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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2017 Air Force **Date:** February 2016

<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0605712F / <i>Initial Operational Test &amp; Evaluation</i>
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COST (\$ in Millions)	Prior Years	FY 2015	FY 2016	FY 2017 Base	FY 2017 OCO	FY 2017 Total	FY 2018	FY 2019	FY 2020	FY 2021	Cost To Complete	Total Cost
Total Program Element	-	8.916	10.476	11.529	0.000	11.529	11.985	11.673	11.890	12.101	Continuing	Continuing
660191: <i>Initial Operational Test and Eval</i>	-	8.916	10.476	11.529	0.000	11.529	11.985	11.673	11.890	12.101	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.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017 Base</b>	<b>FY 2017 OCO</b>	<b>FY 2017 Total</b>
Previous President's Budget	10.266	10.476	12.090	0.000	12.090
Current President's Budget	8.916	10.476	11.529	0.000	11.529
Total Adjustments	-1.350	0.000	-0.561	0.000	-0.561
• 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	-1.350	0.000			
• SBIR/STTR Transfer	0.000	0.000			
• Other Adjustments	0.000	0.000	-0.561	0.000	-0.561

**Change Summary Explanation**

FY15: Reduction of \$1.350M due to higher AF priorities

FY17: Reduction of \$446K due to higher OSD priorities; and AF inflation rates reduction of \$115K

<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
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<b>Title:</b> Air Systems OT&E	4.045	2.875	4.218
<b>Description:</b> Plan, execute and report OT&E for Air Systems			
<b>FY 2015 Accomplishments:</b>			
-Advanced Pilot Training (APT T-X): Conducted early influence			
-AWACS Block 40/45: Planned for FOT&E			
-B-2 Flex Strike P6.2 Block Upgrade: Planned for OA			
-C-130J Block Upgrade 8.1: Planned for OA			
-Combat Rescue Helicopter (CRH): Planned for OA1			
-(Diminishing Manufacturing Sources) Replacement of Avionics for Global Operations and Navigation (E-3 DRAGON): Planned for OA			
-F-15 Eagle Passive and Active Warning and Survivability System (F-15 EPAWSS): Conducted early influence			
-F-22A 3.2A: Conducted FOT&E			
-F-22A 3.2B: Conducted OA			
-Global Hawk Ground Segment Modernization Program GH GSMP): Conducted early influence			
-Joint Mission Planning System RQ-4 Mission Planning Element (JMPS RQ-4 MPE): Conducted early influence			
-JSTARS Recap: Conducted early influence			

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<ul style="list-style-type: none"> <li>-KC-46A: Conducted OA</li> <li>-Miniature Air Launched Decoy - Jammer (MALD-J): Conducted FOT&amp;E</li> <li>-MQ-9 Increment 1: Planned for FOT&amp;E</li> <li>-Presidential Aircraft Recapitalization (PAR): Conducted early influence</li> <li>-RQ-4B Global Hawk Block 30 Multi-Spectral Intelligence (MSI): Conducted early influence</li> <li>-UH-1N Replacement: Conducted early influence</li> </ul> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>-Advanced Pilot Training (APT T-X): Conduct early influence</li> <li>-AWACS Block 40/45: Conduct FOT&amp;E</li> <li>-B-2 Flex Strike P6.2 Block Upgrade: Conduct OA</li> <li>-C-130J Block Upgrade 8.1: Conduct OA</li> <li>-Combat Rescue Helicopter (CRH): Conduct OA1</li> <li>-(Diminishing Manufacturing Sources) Replacement of Avionics for Global Operations and Navigation (E-3 DRAGON): Conduct OA</li> <li>-F-15 Eagle Passive and Active Warning and Survivability System (F-15 EPAWSS): Conduct early influence</li> <li>-F-22A 3.2B: Complete OA</li> <li>-Global Hawk Ground Segment Modernization Program GH GSMP): Conduct early influence</li> <li>-Joint Mission Planning System RQ-4 Mission Planning Element (JMPS RQ-4 MPE): Plan for IOT&amp;E</li> <li>-JSTARS Recap: Plan for EOA</li> <li>-KC-46A: Complete OA</li> <li>-Miniature Air Launched Decoy - Jammer (MALD-J): Complete FOT&amp;E</li> <li>-MQ-9 Increment 1: Conduct FOT&amp;E</li> <li>-Presidential Aircraft Recapitalization (PAR): Plan for OA</li> <li>-RQ-4B Global Hawk Block 30 Multi-Spectral Intelligence (MSI): Plan for OA and OUE</li> <li>-UH-1N Replacement: Plan for OUE</li> <li>-Conduct other planning and operational testing for new air programs as the requirement becomes known to AFOTEC</li> </ul> <p><b>FY 2017 Plans:</b></p> <ul style="list-style-type: none"> <li>-Advanced Pilot Training (APT T-X): Plan for OA</li> <li>-B-2 Flex Strike P6.2 Block Upgrade: Conduct IOT&amp;E</li> <li>-C-130J Block Upgrade 8.1: Conduct IOT&amp;E</li> <li>-Combat Rescue Helicopter (CRH): Plan for OA2</li> <li>-(Diminishing Manufacturing Sources) Replacement of Avionics for Global Operations and Navigation (E-3 DRAGON): Plan for IOT&amp;E</li> </ul>			

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2017 Air Force		<b>Date:</b> February 2016		
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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<ul style="list-style-type: none"> <li>-F-15 Eagle Passive and Active Warning and Survivability System (F-15 EPAWSS): Plan for OA</li> <li>-F-22A 3.2B: Conduct IOT&amp;E</li> <li>-Global Hawk Ground Segment Modernization Program GH GSMP): Plan for OA</li> <li>-Joint Mission Planning System RQ-4 Mission Planning Element (JMPS RQ-4 MPE): Conduct IOT&amp;E</li> <li>-JSTARS Recap: Conduct EOA</li> <li>-KC-46A: Conduct IOT&amp;E</li> <li>-Presidential Aircraft Recapitalization (PAR): Conduct OA</li> <li>-RQ-4B Global Hawk Block 30 Multi-Spectral Intelligence (MSI): Conduct OA and OUE</li> <li>-UH-1N Replacement: Conduct OUE</li> <li>-Conduct other planning and operational testing for new air programs as the requirement becomes known to AFOTEC</li> </ul>				
<p><b>Title:</b> Space Systems OT&amp;E</p> <p><b>Description:</b> Plan, execute and report OT&amp;E for Space Systems OT&amp;E</p> <p><b>FY 2015 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>-Advanced Extremely High Frequency Satellite Communications (Advanced EHF): Conducted MOT&amp;E</li> <li>-Airborne Launch Control System (ALCS): Conducted early influence</li> <li>-Enhanced Polar System (EPS): Planned for MOT&amp;E</li> <li>-Global Broadcast Service (GBS): Planned for FOT&amp;E</li> <li>-Global Positioning System Block III (GPS III): Conducted early influence</li> <li>-Military GPS User Equipment (GPS MGUE): Conducted OA</li> <li>-GPS Next Generation Control Segment (GPS OCX): Conducted early influence</li> <li>-Inter-Continental Ballistic Missile Fuze (ICBM FUZE): Conduct early influence</li> <li>-Integrated Strategic Planning and Analysis Network Increment 4 (ISPAN Inc IV): Conducted OA</li> <li>-Joint Space Operations Center (JSpOC) Mission System (JMS): Planned for OUE 1 and 2</li> <li>-Space Based Infrared System (SBIRS): Planned for OUE</li> <li>-Space Fence: Conducted early influence</li> <li>-Weather System Follow-on (WSF): Conducted early influence</li> </ul> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>-Advanced Extremely High Frequency Satellite Communications (Advanced EHF): Plan for FOT&amp;E</li> <li>-Airborne Launch Control System (ALCS): Conduct early influence</li> <li>-Enhanced Polar System (EPS): Plan for MOT&amp;E</li> <li>-Global Broadcast Service (GBS): Conduct FOT&amp;E</li> <li>-Global Positioning System Block III (GPS III): Conduct early influence</li> </ul>		1.057	1.483	1.076

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<b>Appropriation/Budget Activity</b> 3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 6: RDT&amp;E Management Support</i>		<b>R-1 Program Element (Number/Name)</b> PE 0605712F / <i>Initial Operational Test &amp; Evaluation</i>		
<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<ul style="list-style-type: none"> <li>-Military GPS User Equipment (GPS MGUE): Complete OA</li> <li>-GPS Next Generation Control Segment (GPS OCX): Conduct early influence</li> <li>-Inter-Continental Ballistic Missile Fuze (ICBM FUZE): Conduct early influence</li> <li>-Integrated Strategic Planning and Analysis Network Increment 4 (ISPAN Inc IV): Conduct OUE</li> <li>-Joint Space Operations Center (JSpOC) Mission System (JMS): Conduct OUE 1 and 2</li> <li>-Space Based Infrared System (SBIRS): Conduct OUE</li> <li>-Space Fence: Conduct early influence</li> <li>-Weather System Follow-on (WSF): Conduct early influence</li> <li>-Conduct other planning and operational testing for new space system programs as the requirement becomes known to AFOTEC</li> </ul> <p><b>FY 2017 Plans:</b></p> <ul style="list-style-type: none"> <li>-Advanced Extremely High Frequency Satellite Communications (Advanced EHF): Plan for FOT&amp;E</li> <li>-Airborne Launch Control System (ALCS): Plan for EOA</li> <li>-Enhanced Polar System (EPS): Plan for MOT&amp;E</li> <li>-Global Positioning System Block III (GPS III): Plan for OA</li> <li>-Military GPS User Equipment (GPS MGUE): Conduct OUE</li> <li>-GPS Next Generation Control Segment (GPS OCX): Plan for OA</li> <li>-Inter-Continental Ballistic Missile Fuze (ICBM FUZE): Plan for OA</li> <li>-Integrated Strategic Planning and Analysis Network Increment 4 (ISPAN Inc IV): Plan for IOT&amp;E</li> <li>-Joint Space Operations Center (JSpOC) Mission System (JMS): Conduct IOT&amp;E</li> <li>-Space Based Infrared System (SBIRS): Conduct IOT&amp;E</li> <li>-Space Fence: Plan for IOT&amp;E</li> <li>-Weather System Follow-on (WSF): Conduct early influence</li> <li>-Conduct other planning and operational testing for new space system programs as the requirement becomes known to AFOTEC</li> </ul>				
<p><b>Title:</b> Weapons OT&amp;E</p> <p><b>Description:</b> Plan, execute and report OT&amp;E for Weapons OT&amp;E</p> <p><b>FY 2015 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>-AIM-120C Advanced Electronic Protection Improvement Program (AIM-120C Advanced EPIP): Planned for MOT&amp;E</li> <li>-AIM-120C Electronic Protection Improvement Program (AIM-120C EPIP): Completed MOT&amp;E</li> <li>-AIM-9X Block II: Completed MOT&amp;E</li> <li>-AIM-9X Block II 9.4xx (AIM-9X Blk II 9.4xx): Conducted early influence</li> <li>-B-61 Life Extension Program (B-61 LEP): Conducted early influence</li> <li>-Hard Target Void Sensing Fuze (HTVSF): Planned for MOT&amp;E</li> </ul>		0.833	3.283	4.643

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<ul style="list-style-type: none"> <li>-Long-Range Stand-Off Weapon (LRSO): Conducted early influence</li> <li>-Offensive Anti-Surface Warfare Increment I (OASuW INC 1): Conducted early influence</li> <li>-Small Diameter Bomb II (SDB II): Completed OA</li> </ul> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>-AIM-120C Advanced Electronic Protection Improvement Program (AIM-120C Advanced EPIP): Conduct MOT&amp;E</li> <li>-AIM-9X Block II 9.4xx (AIM-9X Blk II 9.4xx): Conduct early influence</li> <li>-B-61 Life Extension Program (B-61 LEP): Plan for OA</li> <li>-Hard Target Void Sensing Fuze (HTVSF): Conduct MOT&amp;E</li> <li>-Long-Range Stand-Off Weapon (LRSO): Conduct early influence</li> <li>-Offensive Anti-Surface Warfare/Increment I (OASuW Inc I): Plan for OUE</li> <li>-Small Diameter Bomb II (SDB II): Plan for MOT&amp;E</li> <li>-Conduct other planning and operational testing for new weapons system programs as the requirement becomes known to AFOTEC</li> </ul> <p><b>FY 2017 Plans:</b></p> <ul style="list-style-type: none"> <li>-AIM-120C Advanced Electronic Protection Improvement Program (AIM-120C Advanced EPIP): Conduct MOT&amp;E 2</li> <li>-AIM-9X Block II 9.4xx (AIM-9X Blk II 9.4xx): Plan for MOT&amp;E</li> <li>-B-61 Life Extension Program (B-61 LEP): Conduct OA</li> <li>-Long-Range Stand-Off Weapon (LRSO): Conduct early influence</li> <li>-Offensive Anti-Surface Warfare/Increment I (OASuW Inc I): Conduct OUE</li> <li>-Small Diameter Bomb II (SDB II): Conduct MOT&amp;E</li> <li>-Conduct other planning and operational testing for new weapons system programs as the requirement becomes known to AFOTEC</li> </ul>				
<b>Title:</b> C4ISR OT&E		2.853	2.244	1.279
<b>Description:</b> Plan, execute and report OT&E for C4ISR OT&E				
<p><b>FY 2015 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>-Three Dimensional Expeditionary Long Range Radar (3DELRR): Conducted early influence</li> <li>-Air Force Distributed Common Ground System SR 3.0 (AF DCGS SR 3.0): Conducted OUE</li> <li>-Air Force Integrated Personnel and Pay System (AF-IPPS): Conducted early influence</li> <li>-Air Operations Center (AOC WS Inc 10.2): Conducted OA</li> <li>-Command and Control Air Operations Suite/Command and Control Information Services (C2AOS-C2IS): Conducted early influence</li> </ul>				

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<ul style="list-style-type: none"> <li>-Enclave Control Node (ECN): Conducted OUE</li> <li>-Enhanced Technical Information Management System (ETIMS): Conducted OUE</li> <li>-F-22A Tactical Mandates Program (TACMAN): Conducted early influence</li> <li>-Family of Advanced Beyond Line Of Sight Terminals (FAB T): Conducted OA</li> <li>-Ground Based Strategic Deterrence (GBSD): Conducted early influence</li> <li>-RQ-4 Global Hawk Block 30/Airborne Signals Intelligence Payload (ASIP): Planned for FOT&amp;E</li> <li>-RQ-4B Global Hawk Block 40: Conducted IOT&amp;E</li> <li>-Wide Area Surveillance (WAS): Conducted early influence</li> </ul> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>-Three Dimensional Expeditionary Long Range Radar (3DELRR): Conduct early influence</li> <li>-Air Force Distributed Common Ground System SR 3.0 (AF DCGS SR 3.0): Plan for IOT&amp;E</li> <li>-Air Force Integrated Personnel and Pay System (AF-IPPS): Conduct early influence</li> <li>-Air Operations Center (AOC WS Inc 10.2): Conduct IOT&amp;E</li> <li>-Command and Control Air Operations Suite/Command and Control Information Services (C2AOS-C2IS): Conduct early influence</li> <li>-Enclave Control Node (ECN): Conduct OUE</li> <li>-F-22A TACMAN: Conduct early influence</li> <li>-Family of Advanced Beyond Line Of Sight Terminals (FAB T): Plan for IOT&amp;E</li> <li>-Ground Based Strategic Deterrence (GBSD): Conduct early influence</li> <li>-Presidential National Voice Conferencing: Conduct early influence</li> <li>-RQ-4 Global Hawk Block 30/Airborne Signals Intelligence Payload (ASIP): Plan for FOT&amp;E</li> <li>-RQ-4B Global Hawk Block: Complete IOT&amp;E</li> <li>-Wide Area Surveillance (WAS): Conduct early influence</li> <li>-Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC</li> </ul> <p><b>FY 2017 Plans:</b></p> <ul style="list-style-type: none"> <li>-Three Dimensional Expeditionary Long Range Radar (3DELRR): Plan for OA</li> <li>-Air Force Distributed Common Ground System SR 3.0 (AF DCGS SR 3.0): Conduct IOT&amp;E</li> <li>-Air Force Integrated Personnel and Pay System (AF-IPPS): Conduct early influence</li> <li>-Air Operations Center (AOC WS Inc 10.2): Complete IOT&amp;E</li> <li>-Command and Control Air Operations Suite/Command and Control Information Services (C2AOS-C2IS): Plan for MOT&amp;E</li> <li>-Enclave Control Node (ECN): Plan for OUE2</li> <li>-F-22A TACMAN: Plan for OA</li> <li>-Family of Advanced Beyond Line Of Sight Terminals (FAB T): Conduct IOT&amp;E</li> <li>-Ground Based Strategic Deterrence (GBSD): Conduct early influence</li> </ul>				

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<b>C. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2015</b>	<b>FY 2016</b>	<b>FY 2017</b>
<ul style="list-style-type: none"> <li>-Presidential National Voice Conferencing: Conduct early influence</li> <li>-RQ-4 Global Hawk Block 30/Airborne Signals Intelligence Payload (ASIP): Plan for FOT&amp;E</li> <li>-Wide Area Surveillance (WAS): Plan for OA</li> <li>-Conduct other planning and operational testing for new C4ISR programs as the requirement becomes known to AFOTEC</li> </ul>				
<p><b>Title:</b> Combat Support OT&amp;E</p> <p><b>Description:</b> Plan, execute and report OT&amp;E for Combat Support OT&amp;E</p> <p><b>FY 2015 Accomplishments:</b></p> <ul style="list-style-type: none"> <li>-Integrated Aircrew Ensemble (IAE): Conducted OA</li> <li>-Joint Mission Planning System B-2 (JMPS B-2): Planned for IOT&amp;E</li> <li>-Joint Mission Planning System B-52 (JMPS B-52): Conducted IOT&amp;E</li> <li>-Modular Handgun System (MHS): Planned for OA</li> <li>-Mission Planning System Increment 5 (MPS Inc 5): Plan for IOT&amp;E</li> </ul> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>-Integrated Aircrew Ensemble (IAE): Plan for IOT&amp;E</li> <li>-Joint Mission Planning System B-2 (JMPS B-2): Plan for IOT&amp;E</li> <li>-Modular Handgun System (MHS): Conduct OA</li> <li>-Mission Planning System Increment 5 (MPS Inc 5): Conduct IOT&amp;E</li> <li>-Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC</li> </ul> <p><b>FY 2017 Plans:</b></p> <ul style="list-style-type: none"> <li>-Integrated Aircrew Ensemble (IAE): Conduct IOT&amp;E</li> <li>-Joint Mission Planning System B-2 (JMPS B-2): Conduct IOT&amp;E</li> <li>-Modular Handgun System (MHS): Plan for MOT&amp;E</li> <li>-Mission Planning System Increment 5 (MPS Inc 5): Conduct IOT&amp;E 2</li> <li>-Conduct other planning and operational testing for new combat support programs as the requirement becomes known to AFOTEC</li> </ul>		0.128	0.591	0.313
<b>Accomplishments/Planned Programs Subtotals</b>		8.916	10.476	11.529
<b>D. Other Program Funding Summary (\$ in Millions)</b>				
N/A				

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**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 / *Initial Operational Test & Evaluation*

**D. Other Program Funding Summary (\$ in Millions)**

**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.

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