

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: FY 2018 Navy **Date:** May 2017

Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification of Missiles

P-1 Line Item Number / Title:
2307 / Evolved Sea Sparrow Missile (ESSM)

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: 197

Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	847	30	75	30	1	31	45	58	125	175	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,197.676	37.671	107.397	74.524	1.768	76.292	99.433	125.513	218.927	295.154	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	54.462	-	-	-	-	-	-	-	-	54.462
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,197.676	37.671	52.935	74.524	1.768	76.292	99.433	125.513	218.927	295.154	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	54.462	-	-	-	-	-	-	-	-	-	54.462
Total Obligation Authority (<i>\$ in Millions</i>)	1,197.676	92.133	52.935	74.524	1.768	76.292	99.433	125.513	218.927	295.154	Continuing	Continuing

(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 Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	1,414K	1,256K	1,432K	2,484K	1,768K	2,461K	2,210K	2,164K	1,751K	1,687K	Continuing	Continuing

Description:

The Evolved SEASPARROW Missile (ESSM) Program is an international cooperative effort to design, develop, test, produce and provide in-service support to a new and improved version of the SPARROW missile (RIM-7P) with the kinematic performance to defeat current and projected threats that possess low altitude, high velocity and maneuver characteristics beyond the engagement capabilities of the RIM-7P. ESSM provides an evolved kinematically improved aft-end missile section for mating, as an All Up Round, with the modified RIM-7P forebody guidance and warhead section. ESSM provides the capability to counter high G maneuvering anti-ship missiles, expand the battle space, and increase system firepower. Additionally, ESSM provides robust defense against asymmetric threats such as small surface craft, low velocity air threats and helicopters. ESSM is designed for quad pack use in the MK-41 Vertical Launching System of AEGIS destroyers and cruisers and in the MK-57 launching system on DDG 1000. In February 2008, ESSM began integration into Ship Self-Defense System (SSDS) on CVN's, LHD- 7/8, and LHA-6.

ESSM is a cooperative effort among ten NATO SEASPARROW nations (Australia, Canada, Denmark, Germany, Greece, Netherlands, Norway, Spain, Turkey, and the U.S.). An addendum to the NATO SEASPARROW Surface Missile System Memorandum of Understanding (MOU), covering the Engineering and Manufacturing Development (EMD) phase of the ESSM, was signed in June 1995. The MOU for the cooperative production of ESSM was signed 27 December 1997 with a U.S. production intent of 2,076 missiles. Authority to enter Low Rate Initial Production (LRIP) for 207 missiles was granted 7 March 2001. Approval for Full Rate Production (FRP) was given 12 January 2004. Reached Initial Operational Capacity (IOC) on DDG-51 Flt IIA in Spring 2004.

ESSM Block 2 upgrade is a cooperative effort between U.S Navy and NATO SEASPARROW Consortium Nations. ESSM Block 2 upgrade replaces the largely obsolete guidance section with a dual mode Active/Semi-Active X-Band seeker capable of defeating future threat capabilities within the existing envelope, including smaller signatures, increased raid sizes, and adverse environments including countermeasures. Threat types include advanced ASCMs, Anti-Ship Ballistic Missiles (ASBMs), surface and asymmetrical.

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Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 02: Other Missiles / BSA 3: Modification of Missiles

P-1 Line Item Number / Title:
2307 / Evolved Sea Sparrow Missile (ESSM)

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: 197

Exhibits Schedule					Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 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 / Evolved Sea Sparrow Missile (ESSM)	P-5a, P-21			847 / 1,197.676	30 / 37.671	75 / 107.397	30 / 74.524	1 / 1.768	31 / 76.292
P-40	Total Gross/Weapon System Cost				847 / 1,197.676	30 / 37.671	75 / 107.397	30 / 74.524	1 / 1.768	31 / 76.292

*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 2017 supports a contract award of 75 missiles, plus, the U.S. share of support as defined in the MOU. The budget is based on approval of a two year (FY 2016 - FY 2017) multi-year contract for procurement of 105 Block 1 missiles (30 Block I missiles in FY 2016 and 75 Block 1 missiles in FY 2017). Economic Order Quantity (EOQ) required to support this contract award is \$54.4M in FY 2017.

FY 2018 supports the first procurement of 30 ESSM Block II missiles, which will be procured under a separate contract from the ESSM Block 1 missiles.

FY 2018 funding increase in MK-25 canisters due to transitioning from MK-25 Mod 0 canisters (ESSM Block 1) to MK-25 Mod 1 canisters (ESSM Block 2).

FY 2018 funding increase in procurement support for transition to ESSM Block 2 procurement in FY 2018.

FY 2018 funding increase in procurement of MK-30 canisters to support the MK-30 Mod 6 launchers and canisters for ESSM Ship Self Defense System (SSDS) Initial Operational Test & Evaluation (IOT&E).

OCO:
 OCO funding supports the procurement of a ESSM Block 2 missile. This ESSM Block 2 round is a replacement missile for the RIM 162A that was expended during fifth fleet operations in FY 2016.

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Exhibit P-5, Cost Analysis: FY 2018 Navy		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3	P-1 Line Item Number / Title: 2307 / Evolved Sea Sparrow Missile (ESSM)	Item Number / Title [DODIC]: 1 / Evolved Sea Sparrow Missile (ESSM)

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Procurement Quantity (Units in Each)	847	30	75	30	1	31
Gross/Weapon System Cost (\$ in Millions)	1,197.676	37.671	107.397	74.524	1.768	76.292
Less PY Advance Procurement (\$ in Millions)	-	-	54.462	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,197.676	37.671	52.935	74.524	1.768	76.292
Plus CY Advance Procurement (\$ in Millions)	-	54.462	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,197.676	92.133	52.935	74.524	1.768	76.292

(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 Dollars)	1,414K	1,256K	1,432K	2,484K	1,768K	2,461K

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

Cost Elements	Prior Years			FY 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Non Recurring Cost																		
1.1.1) FUZE ECP BACKFIT	-	-	4.700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.2) COMPOSITE RADOME	-	-	7.871	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.3) MISSILE HARDWARE	-	-	0.600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.4) RADOM LIFE OF TYPE BUY	-	-	3.779	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.1.5) ROCKET MOTORS (SEASPARROW)	-	-	6.396	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Non Recurring Cost</i>	-	-	23.346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost	-	-	23.346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hardware - MK25 QUADPACK CANISTERS Cost																		
Recurring Cost																		
2.1.1) MK 25 QUADPACK CANISTERS ^{(†) (1)}	338,434.48	145	49.073	419,200.00	3	1.258	415,785.00	19	7.900	450,000.00	8	3.600	-	-	-	450,000.00	8	3.600
2.1.2) MK 30 CANISTER ^{(†) (2)}	-	-	-	-	-	-	-	-	-	300,000.00	32	9.600	-	-	-	300,000.00	32	9.600
<i>Subtotal: Recurring Cost</i>	-	-	49.073	-	-	1.258	-	-	7.900	-	-	13.200	-	-	-	-	-	13.200

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Exhibit P-5, Cost Analysis: FY 2018 Navy													Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3						P-1 Line Item Number / Title: 2307 / Evolved Sea Sparrow Missile (ESSM)						Item Number / Title [DODIC]: 1 / Evolved Sea Sparrow Missile (ESSM)						
ID Code (A=Service Ready, B=Not Service Ready) :									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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
<i>Subtotal: Hardware - MK25 QUADPACK CANISTERS Cost</i>																		
	-	-	49.073	-	-	1.258	-	-	7.900	-	-	13.200	-	-	-	-	-	13.200
Hardware - ESSM MISSILES Cost																		
Recurring Cost																		
3.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE ^{(f) (3)}	839,334.72	481	403.720	1,038K	12	12.456	1,201K	51	61.270	-	-	-	-	-	-	-	-	-
3.1.2) MK 29 ALL UP ROUNDS MISSILE HARDWARE ^{(f) (4)}	811,354.40	443	359.430	971,944.44	18	17.495	-	-	-	-	-	-	-	-	-	-	-	-
3.1.3) MK 57 ALLUP ROUNDS MISSILE HARDWARE ^{(f) (5)}	967,833.33	6	5.807	-	-	-	1,277K	24	30.648	-	-	-	-	-	-	-	-	-
3.1.4) MK 41 X-BAND ALL UP ROUNDS MISSILE HARDWARE	858,500.00	20	17.170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.5) ESSM BLOCK 2 ^(f)	-	-	-	-	-	-	-	-	-	1,768K	30	53.053	1,768K	1	1.768	1,768K	31	54.821
3.1.6) WARHEAD COMPATIBLE TELEMETER ^(f)	69,728.57	210	14.643	76,333.33	6	0.458	76,320.00	28	2.137	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	800.770	-	-	30.409	-	-	94.055	-	-	53.053	-	-	1.768	-	-	54.821
<i>Subtotal: Hardware - ESSM MISSILES Cost</i>	-	-	800.770	-	-	30.409	-	-	94.055	-	-	53.053	-	-	1.768	-	-	54.821
Hardware - SHIPPING CONTAINERS Cost																		
Recurring Cost																		
4.1.1) ESSM SHIPPING CONTAINERS ^(f)	9,209.35	449	4.135	6,166.67	18	0.111	-	-	-	6,250.00	8	0.050	-	-	-	6,250.00	8	0.050
<i>Subtotal: Recurring Cost</i>	-	-	4.135	-	-	0.111	-	-	-	-	-	0.050	-	-	-	-	-	0.050
<i>Subtotal: Hardware - SHIPPING CONTAINERS Cost</i>	-	-	4.135	-	-	0.111	-	-	-	-	-	0.050	-	-	-	-	-	0.050
Support Cost																		
5.1) PROCUREMENT SUPPORT ⁽⁶⁾	-	-	239.266	-	-	3.657	-	-	1.550	-	-	4.191	-	-	-	-	-	4.191
5.2) TOOLING AND TEST SUPPORT	-	-	40.428	-	-	0.510	-	-	0.598	-	-	0.596	-	-	-	-	-	0.596

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Exhibit P-5, Cost Analysis: FY 2018 Navy													Date: May 2017					
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3						P-1 Line Item Number / Title: 2307 / Evolved Sea Sparrow Missile (ESSM)						Item Number / Title [DODIC]: 1 / Evolved Sea Sparrow Missile (ESSM)						
ID Code (A=Service Ready, B=Not Service Ready) :									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 2016			FY 2017			FY 2018 Base			FY 2018 OCO			FY 2018 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
5.3) DIMINISHING MANUFACTURING SERVICES	-	-	-	-	-	-	-	-	2.118	-	-	2.265	-	-	-	-	-	2.265
5.5) PERFORMANCE CHARACTERIZATION	-	-	29.924	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.6) ILS/FLEET DOCUMENTATION	-	-	1.229	-	-	0.750	-	-	0.675	-	-	0.717	-	-	-	-	-	0.717
5.7) COMPONENT IMPROVEMENT/ECPS	-	-	9.505	-	-	0.976	-	-	0.501	-	-	0.452	-	-	-	-	-	0.452
<i>Subtotal: Support Cost</i>	-	-	320.352	-	-	5.893	-	-	5.442	-	-	8.221	-	-	-	-	-	8.221
Gross/Weapon System Cost	1,414K	847	1,197.676	1,256K	30	37.671	1,432K	75	107.397	2,484K	30	74.524	1,768K	1	1.768	2,461K	31	76.292

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

Footnotes:

- (1) FY 2018 funding increase in MK-25 canisters due to transitioning from MK-25 Mod 0 canisters (ESSM Block 1) to MK-25 Mod 1 canisters (ESSM Block 2).
- (2) FY 2018 funding increase in procurement of MK-30 canisters to support the MK-30 Mod 6 launchers and canisters for ESSM Ship Self Defense System (SSDS) Initial Operational Test & Evaluation (IOT&E).
- (3) Included in the FY 2016 - FY 2017 Multi-year Procurement contract.
- (4) Included in the FY 2016 - FY 2017 Multi-year Procurement contract.
- (5) Included in the FY 2016 - FY 2017 Multi-year Procurement contract.
- (6) FY 2018 funding increase in procurement support for transition to ESSM Block 2 procurement in FY 2018.

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy							Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3			P-1 Line Item Number / Title: 2307 / Evolved Sea Sparrow Missile (ESSM)				Item Number / Title [DODIC]: 1 / Evolved Sea Sparrow Missile (ESSM)				

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 (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1.1) MK 25 QUADPACK CANISTERS		2016	BAE / Minneapolis, MN	SS / FFP	NAVSEA	Mar 2016	Jun 2017	3	419,200.00	N		Feb 2014
2.1.1) MK 25 QUADPACK CANISTERS		2017	BAE / Minneapolis, MN	SS / FFP	NAVSEA	May 2017	Aug 2018	19	415,785.00	N		Feb 2015
2.1.1) MK 25 QUADPACK CANISTERS		2018	BAE / Minneapolis, MN	SS / FFP	NAVSEA	Feb 2018	May 2019	8	450,000.00	N		Feb 2016
2.1.2) MK 30 CANISTER		2018	BAE @MINNEAPOLIS, MN / Minneapolis, MN	C / TBD	NAVSEA	Oct 2017	Jan 2019	32	300,000.00	N		
3.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE		2015	Raytheon CO ⁽⁷⁾ / Tucson, AZ	SS / FFP	NAVSEA	Mar 2015	Mar 2017	41	1,023K	Y		Oct 2013
3.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE		2016 ⁽⁸⁾	Raytheon CO ⁽⁷⁾ / Tucson, AZ	SS / FFP	NAVSEA	Mar 2016	Mar 2018	12	1,038K	Y		Oct 2014
3.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE		2017 ⁽⁹⁾	Raytheon CO ⁽⁷⁾ / Tucson, AZ	SS / FFP	NAVSEA	May 2017	May 2019	51	1,201K	Y		Oct 2015
3.1.2) MK 29 ALL UP ROUNDS MISSILE HARDWARE		2015	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Mar 2015	Mar 2017	63	898,825.40	Y	Mar 2000	Jun 2013
3.1.2) MK 29 ALL UP ROUNDS MISSILE HARDWARE		2016 ⁽¹⁰⁾	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Mar 2016	Mar 2018	18	971,944.44	Y	Mar 2000	Jun 2014
3.1.3) MK 57 ALLUP ROUNDS MISSILE HARDWARE		2017 ⁽¹¹⁾	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Oct 2016	Oct 2018	24	1,277K	N		
3.1.5) ESSM BLOCK 2 ^(†)		2018	Raytheon CO / Tucson, AZ	C / TBD	NAVSEA	Aug 2018	Aug 2020	30	1,768K	N	Oct 2017	Oct 2017
3.1.6) WARHEAD COMPATIBLE TELEMETER		2015	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Mar 2015	Sep 2017	41	74,829.27	Y	Mar 2000	Jun 2014
3.1.6) WARHEAD COMPATIBLE TELEMETER		2016 ⁽¹²⁾	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Mar 2016	Sep 2018	6	76,333.33	Y	Mar 2000	Jun 2015
3.1.6) WARHEAD COMPATIBLE TELEMETER		2017 ⁽¹³⁾	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	May 2017	Nov 2019	28	76,320.00	Y	Mar 2000	Jun 2016
4.1.1) ESSM SHIPPING CONTAINERS		2015	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Mar 2015	May 2017	63	6,031.75	Y	Mar 2000	Oct 2014
4.1.1) ESSM SHIPPING CONTAINERS		2016 ⁽¹⁴⁾	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Dec 2016	Feb 2019	18	6,166.67	Y	Mar 2000	Oct 2015
4.1.1) ESSM SHIPPING CONTAINERS		2018 ⁽¹⁵⁾	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Dec 2017	Feb 2020	8	6,250.00	Y		Oct 2017

^(†) indicates the presence of a P-21

Footnotes:

⁽⁷⁾ ESSM is a cooperative effort among ten NATO SEASPARROW nations which contributes to MSR.

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Exhibit P-5a, Procurement History and Planning: FY 2018 Navy		Date: May 2017
Appropriation / Budget Activity / Budget Sub Activity:	P-1 Line Item Number / Title:	Item Number / Title [DODIC]:
1507N / 02 / 3	2307 / Evolved Sea Sparrow Missile (ESSM)	1 / Evolved Sea Sparrow Missile (ESSM)
<p>(8) Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.</p> <p>(9) Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.</p> <p>(10) Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.</p> <p>(11) Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.</p> <p>(12) Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.</p> <p>(13) Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.</p> <p>(14) Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.</p> <p>(15) Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.</p>		

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Exhibit P-21, Production Schedule: FY 2018 Navy **Date: May 2017**

Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3 **P-1 Line Item Number / Title:** 2307 / Evolved Sea Sparrow Missile (ESSM) **Item Number / Title [DODIC]:** 1 / Evolved Sea Sparrow Missile (ESSM)

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2019														Fiscal Year 2020														BALANCE	
O C C #	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					
3.1.5) ESSM BLOCK 2																																			
1		2018	NAVY	30	0	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	4	18				
							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: FY 2018 Navy									Date: May 2017				
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 02 / 3					P-1 Line Item Number / Title: 2307 / Evolved Sea Sparrow Missile (ESSM)					Item Number / Title [DODIC]: 1 / Evolved Sea Sparrow Missile (ESSM)			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2018	1-8-5 For 2018	MAX For 2018	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 CO - Tucson, AZ	180	300	420	8	2	24	26	2	2	24	26	

"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).