

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>
--	--

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	-	0.000	20.780	27.109	0.000	27.109	-	-	-	-	-	-
675191: <i>SDB Increment II</i>	-	0.000	20.780	27.109	0.000	27.109	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

**Note**

In FY 2021, PE 0604329F, BA05, Project Small Diameter Bomb (SDB)-EMD efforts were transferred to PE 0207327F, BA07, Project Small Diameter Bomb (SDB), due to SDB II completion of BA05: System Development & Demonstrations (SDD) moved to Operational Systems Development BA07.

**A. Mission Description and Budget Item Justification**

GBU-53/B Small Diameter Bomb Increment II (SDB II) StormBreaker is a joint interest United States Air Force (USAF) and Department of Navy (DoN) Acquisition Category (ACAT) IC program, with the USAF as the lead service. SDB II addresses the following warfighter requirements: attack moving and stationary targets; adverse weather operations; multiple ordnance carriage; precision munitions capability; reduced munitions footprint; increased weapons effectiveness; minimized potential for collateral damage; reduced susceptibility of munitions to countermeasures; and provides a network-enabled weapon capability via Link-16 and Ultra High Frequency (UHF) weapon data link. SDB II is a key component of the Air Force Global Strike Task Force Concept of Operations (CONOPs). The threshold aircraft for the USAF is the F-15E, and the threshold aircraft for the DoN are the F-35B and F-35C. Objective aircraft include the F-22, F-16, F-35A, B-2, A-10, MQ-9, B-1, B-52, AC-130 and the F/A-18E/F. SDB II is compatible with the Bomb Rack Unit-61 (BRU-61) miniature munitions carriage, Type II carriage systems, the Container Numerical Unit-660/E (CNU-660/E) carriage system, the Common Munitions Built In Test (BIT)/Reprogramming Equipment (CMBRE), and the Joint Mission Planning System (JMPS). SDB II will develop and field a single weapon storage container (USAF) and a dual weapon storage container (DoN).

SDB II completed a competitive Risk Reduction in October 2009 and entered Milestone B Engineering and Manufacturing Development (EMD) in August 2010. A Fixed Price Incentive Firm EMD contract with five options for annual Low Rate Initial Production (LRIP) lots (FY15-FY19) was awarded in August 2010. SDB II received Milestone C approval to enter LRIP in June 2015 and completed an Acquisition Program Baseline update. Contract options for LRIP Lots 1-5 have been exercised. Initial Operational Test and Evaluation (IOT&E) started June 2018 and completed December 2019. SDB II was fielded for the F-15E in September 2020. Initial Operational Capability (IOC) for the DoN's F-35B and F-35C is scheduled for FY 2023 and is based on the F-35 B/C hardware and software modification schedule. DoN's first production lot (Lot 4/FY19) supports F/A-18E/F IOC.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver weapon system capability. The use of such programs funds would be in addition to the civilian pay expenses budgeted in program element 0605831F. In FY20 \$0M was expended for civilian pay expenses in this program element, and in FY21 \$0.203M is forecasted for civilian pay expenses in this program element.

This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>
--	--

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022 Base</b>	<b>FY 2022 OCO</b>	<b>FY 2022 Total</b>
Previous President's Budget	0.000	0.000	0.000	0.000	0.000
Current President's Budget	0.000	20.780	27.109	0.000	27.109
Total Adjustments	0.000	20.780	27.109	0.000	27.109
• Congressional General Reductions	0.000	0.000			
• Congressional Directed Reductions	0.000	0.000			
• Congressional Rescissions	0.000	0.000			
• Congressional Adds	0.000	3.500			
• Congressional Directed Transfers	0.000	0.000			
• Reprogrammings	0.000	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	17.280	27.109	0.000	27.109

**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 675191: *SDB Increment II*

Congressional Add: *Precise Navigation*

Congressional Add: *SDB II Tech Refresh*

Congressional Add Subtotals for Project: 675191

Congressional Add Totals for all Projects

	FY 2020	FY 2021
	0.000	3.500
	0.000	0.000
	0.000	3.500
	0.000	3.500

**Change Summary Explanation**

FY21 and FY22 funding increased as a result of PE 0604329F, BA05, Project Small Diameter Bomb (SDB)-EMD efforts being transferred to PE 0207327F, BA07, Project Small Diameter Bomb (SDB), due to SDB II completion of BA05: System Development & Demonstrations (SDD) moved to Operational Systems Development BA07.

**C. Accomplishments/Planned Programs (\$ in Millions)**

	FY 2020	FY 2021	FY 2022
<b>Title:</b> SDB II Development and Engineering Changes	0.000	5.967	19.341
<b>Description:</b> Development activities to deliver capabilities in the SDB II Capability Development Document (CDD). Design, develop, integrate, model, test, and qualify engineering changes to SDB II baseline hardware and software to meet emerging threat, new technologies and to maintain compatibility with external systems. Activities include, but are not limited to, DoD-mandated data link cryptographic modernization, program protection, exportability features, cyber security, advanced guidance, navigation and control, enhanced lethality, precise/advance navigation, and address obsolescence issues and affordability			

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>		<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>		
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p>opportunities. Conduct trade studies and concept development for technology refresh redesigns as based on obsolescence forecasts.</p> <p><b>FY 2021 Plans:</b>                      Complete development and qualification of the cryptographic modernized TacNet 1.5 weapon data link (TacNet 1.5 WDL). Continue design integration of the TacNet 1.5 WDL into the current SDB II All-Up-Round (AUR) design. Conduct section level design verification testing of TacNet 1.5 WDL. Conduct component level production readiness activities. Continue collaboration with NSA on cryptographic modernized WDL key development, testing, fielding, and management. Continue enhancements for Joint Mission Planning (JMPS) and Operational Flight Program (OFP) software. Procure special test equipment required for AUR level testing. Modify equipment required to support TacNet 1.5 WDL operations.</p> <p>Continue redesign and design verification tests of circuit card assemblies (CCAs) affected by obsolescence and M-Code at Proof of Design (POD) level. Conduct POD quality design verification testing of integrated electronics stacks. Perform OFP and firmware updates to support new CCA designs. Continue integration and section level design verification testing of the TacNet 1.5 WDL and associated cryptographic keys with new CCAs and associated OFP changes.</p> <p>Continue development, qualification, and testing of engineering changes associated with program protection, exportability, cyber security, enhanced lethality, survivability, threat defeat, software-based capability enhancements, obsolescence, and affordability. Procure developmental test assets. Continue integration of SDB II with Command and Control Infrastructure, including AOC integration and Joint Terminal Attack Controller (JTAC) kits. Continue technical order updates to support ongoing OFP development efforts. Continue BRU-61 OFP updates and integration. Conduct trade studies and concept development for technology refresh redesigns as required based on obsolescence forecasts.</p> <p><b>FY 2022 Plans:</b>                      Complete cryptographic modernization weapon data link integration and subsystem level design verification testing. Complete integration of the TacNet WDL 1.5 into the current SDB II All-Up-Round (AUR) design. Conduct production readiness activities at the component level. Continue collaboration with NSA on cryptographic modernized WDL key testing, fielding, and management. Continue enhancements for JMPS and OFP software. Conduct all-up-round (AUR) testing.</p> <p>Continue redesign and design verification tests of electronic circuit card assemblies (CCAs) affected by obsolescence and M-Code moving toward Proof of Manufacturing quality CCAs. Perform OFP and firmware updates to support new CCA designs. Complete POD-level integrated CCA stack design verification testing and qualification. Finalize Proof of Manufacturing (POM) designs and purchase POM test assets. Continue integration of the TacNet 1.5 WDL with the new CCAs and associated OFP changes.</p>				

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>		<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>		
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
<p>Continue development, qualification, and testing of engineering changes associated with program protection, exportability, cyber security, enhanced lethality, survivability, threat defeat, software-based capability enhancements, obsolescence, and affordability. Begin System Improvement Program (SIP) to continually advance capability of the weapon and transition program to a steady OFP update cycle. Procure developmental test assets to support developmental test and conduct developmental Captive Flight Tests and platform integration testing. Continue integration of SDB II with Command and Control Infrastructure, including AOC integration and JTAC kits. Continue technical order updates to support ongoing OFP development efforts. Continue BRU-61 OFP updates and integration. Conduct trade studies and concept development for technology refresh redesigns as required based on obsolescence forecasts</p> <p><b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding increased due to separate integration activities for TacNet 1.5 WDL with the current AUR CCAs in advance of M-Code and new CCAs being ready for AUR testing. Program will also begin System Improvement Program activities in response to anticipated warfighter requirements post fielding.</p>				
<p><b>Title:</b> SDB II M-Code</p> <p><b>Description:</b> M-Code provides an enhanced anti-jam capability and secures access to military GPS signals. Activities include, but are not limited to, design, development, test and qualification of engineering changes to the SDB II system required for M-Code, and enhanced anti-jam capability. M-Code will provide the ability to operate in increasing adversarial anti-access/area-denial (A2/AD) jamming environments with increased accuracy, better signal acquisition, and enhanced security features.</p> <p><b>FY 2021 Plans:</b> Continue activities to provide SDB II with M-Code capabilities for improved anti-jam and secure access to military GPS signals. Continue development, test, and qualification activities for M-Code receiver and associated component integration. Build component and section-level developmental test assets and conduct ground and aircraft integration testing. Update mission planning and threshold aircraft OFP software to ensure aircraft-to-weapon integration and transmission of the appropriate M-Code initialization data and crypto keys. Implement engineering change proposals required by GPS Directorate to comply with signal-in-space interface control documents, key management distribution and security requirements.</p> <p><b>FY 2022 Plans:</b> Continue activities to provide SDB II with M-Code capabilities for improved anti-jam and secure access to military GPS signals. Complete development, test, and qualification activities for M-Code receiver and continue associated component integration. Conduct M-Code receiver-level qualification, including security certification. Conduct production readiness activities at the receiver level. Build section level developmental test assets and conduct design verification testing. Update mission planning and threshold aircraft OFP software to ensure aircraft-to-weapon integration and transmission of the appropriate M-Code initialization</p>		0.000	11.313	7.768

**UNCLASSIFIED**

<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2022 Air Force		<b>Date:</b> May 2021		
<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>		<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>		
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2020</b>	<b>FY 2021</b>	<b>FY 2022</b>
data and crypto keys. Implement engineering change proposals required by GPS Directorate to comply with signal-in-space interface control documents, key management distribution and security requirements.				
<b>FY 2021 to FY 2022 Increase/Decrease Statement:</b> Funding decrease due to maturity of receiver integration into the AUR and component level activities transitioning from development and integration to qualification and test. AUR level test assets, qualification and test activities for the new production baseline will be funded by Procurement appropriations in FY22.				
<b>Accomplishments/Planned Programs Subtotals</b>		0.000	17.280	27.109
		<b>FY 2020</b>	<b>FY 2021</b>	
<b>Congressional Add:</b> Precise Navigation		0.000	3.500	
<b>FY 2020 Accomplishments:</b> Continue design, integration, test, and down-select candidate seeker-based algorithms suitable for operation in a GPS denied environment. Currently the program is integrating algorithms into the Integrated Flight Simulator (IFS) to initially characterize performance over various ranges and terrains. Efforts anticipate Captive Flight Test (CFT) data collection, and subsequent evaluation of algorithm candidates' performances in order to down-select.				
<b>FY 2021 Plans:</b> Continue design, integration, and test candidate seeker-based algorithms suitable for operation in a GPS denied environment. Integrate algorithms into the Integrated Flight Simulator (IFS) to characterize performance over various terrains. Integrate software into Captive Flight Test (CFT) pod and conduct Captive Flight Test (CFT) events for data collection. Evaluate candidate algorithm performance to determine if any are suitable for a tactical implementation.				
<b>Congressional Add:</b> SDB II Tech Refresh		0.000	0.000	
<b>FY 2020 Accomplishments:</b> Reference BA05 PE0604329F for SDB II FY20 Tech Refresh Effort Funding				
The SDB II Tech Refresh thrust supports the Seeker Cost Reduction Initiative and is a multi-year initiative to increase system affordability, protect our ability to produce and operate, and increase weapon value for the warfighter. This includes, but may not be limited to, reducing the cost of the seeker and other components, subsystems, and assemblies within the weapon and associated system-of-systems; mitigating or responding to Diminishing Manufacturing Sources and Material Shortages (DMSMS); solidifying and/or increasing competition within the supplier industrial base; maximizing operational weapon effectiveness and value through capability enhancements and countering emerging threats; and improving supportability, handling, mission planning and human machine interface.				

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>
--	--

	<b>FY 2020</b>	<b>FY 2021</b>
<p>Conduct Analysis of Alternatives to evaluate redesign of the seeker and/or other components and subsystems within the weapon; evaluate supplier and assembly cost reduction; develop a technology roadmap for system affordability, predictability and operational improvements; analyze system requirements and conduct a Systems Requirements Review; mature key technologies and reduce risk for preferred alternatives; and develop and test software enhancements to provide near and/or longer term performance enhancements to maximize warfighter value for fielded or future weapons. Work may also extend beyond the weapon into the SDB II system-of-systems to improve operational effectiveness, operator reliability, aircraft integration, mission planning and human machine interface.</p> <p><b>FY 2021 Plans:</b> N/A</p>		
<b>Congressional Adds Subtotals</b>	0.000	3.500

**D. 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>
• MPAF 02 Line Item SDB002: <i>Small Diameter Bomb II</i>	183.279	209.972	294.649	-	294.649	-	-	-	-	-	-
• RDTE 05 0604329F: <i>Small Diameter Bomb (SDB) - EMD</i>	44.530	-	-	-	-	-	-	-	-	-	-
• RDTE 05 PE 0604329N: <i>Small Diameter Bomb II</i>	44.372	43.884	41.940	-	41.940	-	-	-	-	-	-
• WPN Line Item 223800: <i>Small Diameter Bomb II</i>	108.452	57.755	40.877	-	40.877	-	-	-	-	-	-

**Remarks**

DoN RDT&E funds include F-35B and F-35C Integration and Support Cost.

**E. Acquisition Strategy**

The SDB II Engineering and Manufacturing Development (EMD) contract was awarded using competitive procedures. At the completion of the 42-month Risk Reduction phase in October 2009, one contractor was selected in April 2010 and awarded the EMD contract in August 2010. The EMD contract is a Fixed-Price Incentive Firm (FPIF) contract with priced production options for the first five production lots. SDB II production Lots 1-3 are FPIF. Production Lots 4-5 are firm fixed price. The Government is buying the SDB II based on the contractor System Performance Specification (SPS) which has been approved by the Government. The contractor is accountable for system performance as defined in the SPS and a system warranty as defined in the EMD contract and follow-on production contracts. Accordingly,

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>
--	--

the contractor is accountable to the Government for the design of the weapon system, as well as the planning and execution of the Development Test and Evaluation (DT&E) program to verify system performance. The Government formally arranges and funds the use of Government flight test support for DT&E and OT&E.

In September 2017, the Government awarded a sole source indefinite delivery indefinite quantity (IDIQ) contract to Raytheon Missile Systems to design, develop, integrate, model, test, and qualify engineering changes to SDB II baseline hardware and software to meet emerging threats and to maintain compatibility with external systems. Activities include, but are not limited to M-Code GPS, data link cryptographic modernization, program protection, exportability features, cyber security, advanced guidance, navigation and control, enhanced lethality, and address obsolescence issues and affordability opportunities.

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207327F / Small Diameter Bomb (SDB)	<b>Project (Number/Name)</b> 675191 / SDB Increment II
--	---	---

<b>Product Development (\$ in Millions)</b>				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			
Engineering Changes & Technical Support	SS/ Various	Raytheon : Tucson, AZ	-	-		7.365	Dec 2020	12.764	Dec 2021	-		12.764	-	-	136.520
M-Code Integration	SS/ Various	Raytheon : Tucson, AZ	-	-		11.313	Mar 2021	7.768	Mar 2022	-		7.768	-	-	109.437
F-15E Integration & Test Support	SS/ Various	Boeing : St. Louis, MO	-	-		1.027	Jun 2021	5.492	Jun 2022	-		5.492	-	-	49.762
<b>Subtotal</b>			-	-		19.705		26.024		-		26.024	-	-	N/A

**Remarks**  
 Engineering Changes and Technical Support: upgrades to SDB II baseline hardware/software to meet emerging threats and to maintain compatibility with external systems. Activities include, but are not limited to, data link cryptographic modernization, program protection, exportability, cyber security, advanced guidance, navigation and control, enhanced lethality, and address obsolescence issues and affordability opportunities.  
 The increase in F-15E Integration and Test Support in FY22 is due to the biennial weapon OFP update.

<b>Management Services (\$ in Millions)</b>				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			
Engineering Professional Administrative Support Services (EPASS)	Various	Various : Eglin AFB, FL	-	-		0.750	Jun 2021	0.750	Jun 2022	-		0.750	-	-	25.508
Program Management Administration (PMA)	Various	Various : Eglin AFB, FL	-	-		0.325	Oct 2020	0.335	Oct 2021	-		0.335	-	-	11.536
<b>Subtotal</b>			-	-		1.075		1.085		-		1.085	-	-	N/A

**Remarks**  
 PMA: Other government costs (travel, Government Purchase Card (GPC), equipment supplies, and IT support)

	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>		-	-	20.780	27.109	-	-	27.109	N/A

**UNCLASSIFIED**

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

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>	<b>Project (Number/Name)</b> 675191 / <i>SDB Increment II</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
--	-------------	---------	---------	--------------	-------------	---------------	------------------	------------	--------------------------

**Remarks**

Engineering Changes: upgrades to SDB II baseline hardware/software to meet emerging threats, maintain compatibility with external systems and improve system performance. Activities include, but are not limited to, data link cryptographic modernization, program protection, exportability, cyber security, advanced guidance, navigation and control, enhanced lethality, and address obsolescence issues and affordability opportunities.

FINANCIAL PERFORMANCE: SDB II is evaluated against traditional Research and Development (R&D) program expenditure benchmarks. However, the SDB II LRIP contract is a FPIF contract with progress payments. A percent of incurred costs are withheld until the end of the contract, when they are liquidated. Mandatory funding obligations and progress payment withholds will cause the program to lag traditional expenditure benchmarks, painting an inaccurate portrait of overall program health.

**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile: PB 2022 Air Force** **Date: May 2021**

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>	<b>Project (Number/Name)</b> 675191 / <i>SDB Increment II</i>
--	--	--

FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b><i>SDB Increment II</i></b>																												
F-15E Integration & Test Support																												
M-Code Integration & Testing																												
Data Link Crypto Mod Integration & Testing																												
Integration & Testing on Threshold F-35B/C																												
Precision Navigation																												
SDB II Tech Refresh																												

**UNCLASSIFIED**

**Exhibit R-4A, RDT&E Schedule Details:** PB 2022 Air Force **Date:** May 2021

<b>Appropriation/Budget Activity</b> 3600 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0207327F / <i>Small Diameter Bomb (SDB)</i>	<b>Project (Number/Name)</b> 675191 / <i>SDB Increment II</i>
--	--	--

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>SDB Increment II</i></b>				
F-15E Integration & Test Support	2	2020	4	2022
M-Code Integration & Testing	1	2020	2	2025
Data Link Crypto Mod Integration & Testing	1	2020	4	2023
Integration & Testing on Threshold F-35B/C	1	2020	4	2023
Precision Navigation	1	2020	3	2022
SDB II Tech Refresh	4	2020	3	2021