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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force										Date: February 2019		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)					R-1 Program Element (Number/Name) PE 0604329F I Small Diameter Bomb (SDB) - EMD							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	1,098.026	37.667	78.091	31.241	0.000	31.241	17.311	27.427	27.927	28.430	0.000	1,346.120
655191: SDB Increment II	1,098.026	37.667	78.091	31.241	0.000	31.241	17.311	27.427	27.927	28.430	0.000	1,346.120
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 439												
A. Mission Description and Budget Item Justification												
<p>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) ACAT IC program, with the USAF as the lead service. SDB II addresses the following war-fighter requirements: attack moving and stationary targets, adverse weather operations, multiple kills per pass, 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 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 CNU-660/E carriage system, the Common Munitions 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).</p>												
<p>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. Developmental Testing and Evaluation (DT&amp;E), including Guided Test Vehicles (GTV), Live Fire (LF) test missions, and a 28-shot Government Confidence Test (GCT) program was completed. Initial Operational Test and Evaluation (IOT&amp;E) started June 2018 and will complete in May 2019. Initial Operational Capability (IOC) for the F-15E is scheduled for FY2019. IOC on the DoN's F-35B and F-35C is scheduled for FY2021 and FY2022, respectively; and is based on the F-35 B/C hardware and software modification schedule and completion of IOT&amp;E. DoN's first production lot (Lot 4/FY19) supports F/A-18E/F IOC.</p>												
<p>This program element may include necessary civilian pay expenses required to manage, execute, and deliver SDB II weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605898F, and 0605833F.</p>												
<p>As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.</p>												

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This program is in Budget Activity 5, System Development and Demonstration (SDD) because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full rate production.						
B. Program Change Summary (\$ in Millions)		FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget		38.979	73.158	31.241	0.000	31.241
Current President's Budget		37.667	78.091	31.241	0.000	31.241
Total Adjustments		-1.312	4.933	0.000	0.000	0.000
• Congressional General Reductions		-0.042	-0.067			
• Congressional Directed Reductions		0.000	0.000			
• Congressional Rescissions		0.000	0.000			
• Congressional Adds		0.000	5.000			
• Congressional Directed Transfers		0.000	0.000			
• Reprogrammings		0.000	0.000			
• SBIR/STTR Transfer		-1.270	0.000			
• Other Adjustments		0.000	0.000	0.000	0.000	0.000
Congressional Add Details (\$ in Millions, and Includes General Reductions)						
Project: 655191: SDB Increment II						
Congressional Add: Precise Navigation						
Congressional Add Subtotals for Project: 655191						
Congressional Add Totals for all Projects						
Change Summary Explanation						
FY18 reduced -\$1.270M for Small Business Innovative Research						
FY19 Congressional Add for \$5M for Precise Navigation						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2018	FY 2019	FY 2020
Title: SDB II Development and Engineering Changes				15.346	29.065	20.148
Description: 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 threats 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 opportunities.						

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2020 Air Force		<b>Date:</b> February 2019		
<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i>		<b>R-1 Program Element (Number/Name)</b> PE 0604329F / <i>Small Diameter Bomb (SDB) - EMD</i>		
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
<b>FY 2019 Plans:</b> Complete IOT&E on the F-15E platform. Continue weapon data link cryptographic modernization design reviews, integration, and qualification activities. Build data link cryptographic modernization test assets. Continue collaboration with National Security Agency (NSA) on data link key management. Continue updates for mission planning and operational flight program (OFP) software. Continue development and qualification of engineering changes associated with program protection, exportability, cyber security, enhanced lethality, obsolescence, and affordability.				
<b>FY 2020 Plans:</b> Complete cryptographic modernization design reviews and continue weapon data link integration and qualification. Conduct activities for production readiness. Continue collaboration with NSA on data link key management. Continue updates for mission planning and OFP software. Continue development, qualification, and begin testing of engineering changes associated with program protection, exportability, cyber security, enhanced lethality, obsolescence, and affordability. Continue integration of SDB II with Command and Control Infrastructure, including Air Operations Center (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. Increase program office footprint and seating via relocatable, temporary equipment to support workforce and management of programs and security infrastructure upgrades to ensure program schedules are maintained.				
<b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Funding decreased due to building of weapon data link cryptographic modernization test assets.				
<b>Title:</b> SDB II Integration and Qualification Testing on F-15E		5.521	2.783	0.000
<b>Description:</b> F-15E Aircraft Integration incorporates tests and targets, Modeling and Simulation (M&S), target lethality, data link and mission planning. Develop F-15E OFP upgrades to provide the capability to program the weapon with mission planned targets, weapon data link control, and exclusion zone information prior to launch of the weapon. It also allows the aircrew to make in-flight edits of target and weapon data link programming if/when required based on employment scenarios.				
<b>FY 2019 Plans:</b> Complete IOT&E on the F-15E platform. Continue OFP update and qualification efforts for the BRU-61. Continue Advanced Joint Effectiveness Model (AJEM) lethality modeling and testing. Continue collaboration with NSA on weapon data link key management software. Continue collaboration with Joint Interoperability Test Command (JITC) on interoperability testing. Continue integration of SDB II with Command and Control Infrastructure, including AOC and integration with JTAC kits. Continue mission planning support during OT. Continue design, development and integration to upgrade SDB II hardware and software to meet emerging threats and to maintain compatibility with external systems (i.e., Cryptographic Modernization, advanced guidance,				

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020</b>
navigation and control, ensure exportability, cyber security, and program protection, and address obsolescence issues and affordability opportunities).  <b>FY 2020 Plans:</b> n/a  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> Funding decreased due to reorganization of major thrust areas to capture appropriate alignment. Integration and test efforts associated with engineering changes and M-Code are now incorporated into the respective major thrust areas.				
<b>Title:</b> SDB II M-Code  <b>Description:</b> M-Code is a FY 2011 Congressional mandate. 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 provides an enhanced anti-jam capability and secures access to military GPS signals. M-Code will provide the ability to operate in increasing adversarial anti-access/area-denial (A2/AD) jamming environment with increased accuracy, better signal acquisition, and advanced security.  <b>FY 2019 Plans:</b> Continue activities to provide SDB II with M-Code capabilities for improved anti-jam and secure access to military GPS signals. Complete component and system-level design reviews and continue development, test, and qualification activities for M-Code receiver and associated component integration. Build component and system-level developmental test assets. Update mission planning and threshold aircraft operational flight program (OFP) software to ensure aircraft to weapon integration and transmission of the appropriate M-Code initialization data and crypto keys.  <b>FY 2020 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. Continue building developmental test assets. 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.  <b>FY 2019 to FY 2020 Increase/Decrease Statement:</b> FY 2020 funding decreased due to the completion of system level design reviews and purchase of component and system-level developmental test assets in FY 2019. FY 2020 funding focuses on integration, qualification and ground test execution.		16.800	41.243	11.093
<b>Accomplishments/Planned Programs Subtotals</b>		37.667	73.091	31.241

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		FY 2018	FY 2019
Congressional Add: Precise Navigation		-	5.000
FY 2019 Plans: Conduct developmental activities for precision navigation enhancements.			
Congressional Adds Subtotals		-	5.000

## D. Other Program Funding Summary (\$ in Millions)

Line Item	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
• MPAF 02 Line Item SDB000: <i>Small Diameter Bomb</i>	384.250	-	-	-	-	-	-	-	-	0.000	384.250
• MPAF 02 Line Item SDB002: <i>Small Diameter Bomb II</i>	-	100.861	212.434	-	212.434	333.546	308.116	321.972	219.598	489.974	1,986.501
• RDTE 05 PE 0604329N: <i>Small Diameter Bomb II</i>	57.637	72.573	73.450	-	73.450	58.815	44.303	45.233	46.139	0.000	398.150
• WPN Line Item 223800: <i>Small Diameter Bomb II</i>	20.968	91.272	71.077	-	71.077	68.852	70.211	71.701	73.134	301.856	769.071

## Remarks

FY 2018 MPAF 02 Line Item SDB000 includes SDB I and SDB II funding. FY 2019 and out-years includes SDB I funding only.  
FY 2019 and out-years MPAF 02 Line Item SDB002 includes SDB II funding only.  
FY 2018 MPAF 02 Line Item SDB000 includes \$127.220M Overseas Contingency Operation (OCO) for SDB I.  
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, 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,

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advanced guidance, navigation and control, enhanced lethality, and address obsolescence issues and affordability opportunities. These SDB II design changes are scheduled to cut into production in FY 2022 (Lot 8).		
<b>F. Performance Metrics</b> Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.		

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604329F / Small Diameter Bomb (SDB) - EMD				Project (Number/Name) 655191 / SDB Increment II					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Risk Reduction Contract 1	C/CPFF	Boeing : St. Louis, MO	151.922	-		-		-		-		-	0.000	151.922	-
Risk Reduction Contract 2	C/CPFF	Raytheon : Tucson, AZ	150.800	-		-		-		-		-	0.000	150.800	-
EMD Contract	C/FPIF	Raytheon : Tucson, AZ	460.169	-		-		-		-		-	0.000	460.169	-
Engineering Changes & Technical Support	SS/ Various	Raytheon : Tucson, AZ	92.267	15.141	Feb 2018	33.458	Dec 2018	15.735	Dec 2019	-		15.735	21.262	177.863	136.520
M-Code Integration	SS/ Various	Raytheon : Tucson, AZ	7.001	16.800	Jan 2018	41.243	Jan 2019	11.093	Mar 2020	-		11.093	43.393	119.530	109.437
IMPACT High Pressure Air Compressor System	SS/FFP	Boeing : St. Charles, MO	3.175	-		-		-		-		-	0.000	3.175	-
F-15E Integration and Test Support	SS/ Various	Boeing : St. Louis, MO	47.447	2.986	Jun 2018	2.000	Jun 2019	2.000	Jun 2020	-		2.000	0.724	55.157	49.762
BRU-61/A Integration and Test Support	SS/ Various	Boeing : St. Louis, MO	8.529	-		-		-		-		-	0.000	8.529	-
Mission Planning	Various	Various : Various	5.732	-		-		-		-		-	0.000	5.732	5.832
Data Link Integration & Support	Various	Various : Various	3.004	-		-		-		-		-	0.000	3.004	-
System Performance & Lethality	Various	Various : Various	38.688	0.262	Nov 2017	-		-		-		-	0.000	38.950	39.334
Other Product Development	Various	Various : Various	11.796	-		-		-		-		-	36.791	48.587	69.594
Subtotal			980.530	35.189		76.701		28.828		-		28.828	102.170	1,223.418	N/A
Remarks															
Engineering Changes: 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.															
Other Product Development: upgrades to baseline hardware/software to support F-35 Integration															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force												Date: February 2019			
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604329F / Small Diameter Bomb (SDB) - EMD				Project (Number/Name) 655191 / SDB Increment II					
Support (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Other Government Costs	Various	Various : Various	5.353	0.502	Apr 2018	0.521	Apr 2019	0.543	Apr 2020	-		0.543	0.736	7.655	8.201
Subtotal			5.353	0.502		0.521		0.543		-		0.543	0.736	7.655	N/A
Remarks															
Other Gov't Costs: Command & Control Infrastructure Integration subject matter expert (SME) support															
Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
DT&E: 96th Test Wing	PO	96th Test Wing : Eglin AFB, FL	33.538	0.872	Apr 2018	-		1.000	Dec 2019	-		1.000	0.000	35.410	33.725
DT&E: UTTR, WSMR	Various	Various : Various	10.304	-		-		-		-		-	0.000	10.304	-
Targets	Various	Various : Various	25.498	0.150		-		-		-		-	0.000	25.648	-
Other Test Support	Various	Various : Various	9.263	-		-		-		-		-	0.000	9.263	11.896
Subtotal			78.603	1.022		-		1.000		-		1.000	0.000	80.625	N/A
Remarks															
UTTR: Utah Test and Training Range WSMR: White Sands Missile Range															
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
EPASS	Various	Various : Eglin AFB, FL	22.508	0.750	Jun 2018	0.750	Jun 2019	0.750	Jun 2020	-		0.750	1.500	26.258	25.508
Program Management Administration (PMA)	Various	Various : Eglin AFB, FL	11.032	0.204	Oct 2017	0.119	Oct 2018	0.120	Oct 2019	-		0.120	0.264	11.739	11.536
Subtotal			33.540	0.954		0.869		0.870		-		0.870	1.764	37.997	N/A



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Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
<b>Remarks</b> EPASS: Engineering, Professional & Administrative Support Services PMA: Other government costs (travel, GPC, equipment supplies, and IT support)															
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>			1,098.026	37.667		78.091		31.241		-		31.241	104.670	1,349.695	N/A
<b>Remarks</b>															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2020 Air Force																<b>Date:</b> February 2019			
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	FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024			
	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>																												
DT&E on F-15E																												
IOT&E on F-15E																												
F-15E Required Assets Available (RAA)																												
M-Code Integration & Testing																												
Data Link Crypto Mod Integration & Testing																												
Integration & Testing on Threshold F-35B/C																												
Integration & Test of System Updates to Maintain Interoperability																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2020 Air Force			<b>Date:</b> February 2019
<b>Appropriation/Budget Activity</b> 3600 / 5	<b>R-1 Program Element (Number/Name)</b> PE 0604329F / <i>Small Diameter Bomb (SDB)</i> - EMD	<b>Project (Number/Name)</b> 655191 / <i>SDB Increment II</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>SDB Increment II</i></b>				
DT&E on F-15E	1	2018	3	2018
IOT&E on F-15E	3	2018	3	2019
F-15E Required Assets Available (RAA)	4	2019	4	2020
M-Code Integration & Testing	1	2018	4	2021
Data Link Crypto Mod Integration & Testing	1	2018	4	2021
Integration & Testing on Threshold F-35B/C	1	2018	4	2022
Integration & Test of System Updates to Maintain Interoperability	4	2021	4	2024