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Exhibit P-40, Budget Line Item Justification: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** LRASM0 / LRASM0

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207325F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 449

Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	35	15	-	5	-	5	-	44	52	28	-	179
Gross/Weapon System Cost (<i>\$ in Millions</i>)	133.139	54.385	0.000	19.800	-	19.800	0.000	164.827	182.808	100.854	0.000	655.813
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	133.139	54.385	0.000	19.800	-	19.800	0.000	164.827	182.808	100.854	0.000	655.813
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	133.139	54.385	0.000	19.800	-	19.800	0.000	164.827	182.808	100.854	0.000	655.813
<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>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Millions</i>)	3.804	3.626	-	3.960	-	3.960	-	3.746	3.516	3.602	-	3.664

Description:

The Long Range Anti-Ship Missile (LRASM) is a near-term solution for the Offensive Anti-Surface Warfare (OASuW) air-launch capability gap that will provide flexible, long-range, advanced, anti-surface capability against high-threat maritime targets. The Navy is the lead service for the LRASM program.

The missile was developed based on the Joint Air-to-Surface Standoff Missile-Extended Range (JASSM-ER). LRASM achieved Early Operational Capability (EOC) in December 2018 on the U.S. Air Force B-1 Lancer and EOC on the U.S. Navy F/A-18E/F Super Hornet in November 2019.

The program transitions the Defense Advanced Research Projects Agency (DARPA)/Office of Naval Research (ONR) LRASM demonstration design into a fielded weapon system which supports an increased offensive strike capability. The program is also evaluating Diminishing Manufacturing Sources and Material Shortages (DMSMS) and reviewing obsolescence issues. Funds may be used to address production DMSMS/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.

Funding for this exhibit is contained in PE 0207325F.
Additional funding for this exhibit is also contained in Navy PE 0604786N Offensive Anti-Surface Warfare Weapon Dev.

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Appropriation / Budget Activity / Budget Sub Activity: 3020F: Missile Procurement, Air Force / BA 02: Other Missiles / BSA 2: Tactical **P-1 Line Item Number / Title:** LRASM0 / LRASM0

ID Code (A=Service Ready, B=Not Service Ready): B **Program Elements for Code B Items:** 0207325F **Other Related Program Elements:** N/A

Line Item MDAP/MAIS Code: 449

Exhibits Schedule					Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 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-5	LRASM0	P-5a, P-21	B		35 / 133.139	15 / 54.385	- / 0.000	5 / 19.800	- / -	5 / 19.800
P-40	Total Gross/Weapon System Cost				35 / 133.139	15 / 54.385	- / 0.000	5 / 19.800	- / -	5 / 19.800

*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.

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

Justification:
FY2021 funding totals include \$19.8M to procure 5 missiles.

Note: Procurement quantities can change based on negotiated options/pricing bands and available funding, in accordance with Title 10, U.S. Code Section 2308 BUY-TO-BUDGET ACQUISITION.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASMO / LRASMO	Item Number / Title [DODIC]: LRASMO

ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Procurement Quantity (Units in Each)	35	15	-	5	-	5
Gross/Weapon System Cost (\$ in Millions)	133.139	54.385	0.000	19.800	-	19.800
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	133.139	54.385	0.000	19.800	-	19.800
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	133.139	54.385	0.000	19.800	-	19.800

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

Initial Spares (\$ in Millions)	0.000	0.000	0.000	0.000	-	0.000
Gross/Weapon System Unit Cost (\$ in Millions)	3.804	3.626	-	3.960	-	3.960

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

Cost Elements	Prior Years			FY 2019			FY 2020			FY 2021 Base			FY 2021 OCO			FY 2021 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 - LRASM Cost																		
Recurring Cost																		
LRASM All-Up-Round ⁽¹⁾	3.466	35	121.310	3.443	15	51.644	-	-	0.000	3.600	5	18.000	-	-	-	3.600	5	18.000
Contingent Liability	-	-	9.160	-	-	2.741	-	-	-	-	-	1.800	-	-	-	-	-	1.800
<i>Subtotal: Recurring Cost</i>	<i>-</i>	<i>-</i>	<i>130.470</i>	<i>-</i>	<i>-</i>	<i>54.385</i>	<i>-</i>	<i>-</i>	<i>0.000</i>	<i>-</i>	<i>-</i>	<i>19.800</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>19.800</i>
<i>Subtotal: Hardware - LRASM Cost</i>	<i>-</i>	<i>-</i>	<i>130.470</i>	<i>-</i>	<i>-</i>	<i>54.385</i>	<i>-</i>	<i>-</i>	<i>0.000</i>	<i>-</i>	<i>-</i>	<i>19.800</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>19.800</i>
Support - LRASMO Cost																		
Program Management Administration (PMA)-A&AS	-	-	0.280	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Program Management Administration (PMA)-Gov't Cost	-	-	0.089	-	-	0.000	-	-	0.000	-	-	0.000	-	-	-	-	-	0.000
Tooling	-	-	2.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support - LRASMO Cost</i>	<i>-</i>	<i>-</i>	<i>2.669</i>	<i>-</i>	<i>-</i>	<i>0.000</i>	<i>-</i>	<i>-</i>	<i>0.000</i>	<i>-</i>	<i>-</i>	<i>0.000</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.000</i>
Gross/Weapon System Cost	3.804	35	133.139	3.626	15	54.385	-	-	0.000	3.960	5	19.800	-	-	-	3.960	5	19.800

Remarks:

The LRASM contract is FPIF, with a target price and a total contract price. The funding is obligated to the target price but the difference between the target price and the total contract price is required to be held as a Contingent Liability (CL). The final determination for award of a CL will not be made until after the final item is delivered and actual costs are established.

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Exhibit P-5, Cost Analysis: PB 2021 Air Force		Date: February 2020
Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASM0 / LRASM0	Item Number / Title [DODIC]: LRASM0
ID Code (A=Service Ready, B=Not Service Ready) : B	MDAP/MAIS Code:	
^(†) indicates the presence of a P-5a		

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Exhibit P-5a, Procurement History and Planning: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASM0 / LRASM0	Item Number / Title [DODIC]: LRASM0
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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
LRASM All-Up-Round ^(†)		2017	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Jul 2017	Sep 2018	19	3.483	N	Oct 2015	Oct 2015
LRASM All-Up-Round ^(†)		2018	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Nov 2018	May 2021	16	3.443	N	Jan 2017	Jan 2017
LRASM All-Up-Round ^(†)		2019	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Mar 2020	May 2022	15	3.443	N	Jan 2019	Jan 2019
LRASM All-Up-Round ^(†)		2021	Lockheed Martin / Troy, AL	SS / FPIF	Eglin AFB	Dec 2020	May 2023	5	3.600	N	Jan 2020	Feb 2020

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** LRASM0 / LRASM0 **Item Number / Title [DODIC]:** LRASM0

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019														Fiscal Year 2020										BALANCE					
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2018	BAL DUE AS OF 1 OCT	Calendar Year 2019														Calendar Year 2020														
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P				
LRASM All-Up-Round																																			
1		2017	AF ⁽¹⁾	19	9	10	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	2	-	1	1		0
1		2017	NAVY ^(‡)	15	0	15	-	-	-	-	-	-	1	-	1	-	5	1	2	-	-	1	-	-	2	2	-								0
1		2017	Total	34	9	25	-	1	-	-	-	-	1	-	1	-	5	1	2	-	-	3	3	2	2	3	1	-	-	-	-	-	-	0	
1		2018	AF	16	0	16		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	
1		2018	NAVY ^(‡)	34	0	34		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	31	
1		2018	Total	50	0	50		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	47	
1		2019	AF	15	0	15																												15	
1		2019	NAVY ^(‡)	33	0	33																												33	
1		2019	Total	48	0	48																												48	
1		2021	AF	5	0	5																												5	
1		2021	NAVY ^(‡)	48	0	48																												48	
1		2021	Total	53	0	53																												53	
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P					

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** LRASMO / LRASMO **Item Number / Title [DODIC]:** LRASMO

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2021												Fiscal Year 2022												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2020	BAL DUE AS OF 1 OCT	Calendar Year 2021												Calendar Year 2022												
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G		S E P
LRASM All-Up-Round																															
1	2017		AF ⁽¹⁾	19	19	0																							0		
1	2017		NAVY ^(‡)	15	15	0																							0		
1	2017		Total	34	34	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0		
1	2018		AF	16	0	16	-	-	-	-	-	-	1	5	5	5													0		
1	2018		NAVY ^(‡)	34	3	31	4	4	4	4	4	4	4	3	-	-	-											0			
1	2018		Total	50	3	47	4	4	4	4	4	4	4	5	5	5	-	-	-	-	-	-	-	-	-	-	-	-	0		
1	2019		AF	15	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	4	5	5	0			
1	2019		NAVY ^(‡)	33	0	33	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	3	3	3	-	-	-	0		
1	2019		Total	48	0	48	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	3	3	4	4	5	5	0		
1	2021		AF	5	0	5			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5			
1	2021		NAVY ^(‡)	48	0	48			A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48			
1	2021		Total	53	0	53			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53			
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
							C	O	E	A	E	A	A	A	U	U	U	E	C	O	V	E	A	E	A	A	U	U	U	E	
							T	V	C	N	B	R	P	P	N	L	G	P	T	V	C	N	B	R	P	P	N	L	G	P	

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Exhibit P-21, Production Schedule: PB 2021 Air Force **Date:** February 2020

Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2 **P-1 Line Item Number / Title:** LRASM0 / LRASM0 **Item Number / Title [DODIC]:** LRASM0

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2023													Fiscal Year 2024													BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2022	BAL DUE AS OF 1 OCT	Calendar Year 2023													Calendar Year 2024													
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			
LRASM All-Up-Round																																	
1	2017		AF ⁽¹⁾	19	19	0																							0				
1	2017		NAVY ^(‡)	15	15	0																							0				
1	2017		Total	34	34	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2018		AF	16	16	0																							0				
1	2018		NAVY ^(‡)	34	34	0																							0				
1	2018		Total	50	50	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2019		AF	15	15	0																							0				
1	2019		NAVY ^(‡)	33	33	0																							0				
1	2019		Total	48	48	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0				
1	2021		AF	5	0	5	-	-	-	-	-	-	1	1	1	1	1												0				
1	2021		NAVY ^(‡)	48	0	48	3	4	4	4	4	4	4	4	4	4	5												0				
1	2021		Total	53	0	53	3	4	4	4	4	4	5	5	5	5	6	-	-	-	-	-	-	-	-	-	-	-	0				
							O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U N	J U L	A U G	S E P			

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Exhibit P-21, Production Schedule: PB 2021 Air Force	Date: February 2020
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Appropriation / Budget Activity / Budget Sub Activity: 3020F / 02 / 2	P-1 Line Item Number / Title: LRASMO / LRASMO	Item Number / Title [DODIC]: LRASMO
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2021	1-8-5 For 2021	MAX For 2021	Initial				Reorder			
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1
1	Lockheed Martin - Troy, AL	50	72	72	0	3	29	32	0	0	0	0

Remarks:
Minimum Sustainment Rate (MSR) includes US Air Force and US Navy.

(‡) Delivery rows marked with this symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicates the Contract Award Date.

Note: Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 9,999, all quantities are shown as each. If the maximum quantity is between 10,000 and 999,999 all quantities are shown in thousands. If the maximum quantity is between 1,000,000 and 999,999,999 all quantities are shown in millions (rounded to the nearest thousand). If the maximum quantity is equal or greater than 1,000,000,000 all quantities are shown in billions (rounded to the nearest million).

Footnotes:

(1) Prior Year contracts with undelivered assets have all deliveries occurring before Oct 2018 loaded in the month of first delivery.