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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Navy **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	487.310	48.257	51.097	46.769	-	46.769	-	-	-	-	-	-
1663: <i>SDB II F-18 Integration</i>	185.189	3.885	7.213	4.960	-	4.960	-	-	-	-	-	-
3072: <i>Small Diameter Bomb (SDB)</i>	302.121	44.372	43.884	41.809	-	41.809	-	-	-	-	-	-

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 2022 Navy	Date: May 2021
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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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	50.096	62.488	64.256	-	64.256
Current President's Budget	48.257	51.097	46.769	-	46.769
Total Adjustments	-1.839	-11.391	-17.487	-	-17.487
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-11.391			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.839	0.000			
• Program Adjustments	0.000	0.000	-16.300	-	-16.300
• Rate/Misc Adjustments	0.000	0.000	-1.187	-	-1.187

Change Summary Explanation

FY 2022 funding is reduced to correct phasing based on latest financial execution status and program estimates.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
1663: <i>SDB II F-18 Integration</i>	185.189	3.885	7.213	4.960	-	4.960	-	-	-	-	-	-
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 2021 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 due to COVID and non-availability of aircraft and ranges, IOC slipped from FY 2020 to FY 2021.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: F/A-18 Integration	3.885	7.213	4.960	0.000	4.960
Articles:	-	-	-	-	-
FY 2021 Plans: Complete Development Test (DT) and Operational Test (OT) of SDB II / BRU-55 limited envelope on midboard stations.					
FY 2022 Base Plans: Begin integration of BRU-61 (the Type 2 Universal Armament Interface (UAI) pneumatic rack) which will carry four SDB II's per rack on both midboard and inboard stations. Correct any deficiencies from Operational Test (OT) of SDB II / BRU-55 limited envelope and conduct OT of SDB II / BRU-55 full envelope and on inboard stations.					
FY 2022 OCO Plans: N/A					
FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$2.253M from FY 2021 to FY 2022 reflects the completion of the SDB II / BRU-55 midboard integration.					
Accomplishments/Planned Programs Subtotals	3.885	7.213	4.960	0.000	4.960

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy		Date: May 2021
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 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• WPN/2238: <i>Small Diameter Bomb II</i>	108.452	57.755	40.877	-	40.877	-	-	-	-	-	-

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 2022 Navy **Date:** May 2021

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 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	63.983	3.116	Mar 2020	3.476	Nov 2020	0.770	Nov 2021	-		0.770	-	-	-
SDB II Prime Contractor Support	SS/IDIQ	Raytheon Missile Systems : Tuscon, AZ	26.370	0.000		0.000		0.565	Feb 2022	-		0.565	-	-	-
SDB II Integration Support	WR	NAWC AD : Patuxent River, MD	10.167	0.000		0.154	Nov 2020	0.979	Nov 2021	-		0.979	-	-	-
SDB II Software Support	WR	NAWC WD : China Lake, CA	49.128	0.000		1.945	Nov 2020	0.752	Nov 2021	-		0.752	-	-	-
BRU-61 Prime Contractor Support	SS/IDIQ	Boeing : St. Charles, MO	0.000	0.000		0.000		0.739	Jan 2022	-		0.739	-	-	-
BRU-77 Prime Contractor Support	Various	Various : Various	11.172	0.000		0.000		0.000		-		0.000	-	-	-
Subtotal			160.820	3.116		5.575		3.805		-		3.805	-	-	N/A

Remarks
 FY 2022 funds continued integration and begins testing of SDB II on BRU-61 on F/A-18 E/F.
 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 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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			
Wind Tunnel Test	MIPR	various : various	9.588	0.147	Nov 2019	0.000		0.000		-		0.000	-	-	-
Development Test	WR	VX-23 : Patuxent River, MD	12.781	0.000		1.638	Nov 2020	0.855	Nov 2021	-		0.855	-	-	-
Operational Test	WR	VX-9 : China Lake, CA	2.000	0.622	Jan 2020	0.000		0.300	Nov 2021	-		0.300	-	-	-
Subtotal			24.369	0.769		1.638		1.155		-		1.155	-	-	N/A

Remarks
 Testing in FY 2022 and beyond is for integration efforts of F/A-18 E/F and SDB II with BRU-55 on inboard stations and with BRU-61.

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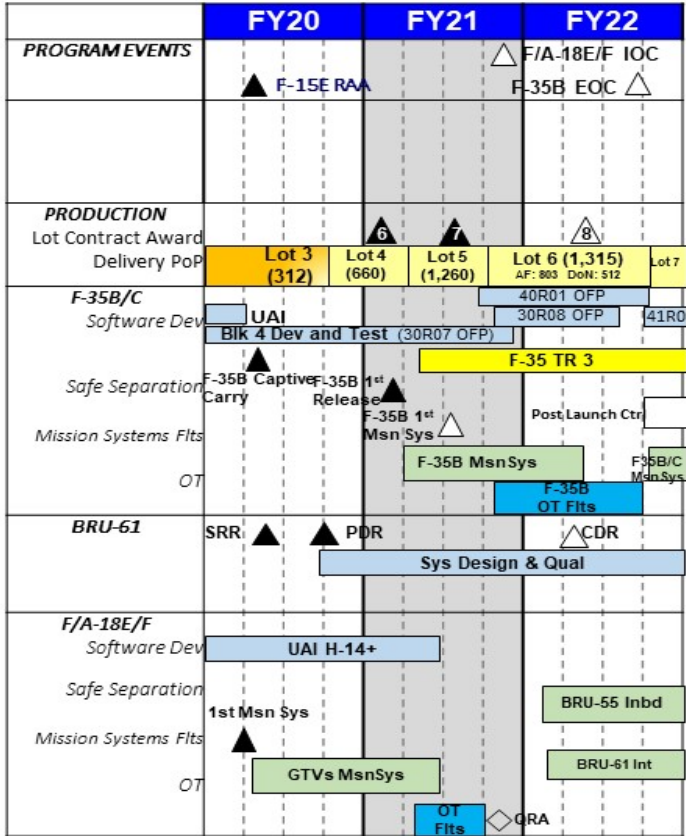
Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy							Date: May 2021				
Appropriation/Budget Activity 1319 / 5			R-1 Program Element (Number/Name) PE 0604329N / <i>Small Diameter Bomb (SDB)</i>				Project (Number/Name) 1663 / <i>SDB II F-18 Integration</i>				
	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals	185.189	3.885	7.213	4.960	-	4.960	-	-	N/A		

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Navy		Date: May 2021
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>

SDB II Program Schedule



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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Navy		Date: May 2021
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	4	2021	4	2021
Test & Evaluation: First Mission Systems Flight	2	2020	2	2020
Test & Evaluation: GTV Mission System	2	2020	2	2021
Test & Evaluation: Operational Test	2	2021	4	2021
Test & Evaluation: BRU-55 Inboard Station Testing	1	2022	4	2022
Test & Evaluation: BRU-61 Integration	1	2022	4	2022

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy **Date:** May 2021

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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
3072: <i>Small Diameter Bomb (SDB)</i>	302.121	44.372	43.884	41.809	-	41.809	-	-	-	-	-	-
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.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: SDB II Weapon Support	29.222	31.138	34.561	0.000	34.561
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 2021 Plans: Complete Flight Sciences and Flight Test support and analysis for Development Test (DT). Testing includes ejection tests, environmental & loads analysis and release envelope clearance. Begin Operational Test (OT) on F-35B.					
FY 2022 Base Plans: FY 2022 activities include completion of Developmental Test & Evaluation of the F-35B, conduct Operational Test & Evaluation (OT&E) of the F-35B, begin F-35C Developmental Test & Evaluation, conduct ship suitability					

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy		Date: May 2021
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>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
for BRU-61, conduct initial fleet training for F-35B BRU-61, develop and test Common Aircraft Armament Test Set (CAATS) software to support BRU-61, conduct maintenance demonstration to support F-35B Early Operational Capability (EOC). FY 2022 OCO Plans: N/A FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$3.423M from FY 2021 to FY 2022 is due to OT&E for F-35B.					
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 2021 Plans: Continue F-35 OFP Block 4 software and Flight Sciences which conducts aircraft environment test, Ground Vibration, and Jettison testing to prove the weapon can safely separate from the aircraft without damaging the aircraft and establishes weapon carriage and release envelopes. Continue DT flights. FY 2022 Base Plans: Completion of OT on F-35B and continue DT on F-35C. Begin Block 4 OFP testing. FY 2022 OCO Plans: N/A FY 2021 to FY 2022 Increase/Decrease Statement: Decrease of \$5.498M from FY 2021 to FY 2022 is due to the completion of DT on F-35B.	15.150	12.746	7.248	0.000	7.248
Articles:	-	-	-	-	-
Accomplishments/Planned Programs Subtotals	44.372	43.884	41.809	0.000	41.809

C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
• RDTE,AF/0207327F: <i>Small Diameter Bomb</i>	31.241	20.780	27.109	-	27.109	-	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy		Date: May 2021
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 2020	FY 2021	FY 2022	FY 2022	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Cost To	
			Base	OCO	Total					Complete	Total Cost
• MPAF/0207327F: <i>Small Diameter Bomb</i>	183.279	209.972	294.649	-	294.649	-	-	-	-	-	-
• WPN/2238: <i>Small Diameter Bomb II</i>	108.452	57.755	40.877	-	40.877	-	-	-	-	-	-
• APN/0720: <i>War Consumables</i>	0.000	0.000	0.000	-	0.000	-	-	-	-	-	-

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.

APN funding is the BRU-61 item number within the 072000 BLI.

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 is an option to the Lot 7 contract.

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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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy **Date:** May 2021

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)
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Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	102.915	6.906	Mar 2020	4.208	Mar 2021	8.000	Mar 2022	-		8.000	-	-	-
Aircraft Integration - JSF	C/CPFF	Lockheed Martin : Fort Worth, TX	26.036	6.772	Feb 2020	6.335	Feb 2021	3.902	Jan 2022	-		3.902	-	-	-
Hardware Development - BRU-61	C/CPFF	Boeing : St. Charles, MO	4.358	6.506	Oct 2019	11.833	May 2021	11.861	Jan 2022	-		11.861	-	-	-
Prior year Prod Dev cost no longer funded in the FYDP	Various	Various : Various	11.238	0.000		0.000		0.000		-		0.000	-	-	-
Subtotal			144.547	20.184		22.376		23.763		-		23.763	-	-	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 (OFF), 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.

Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	37.949	4.861	Dec 2019	4.073	Jan 2021	2.343	Jan 2022	-		2.343	-	-	-
Prior year Support cost no longer funded in the FYDP	Various	Various : Various	17.410	0.000		0.000		0.000		-		0.000	-	-	-
Subtotal			55.359	4.861		4.073		2.343		-		2.343	-	-	N/A

Remarks
 Software Development for F-35 is the UAI, OFF, and mission planning which supports the SDB II program. Block 4 OFF coding began in FY 2019 and will continue through Development Test (DT).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy **Date:** May 2021

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)
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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	WR	NAWC AD : Patuxent River, MD	13.654	5.093	Dec 2019	4.050	Nov 2020	2.353	Nov 2021	-		2.353	-	-	-
Operational Test & Evaluation - SDBII	WR	NAWC WD : China Lake, CA	1.010	0.000		1.355	Jul 2021	6.997	Nov 2021	-		6.997	-	-	-
Developmental Test & Evaluation	WR	NAWC WD : China Lake, CA	0.000	2.000	Jan 2020	4.412	Nov 2020	2.000	Nov 2021	-		2.000	-	-	-
Developmental Test & Evaluation - SDB II	C/CPFF	Lockheed Martin : Ft. Worth, TX	4.296	3.517	Mar 2020	2.338	Mar 2021	1.003	Mar 2022	-		1.003	-	-	-
Prior Year T&E cost no longer funded in the FYDP	Various	Various : Various	8.049	0.000		0.000		0.000		-		0.000	-	-	-
Subtotal			27.009	10.610		12.155		12.353		-		12.353	-	-	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 OFF with third party post-launch control to include Joint Terminal Attack Controller (JTAC) or other Link 16 capable aircraft.

 Incremental funding of contract awards will support test programs which began in the fourth quarter FY 2019.

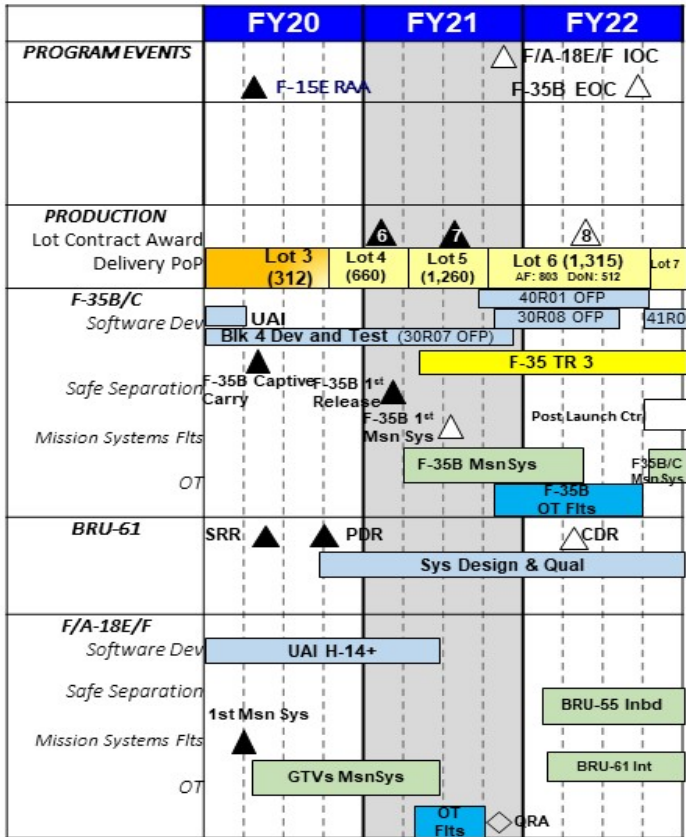
 Operational test is scheduled to begin in FY 2021 to support FY 2022 F-35B Early Operational Capability (EOC) using BRU-61B/A. Funding in outyears is to support DT and OT of SDB II and F-35B and F-35C with BRU-61C/A for F-35 post-launch control.

Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	5.494	0.457	Dec 2019	0.250	Nov 2020	0.200	Nov 2021	-		0.200	-	-	-
Government Support	WR	NAWC WD : China Lake, CA	42.193	6.500	Dec 2019	2.693	Nov 2020	1.787	Nov 2021	-		1.787	-	-	-
Government Support	WR	Various : Various	25.159	1.680	Dec 2019	2.277	Nov 2020	1.333	Nov 2021	-		1.333	-	-	-
Travel	WR	NAVAIR : Patuxent River, MD	2.360	0.080	Oct 2019	0.060	Oct 2020	0.030	Oct 2021	-		0.030	-	-	-
Subtotal			75.206	8.717		5.280		3.350		-		3.350	-	-	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Navy		Date: May 2021
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 2022 Navy		Date: May 2021
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	3	2022	3	2022
Test & Evaluation: Technical Evaluation: F-35B Captive Carriage Flight	2	2020	2	2020
Test & Evaluation: Technical Evaluation: F-35B First Release	1	2021	1	2021
Test & Evaluation: Technical Evaluation: F-35B First Mission Systems Flight	3	2021	3	2021
Test & Evaluation: Technical Evaluation: F-35B Mission Systems	2	2021	2	2022
Test & Evaluation: Technical Evaluation: F-35B OT	4	2021	3	2022
Test & Evaluation: Technical Evaluation: F-35B/C Post Launch Control	4	2022	4	2022
Test & Evaluation: Technical Evaluation: F-35B/C Mission Systems	4	2022	4	2022
BRU-61: System Design and Qualification: System Design and Qualification	3	2020	4	2022
BRU-61: System Design and Qualification: SRR	2	2020	2	2020
BRU-61: System Design and Qualification: PDR	4	2020	4	2020
BRU-61: System Design and Qualification: CDR	2	2022	2	2022
SDB II Production Milestones: SDB II Contract Awards: Lot 6 Award (AF and DoN)	1	2021	1	2021
SDB II Production Milestones: SDB II Contract Awards: Lot 7 Award (AF and DoN)	3	2021	3	2021
SDB II Production Milestones: SDB II Contract Awards: Lot 8 Award (AF and DoN)	2	2022	2	2022
SDB II Deliveries: Lot 4 Del (AF 570/DoN 90)	4	2020	2	2021
SDB II Deliveries: Lot 5 Del (AF 510/DoN 750)	2	2021	4	2021
SDB II Deliveries: Lot 6 Del (AF 800/DoN 482)	4	2021	4	2022
SDB II Deliveries: Lot 7 Del (AF 1133/DoN 248)	4	2022	4	2022