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

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 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>)	950	31	45	-	60	60	125	175	300	300	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	1,340.626	73.513	98.384	0.000	128.059	128.059	223.305	308.770	547.985	559.056	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	1,340.626	73.513	98.384	0.000	128.059	128.059	223.305	308.770	547.985	559.056	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	1,340.626	73.513	98.384	0.000	128.059	128.059	223.305	308.770	547.985	559.056	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>)	-	3.665	-	-	-	-	-	-	-	-	-	3.665
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	1,411K	2,371K	2,186K	-	2,134K	2,134K	1,786K	1,764K	1,827K	1,864K	Continuing	Continuing

Description:

FY 2020 funding totals include \$0.0M for Base and \$128.059M for Overseas Contingency Operations (OCO); of which \$128.059M and 60 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 Evolved SEASPARROW Missile (ESSM) Program is an international cooperative effort among ten NATO SEASPARROW nations (Australia, Canada, Denmark, Germany, Greece, Netherlands, Norway, Spain, Turkey, and the U.S.) established 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 consists of Blk 1 and Blk 2 missile upgrades.

ESSM Blk 1 provides crucial defense battlespace and fire power against the fast, low altitude, highly maneuverable Anti-Ship Cruise Missile (ASCM) threat. Modifications were made to both the MK 41 Vertical Launch System (VLS) to fire from a single cell with 4 ESSM (QuadPack) and the NATO SEASPARROW Surface Missile System (NSSMS), fielding ESSM Blk 1 onboard CVN 68, LHD 1, LHA 7, CG 47, and DDG 51 class ships. ESSM Blk 1 integration efforts continue to bring the capability to CVN 78 and DDG 1000. Testing scheduled for FY 2018 includes ESSM Blk 1 firings from the Self Defense Test Ship in support of DDG 1000 class integration, AEGIS B/L 9C2 live fire testing, and Combat Systems Ship Qualification Trials live fire tests aboard CVN 72 and LHD 2. The ESSM Blk 1 has been in production since 2004 and will complete with the delivery of MYP16-17 procurement in FY 2019. The production line will cease to exist in the 2019-2020 timeframe making ESSM Blk 1 unique sections (Guidance Sections and Transition Sections) unaffordable. PEO IWS 12 is working on a plan to procure depot level repair parts needed to sustain the ESSM Blk 1 inventory through its planned end of life (~2040).

ESSM Blk 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, surface and asymmetrical. Two ESSM Blk 2 Controlled Test Vehicle flight tests were successfully conducted in June 2017 onboard the Self Defense Test Ship at the Point Mugu Sea Range. Successful GTV-1 in June 2018. GTV-2 completed Oct. 2018. GTV-3 scheduled to occur by Q3 FY19. The ESSM Blk 2 Milestone C decision is scheduled for Q2 FY 2019 with Initial Operational Capability for AEGIS platforms scheduled for 2020 and SSDS platforms in 2023. ESSM Blk 2 Low Rate Initial Production deliveries are expected to begin in 2020 with Full Rate Production rounds delivering to the Fleet in 2023.

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

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 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 / Evolved Sea Sparrow Missile (ESSM)	P-5a, P-21			950 / 1,340.626	31 / 73.513	45 / 98.384	- / 0.000	60 / 128.059	60 / 128.059
P-40	Total Gross/Weapon System Cost				950 / 1,340.626	31 / 73.513	45 / 98.384	- / 0.000	60 / 128.059	60 / 128.059

*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:

- Increase in overall FY 2020 funding due increase in the procurement of all-up-rounds from 45 in FY 2019 to 60 in FY 2020.
- FY20 funding increase in MK25 Mod 1 Canisters due to an increase in the procurement quantity from 11 in FY 2019 to 15 in FY 2020.
- FY20 funding increase for ESSM Blk 2 AURs due to increase in the procurement of AURs from 45 in FY2019 to 60 in FY2020.
- FY20 increase in procurement support and tooling and test support from FY19 due to the procurement of additional AURs in FY20.

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Exhibit P-5, Cost Analysis: PB 2020 Navy		Date: March 2019
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 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Procurement Quantity (Units in Each)	950	31	45	-	60	60
Gross/Weapon System Cost (\$ in Millions)	1,340.626	73.513	98.384	0.000	128.059	128.059
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	1,340.626	73.513	98.384	0.000	128.059	128.059
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	1,340.626	73.513	98.384	0.000	128.059	128.059

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

Initial Spares (\$ in Millions)	-	3.665	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Dollars)	1,411K	2,371K	2,186K	-	2,134K	2,134K

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 (\$)	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)}	343,940.12	167	57.438	480,000.00	11	5.280	489,600.00	11	5.386	-	-	0.000	499,392.00	15	7.491	499,392.00	15	7.491
2.1.3) MK 852 Mod 0 (Blk2 Shipping)	-	-	-	56,000.00	7	0.392	57,680.00	5	0.288	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	57.438	-	-	5.672	-	-	5.674	-	-	0.000	-	-	7.491	-	-	7.491

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Exhibit P-5, Cost Analysis: PB 2020 Navy		Date: March 2019
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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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 (\$)	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>	-	-	57.438	-	-	5.672	-	-	5.674	-	-	0.000	-	-	7.491	-	-	7.491
Hardware - ESSM MISSILES Cost																		
Recurring Cost																		
3.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE ^(†)	876,463.10	542	475.043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.2) MK 29 ALL UP ROUNDS MISSILE HARDWARE ^(†)	817,624.73	461	376.925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.3) MK 57 ALLUP ROUNDS MISSILE HARDWARE ^(†)	1,215K	30	36.455	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.4) MK 41 X-BAND ALL UP ROUNDS MISSILE HARDWARE	858,500.00	20	17.170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.5) ESSM BLOCK 2 ^(†)	-	-	-	1,768K	31	54.821	1,742K	45	78.399	-	-	0.000	1,727K	60	103.625	1,727K	60	103.625
3.1.6) WARHEAD COMPATIBLE TELEMETER ^(†)	70,647.54	244	17.238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.1.7) Missile Obsolescence	-	-	-	-	-	3.131	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	922.831	-	-	57.952	-	-	78.399	-	-	0.000	-	-	103.625	-	-	103.625
<i>Subtotal: Hardware - ESSM MISSILES Cost</i>	-	-	922.831	-	-	57.952	-	-	78.399	-	-	0.000	-	-	103.625	-	-	103.625
Hardware - SHIPPING CONTAINERS Cost																		
Recurring Cost																		
4.1.2) MK 852 Mod 0 (BLK 2) Shipping Containers ^(†)	-	-	-	56,000.00	10	0.560	-	-	-	-	-	-	-	-	-	-	-	-
4.1.3) ESSM SHIPPING CONTAINERS ^(†)	9,092.08	467	4.246	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Recurring Cost</i>	-	-	4.246	-	-	0.560	-	-	-	-	-	-	-	-	-	-	-	-
<i>Subtotal: Hardware - SHIPPING CONTAINERS Cost</i>	-	-	4.246	-	-	0.560	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2020 Navy												Date: March 2019					
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 2018			FY 2019			FY 2020 Base			FY 2020 OCO			FY 2020 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)
Support Cost																		
5.1) PROCUREMENT SUPPORT	-	-	245.551	-	-	5.291	-	-	10.202	-	-	0.000	-	-	12.963	-	-	12.963
5.2) TOOLING AND TEST SUPPORT	-	-	41.536	-	-	0.604	-	-	0.594	-	-	0.000	-	-	0.786	-	-	0.786
5.3) DIMINISHING MANUFACTURING SERVICES	-	-	2.118	-	-	2.265	-	-	2.146	-	-	0.000	-	-	2.002	-	-	2.002
5.5) PERFORMANCE CHARACTERIZATION	-	-	29.924	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.6) ILS/FLEET DOCUMENTATION	-	-	2.654	-	-	0.717	-	-	0.653	-	-	0.000	-	-	0.503	-	-	0.503
5.7) COMPONENT IMPROVEMENT/ECPS	-	-	10.982	-	-	0.452	-	-	0.716	-	-	0.000	-	-	0.689	-	-	0.689
<i>Subtotal: Support Cost</i>	-	-	332.765	-	-	9.329	-	-	14.311	-	-	0.000	-	-	16.943	-	-	16.943
Gross/Weapon System Cost	1,411K	950	1,340.626	2,371K	31	73.513	2,186K	45	98.384	-	-	0.000	2,134K	60	128.059	2,134K	60	128.059

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

Footnotes:

(1) There are four (4) missiles per MK 25 Quadpack Canister.

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
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	Y		Feb 2014
2.1.1) MK 25 QUADPACK CANISTERS ^(†)		2017	BAE / Minneapolis, MN	SS / FFP	NAVSEA	May 2017	Aug 2018	19	374,064.00	Y		Feb 2015
2.1.1) MK 25 QUADPACK CANISTERS ^(†)		2018	BAE / Minneapolis, MN	C / FFP	NAVSEA	Mar 2019	Jun 2020	11	480,000.00	Y		Feb 2016
2.1.1) MK 25 QUADPACK CANISTERS ^(†)		2019	BAE / Minneapolis, MN	C / FFP	NAVSEA	Mar 2019	Jun 2020	11	489,600.00	Y		
2.1.1) MK 25 QUADPACK CANISTERS ^(†)	✓	2020	BAE / Minneapolis, MN	C / TBD	NAVSEA	Feb 2020	May 2021	15	499,392.00	Y		
3.1.1) MK 41 AEGIS ALL UP ROUND MISSILE HARDWARE		2015	Raytheon CO ⁽²⁾ / 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 ⁽³⁾	Raytheon CO ⁽²⁾ / 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 ⁽⁴⁾	Raytheon CO ⁽²⁾ / Tucson, AZ	SS / FFP	NAVSEA	May 2017	May 2019	49	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 ⁽⁵⁾	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 ⁽⁶⁾	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Oct 2016	Oct 2018	24	1,277K	Y		
3.1.5) ESSM BLOCK 2 ^(†)		2018	Raytheon CO / Tucson, AZ	SS / FPIF	NAVSEA	Apr 2019	Oct 2020	31	1,768K	Y		Oct 2017
3.1.5) ESSM BLOCK 2 ^(†)		2019	Raytheon CO / Tucson, AZ	SS / FPIF	NAVSEA	Apr 2019	Apr 2021	45	1,742K	Y		Oct 2018
3.1.5) ESSM BLOCK 2 ^(†)	✓	2020	Raytheon CO / Tucson, AZ	SS / FPIF	NAVSEA	Oct 2019	Oct 2021	60	1,727K	Y		Oct 2019
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 ⁽⁷⁾	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 ⁽⁸⁾	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	May 2017	Nov 2019	28	76,320.00	Y	Mar 2000	Jun 2016
4.1.2) MK 852 Mod 0 (BLK 2) Shipping Containers ^(†)		2018	Raytheon CO / Tucson AZ	SS / FPIF	NAVSEA	Sep 2018	Sep 2019	10	56,000.00	Y		
4.1.3) ESSM SHIPPING CONTAINERS ^(†)		2015	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Mar 2015	May 2017	63	6,031.75	Y	Mar 2000	Oct 2014

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Exhibit P-5a, Procurement History and Planning: PB 2020 Navy								Date: March 2019				
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
4.1.3) ESSM SHIPPING CONTAINERS ^(†)		2016 ⁽⁹⁾	Raytheon CO / Tucson, AZ	SS / FFP	NAVSEA	Dec 2016	Feb 2019	18	6,166.67	Y	Mar 2000	Oct 2015

^(†) indicates the presence of a P-21

Footnotes:

- ⁽²⁾ ESSM is a cooperative effort among ten NATO SEASPARROW nations which contributes to MSR.
- ⁽³⁾ Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.
- ⁽⁴⁾ Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.
- ⁽⁵⁾ Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.
- ⁽⁶⁾ Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.
- ⁽⁷⁾ Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.
- ⁽⁸⁾ Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.
- ⁽⁹⁾ Included on the FY 2016 - FY 2017 Multi-Year Procurement contract.

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

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)

Table with columns for Cost Elements (OC, MFR, FY, SERVICE, PROC, QTY, ACCEPT PRIOR TO 1 OCT 2014, BAL DUE AS OF 1 OCT), Fiscal Year 2015 (Calendar Year 2015 months), Fiscal Year 2016 (Calendar Year 2016 months), and BALANCE. Rows include sub-items like MK 25 QUADPACK CANISTERS, MK 57 ALLUP ROUNDS MISSILE HARDWARE, ESSM BLOCK 2, WARHEAD COMPATIBLE TELEMETER, and MK 852 Mod 0 Shipping Containers.

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

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 2017													Fiscal Year 2018													BALANCE		
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2016	BAL DUE AS OF 1 OCT	Calendar Year 2017													Calendar Year 2018													
							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			
2.1.1) MK 25 QUADPACK CANISTERS ⁽¹⁾																																	
Prior Years Deliveries: 145																																	
	1	2016	NAVY	3	0	3	-	-	-	-	-	-	-	-	3														0				
	1	2017	NAVY	19	0	19									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	17		
	1	2018	NAVY	11	0	11																								11			
	1	2019	NAVY	11	0	11																								11			
✓	1	2020	NAVY	15	0	15																								15			
3.1.3) MK 57 ALLUP ROUNDS MISSILE HARDWARE																																	
Prior Years Deliveries: 6																																	
	2	2017	NAVY	24	0	24	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24			
3.1.5) ESSM BLOCK 2																																	
	3	2018	NAVY	31	0	31																								31			
	3	2019	NAVY	45	0	45																								45			
✓	3	2020	NAVY	60	0	60																								60			
3.1.6) WARHEAD COMPATIBLE TELEMETER																																	
Prior Years Deliveries: 169																																	
	4	2015	NAVY	41	0	41	-	-	-	-	-	-	-	-	-	-	5	6	6	8	6	5	5							0			
	4	2016	NAVY	6	0	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4			
	4	2017	NAVY	28	0	28									A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28			
4.1.2) MK 852 Mod 0 (BLK 2) Shipping Containers																																	
	5	2018	NAVY	10	0	10																							A -	10			
4.1.3) ESSM SHIPPING CONTAINERS																																	
Prior Years Deliveries: 386																																	
	6	2015	NAVY	63	0	63	-	-	-	-	-	-	-	15	21	8	10	9												0			
	6	2016	NAVY	18	0	18				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	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: PB 2020 Navy **Date:** March 2019

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 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			
2.1.1) MK 25 QUADPACK CANISTERS ⁽¹⁾																																	
Prior Years Deliveries: 145																																	
	1	2016	NAVY	3	3	0																							0				
	1	2017	NAVY	19	2	17	2	2	2	2	2	3	2	2															0				
	1	2018	NAVY	11	0	11						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	7			
	1	2019	NAVY	11	0	11						A -	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	7				
✓	1	2020	NAVY	15	0	15																						15					
3.1.3) MK 57 ALLUP ROUNDS MISSILE HARDWARE																																	
Prior Years Deliveries: 6																																	
	2	2017	NAVY	24	0	24	3	3	3	3	3	3	3	3														0					
3.1.5) ESSM BLOCK 2																																	
	3	2018	NAVY	31	0	31						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31					
	3	2019	NAVY	45	0	45						A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45					
✓	3	2020	NAVY	60	0	60																						60					
3.1.6) WARHEAD COMPATIBLE TELEMETER																																	
Prior Years Deliveries: 169																																	
	4	2015	NAVY	41	41	0																						0					
	4	2016	NAVY	6	2	4	2	2																				0					
	4	2017	NAVY	28	0	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	0					
4.1.2) MK 852 Mod 0 (BLK 2) Shipping Containers																																	
	5	2018	NAVY	10	0	10	-	-	-	-	-	-	-	-	-	-	-	-	5	5								0					
4.1.3) ESSM SHIPPING CONTAINERS																																	
Prior Years Deliveries: 386																																	
	6	2015	NAVY	63	63	0																						0					
	6	2016	NAVY	18	0	18	-	-	-	-	4	4	4	4	2													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 2020 Navy **Date:** March 2019

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 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			
2.1.1) MK 25 QUADPACK CANISTERS ⁽¹⁾																																	
Prior Years Deliveries: 145																																	
	1	2016	NAVY	3	3	0																											0
	1	2017	NAVY	19	19	0																											0
	1	2018	NAVY	11	4	7	3	3	1																								0
	1	2019	NAVY	11	4	7	1	1	1	1	1	1																					0
✓	1	2020	NAVY	15	0	15	-	-	-	-	-	-	-	2	2	1	-	2	2	2	2	-	2									0	
3.1.3) MK 57 ALLUP ROUNDS MISSILE HARDWARE																																	
Prior Years Deliveries: 6																																	
	2	2017	NAVY	24	24	0																											0
3.1.5) ESSM BLOCK 2																																	
	3	2018	NAVY	31	0	31	4	8	4	4	4	4	3																				0
	3	2019	NAVY	45	0	45	-	-	-	-	-	-	6	6	6	6	6	6	6	3													0
✓	3	2020	NAVY	60	0	60	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6	5	5	5	5	5	5	5	5	5	2		0
3.1.6) WARHEAD COMPATIBLE TELEMETER																																	
Prior Years Deliveries: 169																																	
	4	2015	NAVY	41	41	0																											0
	4	2016	NAVY	6	6	0																											0
	4	2017	NAVY	28	28	0																											0
4.1.2) MK 852 Mod 0 (BLK 2) Shipping Containers																																	
	5	2018	NAVY	10	10	0																											0
4.1.3) ESSM SHIPPING CONTAINERS																																	
Prior Years Deliveries: 386																																	
	6	2015	NAVY	63	63	0																											0
	6	2016	NAVY	18	18	0																											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 2020 Navy **Date:** March 2019

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 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	BAE - Minneapolis, MN	45	82	120	0	5	15	20	5	5	15	20
2	Raytheon CO - Tucson, AZ	180	300	420	8	2	24	26	2	2	24	26
3	Raytheon CO - Tucson, AZ	180	300	420	8	2	24	26	2	2	24	26
4	Raytheon CO - Tucson, AZ	180	300	420	0	0	30	30	0	0	30	30
5	Raytheon CO - Tucson AZ			TBD	0	0	0	0	0	0	0	0
6	Raytheon CO - Tucson, AZ			TBD	0	0	26	26	0	0	26	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).