

## UNCLASSIFIED

PE NUMBER: 0605712F

PE TITLE: Initial Operational Test &amp; Evaluation

## Exhibit R-2, RDT&amp;E Budget Item Justification

DATE

February 2005

## BUDGET ACTIVITY

## 06 RDT&amp;E Management Support

## PE NUMBER AND TITLE

## 0605712F Initial Operational Test &amp; Evaluation

| Cost (\$ in Millions)                | FY 2004<br>Actual | FY 2005<br>Estimate | FY 2006<br>Estimate | FY 2007<br>Estimate | FY 2008<br>Estimate | FY 2009<br>Estimate | FY 2010<br>Estimate | FY 2011<br>Estimate | Cost to<br>Complete | Total |
|--------------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------|
| Total Program Element (PE) Cost      | 44.343            | 30.567              | 34.615              | 33.739              | 31.548              | 31.565              | 31.937              | 32.025              | Continuing          | TBD   |
| 0191 Initial Operational Test & Eval | 44.343            | 30.567              | 34.615              | 33.739              | 31.548              | 31.565              | 31.937              | 32.025              | Continuing          | TBD   |

(U) **A. Mission Description and Budget Item Justification**

Initial Operational Test and Evaluation (IOT&E) is conducted to determine the operational effectiveness and suitability 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 Congressionally mandated 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. This PE funds the OT participation in Combined Developmental Test/Operational Test (DT/OT), 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) and 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); Combat Support; and Test 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 program element is in Budget Activity 6, RDT&E Management Support, because it funds weapon system IOT&E tests conducted to evaluate a system's operational effectiveness and suitability and to identify any operational deficiencies or need for modifications in support of the acquisition process.

(U) **B. Program Change Summary (\$ in Millions)**

|   | <u>FY 2004</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> |
|---|----------------|----------------|----------------|----------------|
| (U) Previous President's Budget         | 34.344         | 28.839         | 32.776         | 33.331         |
| (U) Current PBR/President's Budget      | 44.343         | 30.567         | 34.615         | 33.739         |
| (U) Total Adjustments                   | 9.999          | 1.728          |                |                |
| (U) Congressional Program Reductions    |                | -0.272         |                |                |
| Congressional Rescissions               |                |                |                |                |
| Congressional Increases                 |                | 2.000          |                |                |
| Reprogrammings                          | 9.999          |                |                |                |
| SBIR/STTR Transfer                      |                |                |                |                |
| (U) <u>Significant Program Changes:</u> |                |                |                |                |

R-1 Shopping List - Item No. 107-2 of 107-12

Exhibit R-2 (PE 0605712F)

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

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06 RDT&amp;E Management Support

## PE NUMBER AND TITLE

0605712F Initial Operational Test &amp; Evaluation

## PROJECT NUMBER AND TITLE

0191 Initial Operational Test &amp; Eval

| Cost (\$ in Millions)                | FY 2004<br>Actual | FY 2005<br>Estimate | FY 2006<br>Estimate | FY 2007<br>Estimate | FY 2008<br>Estimate | FY 2009<br>Estimate | FY 2010<br>Estimate | FY 2011<br>Estimate | Cost to<br>Complete | Total |
|--------------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------|
| 0191 Initial Operational Test & Eval | 44.343            | 30.567              | 34.615              | 33.739              | 31.548              | 31.565              | 31.937              | 32.025              | Continuing          | TBD   |
| Quantity of RDT&E Articles           | 0                 | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   |                     |       |

(U) **A. Mission Description and Budget Item Justification**

Initial Operational Test and Evaluation (IOT&E) is conducted to determine the operational effectiveness and suitability 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 Congressionally mandated 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. This PE funds the OT participation in Combined Developmental Test/Operational Test (DT/OT), 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) and 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); Combat Support; and Test 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 program element is in Budget Activity 6, RDT&E Management Support, because it funds weapon system IOT&E tests conducted to evaluate a system's operational effectiveness and suitability and to identify any operational deficiencies or need for modifications in support of the acquisition process.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

(U) (U) CATEGORY: AIR SYSTEMS. Plan, execute, and report IOT&amp;E activities, to include:

| <u>FY 2004</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</u> |
|----------------|----------------|----------------|----------------|
| 35.050         | 19.950         | 19.374         | 20.948         |

FY04

- ALR-69A Radar Warning Receiver Capability Improvement (ALR-69A RWR CI): Conduct IOT&E.
- Advanced Strategic and Tactical Infrared Expendable (ASTE): Complete Transport Phase IOT&E.
- B-1B Conventional Mission Upgrade Program (CMUP BLK F): Complete IOT&E.
- B-52 Avionics Mid-Life Improvement (AMI): Plan and conduct IOT&E Phase I.
- C-130X Aircraft Modernization Program (AMP): Conduct planning for OA.
- C-17 Global Air Traffic Management (GATM): Conduct Block 14 IOT&E.
- Compass Call: Conduct DT/OT on Block 35.

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## BUDGET ACTIVITY

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0191 Initial Operational Test &amp; Eval

- CV-22: Continue DT/OT and OA. Complete advanced planning for OAs, DT/OT and IOT&E.
- E-10A: Plan for EOA.
- F-16 Common Configuration Improvement Program Multi Function Info Distro System Low Volume Terminal (CCIP MIDS LVT): Planning for IOT&E.
- F/A-22: Conduct IOT&E.
- Global Hawk High Altitude Endurance Unmanned Aerial Vehicle (HAE UAV): Conduct OA and planning for IOT&E.
- Large Aircraft Infrared Counter Measure (LAIRCM): Conduct IOT&E.
- Miniature Air Launched Decoy (MALD): Early involvement.
- MQ-9: Early involvement.
- Panoramic Night Vision Goggles (PNVG): Conduct IOT&E.
- Other systems.

## FY05

- AOA-10A Precision Engagement (AOA-10A PE): Early Involvement.
- ALR-69A Radar Warning Receiver Capability Improvement (ALR-69A RWR CI): Conduct C-130 IOT&E.
- B-2 Radar Modernization Program (RMP): Early Involvement.
- B-52 Avionics Mid-Life Improvement (AMI): Conduct IOT&E phase 2.
- C-130X Aircraft Modernization Program (AMP): Early Involvement.
- CV-22: Continue DT/OT.
- E-10A: Conduct EOA.
- F-16 Common Configuration Improvement Program Multi Function Info Distro System Low Volume Terminal (CCIP MIDS LVT): Conduct IOT&E.
- F/A-22: Conduct FOT&E.
- Global Hawk High Altitude Endurance Unmanned Aerial Vehicle (HAE UAV): Conduct DT/OT and planning for IOT&E.
- Miniature Air Launched Decoy (MALD): Early involvement.
- MQ-9: Conduct OA.
- Other systems.

## FY06

- ALR-69A Radar Warning Receiver Capability Improvement (ALR-69A RWR CI): Conduct F-16 IOT&E.

Project 0191

R-1 Shopping List - Item No. 107-4 of 107-12

Exhibit R-2a (PE 0605712F)

|  |       |   |  |       |       |       |       |
|--|-------|---|--|-------|-------|-------|-------|
| <b>Exhibit R-2a, RDT&amp;E Project Justification</b>   |       | <b>DATE</b><br><b>February 2005</b>   |  |       |       |       |       |
| <b>BUDGET ACTIVITY</b><br><b>06 RDT&amp;E Management Support</b>   |       | <b>PE NUMBER AND TITLE</b><br><b>0605712F Initial Operational Test &amp; Evaluation</b> | <b>PROJECT NUMBER AND TITLE</b><br><b>0191 Initial Operational Test &amp; Eval</b> |       |       |       |       |
| <ul style="list-style-type: none"> <li>- AOA-10A Precision Engagement (AOA-10A PE): Conduct IOT&amp;E.</li> <li>- B-2 Radar Modernization Program (RMP): Conduct OA.</li> <li>- C-130X Aircraft Modernization Program (AMP): Conduct OA.</li> <li>- CV-22: Conduct IOT&amp;E Phase I.</li> <li>- E-10A: Early Involvement.</li> <li>- F/A-22: Conduct FOT&amp;E.</li> <li>- F-16 Common Configuration Improvement Program Multi-Function Distribution System Low Volume Terminal (CCIP MIDS LVT): Planning for SEAD/DEAD IOT&amp;E.</li> <li>- Global Hawk High Altitude Endurance Unmanned Aerial Vehicle (HAE UAV): Planning for IOT&amp;E.</li> <li>- Miniature Air Launched Decoy (MALD): Planning for OA.</li> <li>- MQ-9: Planning for IOT&amp;E.</li> <li>- Personnel Recovery Vehicle (PRV): Early Involvement.</li> <li>- Other systems.</li> </ul> <p>FY07</p> <ul style="list-style-type: none"> <li>- AOA-10A Precision Engagement (AOA-10A PE): Conduct FOT&amp;E.</li> <li>- B-1 Threat Situational Awareness System (TSAS): Planning for IOT&amp;E.</li> <li>- B-2 Radar Modernization Program (RMP): Conduct IOT&amp;E.</li> <li>- C-130X Aircraft Modernization Program (AMP): Planning for IOT&amp;E.</li> <li>- CV-22: Conduct IOT&amp;E Phase II.</li> <li>- E-10A: Planning for OA.</li> <li>- F/A-22: Conduct FOT&amp;E.</li> <li>- F-16 Common Configuration Improvement Program Multi-Function Distribution System Low Volume Terminal (CCIP MIDS LVT): Conduct SEAD/DEAD IOT&amp;E.</li> <li>- Global Hawk High Altitude Endurance Unmanned Aerial Vehicle (HAE UAV): Conduct IOT&amp;E.</li> <li>- Miniature Air Launched Decoy (MALD): Conduct OA, planning for IOT&amp;E.</li> <li>- MQ-9: Conduct IOT&amp;E.</li> <li>- Personnel Recovery Vehicle (PRV): Early Involvement.</li> <li>- Other systems.</li> </ul> <p>(U)</p> <p>(U) (U) CATEGORY: SPACE SYSTEMS. Plan, execute, and report IOT&amp;E activities, to include:</p> <table> <tr> <td>1.701</td> <td>2.074</td> <td>1.594</td> <td>2.061</td> </tr> </table> <p>FY04</p> <ul style="list-style-type: none"> <li>- Advanced EHF: Conduct OA1.</li> </ul> |       |   |  | 1.701 | 2.074 | 1.594 | 2.061 |
| 1.701  | 2.074 | 1.594   | 2.061  |       |       |       |       |
| Project 0191   |       | R-1 Shopping List - Item No. 107-5 of 107-12  |  |       |       |       |       |
|  |       | Exhibit R-2a (PE 0605712F)  |  |       |       |       |       |

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| Exhibit R-2a, RDT&E Project Justification  |  | DATE<br><b>February 2005</b>  |
|--|--|---|
| BUDGET ACTIVITY<br><b>06 RDT&amp;E Management Support</b>  | PE NUMBER AND TITLE<br><b>0605712F Initial Operational Test &amp; Evaluation</b> | PROJECT NUMBER AND TITLE<br><b>0191 Initial Operational Test &amp; Eval</b> |
| <ul style="list-style-type: none"> <li>- Global Broadcast System (GBS): Plan and conduct DT/OT. Planning for MOT&amp;E.</li> <li>- Global Positioning Satellite (GPS): Plan and conduct OA2 and OA3.</li> <li>- National Polar-Orbit Ops Environment Satellite System (NPOESS): Plan for OA2.</li> <li>- Space Based Infrared System (SBIRS): Plan for OUE.</li> <li>- Wideband Gap Filler System (WGS): Conduct DT/OT and plan for MOT&amp;E.</li> <li>- Other systems.</li> </ul> <p>FY05</p> <ul style="list-style-type: none"> <li>- Advanced EHF: Conduct OA2.</li> <li>- Combat Commanders Integrated Command &amp; Control System (CCIC2S) Missile Warning Release (MWR): Conduct IOT&amp;E and publish final report.</li> <li>- Global Broadcast System (GBS): Conduct MOT&amp;E 1.</li> <li>- Global Positioning Satellite (GPS): Conduct OA.</li> <li>- National Polar-Orbit Ops Environment Satellite System (NPOESS): Planning for OA2.</li> <li>- Space Based Infrared System (SBIRS): Conduct OUE.</li> <li>- Space Based Radar (SBR): Conduct EOA1.</li> <li>- Transformational Satellite Communications System (TSAT): Early Involvement.</li> <li>- Wideband Gap Filler System (WGS): Planning for MOT&amp;E.</li> <li>- Other systems.</li> </ul> <p>FY06</p> <ul style="list-style-type: none"> <li>- Advanced EHF Satellite Communications (Advanced EHF): Complete OA2, planning for OA3.</li> <li>- Communication-Navigation Outage Forecasting System (C_NOFS): Early Involvement.</li> <li>- Global Broadcast System (GBS): Conduct MOT&amp;E2.</li> <li>- Global Positioning Satellite (GPS): Conduct EOA.</li> <li>- National Polar-Orbit Ops Environment Satellite System (NPOESS): Planning for OA2.</li> <li>- NPOESS User Ground Segment (NUGS): Early Involvement.</li> <li>- Operationally Responsive Spacelift (ORS): Early Involvement.</li> <li>- Space Based Infrared System (SBIRS): Conduct OUE.</li> <li>- Space Based Radar (SBR): Planning for EOA2.</li> <li>- Satellite Control Network (SCN): Early Involvement.</li> <li>- Transformational Satellite Communications System (TSAT): Conduct EOA.</li> <li>- Wideband Gap Filler System (WGS): Conduct MOT&amp;E.</li> <li>- Other systems.</li> </ul> |  |   |

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| Exhibit R-2a, RDT&E Project Justification  |  | DATE<br><b>February 2005</b>   |   |
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| <p>FY07</p> <ul style="list-style-type: none"> <li>- Advanced EHF Satellite Communications (Advanced EHF): Conduct OA3, planning for MOT&amp;E.</li> <li>- Communication-Navigation Outage Forecasting System (C_NOFS): Early Involvement.</li> <li>- Global Positioning Satellite (GPS): Planning for DT/OT.</li> <li>- National Polar-Orbit Ops Environment Satellite System (NPOESS): Conduct OA2.</li> <li>- NPOESS User Ground Segment (NUGS): Early Involvement.</li> <li>- Operationally Responsive Spacelift (ORS): Early Involvement.</li> <li>- Space Based Infrared System (SBIRS): Complete OUE.</li> <li>- Space Based Radar (SBR): Conduct EOA2.</li> <li>- Satellite Control Network (SCN): Planning.</li> <li>- Transformational Satellite Communications System (TSAT): Conduct OA1.</li> <li>- Other systems.</li> </ul> <p>(U) (U) CATEGORY: WEAPONS. Plan, execute, and report IOT&amp;E activities, to include: 2.259 4.215 6.651 2.616</p> <p>FY04</p> <ul style="list-style-type: none"> <li>- Minuteman III Safety Enhanced Reentry Vehicle (ICBM-SERV): Plan for IOT&amp;E.</li> <li>- Joint Air-to-Surface Standoff Missile (JASSM): Conduct FOT&amp;E.</li> <li>- Joint Air-to-Surface Standoff Missile Extended Range (JASSM-ER): Plan for DT/OT.</li> <li>- Joint Direct Attack Munition (JDAM MK 82): Conduct IOT&amp;E.</li> <li>- Small Diameter Bomb (SDB): Early Involvement.</li> <li>- Wind Corrected Munitions Dispense Extended Range (WCMD-ER): Conduct OA1.</li> <li>- Other systems.</li> </ul> <p>FY05</p> <ul style="list-style-type: none"> <li>- Minuteman III Safety Enhanced Reentry Vehicle (ICBM-SERV): Conduct IOT&amp;E.</li> <li>- Joint Air-to-Surface Standoff Missile (JASSM): Conduct FOT&amp;E.</li> <li>- Joint Air-to-Surface Standoff Missile Extended Range (JASSM-ER): Plan for DT/OT.</li> <li>- Joint Direct Attack Munition (JDAM MK 82): Publish final report.</li> <li>- Small Diameter Bomb (SDB): Conduct OA.</li> <li>- Wind Corrected Munitions Dispenser Extended Range (WCMD-ER): Conduct DT/OT.</li> <li>- Other systems.</li> </ul> <p>FY06</p> |  |  |   |
| Project 0191   |  | R-1 Shopping List - Item No. 107-7 of 107-12                                     |   |

Exhibit R-2a (PE 0605712F)

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|   |       |   |       |
|---|-------|---|-------|
| <b>Exhibit R-2a, RDT&amp;E Project Justification</b>  |       | <b>DATE</b><br><b>February 2005</b>   |       |
| <b>BUDGET ACTIVITY</b><br><b>06 RDT&amp;E Management Support</b>  |       | <b>PE NUMBER AND TITLE</b><br><b>0605712F Initial Operational Test &amp; Evaluation</b> |       |
|   |       | <b>PROJECT NUMBER AND TITLE</b><br><b>0191 Initial Operational Test &amp; Eval</b>      |       |
| <ul style="list-style-type: none"> <li>- Common Aero Vehicle (CAV): Early Involvement.</li> <li>- Minuteman III Safety Enhanced Reentry Vehicle (ICBM-SERV): Conduct IOT&amp;E.</li> <li>- Joint Air-to-Surface Standoff Missile (JASSM): Publish final report.</li> <li>- Joint Air-to-Surface Standoff Missile Extended Range (JASSM-ER): Conduct DT/OT and planning for IOT&amp;E.</li> <li>- Land Based Strategic Deterrent (LBSD): Early Involvement.</li> <li>- Small Diameter Bomb (SDB): Conduct IOT&amp;E.</li> <li>- Wind Corrected Munitions Dispenser Extended Range (WCMD-ER): Conduct OUE.</li> <li>- Other systems.</li> </ul> <p>FY07</p> <ul style="list-style-type: none"> <li>- Common Aero Vehicle (CAV): Early Involvement.</li> <li>- Joint Air-to-Surface Standoff Missile Extended Range (JASSM-ER): Conduct IOT&amp;E.</li> <li>- Land Based Strategic Deterrent (LBSD): Early Involvement.</li> <li>- Small Diameter Bomb (SDB): Publish final report.</li> <li>- Wind Corrected Munitions Dispenser Extended Range (WCMD-ER): Complete OUE2.</li> <li>- Other systems.</li> </ul> <p>(U) (U) CATEGORY: COMMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, AND INTELLIGENCE (C4I). Plan, execute, and report IOT&amp;E activities, to include:</p> <p>FY04</p> <ul style="list-style-type: none"> <li>- Air Operations Center as a Weapons System (AOC): Planning and testing throughout spiral development. (Includes TBMCS and TCT).</li> <li>- Family of Advanced Beyond Line Of Sight Terminals (FAB T): Conduct DT/OT and OA.</li> <li>- Ground Multi-band Terminal (GMT): Plan for IOT&amp;E.</li> <li>- Integrated Broadcast System (IBS): Conduct MOT&amp;E.</li> <li>- Joint STARS Blk 30: Plan for OUE.</li> <li>- Joint Precision Approach and Landing System (JPALS): Conduct DT/OT.</li> <li>- Mobile Approach Control System (MACS): Complete OA.</li> <li>- Other systems.</li> </ul> <p>FY05</p> <ul style="list-style-type: none"> <li>- Air Operations Center as a Weapons System (AOC): Conduct OUE.</li> <li>- Advanced Point Mensuration Tool (APMT): Conduct IOT&amp;E.</li> </ul> |       |   |       |
|   | 2.571 | 3.437   | 5.802 |
|   |       |   | 6.926 |

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| Exhibit R-2a, RDT&E Project Justification   |  | DATE<br><b>February 2005</b>  |
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| BUDGET ACTIVITY<br><b>06 RDT&amp;E Management Support</b>   | PE NUMBER AND TITLE<br><b>0605712F Initial Operational Test &amp; Evaluation</b> | PROJECT NUMBER AND TITLE<br><b>0191 Initial Operational Test &amp; Eval</b> |
| <ul style="list-style-type: none"> <li>- Advanced Remote Ground Unattended System (ARGUS): Plan for IOT&amp;E.</li> <li>- Airborne Signals Intelligence Payload (ASIP): Early Involvement.</li> <li>- Cobra Judy Replacement (CJR): Plan for ship OA.</li> <li>- Distributed Common Ground Station (DCGS): Conduct IOT&amp;E.</li> <li>- Expeditionary Combat Support System (ECSS): Early involvement.</li> <li>- Family of Advanced Beyond Line Of Sight Terminals (FAB T): Plan for OA2.</li> <li>- Ground Element Minimum Essential Emergency Communications Network System (GEMS): Early Involvement.</li> <li>- Ground Multi-band Terminal (GMT): Conduct IOT&amp;E.</li> <li>- Integrated Broadcast System (IBS): Conduct MOT&amp;E.</li> <li>- Joint STARS Blk 30: Conduct OUE.</li> <li>- Joint Command and Control Capability (JC2): Early Involvement.</li> <li>- Joint Precision Approach and Landing System (JPALS): Early Involvement.</li> <li>- Joint Interface Control Officer (JICO) Support System (JSS): Plan for OA.</li> <li>- Joint Tactical Radio System (JTRS): Conduct Cluster 1 EOA.</li> <li>- Mobile Approach Control System (MACS): Conduct IOT&amp;E.</li> <li>- Multi-Platform Common Data Link (MP CDL): Plan for DT/OT.</li> <li>- Rapid Attack Identification, Detection, and Reporting System (RAIDRS): Conduct OA.</li> <li>- Other systems.</li> </ul> <p>FY06</p> <ul style="list-style-type: none"> <li>- Air Force Tactical Data Links (AF TDL): Early Involvement.</li> <li>- Air Operations Center as a Weapons System (AOC): Planning and Execution throughout spiral development.</li> <li>- Advanced Point Mensuration Tool (APMT): Complete IOT&amp;E.</li> <li>- Advanced Remote Ground Unattended System (ARGUS): Conduct IOT&amp;E.</li> <li>- Airborne Signals Intelligence Payload (ASIP): Planning for IOT&amp;E.</li> <li>- Battle Control Systems-Mobile (BCS-M): Planning, conduct OA.</li> <li>- Cobra Judy Replacement (CJR): Conduct Ship OA.</li> <li>- Distributed Common Ground System (DCGS): IOT&amp;E final report.</li> <li>- Expeditionary Combat Support System (ECSS): Early involvement.</li> <li>- Family of Advanced Beyond Line Of Sight Terminals (FAB T): Conduct OA2.</li> <li>- Ground Element Minimum Essential Emergency Communications Network System (GEMS): Early involvement.</li> </ul> |  |   |
| Project 0191  | R-1 Shopping List - Item No. 107-9 of 107-12                                     | Exhibit R-2a (PE 0605712F)  |



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## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

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06 RDT&amp;E Management Support

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- Integrated Broadcast System (IBS): Conduct MOT&E.
- Joint Command and Control Capability (JC2): Early Involvement.
- Joint Precision Approach and Landing System (JPALS): Plan for OA.
- Joint Interface Control Officer (JICO) Support System (JSS): Conduct OA.
- Joint Tactical Radio System (JTRS): Cluster 1 planning.
- Mobile Approach Control System (MACS): Complete IOT&E.
- Multi-Mission Payload (MMP): Early Involvement.
- Mark XIIA MODE 5 IFF (MODE 5): Early involvement.
- Multi-Platform Common Data Link (MP CDL): Conduct DT/OT.
- Rapid Attack Identification, Detection and Reporting System (RAIDRS): OA final report.
- Other systems.

## FY07

- Air Force Tactical Data Links (AF TDL): Early Involvement.
- Air Operations Center as a Weapons System (AOC): Planning and Execution throughout spiral development.
- Advanced Point Mensuration Tool (APMT): Early Involvement.
- Advanced Remote Ground Unattended System (ARGUS): Conduct Spiral 2 DT/OT.
- Airborne Signals Intelligence Payload (ASIP): Conduct IOT&E.
- Battle Control Systems-Mobile (BCS-M): Conduct IOT&E.
- Cobra Judy Replacement (CJR): Conduct X-Band Radar OA.
- Expeditionary Combat Support System (ECSS): Early involvement.
- Family of Advanced Beyond Line Of Sight Terminals (FAB T): Conduct IOT&E.
- Ground Element Minimum Essential Emergency Communications Network System (GEMS): Early involvement.
- Integrated Broadcast System (IBS): Conduct MOT&E.
- Joint Command and Control Capability (JC2): Early Involvement.
- Joint Precision Approach and Landing System (JPALS): Plan for OA.
- Joint Interface Control Officer (JICO) Support System (JSS): Conduct MOT&E.
- Joint Tactical Radio System (JTRS): Conduct Cluster 1 DT/OT.
- Multi-Mission Payload (MMP): Early Involvement
- Mark XIIA MODE 5 IFF (MODE 5): Early involvement.
- Multi-Platform Common Data Link (MP CDL): Conduct DT/OT.
- Rapid Attack Identification Detection and Reporting System (RAIDRS): Conduct IOT&E 1.

Project 0191

R-1 Shopping List - Item No. 107-10 of 107-12

Exhibit R-2a (PE 0605712F)

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06 RDT&amp;E Management Support

## PE NUMBER AND TITLE

0605712F Initial Operational Test &amp; Evaluation

## PROJECT NUMBER AND TITLE

0191 Initial Operational Test &amp; Eval

- Other systems.

(U) (U) CATEGORY: COMBAT SUPPORT. Plan, execute, and report IOT&amp;E activities, to include:

2.762

0.891

1.194

1.188

## FY04

- Common Low Observable Verification System (CLOVerS): Plan for DT/OT.
- Combat Survivor Evader Locator (CSEL): Plan for FOT&E.
- Joint Mission Planning System (JMPS): Conduct IOT&E.
- Other systems.

## FY05

- Common Low Observable Verification System (CLOVerS): Plan for DT/OT.
- Combat Survivor Evader Locator (CSEL): Plan for FOT&E.
- Joint Mission Planning System (JMPS): Conduct F-15 and RC-135 mission planning IOT&E.
- Laser Warning and Detection (Laser WARDET): Early Involvement.
- Other systems.

## FY06

- Common Low Observable Verification System (CLOVerS): Conduct DT/OT and Plan for IOT&E.
- Combat Survivor Evader Locator (CSEL): Conduct FOT&E.
- Ground Contingency Medical Support System (GCMSS): Conduct OA.
- Joint Mission Planning System (JMPS): Conduct A-10, F-16 Blk 30/50, and B-1 IOT&E.
- Laser Warning Detection (LASER WARDET): Early Involvement.
- Other systems.

## FY07

- Common Low Observable Verification System (CLOVerS): Conduct IOT&E.
- Ground Contingency Medical Support System (GCMSS): Conduct IOT&E.
- Joint Mission Planning System (JMPS): Conduct F/A-22, U-2, and B-52 IOT&E.
- Laser Warning Detection (LASER WARDET): Early Involvement.
- Other systems.

(U) B. Budget Activity Justification

This program element is in Budget Activity 6, RDT&E Management Support, because it funds weapon system IOT&E tests conducted to evaluate a system's operational effectiveness and suitability and to

Project 0191

R-1 Shopping List - Item No. 107-11 of 107-12

Exhibit R-2a (PE 0605712F)

## Exhibit R-2a, RDT&amp;E Project Justification

DATE

February 2005

BUDGET ACTIVITY

06 RDT&amp;E Management Support

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identify any operational deficiencies or need for modifications in support of the acquisition process.

(U) Total Cost 44.343 30.567 34.615 33.739

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

|  | <u>FY 2004</u> | <u>FY 2005</u>  | <u>FY 2006</u>  | <u>FY 2007</u>  | <u>FY 2008</u>  | <u>FY 2009</u>  | <u>FY 2010</u>  | <u>FY 2011</u>  | <u>Cost to</u>  | <u>Total Cost</u> |
|--|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
|  | <u>Actual</u>  | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Estimate</u> | <u>Complete</u> |                   |

(U) N/A

(U) **D. Acquisition Strategy**

N/A