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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force										Date: February 2018		
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	1,060.423	37.603	38.979	73.158	0.000	73.158	31.241	17.311	27.427	27.927	0.000	1,314.069
655191: SDB Increment II	1,060.423	37.603	38.979	73.158	0.000	73.158	31.241	17.311	27.427	27.927	0.000	1,314.069
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 439												
A. Mission Description and Budget Item Justification												
<p>Small Diameter Bomb Increment II (SDB II) is a joint interest United States Air Force (USAF) and department of Navy (DoN) ACAT IC program, with the Air Force (AF) as the lead service. SDB II provides the war-fighter the capability to attack mobile targets from stand-off, through weather. 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. The threshold aircraft for the AF 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 will be compatible with the BRU-61 (Bomb Rack Unit) 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). The SDB II program will develop and field a single weapon storage container (USAF) and a dual weapon container (DoN).</p>												
<p>SDB II is an events-driven program. SDB II completed a 42-month competitive Risk Reduction phase in October 2009 and entered the Milestone B Engineering and Manufacturing Development (EMD) phase in August 2010. A Fixed Price Incentive Firm EMD contract was awarded on 09 August 2010. The SDB II Program received Milestone C approval to enter Low Rate Initial Production (LRIP) on 3 June 2015. A Fixed Price Incentive Firm Contract for Lot 1 production of 144 weapons was awarded on 12 June 2015, Lot 2 production contract option for 250 weapons was exercised on 8 September 2016, and Lot 3 production contract option for 312 weapons was exercised on 27 January 2017. An updated Milestone C Acquisition Program Baseline is complete. Developmental Testing (DT), including Guided Test Vehicles (GTV) and Live Fire (LF) test missions is nearing completion. A 28-shot Government Confidence Test program began in FY2016 as part of DT. There are no significant software-related issues with the program at this time. Required Assets Available (RAA) for the F-15E is to be completed in FY2019. The DoN Initial Operational Capability (IOC) on the F-35B and F-35C will occur once all F-35B and F-35C operational testing is completed. SDB II is a key component of the Air Force Global Strike Task Force CONOPs. Department of the Navy first Lot (Lot 4) will support F/A-18E/F Initial Operational Capability.</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, and 0605898F.</p>												
<p>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.</p>												

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B. Program Change Summary (\$ in Millions)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	
Previous President's Budget		54.838	38.979	73.709	0.000	73.709	
Current President's Budget		37.603	38.979	73.158	0.000	73.158	
Total Adjustments		-17.235	0.000	-0.551	0.000	-0.551	
• Congressional General Reductions		0.000	0.000				
• Congressional Directed Reductions		-15.851	0.000				
• Congressional Rescissions		0.000	0.000				
• Congressional Adds		0.000	0.000				
• Congressional Directed Transfers		0.000	0.000				
• Reprogrammings		0.000	0.000				
• SBIR/STTR Transfer		-1.384	0.000				
• Other Adjustments		0.000	0.000	-0.551	0.000	-0.551	
Change Summary Explanation							
FY17 Congressional Mark totaling -\$15.7M (-\$7.9M for Forward Financing and a requested transfer of -\$7.8M to M-code).							
C. Accomplishments/Planned Programs (\$ in Millions)					FY 2017	FY 2018	FY 2019
Title: SDB II Development					24.643	13.774	27.699
Description: Development of SDB II to deliver the capability described in the SDB II Capability Development Document (CDD), in lieu of Capability Production Document (CPD) as specified in the government approved SDB II System Performance Specification (SPS) for production, deployment, and sustainment. Upgrades to SDB II hardware and software to meet emerging threats (i.e., M-Code, GPS, Cryptographic Modernization, advanced guidance, navigation and control). Development of the SDB II design to ensure exportability, cyber security, program protection, and address obsolescence issues and affordability opportunities.							
FY 2018 Plans: Begin Multi-Service Operational Test and Evaluation (MOT&E) on the F-15E platform. Continue Operational Flight Program (OFF) update and qualification efforts for the BRU-61. Continue Advanced Joint Effectiveness Model (AJEM) lethality modeling and testing. Continue collaboration with National Security Agency (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 Air and Space Operations Command (AOC) and integration with Joint Terminal Attack Controller (JTAC) kits. Continue mission planning support during Operational Test (OT). Continue design, development and integration to upgrade SDB II hardware and software to meet emerging threats and to maintain compatibility with external systems							

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C. Accomplishments/Planned Programs (\$ in Millions) (i.e., M-Code, Cryptographic Modernization, advanced guidance, navigation and control, ensure exportability, cyber security, program protection, and address obsolescence issues and affordability opportunities). FY 2019 Plans: Continue MOT&E on the F-15E platform. Continue OFP update and qualification efforts for the BRU-61. Continue AJEM lethality software. Continue collaboration with 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., M-Code, Cryptographic Modernization, advanced guidance, navigation and control, ensure exportability, cyber security, program protection, and address obsolescence issues and affordability opportunities) modeling and testing. Continue collaboration with NSA on weapon data link key management. FY 2018 to FY 2019 Increase/Decrease Statement: Funding increase due to multiple upgrades in different phases of ongoing development, integration and test efforts for each of the areas discussed above (M-Code, Cryptographic Modernization, exportability, cyber security, program protection, obsolescence, and affordability).		FY 2017	FY 2018	FY 2019
Title: SDB II Integration and Qualification Testing Description: 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. FY 2018 Plans: Begin Multi-Service Operational Test and Evaluation (MOT&E) on the F-15E platform. Continue Operational Flight Program (OFP) update and qualification efforts for the BRU-61. Continue Advanced Joint Effectiveness Model (AJEM) lethality modeling and testing. Continue collaboration with National Security Agency (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 Air and Space Operations Command (AOC) and integration with Joint Terminal Attack Controller (JTAC) kits. Continue mission planning support during Operational Test (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., M-Code, Cryptographic Modernization, advanced guidance, navigation and control, ensure exportability, cyber security, program protection, and address obsolescence issues and affordability opportunities). FY 2019 Plans:		4.959	8.405	4.216

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C. Accomplishments/Planned Programs (\$ in Millions) Continue MOT&E on the F-15E platform. Continue OFP update and qualification efforts for the BRU-61. Continue AJEM lethality modeling and testing. Continue collaboration with NSA on weapon data link key management software. Continue collaboration with 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., M-Code, Cryptographic Modernization, advanced guidance, navigation and control, ensure exportability, cyber security, and program protection, and address obsolescence issues and affordability opportunities). FY 2018 to FY 2019 Increase/Decrease Statement: Funding decreased due to multiple upgrades in different phases of ongoing development, integration and test efforts for each of the areas discussed above (F-15 OFP updates and qualification, M-Code, Mission Planning, JITC interoperability testing and JTAC fielding, Cryptographic Modernization, advanced guidance, navigation and control, ensure exportability, cyber security, and program protection, and address obsolescence issues and affordability opportunities).		FY 2017	FY 2018	FY 2019
Title: SDB II M-Code Description: 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 A2/AD jamming environment with increased accuracy, better signal acquisition, and advanced security. FY 2018 Plans: Continue activities to provide SDB II with M-Code capabilities for improved anti-jam and secure access to military GPS signals. M-Code activities include, but are not limited to, trade studies; development and implementation of an acquisition strategy; and design, development, integration and testing of M-Code and enhanced anti-jam components. Complete Preliminary Design Review and prototype development for M-Code and enhanced anti-jam receiver. Continue design, test and qualification of engineering changes to the SDB II system to integrate the new M-Code receiver. Update mission planning and threshold aircraft OFPs to ensure aircraft to weapon integration and transmission of the appropriate M-Code initialization data and crypto keys. FY 2019 Plans: Continue activities to provide SDB II with M-Code capabilities for improved anti-jam and secure access to military GPS signals. M-Code activities include, but are not limited to, trade studies; development and implementation of an acquisition strategy; and design, development, integration and testing of M-Code and enhanced anti-jam components. Complete Preliminary Design Review and prototype development for M-Code and enhanced anti-jam receiver. Continue design, test and qualification of engineering changes to the SDB II system to integrate the new M-Code receiver. Update mission planning and threshold aircraft OFPs to ensure aircraft to weapon integration and transmission of the appropriate M-Code initialization data and crypto keys. FY 2018 to FY 2019 Increase/Decrease Statement:		8.001	16.800	41.243

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C. Accomplishments/Planned Programs (\$ in Millions)										FY 2017	FY 2018	FY 2019
Funding increase due to continued electronics and receiver development, and receiver certification and qualification.												
Accomplishments/Planned Programs Subtotals										37.603	38.979	73.158
D. Other Program Funding Summary (\$ in Millions)												
Line Item	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost	
• MPAF 02 Line Item SDB000: Small Diameter Bomb	251.361	356.950	-	-	-	-	-	-	-	0.000	608.311	
• MPAF 02 Line Item SDB002: Small Diameter Bomb II	-	-	100.861	-	100.861	212.434	333.546	308.116	321.972	489.974	1,766.903	
• RDTE 05 PE 0604329N: Small Diameter Bomb II	37.605	57.637	72.573	-	72.573	73.547	58.914	44.409	45.360	0.000	390.045	
• WPN Line Item 223800: Small Diameter Bomb II	-	20.968	91.272	-	91.272	118.461	114.574	117.019	119.502	301.856	883.652	
Remarks												
FY17 and FY18 MPAF 02 Line Item SDB000 includes SDB I and SDB II funding. FY19 and out-years includes SDB I funding only.												
FY19 and out-years MPAF 02 Line Item SDB002 includes SDB II funding only.												
FY17 MPAF 02 Line Item SDB000 includes \$151M Overseas Contingency Operations (OCO) for SDB I.												
FY18 MPAF 02 Line Item SDB000 includes \$90.92M Overseas Contingency Operation (OCO) for SDB I.												
Navy 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 fixed price not-to-exceed pricing with an economic price adjustment clause for labor and materials. 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 & Evaluation (DT&E) program to verify system performance. The Government formally arranges and funds the use of Government flight test support for DT&E.												

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F. Performance Metrics 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 2019 Air Force												Date: February 2018			
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 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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		0.000		0.000		0.000		0.000	0.000	151.922	151.922
Risk Reduction Contract 2	C/CPFF	Raytheon : Tucson, AZ	150.800	0.000		0.000		0.000		0.000		0.000	0.000	150.800	150.800
EMD Contract	C/FPIF	Raytheon : Tucson, AZ	460.169	0.000		0.000		0.000		0.000		0.000	0.000	460.169	460.169
Technical Support Contract	SS/ Various	Raytheon : Tucson, AZ	68.643	23.699	Dec 2016	10.235	Feb 2018	21.580	Dec 2018	0.000		21.580	21.262	145.419	136.520
M Code Development	C/Various	Not specified. : NV	0.000	8.001	Jun 2017	16.800	Jan 2018	41.243	Jan 2019	0.000		41.243	43.393	109.437	109.437
IMPACT High Pressure Air Compressor System	SS/FFP	Boeing : St. Charles, MO	3.175	0.000		0.000		0.000		0.000		0.000	0.000	3.175	3.175
F-15E Integration and Test Support	SS/ Various	Boeing : St. Louis, MO	45.956	0.931	Jan 2017	2.000	Jun 2018	2.000	Jun 2019	0.000		2.000	0.724	51.611	49.762
BRU-61/A Integration and Test Support	SS/ Various	Boeing : St. Charles, MO	8.529	0.000		0.000		0.000		0.000		0.000	0.000	8.529	8.529
Mission Planning	Various	Various : Various	5.631	0.201	Jan 2017	0.914	Feb 2018	0.000		0.000		0.000	0.000	6.746	5.832
Data Link Integration & Support	Various	Various : Various	2.934	0.070	Dec 2016	0.000		0.000		0.000		0.000	0.000	3.004	3.004
System Performance & Lethality	Various	Various : Various	38.388	0.300	Nov 2016	0.300	Nov 2017	0.312	Nov 2018	0.000		0.312	0.000	39.300	39.334
Other Product Development	Various	Various : Various	11.576	0.275	Nov 2016	6.284	Mar 2018	2.780	Mar 2019	0.000		2.780	36.791	57.706	69.594
Subtotal			947.723	33.477		36.533		67.915		0.000		67.915	102.170	1,187.818	N/A
Remarks															
EMD contract is budgeted to the contract ceiling price \$509.9M.															
The EMD Target Value is AF funding only. This represents the total liability for the AF (target cost plus ceiling). The contract's target value including Navy funding is \$450.827M. The target price is \$509.9M. This includes AF and Navy ceiling.															

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Air Force												Date: February 2018			
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 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	5.042	0.482	Apr 2017	1.049	Apr 2018	0.522	Apr 2019	0.000		0.522	0.736	7.831	8.201
Subtotal			5.042	0.482		1.049		0.522		0.000		0.522	0.736	7.831	N/A
Remarks None.															
Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	30.941	1.370	Apr 2017	0.239	Apr 2018	2.853	Dec 2019	0.000		2.853	0.000	35.403	33.725
DT&E: UTTR, WSMR	Various	Various : Various	9.625	0.480	Feb 2017	0.000		0.000		0.000		0.000	0.000	10.105	10.105
Targets	PO	Various : Various	25.248	0.150	Feb 2017	-		0.000	Dec 2018	0.000		0.000	0.000	25.398	26.336
Other Test Support	Various	Various : Various	9.263	0.700	Dec 2016	0.299	Dec 2017	1.000	Apr 2019	0.000		1.000	0.000	11.262	11.896
Subtotal			75.077	2.700		0.538		3.853		0.000		3.853	0.000	82.168	N/A
Remarks UTTR: Utah Test and Training Range WSMR: White Sands Missile Range															
Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	21.758	0.750	Jun 2017	0.750	Jun 2018	0.750	Jun 2019	0.000		0.750	1.500	25.508	25.508
Program Management Administration (PMA)	Various	Various : Eglin AFB, FL	10.823	0.194	Oct 2016	0.109	Oct 2017	0.118	Oct 2018	0.000		0.118	0.264	11.508	11.536
SBIR	Various	Various : Eglin AFB, FL	0.000	0.000	Sep 2018	-		-		-		-	0.000	0.000	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Air Force												Date: February 2018		
Appropriation/Budget Activity 3600 / 5						R-1 Program Element (Number/Name) PE 0604329F / <i>Small Diameter Bomb (SDB)</i> - EMD				Project (Number/Name) 655191 / <i>SDB Increment II</i>				

Management Services (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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	Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal			32.581	0.944		0.859		0.868		0.000		0.868		1.764	37.016	N/A

Remarks EPASS: Engineering, Professional & Administrative Support Services																
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	Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1,060.423	37.603		38.979		73.158		0.000		73.158	104.670	1,314.833	N/A

Remarks																
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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force																Date: February 2018			
Appropriation/Budget Activity 3600 / 5								R-1 Program Element (Number/Name) PE 0604329F / <i>Small Diameter Bomb (SDB)</i> - EMD								Project (Number/Name) 655191 / <i>SDB Increment II</i>			

	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
	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
<i>SDB Increment II</i>																												
F-15 Integration Developmental/Operational Testing																												
SDB II M-Code																												
Government Confidence Testing																												
Operational Testing																												
F-15E Required Assets Available																												
SDB II Integration on Threshold F-35B/C																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force			Date: February 2018
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>SDB Increment II</i>				
F-15 Integration Developmental/Operational Testing	1	2017	2	2019
SDB II M-Code	3	2017	4	2020
Government Confidence Testing	1	2017	2	2018
Operational Testing	3	2018	2	2019
F-15E Required Assets Available	2	2019	2	2019
SDB II Integration on Threshold F-35B/C	3	2018	2	2022