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Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force										Date: February 2015		
Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 0605712F I Initial Operational Test & Evaluation							
COST (\$ in Millions)	Prior Years	FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total	FY 2017	FY 2018	FY 2019	FY 2020	Cost To Complete	Total Cost
Total Program Element	-	6.972	10.266	10.476	-	10.476	12.090	12.102	11.786	11.997	Continuing	Continuing
660191: Initial Operational Test and Eval	-	6.972	10.266	10.476	-	10.476	12.090	12.102	11.786	11.997	Continuing	Continuing
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program element funds Congressionally mandated Initial Operational Test and Evaluation (IOT&E) to support major weapon system acquisition decisions beyond Low-Rate Initial Production (LRIP), Milestone C, full rate production, fielding, and declaration of Initial Operational Capability (IOC). For major defense acquisition programs, the law requires IOT&E be completed under realistic operating conditions before proceeding beyond LRIP. IOT&E will be planned to completely and unambiguously answer all critical operational issues (COI) as thoroughly as possible. IOT&E is conducted to determine the operational effectiveness and suitability and resolve overall mission capability of systems undergoing research and development (R&D) efforts. It is an evaluation of a system's performance when the complete system is tested and evaluated against operational criteria by personnel with the same qualifications as those who will operate, maintain and support the system when deployed. In general, IOT&E is performed on new systems in development, major modifications, and other systems as directed. This PE funds the Air Force Operational Test Agency's participation in Integrated Test and Evaluation (IT&E), Multiservice Operational Test and Evaluation (MOT&E), and Follow-on Operational Test and Evaluation (FOT&E) when it is the continuation of IOT&E activities past the full rate production decision. FOT&E answers specific questions about unresolved COIs and test issues or completes areas not finished during the IOT&E. This PE funds related operational test and evaluation (OT&E) activities such as Early Influence, Operational Utility Evaluations (OUE), Early Operational Assessments (EOA), Operational Assessments (OA), and independent IOT&E which support major milestones and decision points prior to Milestone C, full rate production, fielding, or declaration of IOC. IOT&E programs are identified in several system categories: Air; Space; Weapons; Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR); and Combat Support. This is a level of effort program element driven by Congressionally and DoD acquisition mandated requirements for operational testing.

This program is in Budget Activity 6, RDT&E Management Support because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.

The FY2016 funding request was reduced by \$1.171 million to account for the availability of prior execution balances.

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B. Program Change Summary (\$ in Millions)		FY 2014	FY 2015	FY 2016 Base	FY 2016 OCO	FY 2016 Total
Previous President's Budget		10.572	12.266	11.716	-	11.716
Current President's Budget		6.972	10.266	10.476	-	10.476
Total Adjustments		-3.600	-2.000	-1.240	-	-1.240
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-2.000			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-3.600	-			
• SBIR/STTR Transfer		-	-			
• Other Adjustments		-	-	-1.240	-	-1.240
Change Summary Explanation						
FY14: Reduction for \$3.600M due to higher AF priorities						
FY15: \$2.000M Congressionally directed reduction for Weapons OT&E - unjustified increase.						
FY16: Reduction of \$1.171 million to account for the availability of prior execution balances.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2014	FY 2015	FY 2016
Title: Air Systems OT&E				3.543	4.142	1.869
Description: Plan, execute and report OT&E for Air Systems						
FY 2014 Accomplishments:						
-Advanced Pilot Training (APT T-X): Conducted early influence						
-AWACS Block 40/45: Conducted early influence						
-C-130J BU 8.1: Conducted early influence						
-Combat Rescue Helicopter (CRH): Conducted early influence						
-(Diminishing Manufacturing Sources) Replacement of Avionics for Global Operations and Navigation (E-3 DRAGON): Conducted early influence						
-F-15 Eagle Passive and Active Warning and Survivability System (F-15 EPAWSS): Conducted early influence						
-F-15E Radar Modernization Program (F-15E RMP): Conducted IOT&E						
-F-22A 3.2A: Planned for FOT&E						
-F-22A 3.2B: Planned for OA						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
-HC/MC-130 RECAP: Published Final Report -JSTARS Recap: Conducted early influence -KC-46A: Plan for OA -Miniature Air Launched Decoy - Jammer (MALD-J): Completed IOT&E -MQ-9 Increment 1: Planned for FOT&E -Presidential Aircraft Recapitalization (PAR): Conducted early influence -QF-16: Conducted IOT&E -UH-1N Replacement: Conducted Early Influence FY 2015 Plans: -Advanced Pilot Training (APT T-X): Conduct early influence -AWACS Block 40/45: Plan for FOT&E -C-130J BU 8.1: Plan for OA -Combat Rescue Helicopter (CRH): Plan for OA1 -(Diminishing Manufacturing Sources) Replacement of Avionics for Global Operations and Navigation (E-3 DRAGON): Plan for OA -F-15 Eagle Passive and Active Warning and Survivability System (F-15 EPAWSS): Conduct early influence -F-22A 3.2A: Conduct FOT&E -F-22A 3.2B: Conduct OA -F-22 Tactical Mandates (TACMAN): Conduct early influence -JSTARS Recap: Conducted early influence -KC-46A: Conduct OA -Miniature Air Launched Decoy - Jammer (MALD-J): Conduct FOT&E -MQ-9 Increment 1: Conduct FOT&E -Multi-domain Adaptable Processing System (MAPS): Conduct early influence -Presidential Aircraft Recapitalization (PAR): Plan for OA -QF-16: Publish final report -UH-1N Replacement: Conduct Early Influence -Conduct other planning and operational testing for new air system programs as the requirement becomes known to AFOTEC FY 2016 Plans: -Advanced Pilot Training (APT T-X): Conduct early influence -AWACS Block 40/45: Conduct FOT&E -C-130J BU 8.1: Conduct OA -Combat Rescue Helicopter (CRH): Conduct OA1				

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
-(Diminishing Manufacturing Sources) Replacement of Avionics for Global Operations and Navigation (E-3 DRAGON): Conduct OA -F-15 Eagle Passive and Active Warning and Survivability System (F-15 EPAWSS): Conduct early influence -F-22A 3.2B: Plan for IOT&E -F-22 Tactical Mandates (TACMAN): Conduct early influence -JSTARS Recap: Conducted early influence -KC-46A: Conduct IOT&E -Miniature Air Launched Decoy - Jammer (MALD-J): Complete FOT&E -MQ-9 Increment 1: Complete FOT&E -Multi-domain Adaptable Processing System (MAPS): Conduct early influence -Presidential Aircraft Recapitalization (PAR): Conduct OA -UH-1N Replacement: Conduct Early Influence -Conduct other planning and operational testing for new air system programs as the requirement becomes known to AFOTEC				
Title: Space Systems OT&E Description: Plan, execute and report OT&E for Space Systems OT&E FY 2014 Accomplishments: -Advanced Extremely High Frequency Satellite Communications (Advanced EHF): Conducted MOT&E -Enhanced Polar System (EPS): Conducted early influence -Global Broadcast Service (GBS): Planned for FOT&E -Global Positioning System Block III (GPS III): Conducted early influence -Military GPS User Equipment (GPS MGUE): Planned for OA -GPS Next Generation Control Segment (GPS OCX): Conducted early influence -Inter-Continental Ballistic Missile Fuze (ICBM FUZE): Conducted early influence -Integrated Strategic Planning and Analysis Network Increment 4 (ISPAN Inc IV): Conducted EOA -Joint Space Operations Center (JSpOC) Mission System (JMS): Planned for OUE -Space Based Infrared System (SBIRS): Planned for OUE1 -Space Fence: Conducted early influence -Weather System Follow-on (WSF): Conducted early influence FY 2015 Plans: -Advanced Extremely High Frequency Satellite Communications (Advanced EHF): Complete MOT&E -Enhanced Polar System (EPS): Plan for OA -Global Broadcast Service (GBS): Conduct FOT&E		1.789	1.330	0.746

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
-Global Positioning System Block III (GPS III): Conduct early influence -Military GPS User Equipment (GPS MGUE): Conduct OA -GPS Next Generation Control Segment (GPS OCX): Plan for OA -Inter-Continental Ballistic Missile Fuze (ICBM FUZE): Conduct early influence -Integrated Strategic Planning and Analysis Network Increment 4 (ISPAN Inc IV): Conduct OA -Joint Space Operations Center (JSpOC) Mission System (JMS): Conduct OUE -Space Based Infrared System (SBIRS): Conduct OUE1 -Space Fence: Conduct early influence -Weather System Follow-on (WSF): Conduct early influence -Conduct other planning and operational testing for new space system programs as the requirement becomes known to AFOTEC FY 2016 Plans: -Enhanced Polar System (EPS): Conduct OA -Global Positioning System Block III (GPS III): Conduct early influence -Military GPS User Equipment (GPS MGUE): Plan for OUE -GPS Next Generation Control Segment (GPS OCX): Conduct OA -Inter-Continental Ballistic Missile Fuze (ICBM FUZE): Plan for OA -Integrated Strategic Planning and Analysis Network Increment 4 (ISPAN Inc IV): Plan for IOT&E -Joint Space Operations Center (JSpOC) Mission System (JMS): Conduct IOT&E -Space Based Infrared System (SBIRS): Conduct OUE2 -Space Fence: Conduct early influence -Weather System Follow-on (WSF): Conduct early influence -Conduct other planning and operational testing for new space system programs as the requirement becomes known to AFOTEC				
Title: Weapons OT&E Description: Plan, execute and report OT&E for Weapons OT&E FY 2014 Accomplishments: -AIM-120C Advanced Electronic Protection Improvement Program (AIM-120C Advanced EPIP): Planned for MOT&E -AIM-120C Electronic Protection Improvement Program (AIM-120C EPIP): Conducted MOT&E -AIM-9X Block II: Conducted MOT&E -B-61 Life Extension Program (B-61 LEP): Conducted early influence -Hard Target Void Sensing Fuze (HTVSF): Conducted OA -Long-Range Stand-Off Weapon (LRSO): Conducted early influence		0.602	0.664	5.191

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
-Small Diameter Bomb II (SDB II): Conducted OA FY 2015 Plans: -AIM-120C Advanced Electronic Protection Improvement Program (AIM-120C Advanced EPIP): Plan for MOT&E -AIM-120C Electronic Protection Improvement Program (AIM-120C EPIP): Complete MOT&E -AIM-9X Block II: Complete MOT&E -B-61 Life Extension Program (B-61 LEP): Conduct early influence -Hard Target Void Sensing Fuze (HTVSF): Plan for MOT&E -Long-Range Stand-Off Weapon (LRSO): Conduct early influence -Small Diameter Bomb II (SDB II): Complete OA -Conduct other planning and operational testing for new weapons system programs as the requirement becomes known to AFOTEC FY 2016 Plans: -AIM-120C Advanced Electronic Protection Improvement Program (AIM-120C Advanced EPIP): Conduct MOT&E -B-61 Life Extension Program (B-61 LEP): Conduct early influence -Hard Target Void Sensing Fuze (HTVSF): Conduct MOT&E -Long-Range Stand-Off Weapon (LRSO): Conduct early influence -Small Diameter Bomb II (SDB II): Conduct MOT&E -Conduct other planning and operational testing for new weapons system programs as the requirement becomes known to AFOTEC				
Title: C4ISR OT&E Description: Plan, execute and report OT&E for C4ISR OT&E FY 2014 Accomplishments: -Three Dimensional Expeditionary Long Range Radar (3DELRR): Conducted early influence -Air Force Distributed Common Ground System SR 3.0 (DCGS SR 3.0): Planned for OUE -Air Force Integrated Personnel and Pay System (AF-IPPS): Conducted early influence -Air Operations Center (AOC WS Inc 10.2): Planned for OA -Battle Control System - Fixed, Release 3.2 (BCS-F R3.2.2): Conducted FOT&E -Command and Control Air Operations Suite/Command and Control Information Services (C2AOS-C2IS): Conducted early influence -Enclave Control Node (ECN): Planned for OUE1 -Enhanced Technical Information Management System (ETIMS): Conducted OA		0.974	3.828	2.396

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
-Family of Advanced Beyond Line Of Sight Terminals (FAB T): Conducted OA -RQ-4 Global Hawk Block 30/Airborne Signals Intelligence (ASIP): Conducted early influence -RQ-4B Global Hawk Block 40: Planned for IOT&E FY 2015 Plans: -Three Dimensional Expeditionary Long Range Radar (3DELRR): Conduct early influence -Air Force Distributed Common Ground System SR 3.0 (AF DCGS SR 3.0): Conduct OUE and plan for IOT&E -Air Force Integrated Personnel and Pay System (AF-IPPS): Conduct early influence -Air Operations Center (AOC WS Inc 10.2): Conduct OA -Command and Control Air Operations Suite/Command and Control Information Services (C2AOS-C2IS): Conduct early influence -Enclave Control Node (ECN): Conduct OUE1 -Enhanced Technical Information Management System (ETIMS): Conduct OUE -Family of Advanced Beyond Line Of Sight Terminals (FAB T): Plan for IOT&E -RQ-4 Global Hawk Block 30/Airborne Signals Intelligence (ASIP): Conduct early influence -RQ-4B Global Hawk Block 40: Conduct IOT&E -Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC FY 2016 Plans: -Three Dimensional Expeditionary Long Range Radar (3DELRR): Plan for OA -Air Force Distributed Common Ground System SR 3.0 (AF DCGS SR 3.0): Conduct IOT&E -Air Force Integrated Personnel and Pay System (AF-IPPS): Plan for IOT&E -Air Operations Center (AOC WS Inc 10.2): Conduct IOT&E -Command and Control Air Operations Suite/Command and Control Information Services (C2AOS-C2IS): Plan for MOT&E -Enclave Control Node (ECN): Conduct OUE2 -Family of Advanced Beyond Line Of Sight Terminals (FAB T): Conduct IOT&E -RQ-4 Global Hawk Block 30/Airborne Signals Intelligence (ASIP): Plan for FOT&E -Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC				
Title: Combat Support OT&E Description: Plan, execute and report OT&E for Combat Support OT&E FY 2014 Accomplishments: -Integrated Aircrew Ensemble (IAE): Conducted OA -Joint Mission Planning System B-2 (JMPS B-2): Conducted early influence -Joint Mission Planning System B-52 (JMPS B-52): Plan for IOT&E		0.064	0.302	0.274

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2014	FY 2015	FY 2016
-Joint Mission Planning System E-8 (JMPS E-8): Conducted IOT&E FY 2015 Plans: -Integrated Aircrew Ensemble (IAE): Complete OA -Joint Mission Planning System B-2 (JMPS B-2): Plan for IOT&E -Joint Mission Planning System B-52 (JMPS B-52): Conduct IOT&E -Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC FY 2016 Plans: -Integrated Aircrew Ensemble (IAE): Conduct IOT&E1 -Joint Mission Planning System B-2 (JMPS B-2): Conduct IOT&E -Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC				
Accomplishments/Planned Programs Subtotals		6.972	10.266	10.476
D. Other Program Funding Summary (\$ in Millions) N/A Remarks E. Acquisition Strategy N/A 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.				