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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force **DATE:** February 2012

APPROPRIATION/BUDGET ACTIVITY 3600: <i>Research, Development, Test & Evaluation, Air Force</i> BA 6: <i>RDT&E Management Support</i>	R-1 ITEM NOMENCLATURE PE 0605712F: <i>Initial Operational Test & Evaluation</i>
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COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	20.278	17.754	16.197	-	16.197	14.790	13.391	13.086	13.259	Continuing	Continuing
660191: <i>Initial Operational Test & Eval</i>	20.278	17.754	16.197	-	16.197	14.790	13.391	13.086	13.259	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

This PE 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 systems designated for use in combat, the law requires IOT&E be completed under realistic field 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 OT participation in Integrated Test and Evaluation (IT&E), the Air Force participation in 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 also funds related operational test and evaluation (OT&E) activities such as 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, and Intelligence (C4I); and Combat Support. Air Force Operational Test and Evaluation Center (AFOTEC) obtains general support services from contracts awarded after employing full and open competition contracting strategies. This is a level of effort program element.

Budget Activity Justification: This program is in Budget Activity 6, RDT&E Management Support because this budget activity includes research, development, test and evaluation efforts.

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B. Program Change Summary (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget	20.665	17.767	16.167	-	16.167
Current President's Budget	20.278	17.754	16.197	-	16.197
Total Adjustments	-0.387	-0.013	0.030	-	0.030
• Congressional General Reductions	-	-0.013			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.269	-			
• Other Adjustments	-0.118	-	0.030	-	0.030

Change Summary Explanation

FY11: Congressional General Reductions -\$0.118 shown in Other Adjustments Row

C. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
Title: OT&E	13.430	12.352	4.687
Description: Plan, execute, and report IOT&E activities for Air Systems:			
FY 2011 Accomplishments:			
- ALR-69A Radar Warning Receiver: Plan for IOT&E			
- AWACS Block 40/45: Plan for IOT&E			
- B-52 CObat NEtwork Communications Technology: Plan for OA			
- C-130 Avionics Modernization Program: Conduct IOT&E			
- E-3 Diminishing Manufacturing Sources Replacement of Avionics Global Operations and Navigation: Plan for OA			
- E-XX National Airborne Operations Center: Plan for OA			
- F-15 Mark XIIA Mode 5: Conduct OA			
- F-15E Radar Modernization Program: Plan for IOT&E			
- F-22A FOT&E 3.1: Conduct FOT&E			
- HC/MC-130 Recapitalization: Plan for IOT&E			
- KC-46A Replacement Tanker: Early Influence			
- Large Aircraft Infrared Countermeasures Phase II: Conduct IOT&E			
- Miniature Air Launched Decoy: Conduct IOT&E			
- Miniature Air Launched Decoy-Jammer: Conduct OA			

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
<ul style="list-style-type: none"> - Modular Aircrew Helmet: Conduct IOT&E - QF-16: Plan for EOA <p><i>FY 2012 Plans:</i></p> <ul style="list-style-type: none"> - Advanced Pilot Training System: Plan for EOA - ALR-69A Radar Warning Receiver: Conduct IOT&E - AWACS Block 40/45: Conduct IOT&E - B-52 CObat NEtwork Communications Technology: Conduct OA - E-3 Diminishing Manufacturing Sources Replacement of Avionics Global Operations and Navigation: Plan for OA - F-15 Mark XIIA Mode 5: Conduct IOT&E - F-15E Radar Modernization Program: Conduct IOT&E - F-22A FOT&E 3.1: Complete FOT&E - F-22A Increment 3.2A: Plan for FOT&E - F-22A Increment 3.2B: Early Influence - HC/MC-130 Recapitalization: Conduct IOT&E - KC-46A Replacement Tanker: Plan for OA 1 - Large Aircraft Infrared Countermeasures Phase II: Publish Final Report - Miniature Air Launched Decoy: Conduct IOT&E - Miniature Air Launched Decoy-Jammer: Conduct IOT&E - MQ-9 Hunter-Killer: Conduct OA - QF-16: Conduct OA <p><i>FY 2013 Plans:</i></p> <ul style="list-style-type: none"> - Advanced Pilot Training System: Conduct EOA - B-52 CObat NEtwork Communications Technology: Conduct IOT&E - E-3 Diminishing Manufacturing Sources Replacement of Avionics Global Operations and Navigation: Conduct OA1 - F-15E Radar Modernization Program: Complete IOT&E - F-22A Increment 3.2A: Plan for FOT&E - F-22A Increment 3.2B: Early Influence - KC-46A Replacement Tanker: Conduct OA 1 - Miniature Air Launched Decoy-Jammer: Complete IOT&E - MQ-9 Hunter-Killer: Plan for FOT&E - QF-16: Conduct IOT&E <p>Title: OT&E (1)</p>	1.740	0.849	1.924

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
<p>Description: Plan, execute, and report IOT&E activities for Space Systems:</p> <p>FY 2011 Accomplishments:</p> <ul style="list-style-type: none"> - Advanced EHF Satellite Communications: Plan for OUE - Enhanced Polar System: Early Influence - Global Positioning System Block III: Early Influence - Military GPS User Equipment: Early Influence - GPS Next Generation Control Segment: Early Influence - GPS Selective Availability / Anti-Spoofing Module: Conduct MOT&E - Joint Space Operations Center Mission System: Plan for EOA - Space Based Infrared System: Plan for OUE - Spaced Based Space Surveillance: Conduct IOT&E - Space Based Space Surveillance Follow-on: Early Influence - Space Fence: Plan for EOA <p>FY 2012 Plans:</p> <ul style="list-style-type: none"> - Advanced EHF Satellite Communications: Conduct OUE - Enhanced Polar System: Plan for EOA - Global Positioning System Block III: Plan for EOA - Military GPS User Equipment: Plan for EOA - GPS Next Generation Control Segment: Early Influence - Joint Space Operations Center Mission System: Conduct OUE - Space Based Infrared System: Conduct OUE 1 - Space Based Space Surveillance Follow-on: Early Influence - Space Fence: Conduct EOA <p>FY 2013 Plans:</p> <ul style="list-style-type: none"> - Advanced EHF Satellite Communications: Conduct MOT&E - Enhanced Polar System: Conduct EOA - Global Positioning System Block III: Conduct EOA - Military GPS User Equipment: Conduct EOA - GPS Next Generation Control Segment: Early Influence - Joint Space Operations Center Mission System: Conduct OA - Space Based Infrared System: Plan for OUE 2 			

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
- Space Based Space Surveillance Follow-on: Early Influence - Space Fence: Conduct OA				
Title: OT&E (2) Description: Plan, execute, and report IOT&E activities for Weapon Systems: FY 2011 Accomplishments: - AIM-9X Block II: Conduct OA - Joint Air-to-Surface Standoff Missile Extended Range: Conduct IOT&E - Small Diameter Bomb Increment II: Plan for OA FY 2012 Plans: - AIM-9X Block II: Conduct MOT&E - B-61 Life Extension Program: Early Influence - Joint Air-to-Surface Standoff Missile Extended Range: Conduct IOT&E - Long Range Stand Off Weapon: Early Influence - Small Diameter Bomb Increment II: Conduct OA FY 2013 Plans: - AIM-9X Block II: Complete MOT&E - AIM-120C Electronic Protection Improvement Program (AIM-120C EPIP): Conduct MOT&E - B-61 Life Extension Program: Early Influence - Hard Target Void Sensing Fuze: Conduct OA - Joint Air-to-Surface Standoff Missile Extended Range: Publish Final Report - Long Range Stand Off Weapon: Early Influence - Small Diameter Bomb Increment II: Complete OA		1.372	1.950	5.526
Title: OT&E (3) Description: Plan, execute, and report IOT&E activities for Command, Control, Communications, Computer, and Intelligence (C4I) Programs FY 2011 Accomplishments: - Three Dimensional Expeditionary Long Range Radar: Plan for EOA - Air Operations Center as a Weapon System: Plan for OA - B-1 Fully Integrated Data Link: Conduct IOT&E		2.432	2.572	3.913

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
<ul style="list-style-type: none"> - B-2 Extremely High Frequency Satellite Communications and Computer Upgrade Program (B-2 EHF SATCOM): Conduct IOT&E - Battle Control System – Fixed: Plan for IOT&E - Common Link Integration Processor: Conduct IOT&E - Expeditionary Combat Support System: Plan for OA - Family of Advanced Beyond Line Of Sight Terminals: Plan for OA - Global Hawk Spirals 4 Multiple Platform Radar Technology Insertion Program: Plan for IOT&E - Integrated Broadcast Service: Plan for MOT&E - Joint Precision Approach & Landing System: Early Influence - Key Management Infrastructure: Conduct IOT&E - MQ-9 Airborne Signals Intelligence Payload 2C: Conduct OA <p>FY 2012 Plans:</p> <ul style="list-style-type: none"> - Three Dimensional Expeditionary Long Range Radar: Plan for EOA - Air Force Integrated Personnel and Pay System: Early Influence - Air Operations Center as a Weapon System: Plan for EOA - B-1 Fully Integrated Data Link: Publish Final Report - Battle Control System – Fixed: Conduct IOT&E - Command and Control Air Operation Suite: Plan for OA - Command and Control Information Services: Plan for OA - Expeditionary Combat Support System: Conduct OA - Family of Advanced Beyond Line Of Sight Terminals: Plan for OA - Global Hawk Spiral 4 Multiple Platform Radar Technology Insertion Program: Plan for IOT&E - Integrated Broadcast Service: Plan for MOT&E - Joint Precision Approach & Landing System: Early Influence - MQ-9 Airborne Signals Intelligence Payload 2C: Plan for IOT&E <p>FY 2013 Plans:</p> <ul style="list-style-type: none"> - Three Dimensional Expeditionary Long Range Radar: Conduct EOA - Air Force Integrated Personnel and Pay System: Plan for EOA - Air Operations Center as a Weapon System: Conduct EOA - Command and Control Air Operation Suite: Conduct OA - Command and Control Information Services: Conduct OA - Expeditionary Combat Support System: Conduct IOT&E - Family of Advanced Beyond Line Of Sight Terminals: Conduct OA 				

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C. Accomplishments/Planned Programs (\$ in Millions)	FY 2011	FY 2012	FY 2013
- Global Hawk Spiral 4 Multiple Platform Radar Technology Insertion Program: Plan for IOT&E - Integrated Broadcast Service: Conduct MOT&E - Joint Precision Approach & Landing System: Early Influence - MQ-9 Airborne Signals Intelligence Payload 2C: Conduct IOT&E			
Title: OT&E (4) Description: Plan, execute, and report IOT&E activities for Combat Support Programs FY 2011 Accomplishments: - Joint Counter Radio-Controlled Improvised Explosive Device EW: Plan for OA - Joint Mission Planning System: Conduct IOT&E FY 2012 Plans: - Joint Counter Radio-Controlled Improvised Explosive Device EW: Conduct MOT&E - Joint Mission Planning System: Publish Final Report FY 2013 Plans: - Integrated Aircrew Ensemble: Conduct OA - Joint Counter Radio-Controlled Improvised Explosive Device EW: Conduct MOT&E	1.304	0.031	0.147
Accomplishments/Planned Programs Subtotals	20.278	17.754	16.197

D. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• O&M AF PE 0207426, AFOTEC O&...: AFOTEC O&M	35.810	35.968	34.274	0.000	34.274	34.466	34.334	34.675	35.601	0.000	0.000

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.