

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force										DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support					R-1 ITEM NOMENCLATURE PE 0605712F: Initial Operational Test & Evaluation							
COST (\$ in Millions)	All Prior Years	FY 2012	FY 2013 [#]	FY 2014 Base	FY 2014 OCO ^{##}	FY 2014 Total	FY 2015	FY 2016	FY 2017	FY 2018	Cost To Complete	Total Cost
Total Program Element	-	17.754	16.197	13.610	-	13.610	14.019	13.351	13.098	13.334	Continuing	Continuing
660191: Initial Operational Test and Eval	-	17.754	16.197	13.610	-	13.610	14.019	13.351	13.098	13.334	Continuing	Continuing
Quantity of RDT&E Articles		0	0	0		0	0	0	0	0		
[#] FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012												
^{##} The FY 2014 OCO Request will be submitted at a later date												
A. Mission Description and Budget Item Justification												
<p>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 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 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. This is a level of effort program element driven by Congressionally and DoD acquisition mandated requirements for operational testing.</p>												
<p>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 for operations required for general test and evaluation.</p>												

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force				DATE: April 2013		
APPROPRIATION/BUDGET ACTIVITY		R-1 ITEM NOMENCLATURE				
3600: Research, Development, Test & Evaluation, Air Force		PE 0605712F: Initial Operational Test & Evaluation				
BA 6: RDT&E Management Support						
B. Program Change Summary (\$ in Millions)	FY 2012	FY 2013	FY 2014 Base	FY 2014 OCO	FY 2014 Total	
Previous President's Budget	17.754	16.197	14.790	-	14.790	
Current President's Budget	17.754	16.197	13.610	-	13.610	
Total Adjustments	0.000	0.000	-1.180	-	-1.180	
• Congressional General Reductions	-	0.000				
• Congressional Directed Reductions	-	0.000				
• Congressional Rescissions	0.000	0.000				
• Congressional Adds	-	0.000				
• Congressional Directed Transfers	-	0.000				
• Reprogrammings	0.000	0.000				
• SBIR/STTR Transfer	0.000	0.000				
• Other Adjustments	0.000	0.000	-1.180	-	-1.180	
Change Summary Explanation						
FY14: \$1.180M decrease reflects a realignment for higher DoD priorities.						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2012	FY 2013	FY 2014
Title: Air Systems OT&E				13.102	6.298	7.133
Description: Plan, execute and report OT&E for Air Systems						
FY 2012 Accomplishments:						
- ALR-69A Radar Warning Receiver (ALR-69A): Conduct IOT&E						
- AWACS Block 40/45 (AWACS Block 40/45): Conduct FOT&E						
- B-52 COmbat NEtwork Communications Technology (CONNECT): Conduct OA						
- C-130 Avionics Modernization Program (C-130 AMP): Conduct IOT&E						
- C-5 Core Mission Computer and Weather Radar Program (C-5 CMC/WX Radar): Early Influence						
- Common Rescue Helicopter (CRH): Early Influence						
- Diminishing Manufacturing Sources Replacement of Avionics Global Operations and Navigation (E-3 DRAGON): Plan for OA 1						
- E-XX National Airborne Operations Center (E-XX NAOC): Early Influence						
- F-15 Mark XIIA Mode 5 (F-15 Mode 5): Conduct IOT&E						
- F-15E Radar Modernization Program (F-15E RMP): Conduct IOT&E						
- F-22A FOT&E 3.1 (F-22A 3.1): Complete FOT&E						
- F-22A Increment 3.2A (F-22A 3.2A): Plan for FOT&E						
- F-22A Increment 3.2B (F-22A 3.2B): Early Influence						
- HC/MC-130 Recapitalization (HC/MC-130 RECAP): Conduct IOT&E						

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force		DATE: April 2013		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
<ul style="list-style-type: none"> - KC-46A Replacement Tanker (KC-46A): Plan for OA 1 - Large Aircraft Infrared Countermeasures (LAIRCM) Phase II: Publish Final Report - Miniature Air Launched Decoy-Jammer (MALD-J): Conduct IOT&E - MQ-9 Hunter-Killer (MQ-9 Block 5): Conduct OA - QF-16: Conduct EOA <p>FY 2013 Plans:</p> <ul style="list-style-type: none"> - Airborne Warning and Control System (AWACS Block 40/45): Conduct IOT&E - B-52 COnbat NEtwork Communications Technology (B-52 CONECT): Conduct IOT&E - C-130 Avionics Modernization Program (C-130 AMP): Conduct IOT&E - C-5 Core Mission Computer and Weather Radar Program (C-5 CMC/WX Radar): Early Influence - Common Rescue Helicopter (CRH): Early Influence - Diminishing Manufacturing Sources Replacement of Avionics Global Operations and Navigation (E-3 DRAGON): Conduct OA1 - E-XX National Airborne Operations Center (E-XX NAOC): Early Influence - F-15E Radar Modernization Program (F-15E RMP): Complete IOT&E - F-16 Combat Avionics Programmed Extension Suite (F-16 CAPES): Early Influence - F-22A Increment 3.2A (F-22A 3.2A): Plan for FOT&E - F-22A Increment 3.2B (F-22A 3.2B): Early Influence - HC/MC-130 Recapitalization (HC/MC-130 RECAP): Publish Final Report - KC-46A Replacement Tanker (KC-46A): Conduct OA 1 - Miniature Air Launched Decoy-Jammer (MALD-J): Complete IOT&E - MQ-9 Hunter-Killer (MQ-9 Block 5): Plan for FOT&E - Presidential Aircraft Recapitalization (PAR): Early Influence - QF-16: Conduct OA and IOT&E <p>FY 2014 Plans:</p> <ul style="list-style-type: none"> - AC-130J: Conduct OA - C-130 Avionics Modernization Program (C-130 AMP): Publish Final Report - C-5 Core Mission Computer and Weather Radar Program (C-5 CMC/WX Radar): Conduct OA - Common Rescue Helicopter (CRH): Plan for OA - Diminishing Manufacturing Sources Replacement of Avionics Global Operations and Navigation (E-3 DRAGON): Plan for OA2 - E-XX National Airborne Operations Center (E-XX NAOC): Early Influence - Distributed Common Ground System SR 3.0 (AF DCGS SR 3.0): Early Influence - F-16 Combat Avionics Programmed Extension Suite (F-16 CAPES): Early Influence - F-22A Increment 3.2A (F-22A 3.2A): Conduct FOT&E 				

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force		DATE: April 2013		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
<ul style="list-style-type: none"> - F-22A Increment 3.2B (F-22A 3.2B): Early Influence - KC-46A Replacement Tanker (KC-46A): Conduct OA 2 - MQ-9 Hunter-Killer (MQ-9 Block 5): Conduct FOT&E - Presidential Aircraft Recapitalization (PAR): Early Influence - QF-16: Complete IOT&E 				
Title: Space Systems OT&E Description: Plan, execute and report OT&E for Space Systems OT&E FY 2012 Accomplishments: <ul style="list-style-type: none"> - Advanced EHF Satellite Communications (Advanced EHF): Conduct OUE - Enhanced Polar System (EPS): Plan for EOA - Global Positioning System Block III (GPS III): Early Influence - Military GPS User Equipment (GPS MGUE): Plan for EOA - GPS Next Generation Control Segment (GPS OCX): Early Influence - Joint Space Operations Center Mission System (JMS): Conduct OUE - Mobile User Objective System (MUOS): CPlan for MOT&E - Space Based Infrared System (SBIRS): Conduct OUE 1 - Space Based Space Surveillance Follow-on (SBSS F/O): Early Influence - Space Fence: Conduct EOA - Space Situational Awareness Environmental Monitoring (SSAEM): Conduct EOA FY 2013 Plans: <ul style="list-style-type: none"> - Advanced EHF Satellite Communications (Advanced EHF): Complete OUE - Enhanced Polar System (EPS): Conduct EOA - Global Positioning System Block III (GPS III): Early Influence - Military GPS User Equipment (GPS MGUE): Conduct EOA - GPS Next Generation Control Segment (GPS OCX): Plan for OA - Joint Space Operations Center Mission System (JMS): Plan for OA - Mobile User Objective System (MUOS): Plan for MOT&E - Space Based Infrared System (SBIRS): Plan for OUE 2 - Space Based Space Surveillance Follow-on (SBSS F/O): Early Influence - Space Fence: Plan for IOT&E 		1.325	1.900	1.313

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force		DATE: April 2013		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
- Space Situational Awareness Environmental Monitoring (SSAEM): Conduct OA FY 2014 Plans: - Advanced EHF Satellite Communications (Advanced EHF): Conduct MOT&E - Enhanced Polar System (EPS): Conduct OA - Global Positioning System Block III (GPS III): Plan for OUE - Military GPS User Equipment (GPS MGUE): Plan OA - GPS Next Generation Control Segment (GPS OCX): Conduct OA - Joint Space Operations Center Mission System (JMS): Conduct OA - Mobile User Objective System (MUOS): Conduct MOT&E - Space Based Infrared System (SBIRS): Plan for OUE 2 - Space Based Space Surveillance Follow-on (SBSS F/O): Early Influence - Space Fence: Plan for IOT&E - Space Situational Awareness Environmental Monitoring (SSAEM): Plan for IOT&E				
Title: Weapons OT&E Description: Plan, execute and report OT&E for Weapons OT&E FY 2012 Accomplishments: - AIM-9X Block II: Conduct MOT&E - AIM-120C Electronic Protection Improvement Program (AIM-120C EPIP): Plan for MOT&E - B-61 Life Extension Program (B-61 LEP): Early Influence - Hard Target Void Sensing Fuze (HTVSF): Plan for OA - Joint Air-to-Surface Standoff Missile Extended Range (JASSM-ER): Conduct IOT&E - Small Diameter Bomb Increment II (SDB 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 - AIM-120C Advanced Electronic Protection Improvement Program (AIM-120C Advanced EPIP): Plan for MOT&E - B-61 Life Extension Program (B-61 LEP): Early Influence - Hard Target Void Sensing Fuze (HTVSF): Conduct OA - Joint Air-to-Surface Standoff Missile Extended Range (JASSM-ER): Publish IOT&E Report - Small Diameter Bomb Increment II (SDB II): Complete OA FY 2014 Plans:		1.935	5.221	0.404

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force		DATE: April 2013		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
<ul style="list-style-type: none"> - AIM-9X Block II: Publish Final Report - AIM-120C Electronic Protection Improvement Program (AIM-120C EPIP): Publish Final Report - AIM-120C Advanced Electronic Protection Improvement Program (AIM-120C Advanced EPIP): Conduct MOT&E - B-61 Life Extension Program (B-61 LEP): Plan for EOA - Hard Target Void Sensing Fuze (HTVSF): Complete OA - Small Diameter Bomb Increment II (SDB II): Plan for IOT&E 				
Title: C4I Programs OT&E Description: Plan, execute and report OT&E for Command, Control, Communications, Computer, and Intelligence (C4I) Programs OT&E FY 2012 Accomplishments: <ul style="list-style-type: none"> - Three Dimensional Expeditionary Long Range Radar (3DELRR): Plan for EOA - Air Force Integrated Personnel and Pay System (AF-IPPS): Early Influence - Air Operations Center as a Weapon System (AOC): Plan for OA - B-1 Fully Integrated Data Link (B-1 FIDL): Publish Final IOT&E Report - Battle Control System Fixed 3.2 (BCS-F): Conduct IOT&E - Command and Control Air Operation Suite (C2AOS): Plan for MOT&E - Distributed Common Ground System (DCGS) SR 3.0: Plan for OUE - Family of Advanced Beyond Line Of Sight Terminals (FAB T): Plan for OA - Global Hawk Spiral 4 Multiple Platform Radar Technology Insertion Program (RQ-4B BLOCK 40): Plan for OUE - Integrated Broadcast Service (IBS): Plan for MOT&E - Joint Precision Approach & Landing System (JPALS): Early Influence - MQ-9 ASIP 2C: Conduct OA-3 FY 2013 Plans: <ul style="list-style-type: none"> - Three Dimensional Expeditionary Long Range Radar (3DELRR): Conduct EOA - Air Force Integrated Personnel and Pay System (AF-IPPS): Plan for OA - Air Operations Center as a Weapon System (AOC): Plan for OA - Battle Control System Fixed (BCS-F) 3.2: Publish Final Report - Bold Quest 13: Conduct JOTA - Command and Control Air Operation Suite (C2AOS): Plan for MOT&E - Distributed Common Ground System (DCGS) SR 3.0: Plan for OUE - Dismount Detection Radar (DDR): Plan for OUE - Family of Advanced Beyond Line Of Sight Terminals (FAB T): Conduct OA 		1.383	2.641	4.721

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force		DATE: April 2013		
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>		
C. Accomplishments/Planned Programs (\$ in Millions)		FY 2012	FY 2013	FY 2014
<ul style="list-style-type: none"> - Global Hawk Spiral 4 Multiple Platform Radar Technology Insertion Program (RQ-4B Block 40): Conduct OUE - Integrated Broadcast Service (IBS): Conduct MOT&E - Joint Precision Approach & Landing System (JPALS): Early Influence - MQ-9 ASIP 2C: Complete OA 3 <p>FY 2014 Plans:</p> <ul style="list-style-type: none"> - Three Dimensional Expeditionary Long Range Radar (3DELRR): Plan for OA - Air Force Integrated Personnel and Pay System (AF-IPPS): Conduct OA - Air Operations Center as a Weapon System (AOC): Conduct OA - Command and Control Air Operation Suite (C2AOS): Conduct MOT&E - Distributed Common Ground System (DCGS) SR 3.0: Conduct OUE - Dismount Detection Radar (DDR): Conduct OUE - Family of Advanced Beyond Line Of Sight Terminals (FAB T): Conduct IOT&E - Global Hawk Spirals 4 Multiple Platform Radar Technology Insertion Program (RQ-4B Block 40): Plan for IOT&E - Joint Precision Approach & Landing System (JPALS): Early Influence - MQ-9 ASIP 2C: Conduct FOT&E 				
<p>Title: Combat Support Programs OT&E</p> <p>Description: Plan, execute and report OT&E for Combat Support Programs OT&E</p> <p>FY 2012 Accomplishments:</p> <ul style="list-style-type: none"> - Joint Counter Radio-Controlled Improvised Explosive Device EW (JCREW): Plan for OA - Joint Mission Planning System (JMPS): Plan for IOT&E <p>FY 2013 Plans:</p> <ul style="list-style-type: none"> - Integrated Aircrew Ensemble (IAE): Plan for OA - Joint Counter Radio-Controlled Improvised Explosive Device EW (JCREW): Plan OA - Joint Mission Planning System (JMPS): Conduct IOT&E <p>FY 2014 Plans:</p> <ul style="list-style-type: none"> - Integrated Aircrew Ensemble (IAE): Conduct OA - Joint Counter Radio-Controlled Improvised Explosive Device EW (JCREW): Conduct MOT&E 		0.009	0.137	0.039
Accomplishments/Planned Programs Subtotals		17.754	16.197	13.610

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force		DATE: April 2013
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>	
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.		