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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition	P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)
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ID Code (A=Service Ready, B=Not Service Ready): A	Program Elements for Code B Items: N/A	Other Related Program Elements: N/A
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Line Item MDAP/MAIS Code: 503

Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	23,050	944	3,037	1,464	-	1,464	1,621	1,577	1,598	1,656	Continuing	Continuing
Gross/Weapon System Cost (<i>\$ in Millions</i>)	501.134	48.526	76.688	73.689	0.000	73.689	75.497	74.199	76.615	80.862	Continuing	Continuing
Less PY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P-1) (<i>\$ in Millions</i>)	501.134	48.526	76.688	73.689	0.000	73.689	75.497	74.199	76.615	80.862	Continuing	Continuing
Plus CY Advance Procurement (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (<i>\$ in Millions</i>)	501.134	48.526	76.688	73.689	0.000	73.689	75.497	74.199	76.615	80.862	Continuing	Continuing

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

Initial Spares (<i>\$ in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (<i>\$ in Dollars</i>)	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	-
Gross/Weapon System Unit Cost (<i>\$ in Dollars</i>)	-	-	-	-	-	-	-	-	-	-	-	-

Description:

The Joint Direct Attack Munition (JDAM) program is a joint Air Force/Navy program with the Air Force as the lead service. Designated ACAT 1C, this program upgrades the existing inventory of general purpose bombs (BLU-111, BLU-117, BLU-110, BLU-109, BLU-126 and BLU-137) by integrating the bombs with a field installed guidance kit using a Global Positioning System-aided Inertial Navigation System (GPS/INS). JDAM provides an accurate, adverse weather capability. JDAM is integrated with the B-52H, B-2A, B-1B, F-16 (all variants), F/A-18A+/C/D/E/F, F-15E, AV-8B, A-10C, F-22A, MQ-9 and F-35 aircraft.

JDAM guides the bomb with movable surfaces that steer the bomb to a target based on a Global Positioning Satellite (GPS) coordinate. There is also a family of weapons which combine GPS and laser capabilities to provide a Dual Mode weapon (procured under 0145 General Purpose Bombs): Laser Joint Direct Attack Munition (LJDAM). The component that is added to the 500 lb. and 2,000 lb. JDAM to provide the Laser capability is the DSU-38, DSU-40 and DSU-42 respectively. The DSU-38, DSU-40, and DSU-42 Precision Laser Guidance Set (PLGS) contains a Semi-Active Laser to engage moving and stationary targets and an adjustable proximity sensor to provide an airburst capability. LJDAM is the material solution for the Direct Attack Moving Target Capability (DAMTC).

Pursuant to section 2308 of Title 10, U.S. Code, this program will seek cost efficiencies where available through production lot negotiations.

Funding may be used to address production Diminishing Manufacturing Sources Material Shortages (DMSMS) and obsolescence issues through studies, bridge buys, life of type buys, supplier/parts replacement, to include electronic components used commercially and in short supply; and qualification activities to preserve future production capabilities and capacities.

Funding may be used to increase production capacity in order to meet warfighter demand.

The quantity being procured in FY 2023 is 1,722 and is based on the updated unit price in FY 2023.

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Exhibit P-40, Budget Line Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity:
1508N: Procurement of Ammo, Navy & MC / BA 01: Proc Ammo, Navy / BSA 1: Navy Ammunition

P-1 Line Item Number / Title:
0148 / JT Direct Attack Munition (JDAM)

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: 503

Exhibits Schedule					Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 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 / JT Direct Attack Munition (JDAM) Tail Kit	P-5a, P-21			23,050 / 501.134	944 / 48.526	3,037 / 76.688	1,464 / 73.689	- / 0.000	1,464 / 73.689
P-40	Total Gross/Weapon System Cost				23,050 / 501.134	944 / 48.526	3,037 / 76.688	1,464 / 73.689	- / 0.000	1,464 / 73.689

*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 2024 baseline funding is required to meet Naval Munitions Requirements Process (NMRP) inventory objectives.
 FY 2024 baseline funding in the amount of \$1.747M is provided in support of Non-Enduring Operations.

OOO:
 FY 2022 includes \$2.951M in OOC execution.
 FY 2023 includes \$0.694M in OOC enacted budget.
 FY 2024 includes \$1.747M for the OOC budget request.

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Exhibit P-5, Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)	Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit

ID Code (A=Service Ready, B=Not Service Ready) :	MDAP/MAIS Code:
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Resource Summary	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Procurement Quantity <i>(Units in Each)</i>	23,050	944	3,037	1,464	-	1,464
Gross/Weapon System Cost <i>(\$ in Millions)</i>	501.134	48.526	76.688	73.689	0.000	73.689
Less PY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Net Procurement (P-1) <i>(\$ in Millions)</i>	501.134	48.526	76.688	73.689	0.000	73.689
Plus CY Advance Procurement <i>(\$ in Millions)</i>	-	-	-	-	-	-
Total Obligation Authority <i>(\$ in Millions)</i>	501.134	48.526	76.688	73.689	0.000	73.689

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

Initial Spares <i>(\$ in Millions)</i>	-	-	-	-	-	-
Gross/Weapon System Unit Cost <i>(\$ in Dollars)</i>	21,741.17	51,404.66	25,251.23	50,334.02	-	50,334.02

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

Cost Elements	Prior Years			FY 2022			FY 2023			FY 2024 Base			FY 2024 OCO			FY 2024 Total		
	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																		
Recurring Cost																		
1.1.1) JD500-JDAM Tail Kit ^(t) (1)	21,311.54	23,050	491.231	41,714.68	944	39.379	42,548.97	1,722	73.269	43,399.95	1,464	63.538	-	-	-	43,399.95	1,464	63.538
<i>Subtotal: Recurring Cost</i>	-	-	491.231	-	-	39.379	-	-	73.269	-	-	63.538	-	-	-	-	-	63.538
<i>Subtotal: Hardware Cost</i>	-	-	491.231	-	-	39.379	-	-	73.269	-	-	63.538	-	-	-	-	-	63.538
Support Cost																		
2.1) JD800-Support - Integrated Logistics	-	-	0.803	-	-	0.267	-	-	0.272	-	-	0.277	-	-	-	-	-	0.277
2.2) JD830-Support - Production Engineering (2)	-	-	4.787	-	-	1.130	-	-	1.169	-	-	1.237	-	-	-	-	-	1.237
2.3) JD850 Support - Miscellaneous Support (3)	-	-	3.688	-	-	6.513	-	-	1.357	-	-	8.637	-	-	-	-	-	8.637
2.4) JD870-Support - JDAM QS-ER	-	-	0.625	-	-	1.237	-	-	0.621	-	-	-	-	-	-	-	-	-
<i>Subtotal: Support Cost</i>	-	-	9.903	-	-	9.147	-	-	3.419	-	-	10.151	-	-	-	-	-	10.151
Gross/Weapon System Cost	21,741.17	23,050	501.134	51,404.66	944	48.526	25,251.23	3,037	76.688	50,334.02	1,464	73.689	-	-	0.000	50,334.02	1,464	73.689

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

Footnotes:

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Exhibit P-5, Cost Analysis: PB 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)	Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit
ID Code (A=Service Ready, B=Not Service Ready) :		MDAP/MAIS Code:
<p>(1) Generally, JD500-JDAM Tail Kit Unit prices may vary outside the allowable year to year inflation based on the quantities and combinations of variants being procured each year. There are four tail kit variants that are procured and unit costs are derived from a simple average of the four variants (non-weighted). Program office procured Strategic Anti-Jam Beam Forming Receiver-Y Code (SABR-Y) kits starting in FY 2022. FY 2022 Unit price updated for Lot 26 actuals which reflects first procurement of GPS technology insertion adding SABR-Y. SABR-Y provides enhanced GPS-denied environment guidance systems, providing significantly improved capability to the Fleet. FY 2023 quantities in the P-40 are based on PB23/IGAS unit costs. The P-5 FY 2023 quantities have been updated to reflect SABR-Y escalated unit costs based on FY 2022 contracted prices. FY 2024 and FY 2025 will be a SABR-M V3 Field Programmable Gate Array variant procurement. All production units procured FY 2026 and out will be procured with M-Code upgraded GPS receiver with Application Specific Integrated Circuit (ASIC) V4. SABR-Y unit costs is the basis of M-code receiver estimates. The SABR-M will leverage from SABR-Y, integrating advanced digital anti-jamming technology for improved performance and operational reliability in highly contested GPS-denied environments. FY 2024 Baseline funding in the amount of \$1.660M is provided in support of Non-Enduring Operations demand of JDAM Tail Kits.</p> <p>(2) FY 2024 Baseline funding in the amount of \$0.087M is provided in support of Non-Enduring Operations demand of JDAM Tail Kits.</p> <p>(3) Funds activities related to the integration of Global Positioning System (GPS) M-Code per DoD mandate, which impacts overall system to include computer processor. This cost element includes parts obsolescence, associated production acceptance and test, ancillary support cost and product improvement. Miscellaneous Support will be used for integration of the ASIC and M-Code. Associated systems test and evaluation cost for block software and M-code integration, and to procure the next generation High Bandwidth Compact Telemetry kits (HCTM). FY 2024 Miscellaneous Support increases more than inflation due to integration efforts of SABR-M. Leveraging the SABR-Y follow-on requirement, FY 2024 commences planned contracted integration efforts to include Production Qualification and Acceptance testing (Government Lab testing (S/W and H/W), ground test, & flight test) of SABR-M. SABR-Y / M delivers advanced digital anti-jamming technology for improved performance and operational reliability in highly contested GPS-denied environments.</p>		

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Exhibit P-5a, Procurement History and Planning: PB 2024 Navy **Date:** March 2023

Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1	P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)	Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit
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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
1.1.1) JD500-JDAM Tail Kit ^(†)		2020	The Boeing Company / St. Charles, MO	SS / FFP	AFLCMC Hill AFB	Mar 2020	Apr 2021	2,724	22,253.36	Y		Aug 2017
1.1.1) JD500-JDAM Tail Kit ^(†)	✓	2020	The Boeing Company / St. Charles, MO	SS / FFP	AFLCMC Hill AFB	Mar 2020	Apr 2021	504	23,824.00	Y		Aug 2017
1.1.1) JD500-JDAM Tail Kit ^(†)		2021	The Boeing Company / St. Charles, MO	SS / FFP	AFLCMC Hill AFB	Sep 2021	Feb 2023	2,664	23,499.45	Y		Aug 2017
1.1.1) JD500-JDAM Tail Kit ^(†)	✓	2021	The Boeing Company / St. Charles, MO	SS / FFP	AFLCMC Hill AFB	Sep 2021	Feb 2023	607	23,499.45	Y		Aug 2017
1.1.1) JD500-JDAM Tail Kit ^(†)		2022	The Boeing Company / St. Charles, MO	SS / FFP	AFLCMC Hill AFB	Feb 2022	Mar 2023	944	41,714.68	Y		Aug 2017
1.1.1) JD500-JDAM Tail Kit ^(†)		2023	The Boeing Company / St. Charles, MO	SS / FFP	AFLCMC Hill AFB	Feb 2023	Mar 2024	1,722	42,548.97	Y		Aug 2017
1.1.1) JD500-JDAM Tail Kit ^(†)		2024	The Boeing Company / St. Charles, MO	SS / FPIF	AFLCMC Hill AFB	Feb 2024	Mar 2025	1,464	43,399.95	Y		May 2023

^(†) indicates the presence of a P-21

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Exhibit P-21, Production Schedule: PB 2024 Navy															Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)										Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit									

Cost Elements <i>(Units in Each)</i>					Fiscal Year 2022												Fiscal Year 2023												B A L A N C E		
O C C #	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) JD500-JDAM Tail Kit ⁽¹⁾																															
Prior Years Deliveries: 16551																															
	1	2020	NAVY	2,724	1,362	1,362	227	227	227	227	227	227																0			
✓	1	2020	NAVY	504	252	252	42	42	42	42	42	42																0			
	1	2021	NAVY	2,664	0	2,664	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	222	222	222	222	222	222	222	888		
✓	1	2021	NAVY	607	0	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50	50	50	50	51	51	204			
	1	2022	NAVY	944 ⁽⁴⁾	0	944							A	-	-	-	-	-	-	-	-	-	44	44	44	44	44	636			
	1	2023	NAVY	1,722	0	1,722															A	-	-	-	-	-	-	1,722			
	1	2024	NAVY	1,464	0	1,464																						1,464			
							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 2024 Navy															Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)										Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2024														Fiscal Year 2025												BALANCE	
O C C #	M F R #	FY	SERVICE	PROC QTY	ACCEPT PRIOR TO 1 OCT 2023	BAL DUE AS OF 1 OCT	Calendar Year 2024														Calendar Year 2025												
							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) JD500-JDAM Tail Kit ⁽¹⁾																																	
Prior Years Deliveries: 16551																																	
	1	2020	NAVY	2,724	2,724	0																							0				
✓	1	2020	NAVY	504	504	0																							0				
	1	2021	NAVY	2,664	1,776	888	222	222	222	222																			0				
✓	1	2021	NAVY	607	403	204	51	51	51	51																			0				
	1	2022	NAVY	944 ⁽⁴⁾	308	636	44	45	45	45	45	34	34	34	34	34	34	34	34	35	35	35	35						0				
	1	2023	NAVY	1,722	0	1,722	-	-	-	-	-	143	143	143	143	143	143	144	144	144	144	144	144						0				
	1	2024	NAVY	1,464	0	1,464					A	-	-	-	-	-	-	-	-	-	-	-	-	122	122	122	122	122	610				
							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 2024 Navy															Date: March 2023														
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1										P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)										Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit									

Cost Elements <i>(Units in Each)</i>						Fiscal Year 2026															Fiscal Year 2027															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 2 5	BAL D U E A S O F 1 O C T	Calendar Year 2026															Calendar Year 2027															
							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) JD500-JDAM Tail Kit ⁽¹⁾																																					
Prior Years Deliveries: 16551																																					
	1	2020	NAVY	2,724	2,724	0																							0								
✓	1	2020	NAVY	504	504	0																							0								
	1	2021	NAVY	2,664	2,664	0																							0								
✓	1	2021	NAVY	607	607	0																							0								
	1	2022	NAVY	944 ⁽⁴⁾	944	0																							0								
	1	2023	NAVY	1,722	1,722	0																							0								
	1	2024	NAVY	1,464	854	610	122	122	122	122	122																		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 2024 Navy		Date: March 2023
Appropriation / Budget Activity / Budget Sub Activity: 1508N / 01 / 1		P-1 Line Item Number / Title: 0148 / JT Direct Attack Munition (JDAM)
		Item Number / Title [DODIC]: 1 / JT Direct Attack Munition (JDAM) Tail Kit

MFR Ref #	Manufacturer Name - Location	Production Rates (Each / Year)			Procurement Leadtime (Months)							
		MSR For 2024	1-8-5 For 2024	MAX For 2024	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	The Boeing Company - St. Charles, MO	1,500	18,900	20,000	0	5	13	18	0	5	13	18

"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:

⁽⁴⁾ Deliveries extend beyond 12 months to account for the additional quantities delivering with Lot 27 procurement. Due to limited funding received at time of award for Lot 26, JDAM awarded all funding that was available to the program.