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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles	<b>P-1 Line Item Number / Title:</b> 2206 / AMRAAM
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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:** 185

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> )	2,615	120	141	-	169	169	331	358	363	364	-	4,461
Gross/Weapon System Cost ( <i>\$ in Millions</i> )	2,541.225	185.285	188.441	0.000	224.502	224.502	354.160	359.358	367.390	374.737	-	4,595.098
Less PY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) ( <i>\$ in Millions</i> )	2,541.225	185.285	188.441	0.000	224.502	224.502	354.160	359.358	367.390	374.737	-	4,595.098
Plus CY Advance Procurement ( <i>\$ in Millions</i> )	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Obligation Authority (<i>\$ in Millions</i>)</b>	<b>2,541.225</b>	<b>185.285</b>	<b>188.441</b>	<b>0.000</b>	<b>224.502</b>	<b>224.502</b>	<b>354.160</b>	<b>359.358</b>	<b>367.390</b>	<b>374.737</b>	<b>-</b>	<b>4,595.098</b>

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

Initial Spares ( <i>\$ in Millions</i> )	-	3.127	0.692	0.000	8.910	8.910	8.761	2.418	2.480	2.559	Continuing	Continuing
Flyaway Unit Cost ( <i>\$ in Thousands</i> )	909.095	1,433.667	1,315.830	-	1,310.893	1,310.893	1,061.091	991.626	993.810	1,012.593	-	984.523
Gross/Weapon System Unit Cost ( <i>\$ in Thousands</i> )	-	-	-	-	-	-	-	-	-	-	-	-

**Description:**

FY 2020 funding totals include \$0.0M for Base and \$224.502M for Overseas Contingency Operations (OCO); of which \$224.502M and 169 quantity is realigned as part of the OCO for Base Requirements. FY 2020 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.

The Advanced Medium Range Air-to-Air Missile (AMRAAM) is the premier all-weather, all-environment radar guided missile developed jointly by the Air Force and Navy. The Air Force is the lead service. AMRAAM is a small, light, fast missile with improved capabilities against very low and high-altitude targets in an electronic attack (EA) environment. The AIM-120D provides increased performance from improved kinematics, GPS-aided navigation, a two-way data link; which enhances aircrew survivability and network compatibility. Additional enhancements include new guidance software to combat a technologically capable adversary to reduce risk in air combat scenarios, and limit missile defense challenges.

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 2: Tactical Missiles	<b>P-1 Line Item Number / Title:</b> 2206 / AMRAAM
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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:** 185

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-5	1 / AMRAAM	P-5a, P-21			2,615 / 2,541.225	120 / 185.285	141 / 188.441	- / 0.000	169 / 224.502	169 / 224.502
<b>P-40</b>	<b>Total Gross/Weapon System Cost</b>				<b>2,615 / 2,541.225</b>	<b>120 / 185.285</b>	<b>141 / 188.441</b>	<b>- / 0.000</b>	<b>169 / 224.502</b>	<b>169 / 224.502</b>

\*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:**  
 FY 2020 funding procures 169 AMRAAM missiles in support of warfighter requirements. Quantity and funding in FY 2020 is limited due to the ramp rate of Form, Fit, and Function (F3R) missile production.  
 Funding also provides required support costs such as: test and technical production support, procurement of training equipment, diminishing manufacturing sources, long lead items and test equipment/test equipment upgrades to support the AIM-120D configuration.  
 The FY 2020 quantities were reduced by 53 missiles since the FY 2019 President's Budget submission due to production delays required to address obsolescence issues in the current guidance section design and to realign funding to RDT&E to match USAF efforts.

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**Exhibit P-5, Cost Analysis: PB 2020 Navy** **Date:** March 2019

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1507N / 02 / 2	<b>P-1 Line Item Number / Title:</b> 2206 / AMRAAM	<b>Item Number / Title [DODIC]:</b> 1 / AMRAAM
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**ID Code** (A=Service Ready, B=Not Service Ready) : **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)	2,615	120	141	-	169	169
Gross/Weapon System Cost (\$ in Millions)	2,541.225	185.285	188.441	0.000	224.502	224.502
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	2,541.225	185.285	188.441	0.000	224.502	224.502
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
<b>Total Obligation Authority (\$ in Millions)</b>	<b>2,541.225</b>	<b>185.285</b>	<b>188.441</b>	<b>0.000</b>	<b>224.502</b>	<b>224.502</b>

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

Initial Spares (\$ in Millions)	-	3.127	0.692	0.000	8.910	8.910
Gross/Weapon System Unit Cost (\$ in Thousands)	971.788	1,544.042	1,336.461	-	1,328.414	1,328.414

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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
<b>Flyaway - MISSILE Cost</b>																		
Recurring Cost																		
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(1)</sup> (1)	606.234	2,280	1,382.214	1,041.800	120	125.016	987.400	141	139.223	-	-	0.000	1,202.994	169	203.306	1,202.994	169	203.306
1.1.2) AIM-120 MISSILE - CAPTIVE AIR TRAINING MISSILE (CATM)	613.791	335	205.620	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) WARRANTY	-	-	36.120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) DIMINISHING MANUFACTURING SOURCES (DMS)	-	-	198.663	-	-	22.264	-	-	31.898	-	-	0.000	-	-	11.425	-	-	11.425
1.1.5) TOOLING AND TEST EQUIPMENT	-	-	29.590	-	-	9.776	-	-	7.848	-	-	0.000	-	-	2.511	-	-	2.511
1.1.6) ENGINEERING CHANGE ORDERS (ECO) <sup>(2)</sup>	-	-	33.644	-	-	0.870	-	-	0.864	-	-	0.000	-	-	1.029	-	-	1.029
<b>Subtotal: Recurring Cost</b>	<b>-</b>	<b>-</b>	<b>1,885.851</b>	<b>-</b>	<b>-</b>	<b>157.926</b>	<b>-</b>	<b>-</b>	<b>179.833</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>218.271</b>	<b>-</b>	<b>-</b>	<b>218.271</b>
<b>Subtotal: Flyaway - MISSILE Cost</b>	<b>-</b>	<b>-</b>	<b>1,885.851</b>	<b>-</b>	<b>-</b>	<b>157.926</b>	<b>-</b>	<b>-</b>	<b>179.833</b>	<b>-</b>	<b>-</b>	<b>0.000</b>	<b>-</b>	<b>-</b>	<b>218.271</b>	<b>-</b>	<b>-</b>	<b>218.271</b>
<b>Flyaway - NONRECURRING and ANCILLARY EQUIPMENT Cost</b>																		
Non Recurring Cost																		
2.1.1) SPECIAL TOOLING AND TEST EQUIPMENT	-	-	85.866	-	-	7.648	-	-	-	-	-	-	-	-	-	-	-	-

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<b>Exhibit P-5, Cost Analysis: PB 2020 Navy</b>		<b>Date:</b> March 2019
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1507N / 02 / 2	<b>P-1 Line Item Number / Title:</b> 2206 / AMRAAM	<b>Item Number / Title [DODIC]:</b> 1 / AMRAAM

<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>
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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 (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
2.1.2) CONTAINERS (3)	-	-	5.204	-	-	2.000	-	-	2.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	91.070	-	-	9.648	-	-	2.000	-	-	-	-	-	-	-	-	-
<i>Subtotal: Flyaway - NONRECURRING and ANCILLARY EQUIPMENT Cost</i>	-	-	91.070	-	-	9.648	-	-	2.000	-	-	-	-	-	-	-	-	-
Flyaway - PRODUCTION SUPPORT Cost																		
Recurring Cost																		
3.1.1) TEST SUPPORT	-	-	133.728	-	-	1.575	-	-	0.857	-	-	0.000	-	-	0.872	-	-	0.872
3.1.2) TECHNICAL SUPPORT	-	-	266.635	-	-	2.891	-	-	2.842	-	-	0.000	-	-	2.398	-	-	2.398
<i>Subtotal: Recurring Cost</i>	-	-	400.363	-	-	4.466	-	-	3.699	-	-	0.000	-	-	3.270	-	-	3.270
<i>Subtotal: Flyaway - PRODUCTION SUPPORT Cost</i>	-	-	400.363	-	-	4.466	-	-	3.699	-	-	0.000	-	-	3.270	-	-	3.270
Support - SUPPORT COST - FLEET Cost																		
4.1) PECULIAR SUPPORT EQUIPMENT	-	-	60.880	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2) TRAINING EQUIPMENT (4)	-	-	23.864	-	-	12.000	-	-	1.641	-	-	0.000	-	-	1.701	-	-	1.701
4.3) INTEGRATED LOGISTICS SUPPORT (ILS)	-	-	79.197	-	-	1.245	-	-	1.268	-	-	0.000	-	-	1.260	-	-	1.260
<i>Subtotal: Support - SUPPORT COST - FLEET Cost</i>	-	-	163.941	-	-	13.245	-	-	2.909	-	-	0.000	-	-	2.961	-	-	2.961
<b>Gross/Weapon System Cost</b>	971.788	2,615	2,541.225	1,544.042	120	185.285	1,336.461	141	188.441	-	-	0.000	1,328.414	169	224.502	1,328.414	169	224.502

**Remarks:**

The "To Complete" column reflects missile production through FY 2025.

(†) indicates the presence of a P-5a

**Footnotes:**

(1) Unit cost calculations are based on combined procurement of Navy, Air Force and FMS buys for each fiscal year. Increase in unit cost from FY 2019 to FY 2020 is due to significantly less quantity of common components across Navy, Air Force, and FMS procurements.

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<b>Exhibit P-5, Cost Analysis: PB 2020 Navy</b>		<b>Date:</b> March 2019
<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1507N / 02 / 2	<b>P-1 Line Item Number / Title:</b> 2206 / AMRAAM	<b>Item Number / Title [DODIC]:</b> 1 / AMRAAM
<b>ID Code</b> (A=Service Ready, B=Not Service Ready) :	<b>MDAP/MAIS Code:</b>	
<p>(2) Engineering Change Orders line provides funding to test and qualify class I engineering change proposals by the prime vendor into missile production. Fluctuations correspond directly with total cost of hardware procured.</p> <p>(3) Containers are required to maintain pace with quantities, ensure the updated in-container reprogramming capability continues and replace outdated/damaged containers.</p> <p>(4) Training equipment request includes funding for AMRAAM Telemetry System (ATS) used to collect missile performance data for in production missiles to support product improvement within the current performance envelope.</p>		

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

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1507N / 02 / 2	<b>P-1 Line Item Number / Title:</b> 2206 / AMRAAM	<b>Item Number / Title [DODIC]:</b> 1 / AMRAAM
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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>(\$ K)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(†)</sup>		2016 <sup>(5)</sup>	Raytheon Missile System <sup>(6)</sup> / Tucson, AZ	SS / FPIF	EGLIN AFB, FL	Mar 2016	Jun 2018	117	969.564	Y		Jul 2013
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(†)</sup>		2017	Raytheon Missile System <sup>(6)</sup> / Tucson, AZ	SS / FPIF	EGLIN AFB, FL	Dec 2017	Sep 2019	144	977.146	Y		Feb 2016
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(†)</sup>		2018	Raytheon Missile System <sup>(6)</sup> / Tucson, AZ	SS / FPIF	EGLIN AFB, FL	Mar 2018	Jun 2020	120	1,041.800	Y		Jan 2017
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(†)</sup>		2019	Raytheon Missile System <sup>(6)</sup> / Tucson, AZ	SS / FPIF	EGLIN AFB, FL	Aug 2019	Mar 2021	140	987.400	Y		Nov 2017
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(†)</sup>	✓	2019	Raytheon Missile System <sup>(6)</sup> / Tucson, AZ	SS / FPIF	EGLIN AFB, FL	Aug 2019	Mar 2021	1	987.400	Y		Nov 2017
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(†)</sup>	✓	2020	Raytheon Missile System <sup>(6)</sup> / Tucson, AZ	SS / FPIF	EGLIN AFB, FL	Mar 2020	Apr 2022	169	1,202.994	Y		Jul 2018

<sup>(†)</sup> indicates the presence of a P-21

**Footnotes:**

<sup>(5)</sup> FY 2016 AUR deliveries have been delayed due to rebaselining to a quarterly vice a monthly schedule and adjust for overall production capacity

<sup>(6)</sup> AIM-120 MSR is 400 missiles per year, consisting of USN, USAF, and approved FMS procurement with no less than 100 of a particular variant. Max factory capacity enables production of 960 missiles. FY 2020 production capacity is constrained to 632 missiles, of which at least 242 are FMS missiles, due to ramp rate of Form, Fit, Function Refresh (F3R).

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**Exhibit P-21, Production Schedule: PB 2020 Navy** **Date:** March 2019

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1507N / 02 / 2	<b>P-1 Line Item Number / Title:</b> 2206 / AMRAAM	<b>Item Number / Title [DODIC]:</b> 1 / AMRAAM
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016													Fiscal Year 2017													BALANCE	
OCO #	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(1)</sup>																																	
Prior Years Deliveries: 2019																																	
	1	2016	NAVY	117	0	117																							117				
	1	2016	AF (‡)	281	0	281																							281				
	1	2016	FMS (‡)	212	0	212																							212				
	<b>1</b>	<b>2016</b>	<b>Total</b>	<b>610</b>	<b>0</b>	<b>610</b>																							<b>610</b>				
	1	2017	NAVY	144	0	144																							144				
	1	2017	AF (‡)	256	0	256																							256				
	1	2017	FMS (‡)	306	0	306																							306				
	<b>1</b>	<b>2017</b>	<b>Total</b>	<b>706</b>	<b>0</b>	<b>706</b>																							<b>706</b>				
	1	2018	NAVY	120	0	120																							120				
	1	2018	AF (‡)	185	0	185																							185				
	1	2018	FMS (‡)	279	0	279																							279				
	<b>1</b>	<b>2018</b>	<b>Total</b>	<b>584</b>	<b>0</b>	<b>584</b>																							<b>584</b>				
	1	2019	NAVY	140	0	140																							140				
	1	2019	AF (‡)	222	0	222																							222				
	1	2019	FMS (‡)	210	0	210																							210				
	<b>1</b>	<b>2019</b>	<b>Total</b>	<b>572</b>	<b>0</b>	<b>572</b>																							<b>572</b>				
✓	1	2019	NAVY	1	0	1																							1				
✓	1	2020	NAVY	169	0	169																							169				
✓	1	2020	AF (‡)	220	0	220																							220				
✓	1	2020	FMS (‡)	220	0	220																							220				
✓	<b>1</b>	<b>2020</b>	<b>Total OCO</b>	<b>609</b>	<b>0</b>	<b>609</b>																							<b>609</b>				
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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**Exhibit P-21, Production Schedule: PB 2020 Navy** **Date:** March 2019

**Appropriation / Budget Activity / Budget Sub Activity:** 1507N / 02 / 2 **P-1 Line Item Number / Title:** 2206 / AMRAAM **Item Number / Title [DODIC]:** 1 / AMRAAM

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018													Fiscal Year 2019													BALANCE	
OCO #	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018													Calendar Year 2019													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(1)</sup>																																	
Prior Years Deliveries: 2019																																	
1	2016	NAVY		117	0	117	-	-	-	-	-	-	-	-	40	-	-	40	-	-	37	-	-	-					0				
1	2016	AF (‡)		281	0	281	-	-	-	-	-	-	-	-	72	-	-	64	-	-	73	-	-	72					0				
1	2016	FMS (‡)		212	0	212	-	-	-	-	-	-	-	-	52	-	-	61	-	-	47	-	-	52					0				
<b>1</b>	<b>2016</b>	<b>Total</b>		<b>610</b>	<b>0</b>	<b>610</b>	-	-	-	-	-	-	-	-	<b>164</b>	-	-	<b>165</b>	-	-	<b>157</b>	-	-	<b>124</b>	-	-	-	-	<b>0</b>				
1	2017	NAVY		144	0	144			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	136				
1	2017	AF (‡)		256	0	256			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	204				
1	2017	FMS (‡)		306	0	306			A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114	192				
<b>1</b>	<b>2017</b>	<b>Total</b>		<b>706</b>	<b>0</b>	<b>706</b>			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>174</b>	<b>532</b>				
1	2018	NAVY		120	0	120												A -	-	-	-	-	-	-	-	-	-	-	-	120			
1	2018	AF (‡)		185	0	185												A -	-	-	-	-	-	-	-	-	-	-	-	185			
1	2018	FMS (‡)		279	0	279												A -	-	-	-	-	-	-	-	-	-	-	-	279			
<b>1</b>	<b>2018</b>	<b>Total</b>		<b>584</b>	<b>0</b>	<b>584</b>												-	-	-	-	-	-	-	-	-	-	-	-	<b>584</b>			
1	2019	NAVY		140	0	140																								140			
1	2019	AF (‡)		222	0	222																								222			
1	2019	FMS (‡)		210	0	210																								210			
<b>1</b>	<b>2019</b>	<b>Total</b>		<b>572</b>	<b>0</b>	<b>572</b>																								<b>572</b>			
✓ 1	2019	NAVY		1	0	1																								1			
✓ 1	2020	NAVY		169	0	169																								169			
✓ 1	2020	AF (‡)		220	0	220																								220			
✓ 1	2020	FMS (‡)		220	0	220																								220			
✓ 1	<b>2020</b>	<b>Total OCO</b>		<b>609</b>	<b>0</b>	<b>609</b>																								<b>609</b>			



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**Exhibit P-21, Production Schedule: PB 2020 Navy** **Date:** March 2019

**Appropriation / Budget Activity / Budget Sub Activity:** 1507N / 02 / 2 **P-1 Line Item Number / Title:** 2206 / AMRAAM **Item Number / Title [DODIC]:** 1 / AMRAAM

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020													Fiscal Year 2021													BALANCE	
OCO #	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020													Calendar Year 2021													
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(1)</sup>																																	
Prior Years Deliveries: 2019																																	
	1	2016	NAVY	117	117	0																							0				
	1	2016	AF (‡)	281	281	0																							0				
	1	2016	FMS (‡)	212	212	0																							0				
	<b>1</b>	<b>2016</b>	<b>Total</b>	<b>610</b>	<b>610</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>					
	1	2017	NAVY	144	8	136	-	-	-	-	-	136	-	-	-														0				
	1	2017	AF (‡)	256	52	204	-	-	53	-	-	76	-	-	75														0				
	1	2017	FMS (‡)	306	114	192	-	-	112	-	-	40	-	-	40														0				
	<b>1</b>	<b>2017</b>	<b>Total</b>	<b>706</b>	<b>174</b>	<b>532</b>	-	-	<b>165</b>	-	-	<b>252</b>	-	-	<b>115</b>	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>					
	1	2018	NAVY	120	0	120	-	-	-	-	-	-	-	-	51	-	-	-	-	-	69	-	-	-					0				
	1	2018	AF (‡)	185	0	185	-	-	-	-	-	-	-	46	-	-	46	-	-	46	-	-	47					0					
	1	2018	FMS (‡)	279	0	279	-	-	-	-	-	-	-	69	-	-	70	-	-	70	-	-	70					0					
	<b>1</b>	<b>2018</b>	<b>Total</b>	<b>584</b>	<b>0</b>	<b>584</b>	-	-	-	-	-	-	-	<b>166</b>	-	-	<b>116</b>	-	-	<b>185</b>	-	-	<b>117</b>	-	-	-	-	<b>0</b>					
	1	2019	NAVY	140	0	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	35	-	-	35	35			
	1	2019	AF (‡)	222	0	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-	55	-	-	56	56			
	1	2019	FMS (‡)	210	0	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	-	52	-	-	53	53			
	<b>1</b>	<b>2019</b>	<b>Total</b>	<b>572</b>	<b>0</b>	<b>572</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>142</b>	-	-	<b>142</b>	-	-	<b>144</b>	<b>144</b>			
✓	1	2019	NAVY	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1					0					
✓	1	2020	NAVY	169	0	169																							169				
✓	1	2020	AF (‡)	220	0	220																							220				
✓	1	2020	FMS (‡)	220	0	220																							220				
✓	<b>1</b>	<b>2020</b>	<b>Total OCO</b>	<b>609</b>	<b>0</b>	<b>609</b>																						<b>609</b>					
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			

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**Exhibit P-21, Production Schedule: PB 2020 Navy** **Date:** March 2019

<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1507N / 02 / 2	<b>P-1 Line Item Number / Title:</b> 2206 / AMRAAM	<b>Item Number / Title [DODIC]:</b> 1 / AMRAAM
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
OCO #	MFR #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG		SEP
1.1.1) AIM-120 MISSILE - ALL-UP-ROUND (AUR) <sup>(1)</sup>																															
Prior Years Deliveries: 2019																															
	1	2016	NAVY	117	117	0																							0		
	1	2016	AF (‡)	281	281	0																							0		
	1	2016	FMS (‡)	212	212	0																							0		
	<b>1</b>	<b>2016</b>	<b>Total</b>	<b>610</b>	<b>610</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
	1	2017	NAVY	144	144	0																							0		
	1	2017	AF (‡)	256	256	0																							0		
	1	2017	FMS (‡)	306	306	0																							0		
	<b>1</b>	<b>2017</b>	<b>Total</b>	<b>706</b>	<b>706</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
	1	2018	NAVY	120	120	0																							0		
	1	2018	AF (‡)	185	185	0																							0		
	1	2018	FMS (‡)	279	279	0																							0		
	<b>1</b>	<b>2018</b>	<b>Total</b>	<b>584</b>	<b>584</b>	<b>0</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
	1	2019	NAVY	140	105	35	-	-	35																				0		
	1	2019	AF (‡)	222	166	56	-	-	56																				0		
	1	2019	FMS (‡)	210	157	53	-	-	53																				0		
	<b>1</b>	<b>2019</b>	<b>Total</b>	<b>572</b>	<b>428</b>	<b>144</b>	-	-	<b>144</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<b>0</b>		
✓	1	2019	NAVY	1	1	0																							0		
✓	1	2020	NAVY	169	0	169	-	-	-	-	-	-	43	-	-	43	-	-	43	-	-	40							0		
✓	1	2020	AF (‡)	220	0	220	-	-	-	-	-	-	55	-	-	55	-	-	55	-	-	55							0		
✓	1	2020	FMS (‡)	220	0	220	-	-	-	-	-	-	55	-	-	55	-	-	55	-	-	55							0		
✓	<b>1</b>	<b>2020</b>	<b>Total OCO</b>	<b>609</b>	<b>0</b>	<b>609</b>	-	-	-	-	-	-	<b>153</b>	-	-	<b>153</b>	-	-	<b>153</b>	-	-	<b>150</b>	-	-	-	-	-	-	<b>0</b>		
							OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	

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<b>Exhibit P-21, Production Schedule:</b> PB 2020 Navy	<b>Date:</b> March 2019
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<b>Appropriation / Budget Activity / Budget Sub Activity:</b> 1507N / 02 / 2	<b>P-1 Line Item Number / Title:</b> 2206 / AMRAAM	<b>Item Number / Title [DODIC]:</b> 1 / AMRAAM
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MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2020	1-8-5 For 2020	MAX For 2020	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	Raytheon Missile System <sup>(6)</sup> - Tucson, AZ	400	400	960	6	3	21	24	15	6	24	30

(±) 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:**

<sup>(6)</sup> AIM-120 MSR is 400 missiles per year, consisting of USN, USAF, and approved FMS procurement with no less than 100 of a particular variant. Max factory capacity enables production of 960 missiles. FY 2020 production capacity is constrained to 632 missiles, of which at least 242 are FMS missiles, due to ramp rate of Form, Fit, Function Refresh (F3R).