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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 04: Other Weapons / BSA 2: Modification of Guns And Gun Mounts

P-1 Line Item Number / Title:
4206 / Coast Guard Weapons

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: N/A

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>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	127.602	47.931	40.823	0.000	44.980	44.980	45.853	46.506	47.463	48.437	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	127.602	47.931	40.823	0.000	44.980	44.980	45.853	46.506	47.463	48.437	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	127.602	47.931	40.823	0.000	44.980	44.980	45.853	46.506	47.463	48.437	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>)	-	0.751	0.388	0.000	0.722	0.722	0.634	0.696	0.710	0.724	Continuing	Continuing
Flyaway Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

FY 2020 funding totals include \$0.0M for Base and \$44.98M for Overseas Contingency Operations (OCO); of which \$44.98M 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 Coast Guard Weapons line funds the Coast Guard combat system suite for the United States Coast Guard (USCG) cutters under the Coast Guard surface asset acquisition program. Under inter-service agreement (delineated in OPNAVINST 4000.79B), DON plans, programs, and budgets for specific Navy military equipment, systems and logistic support requirements for USCG units to ensure the USCG is prepared to execute naval warfare tasks in consonance with United States Navy (USN) units. Ship construction and installation costs are funded under the Department of Homeland Security appropriation.

The combat systems and weapons suite will be aligned with future naval ship building programs to support commonality among the two service's systems and meet national fleet objectives. The combat system suite must complement and integrate with Navy combat systems. The suite is an appropriate balance of equipment to ensure the USCG is prepared to accomplish the assigned naval warfare tasks in concert with USN units. The surface asset acquisition program combat suites include the following:

[P5 / CG002 MK 110 GUN]: Provides the MK 110 gun to engage surface threats, independently or in cooperation with other forces, achieving mission kill on high-speed coastal patrol craft beyond small and intermediate caliber gunfire effective range. Includes gun mount, equipment procurement, recurring engineering, and ILS support for the United States Coast Guard National Security Cutter (NSC), aka the Maritime Security Cutter, Large (WMSL), and the Offshore Patrol Cutter (OPC), aka the Maritime Security Cutter, Medium (WMSM), in accordance with OPNAVINST 4000.79(Series) and the Naval Operational Capabilities (NOC) document.

[P5 / CG003 MK 160 GCS]: Provides the MK 160 Mod 12 Gun Computer System (GCS) including equipment procurement, production support, systems engineering, data, and software and test support for the National Security Cutter (NSC), aka the Maritime Security Cutter, Large (WMSL), and the Offshore Patrol Cutter (OPC), aka the Maritime Security Cutter, Medium (WMSM). The MK 160 GCS is required to plan and direct surface threat engagements including the capability to fire warning shots, disabling fire and achieve mission kill against these threats in accordance with National Fleet Policy, OPNAVINST 4000.79(Series), and the NOC.

[P5 / CG004 MK 38 MACHINE GUN SYSTEMS]: Provides the MK 38 Mod 2/3 Machine Gun System (MGS) to plan and engage surface threats, achieving missions kill on high speed patrol craft beyond minor caliber gunfire effective range in accordance with OPNAVINST 4000.79(Series) and the NOC. The MK 38 Mod 3 (vice Mod 2), which began production in FY 2015, permits greater effective range, greater

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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 04: Other Weapons / BSA 2: Modification of Guns And Gun Mounts		P-1 Line Item Number / Title: 4206 / Coast Guard Weapons
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: N/A		
<p>range of elevation to engage air targets, and an improved Toplite electro-optical (EO) system. The MK 38 MGS increases shipboard self-defense against small boat threats and is the main gun of the Fast Response Cutter (FRC), the Offshore Patrol Cutter (OPC), and the WMEC 270' classes. Includes the MK 38 gun mount, Toplite, cannon, and ancillary components, recurring engineering, outfitting spares, and integrated logistics support (ILS). The MK 38 MGS for the OPC Class will include a 7.62mm MK 52 MOD 0 Coaxial Automatic Gun (COAX ORDALT) for Anti-terrorism / Force Protection (AT/FP) missions in narrow waterways and in-port.</p> <p>[P5 / MK38 COAXIAL GUN UPGRADE]: The MK 38 MGS for the OPC Class requirement has been updated to include an attached 7.62mm MK 52 MOD 0 Coaxial Automatic Gun (COAX ORDALT) for Anti-terrorism / Force Protection (AT/FP) missions in narrow waterways and in-port.</p> <p>[P5 / CG005 COMBAT SYSTEM INTEGRATION]: Ensures successful integration and system interoperability of Navy type equipment that affects the combat system of USCG National Security Cutter (NSC), aka the Maritime Security Cutter, Large (WMSL), the Offshore Patrol Cutter (OPC), aka the Maritime Security Cutter, Medium (WMSM), and Fast Response Cutters (FRCs). Includes weapon system integration support for the OPC ATHENA Control, Correlation & Display (CCD) System which provides target queuing for Gun Weapon System engagements.</p>		

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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 04: Other Weapons / BSA 2: Modification of Guns And Gun Mounts

P-1 Line Item Number / Title:
4206 / Coast Guard Weapons

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: N/A

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 / Coast Guard Weapons	P-5a, P-21			- / 127.602	- / 47.931	- / 40.823	- / 0.000	- / 44.980	- / 44.980
P-40	Total Gross/Weapon System Cost				- / 127.602	- / 47.931	- / 40.823	- / 0.000	- / 44.980	- / 44.980

*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 supports the procurement of Navy Type/Navy Owned (NT/NO) weapon systems, integrated logistics support (ILS), technical documentation, software, test and production support for USCG National Security Cutters (WMSLs), Fast Response Cutters (FRCs), and Offshore Patrol Cutters (OPC) being constructed under the Coast Guard Surface Asset Acquisition Program. Funding increases from FY 2019 to FY 2020 are attributed to the (a) full funding of mandatory safety analyses and software updates required for the MK48 Gun Weapons System authorize cutters to fire and deploy with the MK110 57MM GUN (ILS Support), including the retrofitting of software updates and safety testing for previously installed system; (b) An additional two (Qty 2) MK 38 Machine Gun Systems. One is for the OPC program, which increases procurement from 1 to 2 hulls per year, with a corresponding increase in weapons and equipment (including the MK 38 MGS). The second, additional MK38 MGS is for the WMEC as part of WMEC 270' Modernization. Integrated Logistics Support, including support for testing and installation, increase in proportion with these additional procurements; (c) An increase to Combat System Integrated (CSI) costs that correspond to the Spring 2018 finalization of requirements and cost estimates associated with the integration of NT/NO weapons systems with the OPC combat system.

FY 2020 funds the following Coast Guard Weapon items for USCG cutters: procure MK 110 guns and associated ILS; procure MK 160 Gun Computer System and associated support; provide MK 160 test support; procure the MK38 Machine Gun System, associated spares/equipment, MK38 Upgrade to attached a 7.62 MM MK52 Mod 0 Coaxial Gun, and ILS support; provide combat system integration support; procure and integrate the ATHENA Control, Correlation & Display (CCD) System on OPCs, which provides target queuing for Gun Weapon System engagements. The MK 110 is the primary weapon system of the OPC and NSC, and the MK 38 is the primary weapon systems of the FRC and WMEC, and are critical to their self-defense capabilities.

FY 2020 through FY 2023 reflects a change in requirement for the WMEC 270' Modification to procure one MK38 per WMEC hull instead of one MK110 57MM Gun per hull. MK110 57 MM Gun integrated logistics support (ILS) Support is reduced in proportion to the reduction in procurement. ILS Support is added in FY 2020 and continuing through the end of the FYDP to support the MK38 for WMEC.

To support the construction schedule of the Department of Homeland Security addition of National Security Cutter (NSC) #10, \$9.0 million in additional funding was appropriated in the FY 2018 Budget to procure an addition MK110 57 MM gun in FY 2018.

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Exhibit P-5, Cost Analysis: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2		P-1 Line Item Number / Title: 4206 / Coast Guard Weapons
		Item Number / Title [DODIC]: 1 / Coast Guard Weapons

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)	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	127.602	47.931	40.823	0.000	44.980	44.980
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Net Procurement (P-1) (\$ in Millions)	127.602	47.931	40.823	0.000	44.980	44.980
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	127.602	47.931	40.823	0.000	44.980	44.980

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

Initial Spares (\$ in Millions)	-	0.751	0.388	0.000	0.722	0.722
Gross/Weapon System Unit Cost (\$ in Dollars)	-	-	-	-	-	-

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 - CG002 MK 110 GUN Cost

Recurring Cost																		
1.1.1) 57MM GUN ^(†) (1)	8,234K	7	57.636	8,855K	2	17.710	9,023K	2	18.046	-	-	0.000	9,195K	2	18.390	9,195K	2	18.390
1.1.2) ILS SUPPORT (2)	-	-	12.457	-	-	1.847	-	-	2.363	-	-	0.000	-	-	3.416	-	-	3.416
<i>Subtotal: Recurring Cost</i>	-	-	70.093	-	-	19.557	-	-	20.409	-	-	0.000	-	-	21.806	-	-	21.806
<i>Subtotal: Hardware - CG002 MK 110 GUN Cost</i>	-	-	70.093	-	-	19.557	-	-	20.409	-	-	0.000	-	-	21.806	-	-	21.806

Hardware - CG003 MK 160 GCS Cost

Recurring Cost																		
2.1.1) SYSTEM ENGINEERING SUPPORT	-	-	1.340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.2) PRODUCTION SUPPORT	-	-	3.748	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.3) DATA	-	-	1.277	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.4) SOFTWARE & TEST SUPPORT	-	-	1.677	-	-	0.250	-	-	-	-	-	-	-	-	-	-	-	-
2.1.5) ANCILLARY EQUIPMENT ^(†)	522,500.00	2	1.045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.1.6) GUN COMPUTER SYSTEM ^(†)	1,694K	2	3.388	1,535K	3	4.605	1,564K	3	4.692	-	-	0.000	1,594K	2	3.188	1,594K	2	3.188

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Exhibit P-5, Cost Analysis: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2	P-1 Line Item Number / Title: 4206 / Coast Guard Weapons	Item Number / Title [DODIC]: 1 / Coast Guard Weapons

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)
2.1.7) MK160 GCS SOFTWARE UPDATE OPC	-	-	1.420	-	-	0.480	-	-	0.648	-	-	-	-	-	-	-	-	-
2.1.8) ILS SUPPORT (3)	-	-	1.266	-	-	0.158	-	-	0.468	-	-	0.000	-	-	0.714	-	-	0.714
<i>Subtotal: Recurring Cost</i>	-	-	15.161	-	-	5.493	-	-	5.808	-	-	0.000	-	-	3.902	-	-	3.902
<i>Subtotal: Hardware - CG003 MK 160 GCS Cost</i>	-	-	15.161	-	-	5.493	-	-	5.808	-	-	0.000	-	-	3.902	-	-	3.902
Hardware - CG004 MK 38 MACHINE GUN SYSTEMS Cost																		
Recurring Cost																		
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ⁽¹⁾	883,187.50	32	28.262	1,254K	11	13.794	1,278K	6	7.668	-	-	0.000	1,302K	6	7.812	1,302K	6	7.812
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC ⁽¹⁾	1,230K	1	1.230	1,254K	1	1.254	1,278K	1	1.278	-	-	0.000	1,302K	2	2.604	1,302K	2	2.604
3.1.3) MACHINE GUN SYSTEM EQUIPMENT WMEC ⁽⁴⁾	-	-	-	-	-	-	-	-	-	-	-	0.000	1,302K	1	1.302	1,302K	1	1.302
3.1.4) MK38 COAXIAL GUN UPGRADE ⁽⁵⁾	-	-	-	-	-	-	-	-	0.413	-	-	0.000	-	-	0.420	-	-	0.420
3.1.5) ILS SUPPORT FRC	-	-	6.264	-	-	3.988	-	-	2.376	-	-	0.000	-	-	2.418	-	-	2.418
3.1.6) ILS SUPPORT OPC ⁽⁶⁾	-	-	0.381	-	-	0.399	-	-	0.396	-	-	0.000	-	-	0.806	-	-	0.806
3.1.7) ILS Support WMEC ⁽⁷⁾	-	-	-	-	-	-	-	-	-	-	-	0.000	-	-	0.390	-	-	0.390
<i>Subtotal: Recurring Cost</i>	-	-	36.137	-	-	19.435	-	-	12.131	-	-	0.000	-	-	15.752	-	-	15.752
<i>Subtotal: Hardware - CG004 MK 38 MACHINE GUN SYSTEMS Cost</i>	-	-	36.137	-	-	19.435	-	-	12.131	-	-	0.000	-	-	15.752	-	-	15.752
Support - CG005 COMBAT SYSTEM INTEGRATION Cost																		
4.1) CSI ⁽⁸⁾	-	-	6.211	-	-	3.446	-	-	2.475	-	-	0.000	-	-	3.520	-	-	3.520
<i>Subtotal: Support - CG005 COMBAT SYSTEM INTEGRATION Cost</i>	-	-	6.211	-	-	3.446	-	-	2.475	-	-	0.000	-	-	3.520	-	-	3.520
Gross/Weapon System Cost	-	-	127.602	-	-	47.931	-	-	40.823	-	-	0.000	-	-	44.980	-	-	44.980

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Exhibit P-5, Cost Analysis: PB 2020 Navy		Date: March 2019
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2	P-1 Line Item Number / Title: 4206 / Coast Guard Weapons	Item Number / Title [DODIC]: 1 / Coast Guard Weapons
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(†) indicates the presence of a P-5a</p> <p>Footnotes:</p> <p>(1) \$9 Million in additional funding appropriated by Congress in FY 2018 to fund a second 57 MM Gun procurement and associated ILS Support for the Congressional addition of NSC 10 to the FY 2018 budget. Reductions of one 57MM Gun per year in FY 2020 through FY 2023 are due to removal of the requirement to outfit WMEC with the 57MM GUN during the 270 Modernization project. The WMEC 270 Modernization requirement has been updated to procure a MK38 Gun on each hull in place of the 57MM Gun.</p> <p>(2) FY 2019 to FY2020 increase of \$1.053M is for mandatory safety analyses and software updates required for the MK48 Gun Weapons System to authorize cutters to fire and deploy with the MK110 57MM GUN (ILS Support), including the retrofitting of software updates and safety testing for previously installed system.</p> <p>(3) Funding increases from FY 2019 to FY 2020 because program support costs were controlled in previous fiscal years by phasing in integrated logistical support (ILS) for a growing program over time. The MK38 Machine Gun System program has been funding a limited amount of ILS for the Offshore Patrol Cutter (OPC) program in preparation for first delivery. The first OPC delivery is scheduled for late FY19, and requires the remaining planned integrated logistics support to come online shortly after in early FY20, increasing ILS Support from FY19 to FY20.</p> <p>(4) The WMEC 270 Modernization requirement has been updated to procure a MK38 Gun on each hull in place of the 57MM Gun starting in FY 2020.</p> <p>(5) The MK38 will be upgraded with an attached MK 52 Mod 0 Coaxial Automatic Gun. The MK38 Coaxial Gun upgrade will be back-fit on OPC 1 and 2 in FY 2019.</p> <p>(6) FY20 increase attributed to the first Offshore Patrol Cutter (OPC) delivery scheduled for late FY19. Requiring the remaining planned integrated logistics support to come online shortly after in early FY20. In FY21 and out, cost growth is forecasted to be only marginal, approximating inflation.</p> <p>(7) ILS Support for the WMEC 270 Modernization is added to support the updated requirement to procure a MK38 Gun on each WMEC hull in replacement of the 57MM Gun requirement.</p> <p>(8) FY 2019 to FY 2020 increase attributed to updated integration effort requirements for the OPC ATHENA Control, Correlation & Display (CCD) System which provides target queuing for Gun Weapon System engagements. These requirements were established during Spring 2018 when final cost estimates were received.</p>		

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

Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2	P-1 Line Item Number / Title: 4206 / Coast Guard Weapons	Item Number / Title [DODIC]: 1 / Coast Guard Weapons
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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 (Each)	Unit Cost (\$)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) 57MM GUN ^(†)		2013	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NAVSEA	Sep 2014	Sep 2016	1	8,600K	Y		Jun 2010
1.1.1) 57MM GUN ^(†)		2015	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NAVSEA	Oct 2015	Oct 2017	1	8,097K	Y		Oct 2013
1.1.1) 57MM GUN ^(†)		2016	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NAVSEA	Dec 2015	Dec 2017	1	8,528K	Y		Oct 2013
1.1.1) 57MM GUN ^(†)		2017	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NAVSEA	Aug 2017	Aug 2019	2	8,490K	Y		Aug 2016
1.1.1) 57MM GUN ^(†)		2018	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NAVSEA	Jun 2018	Jun 2020	2	8,855K	Y		Aug 2016
1.1.1) 57MM GUN ^(†)		2019 ⁽⁹⁾	BAE SYSTEMS / MINNEAPOLIS, MN	C / FFP	NAVSEA	Apr 2019	Jul 2021	2	9,023K	N		
1.1.1) 57MM GUN ^(†)	✓	2020 ⁽¹⁰⁾	BAE SYSTEMS / MINNEAPOLIS, MN	C / FFP	NAVSEA	Apr 2020	Jul 2022	2	9,195K	N		
2.1.5) ANCILLARY EQUIPMENT		2016	US Army Contracting Command / Picatinny Arsenal, NJ	MIPR	Picatinny, NJ	Aug 2016	Aug 2017	2	522,500.00	Y		Mar 2016
2.1.6) GUN COMPUTER SYSTEM		2017	LOCKHEED MARTIN / MANASSAS, VA	C / FFP	NAVSEA	Mar 2017	Dec 2017	1	1,506K	Y		Jan 2016
2.1.6) GUN COMPUTER SYSTEM		2018	LOCKHEED MARTIN / MANASSAS, VA	C / FFP	NAVSEA	Mar 2018	Dec 2018	3	1,535K	Y		Jan 2016
2.1.6) GUN COMPUTER SYSTEM		2019 ⁽¹¹⁾	LOCKHEED MARTIN / MANASSAS, VA	C / FFP	NAVSEA	Jun 2019	Dec 2020	3	1,564K	N		Jan 2016
2.1.6) GUN COMPUTER SYSTEM	✓	2020 ⁽¹²⁾	LOCKHEED MARTIN / MANASSAS, VA	C / FFP	NAVSEA	Jun 2020	Dec 2021	2	1,594K	N		Jan 2016
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ^(†)		2015	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NSWC IHD	Oct 2015	Oct 2016	4	1,185K	Y		Aug 2015
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ^(†)		2017	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NSWC IHD	Sep 2017	Sep 2018	1	1,230K	Y		Aug 2016
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ^(†)		2018	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NSWC IHD	Jun 2018	Jun 2019	11	1,254K	Y		Aug 2016
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ^(†)		2019	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NSWC IHD	Jun 2019	Jun 2020	6	1,278K	N		Aug 2016
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC ^(†)	✓	2020	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NSWC IHD	Jun 2020	Jun 2021	6	1,302K	N		Aug 2016
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC ^(†)		2017	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NSWC IHD	Mar 2017	Mar 2018	1	1,230K	Y		Aug 2015
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC ^(†)		2018	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NSWC IHD	Jun 2018	Jun 2019	1	1,254K	Y		Aug 2015
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC		2019	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NSWC IHD	Jun 2019	Jun 2020	1	1,278K	N		Aug 2015

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

Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2	P-1 Line Item Number / Title: 4206 / Coast Guard Weapons	Item Number / Title [DODIC]: 1 / Coast Guard Weapons
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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>(\$)</i>	Specs Avail Now?	Date Revision Available	RFP Issue Date
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC	✓	2020	BAE SYSTEMS / MINNEAPOLIS, MN	SS / FP	NSWC IHD	Jun 2021	Jun 2022	2	1,302K	N		Aug 2015

^(†) indicates the presence of a P-21

Footnotes:
⁽⁹⁾ 27 month manufacturing lead time.
⁽¹⁰⁾ 27 month manufacturing lead time.
⁽¹¹⁾ Manufacturing lead time will be 18 months.
⁽¹²⁾ Manufacturing lead time will be 18 months.

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

Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 **P-1 Line Item Number / Title:** 4206 / Coast Guard Weapons **Item Number / Title [DODIC]:** 1 / Coast Guard Weapons

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2014												Fiscal Year 2015												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2013	BAL DUE AS OF 1 OCT	Calendar Year 2014												Calendar Year 2015												
							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
1.1.1) 57MM GUN ⁽¹⁾																															
Prior Years Deliveries: 2																															
	1	2013	NAVY	1	0	1																							1		
	1	2015	NAVY	1	0	1																							1		
	1	2016	NAVY	1	0	1																							1		
	1	2017	NAVY	2	0	2																							2		
	1	2018	NAVY	2	0	2																							2		
	1	2019	NAVY	2 ⁽¹³⁾	0	2																							2		
✓	1	2020	NAVY	2	0	2																							2		
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC																															
Prior Years Deliveries: 27																															
	2	2015	NAVY	4	0	4																							4		
	2	2017	NAVY	1	0	1																							1		
	2	2018	NAVY	11	0	11																							11		
	2	2019	NAVY	6	0	6																							6		
✓	2	2020	NAVY	6	0	6																							6		
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC																															
	3	2017	NAVY	1	0	1																							1		
	3	2018	NAVY	1	0	1																							1		
							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 / 04 / 2	P-1 Line Item Number / Title: 4206 / Coast Guard Weapons	Item Number / Title [DODIC]: 1 / Coast Guard Weapons
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Cost Elements <i>(Units in Each)</i>						Fiscal Year 2016													Fiscal Year 2017													BALANCE	
O C O #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2015	BAL DUE AS OF 1 OCT	Calendar Year 2016													Calendar Year 2017													
							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			
1.1.1) 57MM GUN ⁽¹⁾																																	
Prior Years Deliveries: 2																																	
	1	2013	NAVY	1	0	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	0	
	1	2015	NAVY	1	0	1	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
	1	2016	NAVY	1	0	1				A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	
	1	2017	NAVY	2	0	2																								A -	-	2	
	1	2018	NAVY	2	0	2																										2	
	1	2019	NAVY	2 ⁽¹³⁾	0	2																										2	
✓	1	2020	NAVY	2	0	2																										2	
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC																																	
Prior Years Deliveries: 27																																	
	2	2015	NAVY	4	0	4	A -	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	1	0	
	2	2017	NAVY	1	0	1																								A -	-	1	
	2	2018	NAVY	11	0	11																										11	
	2	2019	NAVY	6	0	6																										6	
✓	2	2020	NAVY	6	0	6																										6	
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC																																	
	3	2017	NAVY	1	0	1																								A -	-	-	1
	3	2018	NAVY	1	0	1																										1	
							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 / 04 / 2 **P-1 Line Item Number / Title:** 4206 / Coast Guard Weapons **Item Number / Title [DODIC]:** 1 / Coast Guard Weapons

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2018												Fiscal Year 2019												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2017	BAL DUE AS OF 1 OCT	Calendar Year 2018												Calendar Year 2019												
							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
1.1.1) 57MM GUN ⁽¹⁾																															
Prior Years Deliveries: 2																															
	1	2013	NAVY	1	1	0																							0		
	1	2015	NAVY	1	0	1	1																						0		
	1	2016	NAVY	1	0	1	-	-	1																				0		
	1	2017	NAVY	2	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1		
	1	2018	NAVY	2	0	2								A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2		
	1	2019	NAVY	2 ⁽¹³⁾	0	2																					A	-	2		
✓	1	2020	NAVY	2	0	2																						2			
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC																															
Prior Years Deliveries: 27																															
	2	2015	NAVY	4	4	0																							0		
	2	2017	NAVY	1	0	1	-	-	-	-	-	-	-	-	-	1													0		
	2	2018	NAVY	11	0	11								A	-	-	-	-	-	-	-	-	-	-	-	1	-	1	9		
	2	2019	NAVY	6	0	6																			A	-	-	-	6		
✓	2	2020	NAVY	6	0	6																						6			
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC																															
	3	2017	NAVY	1	0	1	-	-	-	-	-	1																	0		
	3	2018	NAVY	1	0	1								A	-	-	-	-	-	-	-	-	-	-	-	-	1		0		
							O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	A	M	J	J	A	S
							C	O	E	A	E	A	A	A	U	U	P	C	O	O	E	A	E	A	P	A	U	U	A	S	
							T	V	C	N	B	R	R	Y	N	L	G	E	T	V	C	N	B	R	R	Y	N	L	G	P	

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

Appropriation / Budget Activity / Budget Sub Activity: 1507N / 04 / 2 **P-1 Line Item Number / Title:** 4206 / Coast Guard Weapons **Item Number / Title [DODIC]:** 1 / Coast Guard Weapons

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2020												Fiscal Year 2021												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2019	BAL DUE AS OF 1 OCT	Calendar Year 2020												Calendar Year 2021												
							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
1.1.1) 57MM GUN ⁽¹⁾																															
Prior Years Deliveries: 2																															
	1	2013	NAVY	1	1	0																						0			
	1	2015	NAVY	1	1	0																						0			
	1	2016	NAVY	1	1	0																						0			
	1	2017	NAVY	2	1	1	-	1																				0			
	1	2018	NAVY	2	0	2	-	-	-	-	-	-	-	1	-	-	1											0			
	1	2019	NAVY	2 ⁽¹³⁾	0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1			
✓	1	2020	NAVY	2	0	2								A	-	-	-	-	-	-	-	-	-	-	-	-	-	2			
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC																															
Prior Years Deliveries: 27																															
	2	2015	NAVY	4	4	0																						0			
	2	2017	NAVY	1	1	0																						0			
	2	2018	NAVY	11	2	9	1	-	1	-	1	1	1	1	-	1	-	1	-	1	-	1	-	1	-	1	-	0			
	2	2019	NAVY	6	0	6	-	-	-	-	-	-	-	1	-	1	-	1	-	1	-	1	-	1	-	1	-	0			
✓	2	2020	NAVY	6	0	6								A	-	-	-	-	-	-	-	-	-	-	-	1	-	1	4		
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC																															
	3	2017	NAVY	1	1	0																						0			
	3	2018	NAVY	1	1	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 / 04 / 2 **P-1 Line Item Number / Title:** 4206 / Coast Guard Weapons **Item Number / Title [DODIC]:** 1 / Coast Guard Weapons

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2022												Fiscal Year 2023												BALANCE	
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2021	BAL DUE AS OF 1 OCT	Calendar Year 2022												Calendar Year 2023												
							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
1.1.1) 57MM GUN ⁽¹⁾																															
Prior Years Deliveries: 2																															
	1	2013	NAVY	1	1	0																						0			
	1	2015	NAVY	1	1	0																						0			
	1	2016	NAVY	1	1	0																						0			
	1	2017	NAVY	2	2	0																						0			
	1	2018	NAVY	2	2	0																						0			
	1	2019	NAVY	2 ⁽¹³⁾	1	1	1																					0			
✓	1	2020	NAVY	2	0	2	-	-	-	-	-	-	-	-	-	1	-	-	1									0			
3.1.1) MACHINE GUN SYSTEM EQUIPMENT FRC																															
Prior Years Deliveries: 27																															
	2	2015	NAVY	4	4	0																						0			
	2	2017	NAVY	1	1	0																						0			
	2	2018	NAVY	11	11	0																						0			
	2	2019	NAVY	6	6	0																						0			
✓	2	2020	NAVY	6	2	4	1	-	1	-	1	-	1															0			
3.1.2) MACHINE GUN SYSTEM EQUIPMENT OPC																															
	3	2017	NAVY	1	1	0																						0			
	3	2018	NAVY	1	1	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 / 04 / 2	P-1 Line Item Number / Title: 4206 / Coast Guard Weapons	Item Number / Title [DODIC]: 1 / Coast Guard Weapons
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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	BAE SYSTEMS - MINNEAPOLIS, MN	1	2	4	9	3	30	33	3	3	24	27
2	BAE SYSTEMS - MINNEAPOLIS, MN	10	24	60	6	3	18	21	3	3	12	15
3	BAE SYSTEMS - MINNEAPOLIS, MN	10	24	60	6	3	18	21	3	3	12	15

"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:

⁽¹³⁾ Data not yet available