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Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force									Date: May 2017			
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 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
Total Program Element	1,032.472	27.950	54.838	38.979	0.000	38.979	73.709	31.477	17.442	27.626	0.000	1,304.493
655191: SDB Increment II	1,032.472	27.950	54.838	38.979	0.000	38.979	73.709	31.477	17.442	27.626	0.000	1,304.493
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		
Program MDAP/MAIS Code: 439												
Note *Totals include funding from PRCP Program Number 439, SDB II												
A. Mission Description and Budget Item Justification Small Diameter Bomb Increment II (SDB II) is a joint interest United States Air Force (USAF) and Department of Navy (DoN) ACAT ID program, with the Air Force (AF) as the lead service. SDB II provides the warfighter the capability to attack mobile targets from stand-off, through weather. SDB II addresses the following warfighter 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, the Joint Miniature Munitions BRU, 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). 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. SDB II is a key component of the Air Force's Global Strike Task Force CONOPs and Global Precision Attack Core Function. 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.												

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3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)		PE 0604329F I Small Diameter Bomb (SDB) - EMD					
B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total		
Previous President's Budget	29.083	54.838	47.369	0.000	47.369		
Current President's Budget	27.950	54.838	38.979	0.000	38.979		
Total Adjustments	-1.133	0.000	-8.390	0.000	-8.390		
• Congressional General Reductions	0.000	0.000					
• Congressional Directed Reductions	0.000	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	-1.133	0.000					
• Other Adjustments	0.000	0.000	-8.390	0.000	-8.390		
Change Summary Explanation							
FY18 decrease for higher AF priorities.							
C. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: SDB II Development			11.517	24.128	20.010	0.000	20.010
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, and program protection, and address obsolescence issues and affordability opportunities.							
FY 2016 Accomplishments:							
Continued Guided Test Vehicle (GTV), Captive Flight Test (CFT), Live Fire Test and Evaluation (LFT&E) program for Normal Attack (NA) Mode, Coordinate Attack (CA) Mode and Laser Illuminated Attack (LIA) Mode. Executed F-15E captive cueing missions to better understand on- and off-board tactical targeting sources. Continued the Developmental Testing (DT) Captive Carry Reliability Test (CCRT) program. Completed detailed planning and began Government Confidence Test (GCT) program, which consists of 28 government-directed GTV test shots. GCT is part of the DT program and will complete prior to dedicated Multiservice Operational Test and Evaluation (MOT&E).							

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
<p>Continued planning for the Operational Test Readiness Review (OTRR) that must be completed prior to the start of the dedicated MOT&E. Continued Operational Flight Program (OFP) update and qualification efforts for the BRU-61 carriage. Continued Advanced Joint Effectiveness Model (AJEM) lethality modeling and testing. Continued collaboration with National Security Agency (NSA) on weapon data link key management software. Continued collaboration with Joint Interoperability Test Command (JITC) on interoperability testing. Continued integration of SDB II with Command and Control Infrastructure, including Air and Space Operations Center (AOC) and integration with Joint Terminal Attack Controller (JTAC) kits. Continued mission planning support during DT. Completed studies and initial risk reduction efforts to upgrade SDB II hardware and software to meet emerging threats, to maintain compatibility with external systems, ensured exportability and program protection, and addressed obsolescence issues and affordability opportunities.</p> <p>FY 2017 Plans: Complete GTV, LFT&E, CFT, and continue CCRT DT programs. Conduct the OTRR and gain approval to begin MOT&E which consists of 45 GTV and 10 LFT&E test shots 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 DT and Operational Test (OT). Continue upgrade of SDB II hardware and software to meet emerging threats to maintain compatibility with external systems (i.e., M-Code, Cryptographic Modernization, advanced guidance, navigation and control, ensure exportability and program protection, and address obsolescence issues and affordability opportunities).</p> <p>FY 2018 Base Plans: Begin 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).</p> <p>FY 2018 OCO Plans:</p>						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
N/A						
Title: SDB II Integration and Qualification Testing		16.433	6.959	2.169	0.000	2.169
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 2016 Accomplishments: Continued to conduct ground and flight testing and target procurement to support testing. Continued OFP update and qualification efforts. Continued GTV, LFT&E, CFT, and CCRT Developmental Testing for NA, CA, and LIA modes. Continued to update F-15E OFP for NA, CA, and LIA modes. Began GCT program. Began updates to F-15E training devices. Continued mission planning support during DT.						
Continued AJEM lethality modeling and testing. Continued collaboration with NSA on weapon data link key management software. Continued collaboration with JITC on interoperability testing. Continued integration of SDB II with Command and Control Infrastructure, including AOC and integration with ground controller kits. Continued mission planning support during DT. Continued development activities to upgrade SDB II hardware and software to meet emerging threats, maintain compatibility with external systems, ensured exportability and program protection, and addressed obsolescence issues and affordability opportunities.						
FY 2017 Plans: Complete GTV, LFT&E, CFT, and CCRT for NA, CA, and LIA modes. Conduct the OTRR and gain approval to begin MOT&E which consists of 45 GTV and 10 LFT&E test shots on the F-15E platform. Continue update to F-15E training devices. Continue 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 ground controller kits. Continue mission planning support during DT/OT. Continue development activities to upgrade SDB II hardware and software to meet emerging threats, maintain compatibility with external systems (i.e., M-Code, Cryptographic Modernization, advanced guidance, navigation						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
and control, ensure exportability and program protection, and address obsolescence issues and affordability opportunities).						
FY 2018 Base Plans: Begin 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 OCO Plans: N/A						
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.		0.000	23.751	16.800	0.000	16.800
FY 2016 Accomplishments: (External Funding) Completed trade studies to evaluate SDB II performance against emerging threats. Upgraded modeling and simulation capability to evaluate M-Code and enhanced anti-jam performance trade space for SDB II operational scenarios. Assessed multiple solutions to provide optimum performance at an affordable cost to complete the SDB II mission while satisfying the Congressional mandate at earliest opportunity.						
FY 2017 Plans: Complete Systems Requirements Review (SRR) and preliminary design activities for Raytheon Family of Systems M-Code/enhanced anti-jam receiver. Complete SRR and early design activities for engineering changes required for the SDB II system to integrate the receiver and enhanced anti-jam capabilities. Continue to upgrade modeling and simulation capability to evaluate M-Code and enhanced anti-jam performance for						

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C. Accomplishments/Planned Programs (\$ in Millions)						FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
SDB II operational scenarios. 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 Base 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 Critical Design 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 OCO Plans: N/A											
Accomplishments/Planned Programs Subtotals						27.950	54.838	38.979	0.000	38.979	
D. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
• MPAF: BA05: Line Item # SDB000: Small Diameter Bomb	135.117	260.161	266.030	90.920	356.950	72.506	143.935	336.512	310.853	893.676	3,367.613
• RDT&E: BA05: PE 0604329N: Small Diameter Bomb	28.403	37.605	57.637	0.000	57.637	72.866	71.020	56.442	42.572	3.432	458.484
• WPN: BA05: Line Item # 223800: Small Diameter Bomb	0.000	0.000	20.968	0.000	20.968	92.148	121.619	117.743	120.101	301.856	774.435
Remarks											
Navy RDT&E funds include F-35B and F-35C Integration and Support Cost											
FY16 MPAF BA05 Line Item #SDB000 includes \$2.52M Overseas Contingency Operations (OCO) for SDB I.											
FY17 MPAF BA05 Line Item #SDB000 includes \$167.8M Overseas Contingency Operation (OCO) for SDB I.											
FY18 MPAF BA05 Line Item #SDB000 includes \$90.920M Overseas Contingency Operation (OCO) for SDB I.											

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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.		
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: FY 2018 Air Force												Date: May 2017			
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 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	459.843	0.326	May 2016	0.000		0.000		0.000		0.000	0.000	460.169	460.169
Technical Support Contract	SS/ Various	Raytheon : Tucson, AZ	54.988	13.361	Mar 2016	23.471	Dec 2016	10.235	Dec 2017	0.000		10.235	12.665	114.720	114.719
M Code Development	C/Various	Not specified. : TBD	0.000	0.000		23.701	Jun 2017	16.800	Jan 2018	0.000		16.800	84.636	125.137	125.137
MPACT 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	43.328	2.628	Apr 2016	0.829	Jan 2017	1.113	Jun 2018	0.000		1.113	1.760	49.658	49.658
BRU-61/A Integration and Test Support	SS/ Various	Boeing : St. Charles, MO	8.529	0.000	Jan 1901	0.484	Apr 2017	0.000		0.000		0.000	0.000	9.013	9.013
Mission Planning	Various	Various : Various	5.173	0.458	Jul 2016	0.222	Jan 2017	0.000		0.000		0.000	0.000	5.853	5.853
Data Link Integration & Support	Various	Various : Various	2.934	0.070	Apr 2016	0.000	Dec 2016	0.000	Mar 2018	0.000		0.000	0.000	3.004	3.004
System Performance & Lethality	Various	Various : Various	37.220	1.168	Jul 2016	0.577	Nov 2016	0.334	Nov 2017	0.000		0.334	0.311	39.610	39.610
Other Product Development	Various	Various : Various	10.959	0.626	Jul 2016	0.171	Nov 2016	6.326	Mar 2018	0.000		6.326	46.827	64.909	64.909
Subtotal			928.871	18.637		49.455		34.808		0.000		34.808	146.199	1,177.970	1,177.969
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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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 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	4.536	0.478	Oct 2016	0.484	Apr 2017	1.104	Apr 2018	0.000		1.104	1.572	8.174	8.181
Subtotal			4.536	0.478		0.484		1.104		0.000		1.104	1.572	8.174	8.181
Remarks None.															
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	25.386	4.157	Nov 2015	1.652	Apr 2017	0.000		0.000		0.000	1.412	32.607	32.608
DT&E: UTTR, WSMR	Various	Various : Various	8.405	2.634	Nov 2015	1.296	Feb 2017	0.000		0.000		0.000	0.000	12.335	12.335
Targets	PO	Various : Various	25.048	0.200	Jan 2016	0.165	Feb 2017	0.907	Jan 2018	0.000		0.907	0.031	26.351	26.351
Other Test Support	Various	Various : Various	9.122	0.142	Dec 2015	0.772	Dec 2016	1.294	Dec 2017	0.000		1.294	0.638	11.968	11.967
Subtotal			67.961	7.133		3.885		2.201		0.000		2.201	2.081	83.261	83.261
Remarks UTTR: Utah Test and Training Range WSMR: White Sands Missile Range															
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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	20.544	1.434	Jun 2016	0.900	Jun 2017	0.750	Jun 2018	0.000		0.750	0.000	23.628	23.628
Program Management Administration (PMA)	Various	Various : Eglin AFB, FL	10.560	0.268	Oct 2015	0.114	Oct 2016	0.116	Oct 2017	0.000		0.116	0.402	11.460	11.460
Subtotal			31.104	1.702		1.014		0.866		0.000		0.866	0.402	35.088	35.088

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Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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
Remarks EPASS: Engineering, Professional & Administrative Support Services																
			Prior Years	FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 Total		Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			1,032.472	27.950		54.838		38.979		0.000		38.979		150.254	1,304.493	-
Remarks																

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Exhibit R-4, RDT&E Schedule Profile: FY 2018 Air Force			Date: May 2017		
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			Project (Number/Name) 655191 / <i>SDB Increment II</i>		

	FY 2016				FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
	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
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: FY 2018 Air Force			Date: May 2017
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
F-15 Integration Developmental/Operational Testing	1	2016	4	2018
SDB II M-Code	3	2017	4	2020
Government Confidence Testing	1	2017	4	2017
Operational Testing	1	2018	4	2018
F-15E Required Assets Available	1	2019	1	2019
SDB II Integration on Threshold F-35B/C	3	2018	2	2022