

Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
 1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 02: Modification of Missiles

P-1 Line Item Number / Title:
 1250 / TRIDENT II Mods

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0603561N, 06030570N, 09012111N, 0101221N

Line Item MDAP/MAIS Code: N/A

Resource Summary	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (<i>\$ in Millions</i>)	13,416.219	1,099.086	1,143.595	1,078.750	0.000	1,078.750	1,178.210	1,217.078	1,205.587	1,308.930	3,215.106	24,862.561
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	13,416.219	1,099.086	1,143.595	1,078.750	0.000	1,078.750	1,178.210	1,217.078	1,205.587	1,308.930	3,215.106	24,862.561
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	13,416.219	1,099.086	1,143.595	1,078.750	0.000	1,078.750	1,178.210	1,217.078	1,205.587	1,308.930	3,215.106	24,862.561

(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 Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The TRIDENT II (D5) missiles will be carried on OHIO CLASS Fleet Ballistic Missile Submarines through 2042 and will be the initial payload for the COLUMBIA Class Fleet Ballistic Missile Submarines. The D5 Life Extension (D5LE) program will ensure that the United States continues to maintain a highly survivable strategic deterrent well into the 21st century. The TRIDENT II missile (1) enhances fleet ballistic missile submarine survivability as it increases the sea launched ballistic missile range at full payload to exploit the total patrol area available to the TRIDENT submarine, (2) minimizes total weapon system costs as it has increased the sea launched ballistic missile payload to the level permitted by the size of the TRIDENT submarine launch tube, thereby allowing mission capability to be achieved with fewer submarines, and (3) has added an efficient hard target kill capability to the sea launched ballistic missiles.

Major D5 Life Extension Costs Include:

Production Support: Funding supports D5 Life Extension (D5LE) system integration, D5LE tooling and test equipment, D5LE Flight Test Instrumentation and Analysis, support for the new Test Missile Kits (TMK's), and D5LE end of production costs.

Guidance Hardware: Includes procurement of subcomponents necessary for a complete Guidance System which consists of an Inertial Measurement Unit (IMU) and Electronics Assembly (EA). Within the IMU and EA there are numerous sub-components which are included in this cost element including Guidance Circuit Card Assemblies (CCA), Guidance Accelerometer Sensors (PIGA), Interferometric Fiber Optic Gyros (IFOG), Detector Package Assemblies (DPA) and Mk6 LE Electronic Part Sets (LEEP) and associated production support.

Fleet Return Missile Electronic SPALT Kits: Includes procurement of the 4 Missile Electronics Packages and associated production support in order to extend the life of the D5 Missile to align with the Ohio Class life.
 Joint Fuze Sustainment: Includes the procurement of the Arming Fuzing & Firing (AF&F) kits.

Major Operating and Support Costs Include:

Solid Rocket Motor's (SRM's) and Post Boost Control systems (PBCS's): Includes procurement of SRM's, PBCS's, and all associated costs including production requalification, HMX procurement, tooling, railcar support and Production Evaluation Testing and Static Firing.

Exhibit P-40, Budget Line Item Justification: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 02: Modification of Missiles		P-1 Line Item Number / Title: 1250 / TRIDENT II Mods
ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: 0603561N, 06030570N, 09012111N, 0101221N
Line Item MDAP/MAIS Code: N/A		
Strategic Arms Reduction Treaty (New START): Funding supports the nuclear arms reduction treaty (New START) between the United States and the Russian Federation which limits the number of deployed launchers.		

Exhibit P-40, Budget Line Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity:
1507N: Weapons Procurement, Navy / BA 01: Ballistic Missiles / BSA 02: Modification of Missiles

P-1 Line Item Number / Title:
1250 / TRIDENT II Mods

ID Code (A=Service Ready, B=Not Service Ready): A **Program Elements for Code B Items:** N/A **Other Related Program Elements:** 0603561N, 06030570N, 09012111N, 0101221N

Line Item MDAP/MAIS Code: N/A

Exhibits Schedule					Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 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 / TRIDENT II Mods - D5 Life Extension	P-5a, P-21		178	- / 9,215.467	- / 614.046	- / 646.766	- / 576.540	- / 0.000	- / 576.540
P-5	2 / TRIDENT II Mods -Operating and Support Costs	P-5a, P-21			- / 4,200.752	- / 485.040	- / 496.829	- / 502.210	- / 0.000	- / 502.210
P-40	Total Gross/Weapon System Cost				- / 13,416.219	- / 1,099.086	- / 1,143.595	- / 1,078.750	- / 0.000	- / 1,078.750

*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:
Funding in the TRIDENT II Mods line is required to continue the procurement of TRIDENT II missiles and currently supports the life-extension of the D5 missile. The FY 2019 request of \$576.540 million for the D5 Life Extension (D5LE) Program, supports the redesign of the guidance system and missile electronics packages, which must be replaced to support the extended service life of the Ohio Class Submarines. FY 2019 funding procures missile electronic and guidance SPALT kits as well as other critical components required to support the extended SSBN hull life for a 14 SSBN TRIDENT II program.

Increases from FY 2018 to FY 2019 include:
- Increased QTY procurements of Guidance Electronic package subcomponents that are required to meet shipfill and STRATCOM requirements.
- An increase in Joint Fuze Sustainment for the First Production Unit(FPU) and follow on units for the Arming Fuzing and Firing (AF&F) Kit which is scheduled for December 2019. In order to meet the FPU and deployment schedule, piece part procurement increases from FY 2018 to FY 2019 are required for various commodities to include the Impact Fuze, Terminal Protection Device (TPD), Thermal Battery Assembly (TBA), Pathlength Module (PLM), Missile Interface and Controllers Module (MICM), and the Radar Module (RM). Additional hardware such as Application Specific Integrated Circuits (ASICs), Heterojunction Bipolar Transistor (HBTs), and Igniters continue to be in full production in FY 2019. As piece part procurement increases and AF&F production is fully operational, production and systems engineering support at the Department of Energy facilities increases to support the AF&F production activities.

The FY 2019 request of \$502.210 million for Operating and Support Costs funds efforts associated with the sustainment of TRIDENT II (D5) missiles to include system integration efforts, replacement of aging rocket motors, refreshes and replacement of D5 legacy tooling and test support equipment, Supportability Mods/Strategic Programs Alteration (SPALT) Insertion and modifications required for NEW START treaty obligations.

Increases from FY 2018 to FY 2019 include:
-Increase in Warhead Components to support the '-3 Option' program initiation efforts including but not limited to, evaluating and updating requirements documentation, SPALT development, updating facility handling/processing documentation, development of implementation concept of operations, initiation of the qualification efforts, and safety study and DoE production engineering.
-Shape Stable Nostip (SSNT) - The Mk4A SSNT effort will convert reentry body forward shell assemblies (FSA's) from legacy carbon composite nose tips to SSNT's. FY 2019 WPN resources support development and assembly of a flight test body that will be flown in FY 2020 to evaluate developmental hardware performance.

The FY 2019 funding request was reduced by \$18.523 million to reflect the Department of Navy's effort to support the Office of Management and Budget directed reforms for Efficiency and Effectiveness that include a lean, accountable, more efficient government.

Exhibit P-5, Cost Analysis: PB 2019 Navy															Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02							P-1 Line Item Number / Title: 1250 / TRIDENT II Mods							Item Number / Title [DODIC]: 1 / TRIDENT II Mods - D5 Life Extension							
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code: 178											
Resource Summary				Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				9,215.467			614.046			646.766			576.540			0.000			576.540		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				9,215.467			614.046			646.766			576.540			0.000			576.540		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				9,215.467			614.046			646.766			576.540			0.000			576.540		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements		Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)		
Flyaway - Missile End Cost																					
Recurring Cost																					
1.1.1) Airframe & Motor Flyaway Cost ⁽¹⁾		50,814.833	48	2,439.112	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000		
1.1.2) SPALT Kits ⁽¹⁾		3,580.556	108	386.700	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000		
1.1.3) Prior Year Procurement		-	-	-1,183.600	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000		
<i>Subtotal: Recurring Cost</i>		-	-	<i>1,642.212</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>		
<i>Subtotal: Flyaway - Missile End Cost</i>		-	-	<i>1,642.212</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>		
Hardware - Missile Hardware Cost																					
Recurring Cost																					
2.1.1) Missile Hardware		-	-	1,549.266	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000		
<i>Subtotal: Recurring Cost</i>		-	-	<i>1,549.266</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>		
<i>Subtotal: Hardware - Missile Hardware Cost</i>		-	-	<i>1,549.266</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>		
Hardware - Redesign Cost																					
Recurring Cost																					
3.1.1) Redesign		-	-	2,787.145	-	-	47.687	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000		
<i>Subtotal: Recurring Cost</i>		-	-	<i>2,787.145</i>	-	-	<i>47.687</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>		
<i>Subtotal: Hardware - Redesign Cost</i>		-	-	<i>2,787.145</i>	-	-	<i>47.687</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>	-	-	<i>0.000</i>		
Hardware - Joint Fuze Sustainment Cost																					
Recurring Cost																					

Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity:						P-1 Line Item Number / Title:						Item Number / Title [DODIC]:						
1507N / 01 / 02						1250 / TRIDENT II Mods						1 / TRIDENT II Mods - D5 Life Extension						
ID Code (A=Service Ready, B=Not Service Ready) :										MDAP/MAIS Code: 178								
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																		
Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
4.1.1) Joint Fuze Sustainment ^(†)	-	-	24.975	-	-	23.100	-	-	41.254	2,148.400	30	64.452	-	-	0.000	2,148.400	30	64.452
<i>Subtotal: Recurring Cost</i>	-	-	24.975	-	-	23.100	-	-	41.254	-	-	64.452	-	-	0.000	-	-	64.452
<i>Subtotal: Hardware - Joint Fuze Sustainment Cost</i>	-	-	24.975	-	-	23.100	-	-	41.254	-	-	64.452	-	-	0.000	-	-	64.452
Hardware - Production Support Cost																		
Recurring Cost																		
5.1.1) Production Support	-	-	1,483.792	-	-	210.176	-	-	234.256	-	-	148.616	-	-	0.000	-	-	148.616
<i>Subtotal: Recurring Cost</i>	-	-	1,483.792	-	-	210.176	-	-	234.256	-	-	148.616	-	-	0.000	-	-	148.616
<i>Subtotal: Hardware - Production Support Cost</i>	-	-	1,483.792	-	-	210.176	-	-	234.256	-	-	148.616	-	-	0.000	-	-	148.616
Hardware - Guidance Hardware Cost																		
Recurring Cost																		
6.1.1) Circuit Card Assemblies (CCA's) ^(†)	1,538.727	264	406.224	1,660.184	49	81.349	1,591.000	55	87.505	1,515.000	62	93.930	-	-	0.000	1,515.000	62	93.930
6.1.2) Interferometric Fiber-Optic Gyro (IFOG) ^(†)	135.514	601	81.444	149.523	130	19.438	125.000	185	23.125	122.000	200	24.400	-	-	0.000	122.000	200	24.400
6.1.3) Detector Package Assembly (DPA)	220.000	868	190.960	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
6.1.4) MK6 LE Electronic Piece Parts (LEEP Set) ^(†)	994.101	554	550.732	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
6.1.5) Guidance Accelerometer Sensors (PIGA) ^(†)	231.271	550	127.199	261.664	125	32.708	240.000	180	43.200	231.000	200	46.200	-	-	0.000	231.000	200	46.200
6.1.6) Guidance Production Support	-	-	215.187	-	-	44.176	-	-	60.016	-	-	45.871	-	-	0.000	-	-	45.871
<i>Subtotal: Recurring Cost</i>	-	-	1,571.746	-	-	177.671	-	-	213.846	-	-	210.401	-	-	0.000	-	-	210.401
<i>Subtotal: Hardware - Guidance Hardware Cost</i>	-	-	1,571.746	-	-	177.671	-	-	213.846	-	-	210.401	-	-	0.000	-	-	210.401
Hardware - Fleet Return Missile Electronic SPALT Kits Cost																		
Recurring Cost																		
7.1.1) Flight Control Electronic Assembly (FCEA) ^(†)	607.394	33	20.044	618.925	40	24.757	630.700	40	25.228	642.683	41	26.350	-	-	0.000	642.683	41	26.350
7.1.2) Missile Inverter ^(†)	830.500	24	19.932	846.286	21	17.772	862.400	20	17.248	878.760	25	21.969	-	-	0.000	878.760	25	21.969

Exhibit P-5, Cost Analysis: PB 2019 Navy		Date: February 2018
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02	P-1 Line Item Number / Title: 1250 / TRIDENT II Mods	Item Number / Title [DODIC]: 1 / TRIDENT II Mods - D5 Life Extension
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code: 178

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

Cost Elements	Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
7.1.3) Command Sequencer ^(†)	656.833	24	15.764	669.316	19	12.717	682.000	19	12.958	694.947	19	13.204	-	-	0.000	694.947	19	13.204
7.1.4) Interlocks ^(†)	1,150.417	36	41.415	1,172.293	41	48.064	1,194.561	41	48.977	1,217.244	41	49.907	-	-	0.000	1,217.244	41	49.907
7.1.5) Missile Production Support	-	-	59.176	-	-	52.102	-	-	52.999	-	-	41.641	-	-	0.000	-	-	41.641
<i>Subtotal: Recurring Cost</i>	-	-	<i>156.331</i>	-	-	<i>155.412</i>	-	-	<i>157.410</i>	-	-	<i>153.071</i>	-	-	<i>0.000</i>	-	-	<i>153.071</i>
<i>Subtotal: Hardware - Fleet Return Missile Electronic SPALT Kits Cost</i>	-	-	<i>156.331</i>	-	-	<i>155.412</i>	-	-	<i>157.410</i>	-	-	<i>153.071</i>	-	-	<i>0.000</i>	-	-	<i>153.071</i>
Gross/Weapon System Cost	-	-	9,215.467	-	-	614.046	-	-	646.766	-	-	576.540	-	-	0.000	-	-	576.540

^(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02			P-1 Line Item Number / Title: 1250 / TRIDENT II Mods					Item Number / Title [DODIC]: 1 / TRIDENT II Mods - D5 Life Extension				
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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
1.1.1) Airframe & Motor Flyaway Cost		2011	Lockheed Martin / Sunnyvale, CA	Various	SSP - Crystal City, VA	Dec 2010	Feb 2014	24	22,098.375	Y		
1.1.1) Airframe & Motor Flyaway Cost		2012	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Dec 2011	Feb 2015	24	22,150.583	Y		
1.1.2) SPALT Kits		2011	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Dec 2010	Feb 2014	12	6,460.330	Y		
1.1.2) SPALT Kits		2012	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Dec 2011	Feb 2015	24	3,221.710	Y		
1.1.2) SPALT Kits		2013	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Dec 2012	Feb 2016	24	3,193.080	Y		
1.1.2) SPALT Kits		2014	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2013	Feb 2017	24	3,180.880	Y		
1.1.2) SPALT Kits		2015	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2014	Feb 2018	22	3,281.727	Y		
1.1.2) SPALT Kits		2016	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2015	Feb 2019	2	3,341.000	Y		
4.1.1) Joint Fuze Sustainment		2019	Department of Energy (DOE) / Kansas City	Various	SSP - Washington Navy Yard	Oct 2018	Nov 2019	30	2,148.400	Y		
6.1.1) Circuit Card Assemblies (CCA's) ^(†)		2015	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2015	Sep 2015	50	1,602.000	Y		
6.1.1) Circuit Card Assemblies (CCA's) ^(†)		2016	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2016	Sep 2016	51	1,629.235	Y		
6.1.1) Circuit Card Assemblies (CCA's) ^(†)		2017	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2017	Sep 2017	49	1,660.184	Y		
6.1.1) Circuit Card Assemblies (CCA's) ^(†)		2018	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2018	Sep 2018	55	1,591.000	Y		
6.1.1) Circuit Card Assemblies (CCA's) ^(†)		2019	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2019	Sep 2019	62	1,515.000	Y		
6.1.2) Interferometric Fiber-Optic Gyro (IFOG) ^(†)		2015	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2015	Feb 2016	130	144.000	Y		
6.1.2) Interferometric Fiber-Optic Gyro (IFOG) ^(†)		2016	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2016	Feb 2017	130	146.738	Y		
6.1.2) Interferometric Fiber-Optic Gyro (IFOG) ^(†)		2017	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2017	Feb 2018	130	149.523	Y		
6.1.2) Interferometric Fiber-Optic Gyro (IFOG) ^(†)		2018	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2018	Feb 2019	185	125.000	Y		
6.1.2) Interferometric Fiber-Optic Gyro (IFOG) ^(†)		2019	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2019	Feb 2020	200	122.000	Y		

Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity:			P-1 Line Item Number / Title:					Item Number / Title [DODIC]:				
1507N / 01 / 02			1250 / TRIDENT II Mods					1 / TRIDENT II Mods - D5 Life Extension				
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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
6.1.4) MK6 LE Electronic Piece Parts (LEEP Set)		2015	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2015	Apr 2016	109	1,014.927	Y		
6.1.5) Guidance Accelerometer Sensors (PIGA) ^(†)		2015	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2015	Jun 2016	125	252.000	Y		
6.1.5) Guidance Accelerometer Sensors (PIGA) ^(†)		2016	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2016	Jun 2017	125	256.792	Y		
6.1.5) Guidance Accelerometer Sensors (PIGA) ^(†)		2017	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2017	Jun 2018	125	261.664	Y		
6.1.5) Guidance Accelerometer Sensors (PIGA) ^(†)		2018	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2018	Jun 2019	180	240.000	Y		
6.1.5) Guidance Accelerometer Sensors (PIGA) ^(†)		2019	Charles Stark Draper Laboratory, INC / Cambridge MA	Various	SSP - Washington Navy Yard	Feb 2019	Jun 2020	200	231.000	Y		
7.1.1) Flight Control Electronic Assembly (FCEA) ^(†)		2016	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2015	Nov 2017	33	607.394	Y		
7.1.1) Flight Control Electronic Assembly (FCEA) ^(†)		2017	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2016	Nov 2018	40	618.925	Y		
7.1.1) Flight Control Electronic Assembly (FCEA) ^(†)		2018	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2017	Nov 2019	40	630.700	Y		
7.1.1) Flight Control Electronic Assembly (FCEA) ^(†)		2019	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2018	Nov 2020	41	642.683	Y		
7.1.2) Missile Inverter ^(†)		2016	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2015	Jan 2018	24	830.500	Y		
7.1.2) Missile Inverter ^(†)		2017	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2016	Jan 2019	21	846.286	Y		
7.1.2) Missile Inverter ^(†)		2018	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2017	Jan 2020	20	862.400	Y		
7.1.2) Missile Inverter ^(†)		2019	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2018	Jan 2021	25	878.760	Y		
7.1.3) Command Sequencer ^(†)		2016	LOCKHEED MARTIN / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2015	Feb 2018	24	656.833	Y		
7.1.3) Command Sequencer ^(†)		2017	LOCKHEED MARTIN / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2016	Feb 2019	19	669.316	Y		
7.1.3) Command Sequencer ^(†)		2018	LOCKHEED MARTIN / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2017	Feb 2020	19	682.000	Y		
7.1.3) Command Sequencer ^(†)		2019	LOCKHEED MARTIN / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2018	Feb 2021	19	694.947	Y		
7.1.4) Interlocks ^(†)		2016	LOCKHEED MARTIN / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2015	Nov 2017	36	1,150.417	Y		

Exhibit P-5a, Procurement History and Planning: PB 2019 Navy **Date:** February 2018

Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02	P-1 Line Item Number / Title: 1250 / TRIDENT II Mods	Item Number / Title [DODIC]: 1 / TRIDENT II Mods - D5 Life Extension
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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
7.1.4) Interlocks ^(†)		2017	LOCKHEED MARTIN / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2016	Nov 2018	41	1,172.293	Y		
7.1.4) Interlocks ^(†)		2018	LOCKHEED MARTIN / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2017	Nov 2019	41	1,194.561	Y		
7.1.4) Interlocks ^(†)		2019	LOCKHEED MARTIN / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2018	Nov 2020	41	1,217.244	Y		

^(†) indicates the presence of a P-21

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:									
1507N / 01 / 02										1250 / TRIDENT II Mods										1 / TRIDENT II Mods - D5 Life Extension									
Cost Elements (Units in Each)						Fiscal Year 2011										Fiscal Year 2012										B A L A N C E			
O C C O	M F R Y	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 0	BAL D U E A S O F 1 O C T	Calendar Year 2011										Calendar Year 2012													
						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
6.1.1) Circuit Card Assemblies (CCA's)																													
Prior Years Deliveries: 163																													
1	2015	Navy	50	0	50																								50
1	2016	Navy	51	0	51																								51
1	2017	Navy	49	0	49																								49
1	2018	Navy	55	0	55																								55
1	2019	Navy	62	0	62																								62
6.1.2) Interferometric Fiber-Optic Gyro (IFOG)																													
Prior Years Deliveries: 341																													
2	2015	Navy	130	0	130																								130
2	2016	Navy	130	0	130																								130
2	2017	Navy	130	0	130																								130
2	2018	Navy	185	0	185																								185
2	2019	Navy	200	0	200																								200
6.1.5) Guidance Accelerometer Sensors (PIGA)																													
Prior Years Deliveries: 300																													
3	2015	Navy	125	0	125																								125
3	2016	Navy	125	0	125																								125
3	2017	Navy	125	0	125																								125
3	2018	Navy	180	0	180																								180
3	2019	Navy	200	0	200																								200
7.1.1) Flight Control Electronic Assembly (FCEA)																													
4	2016	Navy	33	0	33																								33
4	2017	Navy	40	0	40																								40
4	2018	Navy	40	0	40																								40
4	2019	Navy	41	0	41																								41
7.1.2) Missile Inverter																													
5	2016	Navy	24	0	24																								24
5	2017	Navy	21	0	21																								21
5	2018	Navy	20	0	20																								20
5	2019	Navy	25	0	25																								25
7.1.3) Command Sequencer																													
6	2016	Navy	24	0	24																								24
						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

Exhibit P-21, Production Schedule: PB 2019 Navy																									Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:										
1507N / 01 / 02										1250 / TRIDENT II Mods										1 / TRIDENT II Mods - D5 Life Extension										
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2011										Fiscal Year 2012										B A L A N C E				
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2010	BAL DUE AS OF 1 OCT	Calendar Year 2011										Calendar Year 2012													
							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
	6	2017	Navy	19	0	19																							19	
	6	2018	Navy	19	0	19																							19	
	6	2019	Navy	19	0	19																							19	
7.1.4) Interlocks																														
	7	2016	Navy	36	0	36																							36	
	7	2017	Navy	41	0	41																							41	
	7	2018	Navy	41	0	41																							41	
	7	2019	Navy	41	0	41																							41	
							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

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:									
1507N / 01 / 02										1250 / TRIDENT II Mods										1 / TRIDENT II Mods - D5 Life Extension									
Cost Elements (Units in Each)						Fiscal Year 2013										Fiscal Year 2014										B A L A N C E			
O C C O	M F R Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 2	B A L D U E A S O F 1 O C T	Calendar Year 2013										Calendar Year 2014													
						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
6.1.1) Circuit Card Assemblies (CCA's)																													
Prior Years Deliveries: 163																													
1	2015	Navy	50	0	50																								50
1	2016	Navy	51	0	51																								51
1	2017	Navy	49	0	49																								49
1	2018	Navy	55	0	55																								55
1	2019	Navy	62	0	62																								62
6.1.2) Interferometric Fiber-Optic Gyro (IFOG)																													
Prior Years Deliveries: 341																													
2	2015	Navy	130	0	130																								130
2	2016	Navy	130	0	130																								130
2	2017	Navy	130	0	130																								130
2	2018	Navy	185	0	185																								185
2	2019	Navy	200	0	200																								200
6.1.5) Guidance Accelerometer Sensors (PIGA)																													
Prior Years Deliveries: 300																													
3	2015	Navy	125	0	125																								125
3	2016	Navy	125	0	125																								125
3	2017	Navy	125	0	125																								125
3	2018	Navy	180	0	180																								180
3	2019	Navy	200	0	200																								200
7.1.1) Flight Control Electronic Assembly (FCEA)																													
4	2016	Navy	33	0	33																								33
4	2017	Navy	40	0	40																								40
4	2018	Navy	40	0	40																								40
4	2019	Navy	41	0	41																								41
7.1.2) Missile Inverter																													
5	2016	Navy	24	0	24																								24
5	2017	Navy	21	0	21																								21
5	2018	Navy	20	0	20																								20
5	2019	Navy	25	0	25																								25
7.1.3) Command Sequencer																													
6	2016	Navy	24	0	24																								24
						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

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018														
Appropriation / Budget Activity / Budget Sub Activity:							P-1 Line Item Number / Title:										Item Number / Title [DODIC]:																				
1507N / 01 / 02							1250 / TRIDENT II Mods										1 / TRIDENT II Mods - D5 Life Extension																				
Cost Elements (Units in Each)							Fiscal Year 2013										Fiscal Year 2014						BALANCE														
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT TO 1 OCT 2012	BAL DUE AS OF 1 OCT	Calendar Year 2013										Calendar Year 2014																				
							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						
	6	2017	Navy	19	0	19																															
	6	2018	Navy	19	0	19																															19
	6	2019	Navy	19	0	19																															19
7.1.4) Interlocks																																					
	7	2016	Navy	36	0	36																													36		
	7	2017	Navy	41	0	41																														41	
	7	2018	Navy	41	0	41																															41
	7	2019	Navy	41	0	41																															41
							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							

Exhibit P-21, Production Schedule: PB 2019 Navy																								Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:									
1507N / 01 / 02										1250 / TRIDENT II Mods										1 / TRIDENT II Mods - D5 Life Extension									
Cost Elements (Units in Each)						Fiscal Year 2015										Fiscal Year 2016										B A L A N C E			
O C C O #	M F R Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 4	B A L D U E A S O F 1 O C T	Calendar Year 2015										Calendar Year 2016													
						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
6.1.1) Circuit Card Assemblies (CCA's)																													
Prior Years Deliveries: 163																													
1	2015	Navy	50	0	50																								
1	2016	Navy	51	0	51																								
1	2017	Navy	49	0	49																								
1	2018	Navy	55	0	55																								
1	2019	Navy	62	0	62																								
6.1.2) Interferometric Fiber-Optic Gyro (IFOG)																													
Prior Years Deliveries: 341																													
2	2015	Navy	130	0	130																								
2	2016	Navy	130	0	130																								
2	2017	Navy	130	0	130																								
2	2018	Navy	185	0	185																								
2	2019	Navy	200	0	200																								
6.1.5) Guidance Accelerometer Sensors (PIGA)																													
Prior Years Deliveries: 300																													
3	2015	Navy	125	0	125																								
3	2016	Navy	125	0	125																								
3	2017	Navy	125	0	125																								
3	2018	Navy	180	0	180																								
3	2019	Navy	200	0	200																								
7.1.1) Flight Control Electronic Assembly (FCEA)																													
4	2016	Navy	33	0	33																								
4	2017	Navy	40	0	40																								
4	2018	Navy	40	0	40																								
4	2019	Navy	41	0	41																								
7.1.2) Missile Inverter																													
5	2016	Navy	24	0	24																								
5	2017	Navy	21	0	21																								
5	2018	Navy	20	0	20																								
5	2019	Navy	25	0	25																								
7.1.3) Command Sequencer																													
6	2016	Navy	24	0	24																								
						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

Exhibit P-21, Production Schedule: PB 2019 Navy																												Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02														P-1 Line Item Number / Title: 1250 / TRIDENT II Mods										Item Number / Title [DODIC]: 1 / TRIDENT II Mods - D5 Life Extension											
Cost Elements (Units in Each)						Fiscal Year 2015														Fiscal Year 2016														B A L A N C E	
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2014	BAL DUE AS OF 1 OCT	Calendar Year 2015														Calendar Year 2016														
							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					
	6	2017	Navy	19	0	19																							19						
	6	2018	Navy	19	0	19																							19						
	6	2019	Navy	19	0	19																							19						
7.1.4) Interlocks																																			
	7	2016	Navy	36	0	36																							36						
	7	2017	Navy	41	0	41																							41						
	7	2018	Navy	41	0	41																							41						
	7	2019	Navy	41	0	41																							41						
							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					

Exhibit P-21, Production Schedule: PB 2019 Navy																									Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:									
1507N / 01 / 02										1250 / TRIDENT II Mods										1 / TRIDENT II Mods - D5 Life Extension									
Cost Elements (Units in Each)						Fiscal Year 2017										Fiscal Year 2018										B A L A N C E			
O C C #	M F R Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 6	B A L D U E A S O F 1 O C T	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
6.1.1) Circuit Card Assemblies (CCA's)																													
Prior Years Deliveries: 163																													
1	2015	Navy	50	50	0																								0
1	2016	Navy	51	5	46	5	5	4	4	4	4	4	4	4	4	4													0
1	2017	Navy	49	0	49												4	4	4	4	4	4	4	4	4	4	5		0
1	2018	Navy	55	0	55																							5	50
1	2019	Navy	62	0	62																								62
6.1.2) Interferometric Fiber-Optic Gyro (IFOG)																													
Prior Years Deliveries: 341																													
2	2015	Navy	130	86	44	11	11	11	11																				0
2	2016	Navy	130	0	130	-	-	-	-	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11			0
2	2017	Navy	130	0	130																								44
2	2018	Navy	185	0	185																								185
2	2019	Navy	200	0	200																								200
6.1.5) Guidance Accelerometer Sensors (PIGA)																													
Prior Years Deliveries: 300																													
3	2015	Navy	125	40	85	10	10	10	11	11	11	11	11																0
3	2016	Navy	125	0	125	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10	11	11	11	11	11			0
3	2017	Navy	125	0	125																								85
3	2018	Navy	180	0	180																								180
3	2019	Navy	200	0	200																								200
7.1.1) Flight Control Electronic Assembly (FCEA)																													
4	2016	Navy	33	0	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	3	3	3	3	3	3
4	2017	Navy	40	0	40																								40
4	2018	Navy	40	0	40																								40
4	2019	Navy	41	0	41																								41
7.1.2) Missile Inverter																													
5	2016	Navy	24	0	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	6
5	2017	Navy	21	0	21																								21
5	2018	Navy	20	0	20																								20
5	2019	Navy	25	0	25																								25
7.1.3) Command Sequencer																													
6	2016	Navy	24	0	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
						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

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018											
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:														
1507N / 01 / 02										1250 / TRIDENT II Mods										1 / TRIDENT II Mods - D5 Life Extension														
Cost Elements <i>(Units in Each)</i>						Fiscal Year 2017										Fiscal Year 2018										BALANCE								
O 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			
6		2017	Navy	19	0	19		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
6		2018	Navy	19	0	19														A	-	-	-	-	-	-	-	-	-	-	-	-	-	19
6		2019	Navy	19	0	19																											19	
7.1.4) Interlocks																																		
7		2016	Navy	36	0	36	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
7		2017	Navy	41	0	41		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41	
7		2018	Navy	41	0	41														A	-	-	-	-	-	-	-	-	-	-	-	-	41	
7		2019	Navy	41	0	41																											41	
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S			
								C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	A	S			
								T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P			

Exhibit P-21, Production Schedule: PB 2019 Navy																												Date: February 2018						
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02														P-1 Line Item Number / Title: 1250 / TRIDENT II Mods										Item Number / Title [DODIC]: 1 / TRIDENT II Mods - D5 Life Extension										
Cost Elements (Units in Each)						Fiscal Year 2019														Fiscal Year 2020														B A L A N C E
O C C O	M F R Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 8	B A L D U E A S O F 1 O C T	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					
6.1.1) Circuit Card Assemblies (CCA's)																																		
Prior Years Deliveries: 163																																		
1	2015	Navy	50	50	0																								0					
1	2016	Navy	51	51	0																								0					
1	2017	Navy	49	49	0																								0					
1	2018	Navy	55	5	50	5	5	5	5	5	5	4	4	4	4	4													0					
1	2019	Navy	62	0	62																								0					
6.1.2) Interferometric Fiber-Optic Gyro (IFOG)																																		
Prior Years Deliveries: 341																																		
2	2015	Navy	130	130	0																								0					
2	2016	Navy	130	130	0																								0					
2	2017	Navy	130	86	44	11	11	11	11																				0					
2	2018	Navy	185	0	185	-	-	-	-	12	13	14	15	16	16	16	16	16	17	17	17								0					
2	2019	Navy	200	0	200																								64					
6.1.5) Guidance Accelerometer Sensors (PIGA)																																		
Prior Years Deliveries: 300																																		
3	2015	Navy	125	125	0																								0					
3	2016	Navy	125	125	0																								0					
3	2017	Navy	125	40	85	10	10	10	11	11	11	11	11																0					
3	2018	Navy	180	0	180	-	-	-	-	-	-	-	-	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	0					
3	2019	Navy	200	0	200																								136					
7.1.1) Flight Control Electronic Assembly (FCEA)																																		
4	2016	Navy	33	30	3	3																							0					
4	2017	Navy	40	0	40	-	3	3	3	3	3	3	3	3	4	4	4	4											0					
4	2018	Navy	40	0	40	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	3	3	3	3	3	3	3					
4	2019	Navy	41	0	41																								41					
7.1.2) Missile Inverter																																		
5	2016	Navy	24	18	6	2	2	2																					0					
5	2017	Navy	21	0	21	-	-	-	2	2	2	2	2	2	2	2	2	1	1	1									0					
5	2018	Navy	20	0	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	2	2	2	2	6					
5	2019	Navy	25	0	25																								25					
7.1.3) Command Sequencer																																		
6	2016	Navy	24	16	8	2	2	2	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					

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018										
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:													
1507N / 01 / 02										1250 / TRIDENT II Mods										1 / TRIDENT II Mods - D5 Life Extension													
Cost Elements (Units in Each)						Fiscal Year 2019										Fiscal Year 2020										B A L A N C E							
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		
6	2017	Navy	19	0	19	-	-	-	-	-	2	2	2	2	2	2	2	1	1	1	1	1											0
6	2018	Navy	19	0	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	2	2	2	8		
6	2019	Navy	19	0	19		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19			
7.1.4) Interlocks																																	
7	2016	Navy	36	33	3	3																						0					
7	2017	Navy	41	0	41	-	3	3	3	3	3	3	3	4	4	4	4											0					
7	2018	Navy	41	0	41	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4	4	4	3	3	3	3	3	3	3	3			
7	2019	Navy	41	0	41		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41				
O C C O 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																																	

Exhibit P-21, Production Schedule: PB 2019 Navy																												Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02														P-1 Line Item Number / Title: 1250 / TRIDENT II Mods														Item Number / Title [DODIC]: 1 / TRIDENT II Mods - D5 Life Extension							
Cost Elements (Units in Each)						Fiscal Year 2021														Fiscal Year 2022														B A L A N C E	
O C C O	M F #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 0	BAL D U E A 	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					
6.1.1) Circuit Card Assemblies (CCA's)																																			
Prior Years Deliveries: 163																																			
1		2015	Navy	50	50	0																							0						
1		2016	Navy	51	51	0																							0						
1		2017	Navy	49	49	0																							0						
1		2018	Navy	55	55	0																							0						
1		2019	Navy	62	62	0																							0						
6.1.2) Interferometric Fiber-Optic Gyro (IFOG)																																			
Prior Years Deliveries: 341																																			
2		2015	Navy	130	130	0																							0						
2		2016	Navy	130	130	0																							0						
2		2017	Navy	130	130	0																							0						
2		2018	Navy	185	185	0																							0						
2		2019	Navy	200	136	64	16	16	16	16																			0						
6.1.5) Guidance Accelerometer Sensors (PIGA)																																			
Prior Years Deliveries: 300																																			
3		2015	Navy	125	125	0																							0						
3		2016	Navy	125	125	0																							0						
3		2017	Navy	125	125	0																							0						
3		2018	Navy	180	180	0																							0						
3		2019	Navy	200	64	136	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	0						
7.1.1) Flight Control Electronic Assembly (FCEA)																																			
4		2016	Navy	33	33	0																							0						
4		2017	Navy	40	40	0																							0						
4		2018	Navy	40	37	3	3																						0						
4		2019	Navy	41	0	41	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0						
7.1.2) Missile Inverter																																			
5		2016	Navy	24	24	0																							0						
5		2017	Navy	21	21	0																							0						
5		2018	Navy	20	14	6	2	2	2																				0						
5		2019	Navy	25	0	25	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	0						
7.1.3) Command Sequencer																																			
6		2016	Navy	24	24	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					

Exhibit P-21, Production Schedule: PB 2019 Navy																											Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02											P-1 Line Item Number / Title: 1250 / TRIDENT II Mods											Item Number / Title [DODIC]: 1 / TRIDENT II Mods - D5 Life Extension								
Cost Elements (Units in Each)						Fiscal Year 2021											Fiscal Year 2022											B A L A N C E		
O C 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
	6	2017	Navy	19	19	0																						0		
	6	2018	Navy	19	11	8	2	2	2	2																		0		
	6	2019	Navy	19	0	19	-	-	-	-	2	2	2	2	2	2	2	1	1	1	1	1						0		
7.1.4) Interlocks																														
	7	2016	Navy	36	36	0																						0		
	7	2017	Navy	41	41	0																						0		
	7	2018	Navy	41	38	3	3																					0		
	7	2019	Navy	41	0	41	-	3	3	3	3	3	3	3	3	4	4	4	4	4	4							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

Exhibit P-21, Production Schedule: PB 2019 Navy									Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02				P-1 Line Item Number / Title: 1250 / TRIDENT II Mods					Item Number / Title [DODIC]: 1 / TRIDENT II Mods - D5 Life Extension			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2019	1-8-5 For 2019	MAX For 2019	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	Charles Stark Draper Laboratory, INC - Cambridge MA	32	50	83	9	4	7	11	9	4	7	11
2	Charles Stark Draper Laboratory, INC - Cambridge MA	120	144	336	9	4	12	16	9	4	12	16
3	Charles Stark Draper Laboratory, INC - Cambridge MA	96	108	288	9	4	16	20	9	4	16	20
4	Lockheed Martin - Sunnyvale, CA	12	36	72	9	1	24	25	9	1	24	25
5	Lockheed Martin - Sunnyvale, CA	12	36	48	9	1	26	27	9	1	26	27
6	LOCKHEED MARTIN - Sunnyvale, CA	12	36	72	9	1	27	28	9	1	27	28
7	LOCKHEED MARTIN - Sunnyvale, CA	12	36	72	9	1	24	25	9	1	24	25

"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).

Exhibit P-5, Cost Analysis: PB 2019 Navy													Date: February 2018								
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02						P-1 Line Item Number / Title: 1250 / TRIDENT II Mods						Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs									
ID Code (A=Service Ready, B=Not Service Ready) :									MDAP/MAIS Code:												
Resource Summary				Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 Total		
Procurement Quantity (<i>Units in Each</i>)				-			-			-			-			-			-		
Gross/Weapon System Cost (<i>\$ in Millions</i>)				4,200.752			485.040			496.829			502.210			0.000			502.210		
Less PY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Net Procurement (P-1) (<i>\$ in Millions</i>)				4,200.752			485.040			496.829			502.210			0.000			502.210		
Plus CY Advance Procurement (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Total Obligation Authority (<i>\$ in Millions</i>)				4,200.752			485.040			496.829			502.210			0.000			502.210		
<i>(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)</i>																					
Initial Spares (<i>\$ in Millions</i>)				-			-			-			-			-			-		
Gross/Weapon System Unit Cost (<i>\$ in Thousands</i>)				-			-			-			-			-			-		
Note: Subtotals or Totals in this Exhibit P-5 may not be exact or sum exactly due to rounding.																					
Cost Elements		Prior Years			FY 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)		
Support - Support Cost																					
1.1) PIGA		-	-	99.452	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000		
1.2) SWFLANT Production Support		-	-	56.450	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000		
1.3) Warhead Components		-	-	1,337.909	-	-	79.443	-	-	81.352	-	-	87.330	-	-	0.000	-	-	87.330		
1.4) Shape Stable Nose Tip (SSNT)		-	-	0.000	-	-	0.000	-	-	0.000	-	-	8.800	-	-	0.000	-	-	8.800		
1.5) Tooling, Test/Support Equipment		-	-	371.325	-	-	43.770	-	-	48.678	-	-	47.972	-	-	0.000	-	-	47.972		
1.6) Containers		-	-	3.433	-	-	0.142	-	-	0.100	-	-	0.100	-	-	0.000	-	-	0.100		
1.7) System Integration & Planning		-	-	166.775	-	-	15.487	-	-	16.022	-	-	16.214	-	-	0.000	-	-	16.214		
1.8) Supportability Mods/ SPALT Insertion		-	-	421.886	-	-	41.743	-	-	42.536	-	-	35.881	-	-	0.000	-	-	35.881		
1.9) Guidance Parts Procurement		-	-	57.123	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000		
1.10) SWFPAC Production Support		-	-	48.050	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000		
1.11) EOP Missile and Guidance Costs		-	-	27.849	-	-	3.955	-	-	4.030	-	-	3.125	-	-	0.000	-	-	3.125		
<i>Subtotal: Support - Support Cost</i>		-	-	2,590.252	-	-	184.540	-	-	192.718	-	-	199.422	-	-	0.000	-	-	199.422		
Support - Solid Rocket Motors and PBCS Cost																					
2.1) Solid Rocket Motor's ^(*)		16,123.000	64	1,031.872	16,677.750	12	200.133	16,994.571	12	203.935	17,317.500	12	207.810	-	-	0.000	17,317.500	12	207.810		

Exhibit P-5, Cost Analysis: PB 2019 Navy												Date: February 2018					
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02						P-1 Line Item Number / Title: 1250 / TRIDENT II Mods						Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs					
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 2017			FY 2018			FY 2019 Base			FY 2019 OCO			FY 2019 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)
2.2) Post Boost Control System (PBCS) ^(†)	1,975.969	64	126.462	2,012.583	12	24.151	2,050.857	14	28.712	2,089.786	14	29.257	-	-	0.000	2,089.786	14	29.257
2.3) HMX	-	-	119.752	-	-	11.064	-	-	11.274	-	-	11.488	-	-	0.000	-	-	11.488
2.4) Other (Tooling, Storage, PET, Stat Fire etc.)	-	-	262.014	-	-	51.152	-	-	52.890	-	-	53.233	-	-	0.000	-	-	53.233
<i>Subtotal: Support - Solid Rocket Motors and PBCS Cost</i>	-	-	1,540.100	-	-	286.500	-	-	296.811	-	-	301.788	-	-	0.000	-	-	301.788
Support - New Start Cost																		
3.1) Aerospike Protective Cap	-	-	0.100	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.2) 3rd Stage Motor Support	-	-	0.000	-	-	3.200	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.3) Bare Missile Bridge	-	-	14.000	-	-	3.400	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.4) 1st and 2nd Stage Motor Chocks	-	-	21.500	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.5) Motor Chock Storage	-	-	11.100	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.6) 3rd Stage Dollies	-	-	2.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000	-	-	0.000
3.7) Additional Movement/Transport/Storage/Equip	-	-	21.700	-	-	7.400	-	-	7.300	-	-	1.000	-	-	0.000	-	-	1.000
<i>Subtotal: Support - New Start Cost</i>	-	-	70.400	-	-	14.000	-	-	7.300	-	-	1.000	-	-	0.000	-	-	1.000
Gross/Weapon System Cost	-	-	4,200.752	-	-	485.040	-	-	496.829	-	-	502.210	-	-	0.000	-	-	502.210

(†) indicates the presence of a P-5a

Exhibit P-5a, Procurement History and Planning: PB 2019 Navy								Date: February 2018				
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02			P-1 Line Item Number / Title: 1250 / TRIDENT II Mods					Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs				
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 (\$ K)	Specs Avail Now?	Date Revision Available	RFP Issue Date
2.1) Solid Rocket Motor's ^(†)		2012	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Dec 2011	Feb 2015	12	0.000	Y		
2.1) Solid Rocket Motor's ^(†)		2013	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Dec 2012	Feb 2016	12	0.000	Y		
2.1) Solid Rocket Motor's ^(†)		2014	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2013	Feb 2017	12	0.000	Y		
2.1) Solid Rocket Motor's ^(†)		2015	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2014	Feb 2018	12	16,066.750	Y		
2.1) Solid Rocket Motor's ^(†)		2016	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2015	Feb 2019	12	16,366.750	Y		
2.1) Solid Rocket Motor's ^(†)		2017	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2016	Feb 2020	12	16,677.750	Y		
2.1) Solid Rocket Motor's ^(†)		2018	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2017	Feb 2021	12	16,994.571	Y		
2.1) Solid Rocket Motor's ^(†)		2019	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2018	Feb 2022	12	17,317.500	Y		
2.2) Post Boost Control System (PBCS) ^(†)		2015	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2014	Feb 2018	12	1,976.167	Y		
2.2) Post Boost Control System (PBCS) ^(†)		2016	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2015	Feb 2019	12	1,975.083	Y		
2.2) Post Boost Control System (PBCS) ^(†)		2017	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2016	Feb 2020	12	2,012.583	Y		
2.2) Post Boost Control System (PBCS) ^(†)		2018	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2017	Feb 2021	14	2,050.857	Y		
2.2) Post Boost Control System (PBCS) ^(†)		2019	Lockheed Martin / Sunnyvale, CA	Various	SSP - Washington Navy Yard	Nov 2018	Feb 2022	14	2,089.786	Y		

^(†) indicates the presence of a P-21

Exhibit P-21, Production Schedule: PB 2019 Navy																									Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity:										P-1 Line Item Number / Title:										Item Number / Title [DODIC]:												
1507N / 01 / 02										1250 / TRIDENT II Mods										2 / TRIDENT II Mods -Operating and Support Costs												
Cost Elements (Units in Each)						Fiscal Year 2012										Fiscal Year 2013										B A L A N C E						
O C C O	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2011	BAL DUE AS OF 1 OCT	Calendar Year 2012															Calendar Year 2013										
							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) Solid Rocket Motor's																																
Prior Years Deliveries: 4																																
	1	2012	Navy	12	0	12		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12			
	1	2013	Navy	12	0	12														A	-	-	-	-	-	-	-	-	12			
	1	2014	Navy	12	0	12																							12			
	1	2015	Navy	12	0	12																							12			
	1	2016	Navy	12	0	12																							12			
	1	2017	Navy	12	0	12																							12			
	1	2018	Navy	12	0	12																							12			
	1	2019	Navy	12	0	12																							12			
2.2) Post Boost Control System (PBCS)																																
Prior Years Deliveries: 40																																
	2	2015	Navy	12	0	12																							12			
	2	2016	Navy	12	0	12																							12			
	2	2017	Navy	12	0	12																							12			
	2	2018	Navy	14	0	14																							14			
	2	2019	Navy	14	0	14																							14			
								O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	
								C	O	E	A	E	A	P	A	U	U	U	E	C	O	E	A	E	A	P	A	U	U	U	E	
								T	V	C	N	B	R	R	Y	N	L	G	P	T	V	C	N	B	R	R	Y	N	L	G	P	

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02										P-1 Line Item Number / Title: 1250 / TRIDENT II Mods										Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs												
Cost Elements (Units in Each)						Fiscal Year 2014													Fiscal Year 2015													B A L A N C E
O C C #	M F R Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 3	B A L D U E A S O F 1 O C T 1 O C T	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			
2.1) Solid Rocket Motor's																																
Prior Years Deliveries: 4																																
1	2012	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4		
1	2013	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12		
1	2014	Navy	12	0	12		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12		
1	2015	Navy	12	0	12																									12		
1	2016	Navy	12	0	12																									12		
1	2017	Navy	12	0	12																									12		
1	2018	Navy	12	0	12																									12		
1	2019	Navy	12	0	12																									12		
2.2) Post Boost Control System (PBCS)																																
Prior Years Deliveries: 40																																
2	2015	Navy	12	0	12																									12		
2	2016	Navy	12	0	12																									12		
2	2017	Navy	12	0	12																									12		
2	2018	Navy	14	0	14																									14		
2	2019	Navy	14	0	14																									14		
							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		

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02										P-1 Line Item Number / Title: 1250 / TRIDENT II Mods										Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs												
Cost Elements (Units in Each)						Fiscal Year 2016													Fiscal Year 2017													B A L A N C E
O C C #	M F R Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 5	B A L D U E A S O F 1 O C T 1 O C T	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			
2.1) Solid Rocket Motor's																																
Prior Years Deliveries: 4																																
1	2012	Navy	12	8	4	1	1	1	1																				0			
1	2013	Navy	12	0	12	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
1	2014	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	4			
1	2015	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12				
1	2016	Navy	12	0	12		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12				
1	2017	Navy	12	0	12																A	-	-	-	-	-	-	12				
1	2018	Navy	12	0	12																							12				
1	2019	Navy	12	0	12																							12				
2.2) Post Boost Control System (PBCS)																																
Prior Years Deliveries: 40																																
2	2015	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12				
2	2016	Navy	12	0	12		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12				
2	2017	Navy	12	0	12																A	-	-	-	-	-	-	12				
2	2018	Navy	14	0	14																							14				
2	2019	Navy	14	0	14																							14				
						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			

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02										P-1 Line Item Number / Title: 1250 / TRIDENT II Mods										Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs												
Cost Elements (Units in Each)						Fiscal Year 2018													Fiscal Year 2019													B A L A N C E
O C C #	M F Y	S E R V I C E	P R O C Q T Y	A C C E P T P R I O R T O 1 O C T 2 0 1 7	B A L D U E A S O F 1 O C T 1 O C T	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			
2.1) Solid Rocket Motor's																																
Prior Years Deliveries: 4																																
1	2012	Navy	12	12	0																								0			
1	2013	Navy	12	12	0																								0			
1	2014	Navy	12	8	4	1	1	1	1																				0			
1	2015	Navy	12	0	12	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1								0			
1	2016	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	4			
1	2017	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12			
1	2018	Navy	12	0	12		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12			
1	2019	Navy	12	0	12																A	-	-	-	-	-	-	-	12			
2.2) Post Boost Control System (PBCS)																																
Prior Years Deliveries: 40																																
2	2015	Navy	12	0	12	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
2	2016	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	4			
2	2017	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12			
2	2018	Navy	14	0	14		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14			
2	2019	Navy	14	0	14																A	-	-	-	-	-	-	-	14			
						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			

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018									
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02										P-1 Line Item Number / Title: 1250 / TRIDENT II Mods										Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs												
Cost Elements (Units in Each)						Fiscal Year 2020													Fiscal Year 2021													B A L A N C E
O C C #	M F R FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 1 9	BAL D U E A S O F 1 O C T	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			
2.1) Solid Rocket Motor's																																
Prior Years Deliveries: 4																																
1	2012	Navy	12	12	0																								0			
1	2013	Navy	12	12	0																								0			
1	2014	Navy	12	12	0																								0			
1	2015	Navy	12	12	0																								0			
1	2016	Navy	12	8	4	1	1	1	1																				0			
1	2017	Navy	12	0	12	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
1	2018	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	4			
1	2019	Navy	12	0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12			
2.2) Post Boost Control System (PBCS)																																
Prior Years Deliveries: 40																																
2	2015	Navy	12	12	0																								0			
2	2016	Navy	12	8	4	1	1	1	1																				0			
2	2017	Navy	12	0	12	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
2	2018	Navy	14	0	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	6			
2	2019	Navy	14	0	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14			
						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			

Exhibit P-21, Production Schedule: PB 2019 Navy																							Date: February 2018							
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02										P-1 Line Item Number / Title: 1250 / TRIDENT II Mods										Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs										
Cost Elements (Units in Each)						Fiscal Year 2022										Fiscal Year 2023										B A L A N C E				
O C O	M F R #	FY	SERVICE	PROC QTY	ACCEP T P R I O R T O 1 O C T 2 0 2 1	BAL D U E A S O F 1 O C T	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
2.1) Solid Rocket Motor's																														
Prior Years Deliveries: 4																														
1		2012	Navy	12	12	0																							0	
1		2013	Navy	12	12	0																							0	
1		2014	Navy	12	12	0																							0	
1		2015	Navy	12	12	0																							0	
1		2016	Navy	12	12	0																							0	
1		2017	Navy	12	12	0																							0	
1		2018	Navy	12	8	4	1	1	1	1																			0	
1		2019	Navy	12	0	12	-	-	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
2.2) Post Boost Control System (PBCS)																														
Prior Years Deliveries: 40																														
2		2015	Navy	12	12	0																							0	
2		2016	Navy	12	12	0																							0	
2		2017	Navy	12	12	0																							0	
2		2018	Navy	14	8	6	1	1	2	2																			0	
2		2019	Navy	14	0	14	-	-	-	-	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	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

Exhibit P-21, Production Schedule: PB 2019 Navy										Date: February 2018			
Appropriation / Budget Activity / Budget Sub Activity: 1507N / 01 / 02					P-1 Line Item Number / Title: 1250 / TRIDENT II Mods					Item Number / Title [DODIC]: 2 / TRIDENT II Mods -Operating and Support Costs			
MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)								
		MSR For 2019	1-8-5 For 2019	MAX For 2019	Initial				Reorder				
					ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	ALT Prior to Oct 1	ALT After Oct 1	Manufacturing PLT	Total After Oct 1	
1	Lockheed Martin - Sunnyvale, CA	12	14	18	9	1	37	38	9	1	37	38	
2	Lockheed Martin - Sunnyvale, CA	12	14	18	9	1	37	38	9	1	37	38	

"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).