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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	585.570	39.366	42.881	52.211	-	52.211	19.890	12.131	10.708	10.055	0.000	772.812
1663: <i>SDB II F-18 Integration</i>	196.224	4.803	3.242	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	204.269
3072: <i>Small Diameter Bomb (SDB)</i>	389.346	34.563	39.639	52.211	-	52.211	19.890	12.131	10.708	10.055	0.000	568.543

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 439

A. Mission Description and Budget Item Justification

Small Diameter Bomb Increment II (SDB II) is an ACAT 1C joint Department of the Air Force (USAF) and Department of the Navy (DON) program, with the USAF as the lead service. The SDB II increases joint lethality in contested environments. The SDB can strike a diverse set of targets inside an adversary's air and missile defense networks to destroy mobile platforms through the weather. With increased loadout, range, and munitions effect the network enabled SDBII enhances close combat lethality in complex terrain and provides a net-centric operations capability. The BRU-61 is the Universal Armament Interface (UAI) pneumatic rack used to carry four SDB II's at one time. The threshold aircraft for the USAF is the F-15E and for the DON are the F-35B and F-35C. F/A-18 E/F is an objective platform for the DoN.

The DON has adjusted the platform integration strategy through the inclusion of F/A-18 E/F using BRU-55 to deliver the capability to the warfighter aligned to adjusted F-35 program's schedule.

BUDGET ACTIVITY JUSTIFICATION: This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.

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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy	Date: March 2023
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Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>
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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	40.852	42.881	20.516	-	20.516
Current President's Budget	39.366	42.881	52.211	-	52.211
Total Adjustments	-1.486	0.000	31.695	-	31.695
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.486	0.000			
• Program Adjustments	0.000	0.000	31.535	-	31.535
• Rate/Misc Adjustments	0.000	0.000	0.160	-	0.160

Change Summary Explanation

Project 3072: FY 2024 funding increased to cover increased integration costs due to the separation of F-35B and F-35C Developmental Test (DT) events. Synergies of combined F-35B and B-35C tests were reduced to meet the United States Marine Corps (USMC) acceleration of F-35B Operational Capability.

Project 1663: FY 2024 funding decreased due to the completion of F/A-18 development efforts.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>	Project (Number/Name) 1663 / <i>SDB II F-18 Integration</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
1663: <i>SDB II F-18 Integration</i>	196.224	4.803	3.242	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	204.269
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Due to continuing delays in the F-35 program, the DON has adjusted the platform integration strategy by inclusion of Small Diameter Bomb II (SDB II) and BRU-55 on F/A-18 E/F to deliver the capability to the warfighter in light of continued F-35 program delays. This program funds the aircraft software, integration and testing required to successfully integrate SDB II and BRU-55 on the F/A-18 E/F to meet a FY 2023 Initial Operational Capability (IOC). In order to meet the IOC, testing will be limited to the F/A-18 E/F midboard stations and the flight envelope will be limited. Following limited envelope and midboard station testing, the program will test full envelope SDB II and BRU-55 on inboard stations and the SDB II and BRU-61 type II carriage system on midboard and inboard stations.

Delays are due to test asset availability and discoveries in software. Software fixes are in and now completing Crypto Mod compatibility before resuming test. Fielded capability will have full function of SDB II and will be Crypto Mod compliant.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: F/A-18 Integration	4.803	3.242	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2023 Plans: Complete OT and integration of SDB II / BRU-55 on mid-board stations. Continue software fixes in H16 Operational Flight Program (OFP). Complete Wrap Around Test (WAT) set efforts with H18 OFP.					
FY 2024 Base Plans: N/A					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: Decrease of \$3.242M from FY 2023 to FY 2024 is due to completion of F/A-18 development efforts.					
Accomplishments/Planned Programs Subtotals	4.803	3.242	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>)	Project (Number/Name) 1663 / <i>SDB II F-18 Integration</i>

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• WPN/2238: <i>Small Diameter Bomb II</i>	33.764	100.684	65.863	-	65.863	76.101	86.738	86.487	93.233	312.192	1,134.068

Remarks

D. Acquisition Strategy

Integration of SDB II and the BRU-55 is software driven by ground and flight test requirements.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>	Project (Number/Name) 1663 / <i>SDB II F-18 Integration</i>
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Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
OFP Development and Support	SS/IDIQ	Boeing : St. Louis, MO	70.575	0.770	Nov 2021	1.235	Nov 2022	0.000		-		0.000	0.000	72.580	72.580
SDB II Prime Contractor Support	SS/IDIQ	Raytheon Missile Systems : Tuscon, AZ	26.370	0.565	Feb 2022	0.267	Feb 2023	0.000		-		0.000	0.000	27.202	27.202
SDB II Integration Support	WR	NAWC AD : Patuxent River, MD	10.321	0.822	Nov 2021	0.322	Nov 2022	0.000		-		0.000	0.000	11.465	-
SDB II Software Support	WR	NAWC WD : China Lake, CA	51.010	0.752	Nov 2021	0.261	Nov 2022	0.000		-		0.000	0.000	52.023	-
BRU-61 Prime Contractor Support	SS/IDIQ	Boeing : St. Charles, MO	0.000	0.739	Jan 2022	1.043	Nov 2022	0.000		-		0.000	0.000	1.782	1.782
BRU-77 Prime Contractor Support	Various	Various : Various	11.172	0.000		0.000		0.000		-		0.000	0.000	11.172	11.172
Subtotal			169.448	3.648		3.128		0.000		-		0.000	0.000	176.224	N/A

Remarks
 FY 2023 funds continued integration on inboard stations and software fixes in H16 Operational Flight Plan (OFP).
 Prior year BRU Prime Contractor Support is for the BRU-77 program which was terminated. The Boeing BRU-61 will be used for future four-place rack integration on F/A-18 E/F.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	MIPR	various : various	9.735	0.000		0.000		0.000		-		0.000	0.000	9.735	-
Developmental Test & Evaluation (DT&E)	WR	VX-23 : Patuxent River, MD	14.419	0.855	Nov 2021	0.000		0.000		-		0.000	0.000	15.274	-
Operational Test & Evaluation (OT&E)	WR	VX-9 : China Lake, CA	2.622	0.300	Nov 2021	0.114	Nov 2022	0.000		-		0.000	0.000	3.036	-
Subtotal			26.776	1.155		0.114		0.000		-		0.000	0.000	28.045	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy

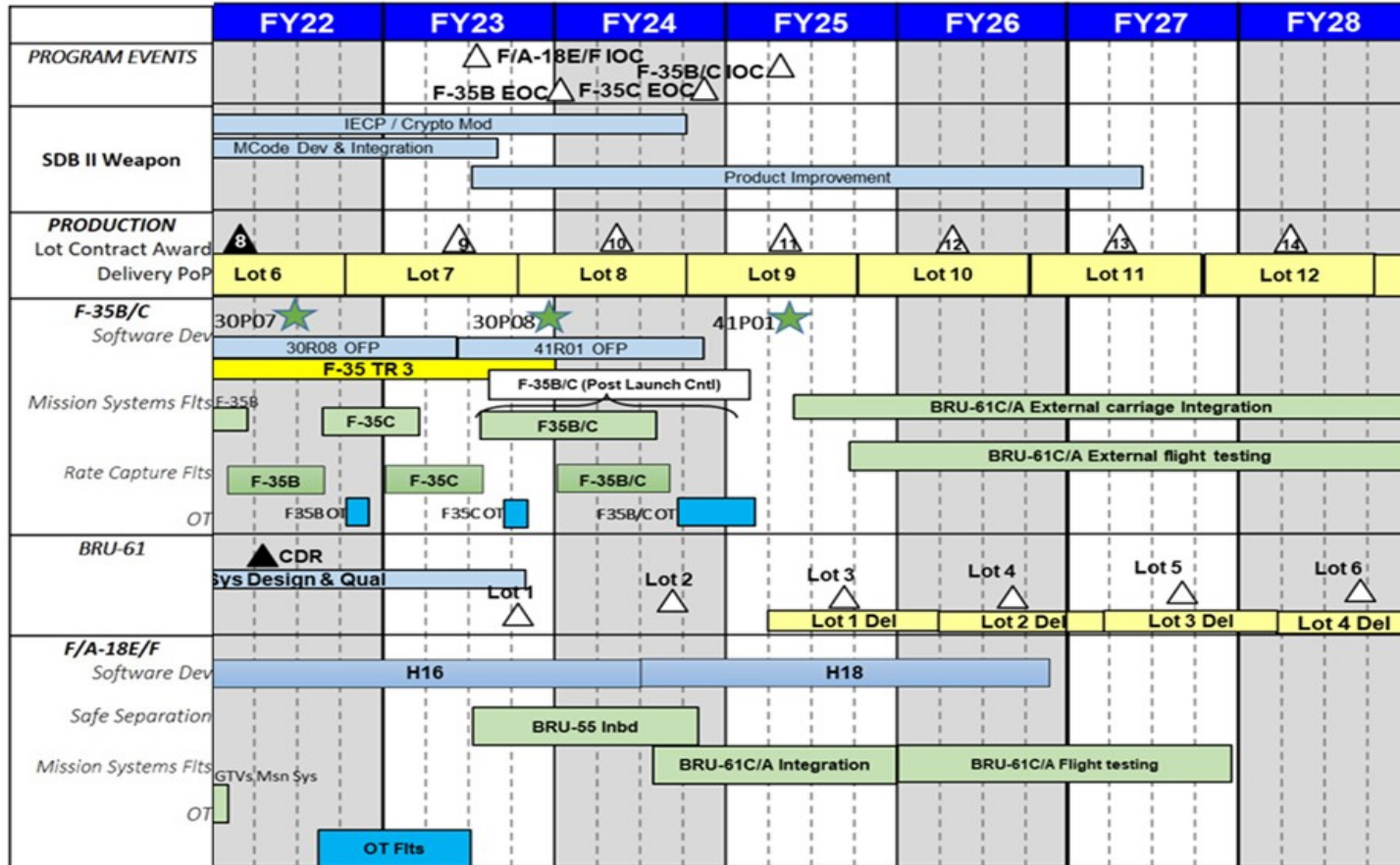
Date: March 2023

Appropriation/Budget Activity
1319 / 5

R-1 Program Element (Number/Name)
PE 0604329N / Small Diameter Bomb (SDB
)

Project (Number/Name)
1663 / SDB II F-18 Integration

SDB II Program Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>	Project (Number/Name) 1663 / <i>SDB II F-18 Integration</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>F/A-18 E/F SDB II Integration</i>				
Acquisition Milestones: IOC	3	2023	3	2023
Test & Evaluation: GTV Mission System	1	2022	1	2022
Test & Evaluation: Operational Test	3	2022	2	2023
Test & Evaluation: BRU-55 Inboard Testing	3	2023	4	2024
F-18 E/F Operational Flight Program: H-16	1	2022	2	2024
F-18 E/F Operational Flight Program: H-18	3	2024	4	2026

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>)	Project (Number/Name) 3072 / <i>Small Diameter Bomb (SDB)</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
3072: <i>Small Diameter Bomb (SDB)</i>	389.346	34.563	39.639	52.211	-	52.211	19.890	12.131	10.708	10.055	0.000	568.543
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 439

A. Mission Description and Budget Item Justification

Small Diameter Bomb Increment II (SDB II) is an ACAT 1C joint Department of the Air Force (USAF) and Department of the Navy (DON) program, with the USAF as the lead service. The SDB II increases joint lethality in contested environments. The SDB can strike a diverse set of targets inside an adversary's air and missile defense networks to destroy mobile platforms through the weather. With increased loadout, range, and munitions effect the network enabled SDBII enhances close combat lethality in complex terrain and provides a net-centric operations capability. The BRU-61 is the Universal Armament Interface (UAI) rack used to carry four SDB II's at one time. The threshold aircraft for the USAF is the F-15E and for the DON are the F-35B and F-35C.

This Project Unit includes all funding associated with integration on the DoN threshold platforms, F-35B and F-35C. This includes the integration of the SDB II weapon with BRU-61 rack on the F-35B&C, modification to the USAF BRU-61 four-place bomb rack for F-35 and DoN shipboard environments, the integration of the Universal Armament Interface (UAI) software into the F-35 Operational Flight Program (OFP), test asset procurement, flight testing, logistics and associated software updates for the SDB II weapon system. Internal carriage is being integrated and tested to support F-35 Initial Operational Capability (IOC). External carriage will begin testing after internal carriage has been fielded.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: SDB II Weapon Support	26.321	29.639	35.717	0.000	35.717
Articles:	-	-	-	-	-
Description: Funding provides for SDB II Engineering, Manufacturing and Development (EMD) efforts including weapon vendor support (Raytheon Missile Systems - RMS), test assets, and government support. Test articles were procured in prior years as part of a joint buy with the Air Force for a better priced quantity buy.					
FY 2023 Plans: FY 2023 activities include continuation of F-35C Developmental Test & Evaluation, to include multiple Rate Capture flight events and full envelope expansion of F-35B and F-35C. FY 2023 testing will include Mission Systems and Jettison testing in support of Network Enabled Weapons (NEW) F-35 Operational Flight Plan					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
(OFP) and begin SDB II Own-ship control testing. Continue Common Aircraft Armament Test Set (CAATS) software to support BRU-61. Continue development of the Navy variant BRU-61C/A four-place rack. FY 2024 Base Plans: FY 2024 activities include completion of F-35B/C Post Launch control Mission Systems flight testing as well as completion of additional Rate Capture flight testing. Begin F-35B/C Operational Test. Continue development of the Navy variant BRU-61C/A four-place rack. FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$6.078M from FY 2023 to FY 2024 reflects the increased testing in FY 2024. Mission Systems, Rate Capture, and OT flights will occur in FY 2024.					
Title: JSF Integration Description: Funding provided for integration of SDB II on F-35B and F-35C, specifically for Lockheed Martin to develop F-35 Operational Flight Program (OFP) software, flight missions, and support and analysis of missions. FY 2023 Plans: Correction of deficiencies as a result of F-35B OT. Continue F-35 OFP integration to include Network Enabled Weapons (NEW). Begin 41R01 OFP flight testing which will include SDB II Own-ship control. FY 2024 Base Plans: FY 2024 activities include completion of F-35B/C Post Launch control Mission Systems flight testing as well as completion of additional Rate Capture flight testing. FY 2024 OCO Plans: N/A FY 2023 to FY 2024 Increase/Decrease Statement: Increase of \$6.494M from FY 2023 to FY 2024 is due to the increased testing in FY 2024. Rate Capture and Mission Systems flights will occur in FY 2024.	8.242	10.000	16.494	0.000	16.494
Articles:	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	34.563	39.639	52.211	0.000	52.211

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>)	Project (Number/Name) 3072 / <i>Small Diameter Bomb (SDB)</i>

C. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2022	FY 2023	FY 2024	FY 2024	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Cost To	
			Base	OCO	Total					Complete	Total Cost
• RDTE,AF/0207327F: <i>Small Diameter Bomb</i>	31.003	32.713	37.518	-	37.518	29.855	24.805	25.371	25.768	Continuing	Continuing
• MPAF/0207327F: <i>Small Diameter Bomb</i>	275.934	279.006	289.904	-	289.904	325.200	308.500	278.900	312.500	Continuing	Continuing
• WPN/2238: <i>Small Diameter Bomb II</i>	33.764	100.684	65.863	-	65.863	76.101	86.738	86.487	93.233	312.192	1,134.068

Remarks

The Air Force RDTE funding moved from BA-5 to BA-7 and from PE 0604329F to 0207327F beginning in FY 2021. Prior year funding is included in BA-5 PE 0604329F.

D. Acquisition Strategy

The SDB II acquisition strategy was to conduct a full and open competition to select up to two contractors to compete during a planned 42-month risk reduction phase prior to entering Engineering, Manufacturing and Development (EMD). This competition began April 17, 2006 with the signature of contracts to the competing contractors: 1) Raytheon and 2) the team of Boeing and Lockheed Martin. A Fixed Price Incentive Firm Target type contract for EMD, including Firm Fixed Price procurement options for Lots 1-3 was awarded to Raytheon August 9, 2010. Lots 4 & 5 are included in the contract, but are Not-To-Exceed options. Milestone C was approved 4 June 2015, with Lot 1 (Air Force only) awarded 12 June 2015. Lots 6 & 7 were awarded as sole source Fixed Price Incentive Firm contracts. Lot 8 was an option to the Lot 7 contract. Lot 9 will be awarded as sole source Fixed Price Incentive Firm contract, with Lot 10 as an option.

The Navy funding will support Navy-unique efforts for SDB Increment II, such as aircraft integration, ship suitability, studies and analysis, and program management and government in-house support. These efforts will be performed on several cost-type contracts or through cost reimbursable work requests to government activities and contractors.

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>)	Project (Number/Name) 3072 / <i>Small Diameter Bomb (SDB)</i>
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Primary Hardware Development - SDB II EMD	C/FPIF	Raytheon : Tucson, AZ	114.029	12.826	Mar 2022	8.000	Mar 2023	9.394	Dec 2023	-		9.394	21.506	165.755	165.755
Aircraft Integration - JSF	C/CPFF	Lockheed Martin : Fort Worth, TX	38.113	3.902	Jan 2022	4.228	Jan 2023	8.837	Dec 2023	-		8.837	20.383	75.463	75.463
Hardware Development - BRU-61	C/CPFF	Boeing : St. Charles, MO	22.697	3.600	Jun 2022	11.218	Jan 2023	14.976	Oct 2023	-		14.976	20.469	72.960	72.960
Prior year Prod Dev cost no longer funded in the FYDP	Various	Various : Various	11.238	0.000		0.000		0.000		-		0.000	0.000	11.238	-
Subtotal			186.077	20.328		23.446		33.207		-		33.207	62.358	325.416	N/A

Remarks
 Primary Hardware Development to Raytheon in Tucson, AZ reflects the SDB II prime contractor and includes test assets and contractor costs to support F-35 integration.

 Funding for Lockheed Martin F-35 includes Associate Contractor Agreements (ACA), bay modifications, logistics efforts, and adapter hardware. It does not include Operational Flight Plan (OFP), Universal Armament Interface (UAI) software coding, nor test missions which are represented in Support and Test sections, respectively.

 Funding to Boeing for BRU-61B/A modifications required to carry SDB II on Navy and Marine Corps aircraft and environments (resulting in a BRU-61C/A). Prior year efforts were to provide data and support to the BRU-77 contractor.

 Increases in funding from FY 2023 to FY 2024 are in support of the increased flight test program.

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Software Development - JSF	C/CPFF	Lockheed Martin : Ft. Worth, TX	46.883	2.343	Jan 2022	2.997	Jan 2023	3.067	Dec 2023	-		3.067	6.959	62.249	62.249
Prior year Support cost no longer funded in the FYDP	Various	Various : Various	17.410	0.000		0.000		0.000		-		0.000	0.000	17.410	-
Subtotal			64.293	2.343		2.997		3.067		-		3.067	6.959	79.659	N/A

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Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			

Remarks
Software Development for F-35 is the UAI, OFP, and mission planning which supports the SDB II program. 30P07 will provide a limited release envelope on F-35B. 30P08 OFP will provide a full release envelope on both F-35B and F-35C.

Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Developmental Test & Evaluation (DT&E)	WR	NAWC AD : Patuxent River, MD	22.797	2.353	Nov 2021	4.997	Nov 2022	4.833	Nov 2023	-		4.833	9.311	44.291	-
Operational Test & Evaluation (OT&E)	WR	NAWC WD : China Lake, CA	2.365	2.192	Nov 2021	0.000		1.169	Nov 2023	-		1.169	11.072	16.798	-
Developmental Test & Evaluation (DT&E)	WR	NAWC WD : China Lake, CA	6.412	2.000	Nov 2021	2.451	Nov 2022	2.974	Nov 2023	-		2.974	4.800	18.637	-
Developmental Test & Evaluation (DT&E)	C/CPFF	Lockheed Martin : Ft. Worth, TX	10.151	1.997	Mar 2022	2.755	Mar 2023	3.896	Dec 2023	-		3.896	6.900	25.699	25.699
Prior Year Developmental Test & Evaluation Not Funded FYDP (PYDT&E)	Various	Various : Various	8.049	0.000		0.000		0.000		-		0.000	0.000	8.049	-
Subtotal			49.774	8.542		10.203		12.872		-		12.872	32.083	113.474	N/A

Remarks
Developmental Test (DT) and Operational Test (OT) include all aspects of the weapon system - SDB II, BRU-61, and F-35B and F-35C aircraft OFP with third party post-launch control to include Joint Terminal Attack Controller (JTAC) or other Link 16 capable aircraft. BRU-61B/A is the current version being used in flight testing to support the F-35B and F-35C Early Operational Capabilities (EOC).

Operational test for F-35C in FY 2023 is to support FY 2023 F-35C EOC using BRU-61B/A. Funding in outyears is to support OT of SDB II and F-35B and F-35C with BRU-61C/A for F-35 post-launch control and to execute SDB II / BRU-61 C/A external carriage integration on F-35B and F-35C. Initial Operational Capability (IOC) for SDB II Internal carriage is currently scheduled for FY 2025.

FY 2023 to FY 2024 increase in Developmental Test is greater than inflation due to number and type of DT events planned for FY 2024 to support the FY 2024 Post-Launch control flight testing and beginning of F-35B/C Operational Test to support FY 2025 IOC.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

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Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Contractor Services	Various	Various : Various	6.201	0.200	Nov 2021	0.253	Nov 2022	0.266	Nov 2023	-		0.266	1.501	8.421	-
Government Support	WR	NAWC WD : China Lake, CA	51.386	1.787	Nov 2021	1.633	Nov 2022	1.666	Nov 2023	-		1.666	4.009	60.481	-
Government Support	WR	Various : Various	29.115	1.333	Nov 2021	1.077	Nov 2022	1.103	Nov 2023	-		1.103	5.523	38.151	-
Travel	WR	NAVAIR : Patuxent River, MD	2.500	0.030	Oct 2021	0.030	Oct 2022	0.030	Oct 2023	-		0.030	0.123	2.713	-
Subtotal			89.202	3.350		2.993		3.065		-		3.065	11.156	109.766	N/A

Remarks
FY 2023 to FY 2024 increases over inflation are a result of the movement of PU 1663 funding into PU 3072.

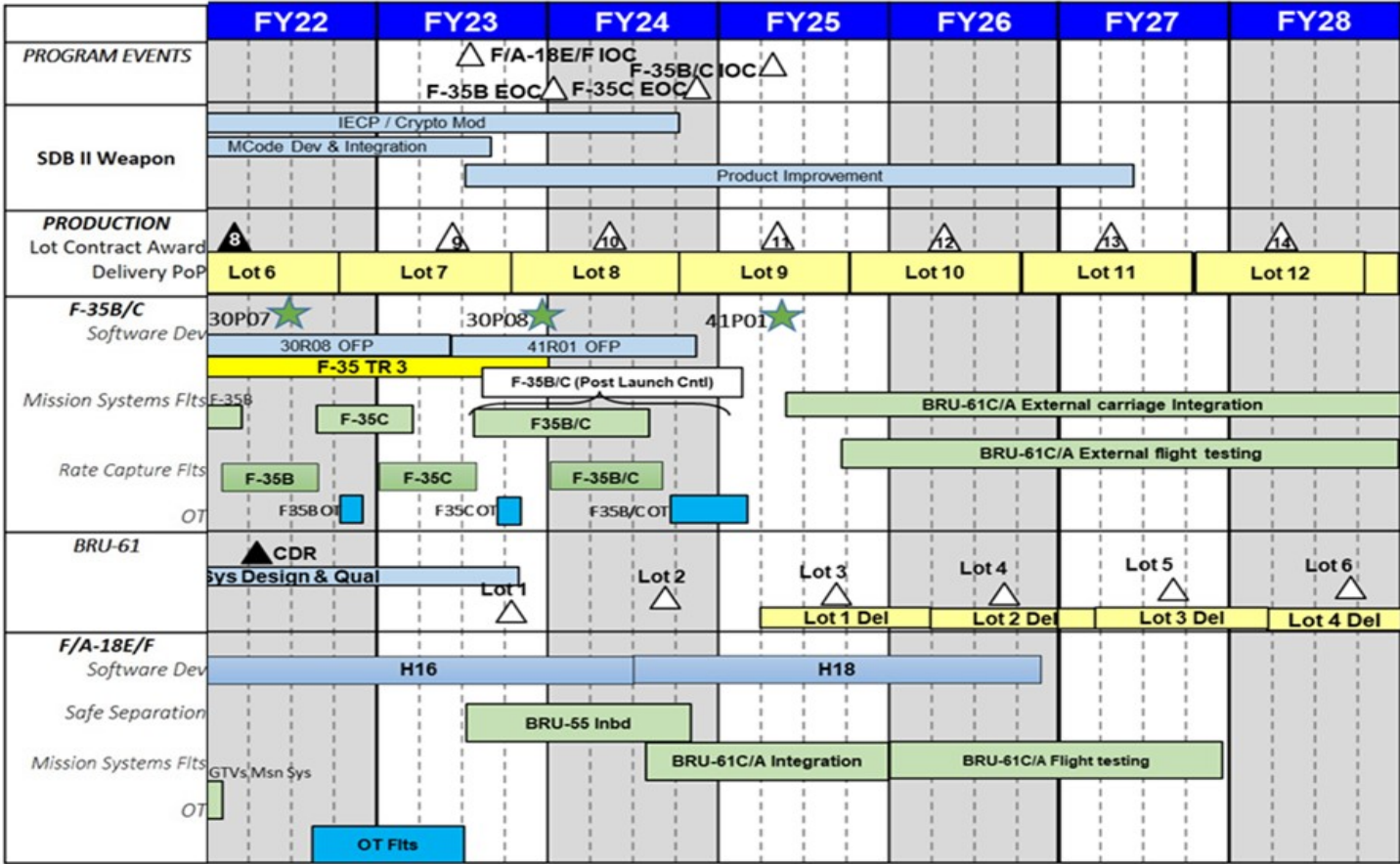
	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	389.346	34.563	39.639	52.211	-	52.211	112.556	628.315	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / Small Diameter Bomb (SDB)	Project (Number/Name) 3072 / Small Diameter Bomb (SDB)

SDB II Program Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>)	Project (Number/Name) 3072 / <i>Small Diameter Bomb (SDB)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Small Diameter Bomb II</i>				
Acquisition Milestones: Milestones: F-35B EOC	1	2024	1	2024
Acquisition Milestones: Milestones: F-35C EOC	4	2024	4	2024
Acquisition Milestones: Milestones: F-35 B/C IOC	2	2025	2	2025
Test & Evaluation: Technical Evaluation: F-35B First Mission Systems Flight	1	2022	1	2022
Test & Evaluation: Technical Evaluation: F-35B Rate Capture Flights	1	2022	3	2022
Test & Evaluation: Technical Evaluation: F-35B OT	4	2022	4	2022
Test & Evaluation: Technical Evaluation: F-35C Rate Capture Flights	1	2023	3	2023
Test & Evaluation: Technical Evaluation: F-35B/C Post Launch Control	3	2023	1	2025
Test & Evaluation: Technical Evaluation: F-35C OT	3	2023	4	2023
Test & Evaluation: Technical Evaluation: F-35B/C Mission Systems	3	2023	3	2024
Test & Evaluation: Technical Evaluation: F-35B/C Rate Capture Flights	1	2024	3	2024
Test & Evaluation: Technical Evaluation: F-35B/C OT	3	2024	1	2025
Test & Evaluation: Technical Evaluation: F-35B/C BRU-61C/A External Carriage Integration	2	2025	4	2028
Test & Evaluation: Technical Evaluation: F-35B/C BRU-61C/A External Flight Testing	3	2025	4	2028
BRU-61: System Design and Qualification: System Design and Qualification	1	2022	4	2023
BRU-61: System Design and Qualification: CDR	2	2022	2	2022
BRU-61: System Design and Qualification: BRU-61C/A F/A-18E/F Integration	3	2024	1	2026
BRU-61: System Design and Qualification: BRU-61C/A F/A-18E/F Flight Test	1	2026	4	2027
BRU-61: BRU-61 Production: Lot 1 Award	4	2023	4	2023
BRU-61: BRU-61 Production: Lot 2 Award	3	2024	3	2024

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>)	Project (Number/Name) 3072 / <i>Small Diameter Bomb (SDB)</i>
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Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
BRU-61: BRU-61 Production: Lot 3 Award	3	2025	3	2025
BRU-61: BRU-61 Production: Lot 4 Award	3	2026	3	2026
BRU-61: BRU-61 Production: Lot 5 Award	3	2027	3	2027
BRU-61: BRU-61 Production: Lot 6 Award	3	2028	3	2028
BRU-61: BRU-61 Deliveries: Lot 1 Del	2	2025	1	2026
BRU-61: BRU-61 Deliveries: Lot 2 Del	2	2026	1	2027
BRU-61: BRU-61 Deliveries: Lot 3 Del	2	2027	1	2028
BRU-61: BRU-61 Deliveries: Lot 4 Del	2	2028	4	2028
SDB II Production Milestones: SDB II Contract Awards: Lot 8 Award (AF and DoN)	1	2022	1	2022
SDB II Production Milestones: SDB II Contract Awards: Lot 9 Award (AF and DoN)	2	2023	2	2023
SDB II Production Milestones: SDB II Contract Awards: Lot 10 Award (AF and DoN)	2	2024	2	2024
SDB II Production Milestones: SDB II Contract Awards: Lot 11 Award (AF and DoN)	2	2025	2	2025
SDB II Production Milestones: SDB II Contract Awards: Lot 12 Award (AF and DoN)	2	2026	2	2026
SDB II Production Milestones: SDB II Contract Awards: Lot 13 Award (AF and DoN)	2	2027	2	2027
SDB II Production Milestones: SDB II Contract Awards: Lot 14 Award (AF and DoN)	2	2028	2	2028
SDB II Deliveries: Lot 6 Del	1	2022	4	2022
SDB II Deliveries: Lot 7 Del	4	2022	4	2023
SDB II Deliveries: Lot 8 Del	4	2023	4	2024
SDB II Deliveries: Lot 9 Del	4	2024	4	2025
SDB II Deliveries: Lot 10 Del	4	2025	4	2026
SDB II Deliveries: Lot 11 Del	4	2026	4	2027
SDB II Deliveries: Lot 12 Del	4	2027	4	2028