 0.000	- / 24.743
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				- / -	- / 120.036	- / 37.647	- / 29.342	- / 0.000	- / 29.342

\*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:**  
 ALE-70 Towed Decoy: FY19 funds procure all system components: decoys, canisters, and explosive cartridges to deploy the decoys  
  
 Items Less Than \$5M: FY19 funding required to procure RATOs, Initiators, Cutter Cartridges, and MK-17 Igniters for BQM-167s.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2019 Air Force **Date:** February 2018

**Appropriation / Budget Activity / Budget Sub Activity:** 3010F / 07 / 4 **P-1 Line Item Number / Title:** 000074 / War Consumables **Aggregated Items Title:** ITEMS LESS THAN \$5,000,000

Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
<b>Uncategorized</b>																				
RATO	A		-	-	-	-	-	-	0.032	135	4.310	0.032	136	4.352	-	-	-	0.032	136	4.352
Initiator	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Mk-17 Igniter	A		-	-	-	-	-	-	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
H1.4 Cutter	A		-	-	-	-	-	0.000	0.000	1,968	0.250	0.000	1,968	0.247	-	-	0.000	0.000	1,968	0.247
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	0.000	-	-	4.560	-	-	4.599	-	-	0.000	-	-	4.599
<b>Total</b>			-	-	-	-	-	0.000	-	-	4.560	-	-	4.599	-	-	0.000	-	-	4.599

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

**Remarks:**

RATO procurement costs account for First Article Testing of new assets, transportation costs, inert motors for training, and travel costs

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<b>Exhibit P-5, Cost Analysis: PB 2019 Air Force</b>		<b>Date:</b> February 2018
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 4	<b>P-1 Line Item Number / Title:</b> 000074 / War Consumables	<b>Item Number / Title [DODIC]:</b> MINIATURE AIR LAUNCHED DECOY

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) : A	<b>MDAP/MAIS Code:</b>
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Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Procurement Quantity ( <i>Units in Each</i> )	-	-	-	-	-	-
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	-	85.712	0.159	0.000	0.000	0.000
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	-	85.712	0.159	0.000	0.000	0.000
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-
<b>Total Obligation Authority</b> ( <i>\$ in Millions</i> )	-	<b>85.712</b>	<b>0.159</b>	<b>0.000</b>	<b>0.000</b>	<b>0.000</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> )	-	-	-	-	-	-

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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 - MINIATURE AIR LAUNCHED DECOY Cost																		
Recurring Cost																		
MALD-J LOT 10 <sup>(†)</sup>	-	-	-	0.380	140	53.239	-	-	-	-	-	-	-	-	-	-	-	-
Reliability/Test Support/Obsolescence	-	-	-	-	-	25.922	-	-	0.159	-	-	-	-	-	-	-	-	-
PMA - Government Cost	-	-	-	-	-	2.150	-	-	-	-	-	-	-	-	-	-	-	-
PMA - Contractor Support	-	-	-	-	-	4.401	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
ECO	-	-	-	-	-	-	-	-	0.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	-	-	-	85.712	-	-	0.159	-	-	0.000	-	-	0.000	-	-	0.000
<i>Subtotal: Hardware - MINIATURE AIR LAUNCHED DECOY Cost</i>	-	-	-	-	-	85.712	-	-	0.159	-	-	0.000	-	-	0.000	-	-	0.000
<b>Gross/Weapon System Cost</b>	-	-	-	-	-	85.712	-	-	0.159	-	-	0.000	-	-	0.000	-	-	0.000

(†) indicates the presence of a P-5a

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<b>Exhibit P-5a, Procurement History and Planning:</b> PB 2019 Air Force								<b>Date:</b> February 2018				
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 4			<b>P-1 Line Item Number / Title:</b> 000074 / War Consumables					<b>Item Number / Title [DODIC]:</b> MINIATURE AIR LAUNCHED DECOY				
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
MALD-J LOT 10		2017	RAYTHEON / TUCSON	SS / FFP	AFLCMC/PK Eglin AFB, FL	Nov 2016	Sep 2018	140	0.380	Y		Jan 2015

**Remarks:**  
MALD-J  
Lot 9 was awarded 29 June 2016 for 360 missiles. 18 missiles were paid for with FY14 3010 funding and 342 missiles were paid for with FY16 3010 funding.  
Lot 10 was awarded 10 Nov 2016 for 200 missiles. 60 missiles were paid for with FY16 3010 funding and 140 missiles were paid for with FY17 3010 funding.

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**Exhibit P-40a, Budget Item Justification For Aggregated Items:** PB 2019 Air Force **Date:** February 2018

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 3010F / 07 / 4	<b>P-1 Line Item Number / Title:</b> 000074 / War Consumables	<b>Aggregated Items Title:</b> Multi-Platform Electronic Warfare Equipment
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Item Number / Title [DODIC]	ID CD	MDAP/MAIS Code	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
<b>Hardware</b>																				
ALE-70 Towed Decoy	A		-	-	-	0.058	318	18.364	0.058	563	32.928	-	-	24.743	-	-	0.000	-	-	24.743
<b>Subtotal: Hardware</b>			-	-	-	-	-	<b>18.364</b>	-	-	<b>32.928</b>	-	-	<b>24.743</b>	-	-	<b>0.000</b>	-	-	<b>24.743</b>
<b>Uncategorized</b>																				
ALE-50 Towed Decoy program	A		-	-	-	15.960	1	15.960	-	-	-	-	-	-	-	-	-	-	-	-
<b>Subtotal: Uncategorized</b>			-	-	-	-	-	<b>15.960</b>	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>			-	-	-	-	-	<b>34.324</b>	-	-	<b>32.928</b>	-	-	<b>24.743</b>	-	-	<b>0.000</b>	-	-	<b>24.743</b>

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