

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2002

BUDGET ACTIVITY

05 - Engineering and Manufacturing Development

PE NUMBER AND TITLE

0604735F Combat Training Ranges

PROJECT

2286

| COST (\$ in Thousands) | FY 2001 Actual | FY 2002 Estimate | FY 2003 Estimate | FY 2004 Estimate | FY 2005 Estimate | FY 2006 Estimate | FY 2007 Estimate | Cost to Complete | Total Cost |
|--------------------------------------|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|
| 2286 Combat Training Range Equipment | 9,568 | 25,686 | 13,524 | 20,940 | 20,996 | 19,839 | 20,354 | Continuing | TBD |
| Quantity of RDT&E Articles | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

In FY 2003, 652286, Combat Training Ranges includes new start efforts.

(U) **A. Mission Description**

Air Combat Training Systems (ACTS) provide equipment for Air Force combat training ranges to support mission training and evaluation of aircrews, as well as the operational testing of weapons systems and tactics under simulated combat conditions. This program develops the electronic, telecommunications, and instrumentation equipment/systems for the training ranges. ACTS are interoperable with Navy combat training ranges, and provide the capabilities to train aircrews in air-to-air combat, air-to-ground combat, and electronic warfare, while providing real-time monitoring and control of aircraft during large force exercises and recording events for post-mission debrief and analysis. This program element also funds aircraft/pod interfaces, software interoperability among service ranges and development and integration of the Range Security Initiative (RSI) for range/aircraft data links-specifically for the Nellis Air Combat Training System (NACTS) which supports Red Flag, Green Flag and USAF Fighter Weapons School training as well as funds a study to incorporate security initiatives into the Tyndall Range. Beginning in FY03 this program element will continue to evolve the Air Force acquisition program for rangeless training systems/capabilities which will be interoperable with the P4 Refurbishment Contract (P4RC) program. This next phase in the program will be known as P4RC Plus. This will fund the development of improved capabilities such as real time monitoring, kill notification, and no-drop weapon scoring for incorporation in future procurements. This program element develops advanced threat emitters. The Mini-Multiple Threat Emitter System (Mini-MUTES) Modernization program (M3P) upgrades existing equipment to satisfy Air Force electronic warfare training requirements. The required M3P upgrades will enable Mini-MUTES to simulate the latest, most lethal advanced surface-to-air threats. In FY03 the Advanced Threat Emitter System (ATES) will incorporate joint requirements and evolve into the Joint Threat Emitter (JTE) system. The JTE will continue the development program to provide a comprehensive suite of threat signals during simulated penetrations of hostile airspace for surveillance and bombing runs, for aircrew tactics and electronic combat training. JTE will complement existing threat simulators deployed on test and training ranges by emulating signals which simulate the most advanced air defense and threat radars.

Target System Development PE 64258F was consolidated into this PE starting in FY02. Aerial Targets are used to determine air-to-air weapons systems accuracy and reliability by developing improved aerial target systems for Air Force weapons system test and evaluation. It develops full-scale and subscale aerial targets, and target control systems. Specialized target payload subsystems are developed for requirements such as: missile scoring, electronic and infrared (IR) countermeasures, radar,

Project 2286

Page 1 of 7 Pages

Exhibit R-2 (PE 0604735F)

UNCLASSIFIED

| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE February 2002 |
|---|--|------------------------------|
| BUDGET ACTIVITY | PE NUMBER AND TITLE | PROJECT |
| 05 - Engineering and Manufacturing Development | 0604735F Combat Training Ranges | 2286 |
| <p>(U) <u>A. Mission Description Continued</u> and IR signature augmentation, and chaff and flare dispensing.</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$551 Continued development of the RSI for NACTS/Tyndall Range</p> <p>(U) \$903 Continued Combat Training Range (CTR) basic operating support, and system acquisition and engineering support for range and threat systems</p> <p>(U) \$292 Continued interoperability improvements with existing Air Force and Navy ranges to include software, upgrades, and weapons simulation development</p> <p>(U) \$778 Continued development of aircraft interfaces with aircraft/Pod integration for range applications with aircraft program office</p> <p>(U) \$6,749 Continued Mini-(MUTES) Multiple Threat Emitter System Modification Program (M3P)</p> <p>(U) \$145 Continued Range Instrumentation Technical Support efforts</p> <p>(U) \$150 Continue Aerial Target basic operating support and system acquisition and engineering support.</p> <p>(U) \$9,568 Total</p> <p>(U) <u>FY 2002 (\$ in Thousands)</u></p> <p>(U) \$3,938 Continue development of aircraft interfaces with aircraft/Pod integration for range applications with aircraft program office and SECDEF F-22 Roadmap Study</p> <p>(U) \$10,830 Begin Advanced Threat Emitter System (ATES) development</p> <p>(U) \$3,700 Continue interoperability improvements with existing Air Force and Navy ranges to include software, upgrades, and weapons simulation development</p> <p>(U) \$3,382 Complete development of RSI effort for NACTS/Tyndall Ranges</p> <p>(U) \$190 Continue Aerial Target basic operating support and system acquisition and engineering support.</p> <p>(U) \$145 Continue Range Instrumentation Technical Support efforts</p> <p>(U) \$3,501 Continue CTR basic operating support, and system acquisition and engineering support for range and threat systems</p> <p>(U) \$25,686 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u></p> <p>(U) \$395 Begin P4RC Plus system development efforts</p> <p>(U) \$1,768 Continue development of aircraft interfaces with aircraft/Pod integration for range applications with aircraft program office.</p> <p>(U) \$2,543 Continue interoperability improvements with existing Air Force and Navy ranges to include software, upgrades, and weapons simulation development</p> | | |
| <div style="display: flex; justify-content: space-between;"> Project 2286 Page 2 of 7 Pages Exhibit R-2 (PE 0604735F) </div> | | |

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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | DATE February 2002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-------------------------------|-----------|--|-------------|--|-------------|--|-----------|---|--------------|-------|--|---------|---------|---------|------------|---------------------------------|--------|--------|--------|-----|------------------------|--------|--------|--|--|---------------------------------------|--|--|--|--|-------------------------------------|------|------|--|--|---------------------------------------|------|--|--|--|---|--|--|--|--|------------------------------|-----|--|--|--|----------------|--------|--|--|--|---|--|--|--------|--|---------------------------------------|-------|--------|--------|-----|
| BUDGET ACTIVITY 05 - Engineering and Manufacturing Development | PE NUMBER AND TITLE 0604735F Combat Training Ranges | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | PROJECT 2286 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2003 (\$ in Thousands) Continued</u></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">(U) \$145</td> <td>Continue Range Instrumentation Technical Support efforts</td> </tr> <tr> <td>(U) \$3,725</td> <td>Continue CTR basic operating support and system acquisition and engineering support for range and threat systems</td> </tr> <tr> <td>(U) \$4,757</td> <td>Continue ATES development to incorporate joint requirements and evolve to a Joint Threat Emitter (JTE) System.</td> </tr> <tr> <td>(U) \$191</td> <td>Continue Aerial Target basic operating support and system acquisition and engineering support</td> </tr> <tr> <td>(U) \$13,524</td> <td>Total</td> </tr> </table> <p>(U) <u>B. Budget Activity Justification</u></p> <p>This program is in budget activity 5 - Engineering and Manufacturing Development because the Combat Training Ranges (CTR) Program directly contributes to the effectiveness and survivability of US combat forces by developing range instrumentation and training systems to increase the effectiveness of the training spectrum from individual aircrew skill training to large-scale exercises.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"></th> <th style="text-align: center; width: 10%;">FY 2001</th> <th style="text-align: center; width: 10%;">FY 2002</th> <th style="text-align: center; width: 10%;">FY 2003</th> <th style="text-align: center; width: 20%;">Total Cost</th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td style="text-align: center;">16,407</td> <td style="text-align: center;">25,943</td> <td style="text-align: center;">19,000</td> <td style="text-align: center;">TBD</td> </tr> <tr> <td>(U) Appropriated Value</td> <td style="text-align: center;">16,559</td> <td style="text-align: center;">25,943</td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> a. Congressional/General Reductions</td> <td style="text-align: center;">-152</td> <td style="text-align: center;">-257</td> <td></td> <td></td> </tr> <tr> <td> b. Small Business Innovative Research</td> <td style="text-align: center;">-561</td> <td></td> <td></td> <td></td> </tr> <tr> <td> c. Omnibus or Other Above Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td> d. Below Threshold Reprogram</td> <td style="text-align: center;">-78</td> <td></td> <td></td> <td></td> </tr> <tr> <td> e. Rescissions</td> <td style="text-align: center;">-6,200</td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Budget Years Since FY 2002 PBR</td> <td></td> <td></td> <td style="text-align: center;">-5,476</td> <td></td> </tr> <tr> <td>(U) Current Budget Submit/FY 2003 PBR</td> <td style="text-align: center;">9,568</td> <td style="text-align: center;">25,686</td> <td style="text-align: center;">13,524</td> <td style="text-align: center;">TBD</td> </tr> </tbody> </table> <p>(U) <u>Significant Program Changes:</u></p> <p>FY01 includes \$4.0M Congressional Plus-Up to continue development for Range Security Initiative for NACTS.</p> <p>FY01 reduced \$0.078M reprogrammed to purchase AF Wide Oracle Enterprise License.</p> <p>FY01 reduced \$6.2M by FY02 Congressional Rescission of Joint Tactical Combat Training System (JTCTS) funds; these JTCTS funds were not appropriated in FY01.</p> | | | (U) \$145 | Continue Range Instrumentation Technical Support efforts | (U) \$3,725 | Continue CTR basic operating support and system acquisition and engineering support for range and threat systems | (U) \$4,757 | Continue ATES development to incorporate joint requirements and evolve to a Joint Threat Emitter (JTE) System. | (U) \$191 | Continue Aerial Target basic operating support and system acquisition and engineering support | (U) \$13,524 | Total | | FY 2001 | FY 2002 | FY 2003 | Total Cost | (U) Previous President's Budget | 16,407 | 25,943 | 19,000 | TBD | (U) Appropriated Value | 16,559 | 25,943 | | | (U) Adjustments to Appropriated Value | | | | | a. Congressional/General Reductions | -152 | -257 | | | b. Small Business Innovative Research | -561 | | | | c. Omnibus or Other Above Threshold Reprogram | | | | | d. Below Threshold Reprogram | -78 | | | | e. Rescissions | -6,200 | | | | (U) Adjustments to Budget Years Since FY 2002 PBR | | | -5,476 | | (U) Current Budget Submit/FY 2003 PBR | 9,568 | 25,686 | 13,524 | TBD |
| (U) \$145 | Continue Range Instrumentation Technical Support efforts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) \$3,725 | Continue CTR basic operating support and system acquisition and engineering support for range and threat systems | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) \$4,757 | Continue ATES development to incorporate joint requirements and evolve to a Joint Threat Emitter (JTE) System. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) \$191 | Continue Aerial Target basic operating support and system acquisition and engineering support | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) \$13,524 | Total | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | FY 2001 | FY 2002 | FY 2003 | Total Cost | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Previous President's Budget | 16,407 | 25,943 | 19,000 | TBD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Appropriated Value | 16,559 | 25,943 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Adjustments to Appropriated Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Congressional/General Reductions | -152 | -257 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. Small Business Innovative Research | -561 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. Omnibus or Other Above Threshold Reprogram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. Below Threshold Reprogram | -78 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| e. Rescissions | -6,200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Adjustments to Budget Years Since FY 2002 PBR | | | -5,476 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (U) Current Budget Submit/FY 2003 PBR | 9,568 | 25,686 | 13,524 | TBD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> Project 2286 Page 3 of 7 Pages Exhibit R-2 (PE 0604735F) </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | | | | DATE February 2002 | |
|---|----------------|-----------------|-----------------|--|-----------------|-----------------|-----------------|-----------------------|-------------------|
| BUDGET ACTIVITY | | | | PE NUMBER AND TITLE | | | | PROJECT | |
| 05 - Engineering and Manufacturing Development | | | | 0604735F Combat Training Ranges | | | | 2286 | |
| (U) <u>C. Program Change Summary (\$ in Thousands) Continued</u> | | | | | | | | | |
| (U) <u>Significant Program Changes Continued:</u> | | | | | | | | | |
| FY03 reduced \$5.280M transferred to Combat Training Ranges APAF and OPAF accounts for P4RC Plus. | | | | | | | | | |
| FY03 reduced \$0.163M for Advisory & Assistance Support (AAS). | | | | | | | | | |
| FY03 reduced \$0.033 for Inflation | | | | | | | | | |
| (U) <u>D. Other Program Funding Summary (\$ in Thousands)</u> | | | | | | | | | |
| | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>FY 2005</u> | <u>FY 2006</u> | <u>FY 2007</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>Complete</u> | |
| (U) PE27429F: Appn: Other Procurement, AF (OPAF) Program Title: Combat Training Ranges | 44,774 | 62,530 | 17,242 | 21,658 | 19,681 | 20,263 | 20,392 | Continuing | TBD |
| (U) Initial Spares | 2,731 | 785 | 781 | 799 | 814 | 830 | 846 | Continuing | TBD |
| (U) Total OPAF | 47,505 | 63,315 | 18,023 | 22,457 | 20,495 | 21,093 | 21,238 | Continuing | TBD |
| (U) PE27429F: Appn: Aircraft Procurement, AF(APAF), Program Title: Combat Training Ranges | 6,744 | 15,890 | 14,430 | 12,625 | 13,076 | 14,739 | 15,210 | Continuing | TBD |
| (U) Initial Spares | 1,256 | 1,379 | 1,385 | 1,415 | 1,446 | 1,475 | 1,504 | Continuing | TBD |
| (U) Total APAF | 8,000 | 17,269 | 15,815 | 14,040 | 14,522 | 16,214 | 16,714 | Continuing | TBD |
| (U) PE35116F: Appn: Aircraft Procurement, AF (APAF), Program title: Aerial Targets | 22,884 | 34,784 | 30,586 | 51,180 | 38,574 | 39,319 | 40,067 | Continuing | TBD |
| (U) Initial Spares | 610 | 101 | 820 | 991 | 494 | 494 | 494 | Continuing | TBD |
| (U) Total APAF | 23,494 | 35,585 | 31,406 | 52,171 | 39,068 | 39,813 | 40,561 | Continuing | TBD |
| (U) <u>E. Acquisition Strategy</u> | | | | | | | | | |
| The acquisition strategy is competitive, with cost plus and fixed price contracts. | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> Project 2286 Page 4 of 7 Pages Exhibit R-2 (PE 0604735F) </div> | | | | | | | | | |

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| RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) | | | | | | | | DATE February 2002 | |
|---|---|--|---|--|---|---|--|-----------------------|--|
| BUDGET ACTIVITY | | | | PE NUMBER AND TITLE | | | | PROJECT | |
| 05 - Engineering and Manufacturing Development | | | | 0604735F Combat Training Ranges | | | | 2286 | |
| (U) <u>F. Schedule Profile</u> | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| (U) | Nellis Air Combat Training System (NACTS) | | | | | | | | |
| (U) | NACTS Range Security Initiative (RSI) Contract Award | | * | | | | | | |
| (U) | Mini-Mutes Multiple Threat Emitter (M3P) Development | | | | | | | | |
| (U) | Field Testing | | | | X | | | | |
| (U) | Production Decision | | | | X | | | | |
| (U) | IOC | | | | | X | | | |
| (U) | ATES/JTE Development | | | | | | | | |
| (U) | Development Contract Award | | | | | X | | | |
| (U) | Joint Service Range Software Interoperability | | | | | | | | |
| (U) | Surface Instrumentation Subsystem Software Support Activities | | * | | | | | | |
| (U) | Tactical Airborne Subsystem Software Support Activities (On-going) | | * | | | | | | |
| (U) | Weapon Sims Integration into Cntrl & Computation Sys (CCS) | | * | | | | | | |
| | Baseline | | | | | | | | |
| (U) | P4RC Plus Development | | | | | | | | |
| (U) | Contract Award | | | | | | | X | |
| (U) | AIRCRAFT INTEGRATION EFFORT | | | | | | | | |
| (U) | F-15 C/D Suite 4 Software Upgrade | | | | | X | | | |
| (U) | F-15E Suite 4+ Software Upgrade | | | | | | | X | |
| (U) | F-15 C/D Suite 5 Software Upgrade | | | | | | | X | |
| (U) | Begin F-16 M2.3+, M3.3+ Software Upgrade (On-going Process thru FY03) | | | | X | | | | |
| (U) | Begin Pod to Aircraft Software Development (On-going Process) | | * | | | | | | |
| (U) | * = Completed event | | | | | | | | |
| (U) | X = Planned event | | | | | | | | |

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | | | DATE February 2002 | | | |
|---|--|--------------------|--|-------------------|---------------------------------|-------------------|----------------|-----------------------|----------------|--------------------|--|
| BUDGET ACTIVITY | | | | | PE NUMBER AND TITLE | | | | PROJECT | | |
| 05 - Engineering and Manufacturing Development | | | | | 0604735F Combat Training Ranges | | | | 2286 | | |
| (U) <u>A. Project Cost Breakdown (\$ in Thousands)</u> | | | | | | | | | | | |
| | | | | | <u>FY 2001</u> | | <u>FY 2002</u> | | <u>FY 2003</u> | | |
| (U) Aircraft Interface Development | | | | | 778 | | 3,738 | | 1,768 | | |
| (U) Mini-Mutes Modification Program (M3P) | | | | | 6,749 | | 0 | | 0 | | |
| (U) ATES/JTE System Development | | | | | 0 | | 10,556 | | 4,757 | | |
| (U) Joint Service Interoperability Improvements | | | | | 292 | | 3,700 | | 2,543 | | |
| (U) Range Instrumentation Technical Support (RITS) | | | | | 145 | | 145 | | 145 | | |
| (U) Combat Training Ranges Program Office Support | | | | | 903 | | 3,975 | | 3,725 | | |
| (U) Aerial Target Program Office Support | | | | | 150 | | 190 | | 191 | | |
| (U) NACTS Range Security Initiative (RSI) Development | | | | | 551 | | 3,382 | | 0 | | |
| (U) P4RC Plus Development | | | | | 0 | | 0 | | 395 | | |
| (U) Total | | | | | 9,568 | | 25,686 | | 13,524 | | |
| (U) <u>B. Budget Acquisition History and Planning Information (\$ in Thousands)</u> | | | | | | | | | | | |
| (U) <u>Performing Organizations:</u> | | | | | | | | | | | |
| <u>Contractor or</u> | | <u>Contract</u> | | | | | | | | | |
| <u>Government</u> | | <u>Method/Type</u> | | <u>Award or</u> | | <u>Performing</u> | | <u>Project</u> | | | |
| <u>Performing</u> | | <u>or Funding</u> | | <u>Obligation</u> | | <u>Activity</u> | | <u>Office</u> | | <u>Total Prior</u> | |
| <u>Activity</u> | | <u>Vehicle</u> | | <u>Date</u> | | <u>EAC</u> | | <u>EAC</u> | | <u>to FY 2001</u> | |
| <u>Budget</u> | | <u>Budget</u> | | <u>Budget</u> | | <u>Budget</u> | | <u>Budget</u> | | <u>Total</u> | |
| <u>FY 2001</u> | | <u>FY 2002</u> | | <u>FY 2003</u> | | <u>Complete</u> | | <u>Program</u> | | | |
| <u>Product Development Organizations</u> | | | | | | | | | | | |
| Cubic Defense (NACTS) | | C/CPAF/FFP | | Mar 95 | | 31,149 | | 551 | | 3,382 | |
| Raytheon (JTCTS) | | Navy Contr | | Mar 95 | | 2,500 | | 0 | | 0 | |
| Sverdrup (RITS) | | CPAF | | Oct 00 | | 2,385 | | 145 | | 145 | |
| TBD (P4RC Plus) | | TBD | | 2nd Qtr 03 | | 0 | | 0 | | 395 | |
| Harris Corp (M3P) | | CPFF | | May 98 | | 380 | | 6,649 | | 0 | |
| TBD (ATES/JTE System) | | CPAF | | 2nd Qtr 02 | | 0 | | 0 | | 10,346 | |
| Joint Interoperability | | Navy Contract | | Mar 97 | | 3,429 | | 292 | | 3,700 | |
| Aircraft Interface | | Through | | Jun 96 | | 1,035 | | 778 | | 3,738 | |
| MOAs with | | | | | | | | | | | |
| Project 2286 | | | | | | | | | | | |
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| Exhibit R-3 (PE 0604735F) | | | | | | | | | | | |

UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) | | | | | | | DATE February 2002 | | |
|---|-------------------|-------------------|-----------------|---------------------------------|----------------|----------------|-----------------------|------------------|----------------|
| BUDGET ACTIVITY | | | | PE NUMBER AND TITLE | | | | PROJECT | |
| 05 - Engineering and Manufacturing Development | | | | 0604735F Combat Training Ranges | | | | 2286 | |
| (U) <u>Performing Organizations Continued:</u> | | | | | | | | | |
| <u>Product Development Organizations</u> | | | | | | | | | |
| ALCs & | | | | | | | | | |
| Aircraft SPO | | | | | | | | | |
| Contractors | | | | | | | | | |
| <u>Support and Management Organizations</u> | | | | | | | | | |
| OO/ALC/LH, Hill AFB, UT | Various | | 0 | 100 | 210 | 286 | Continuing | TBD | |
| AAC/WRR, Eglin AFB, FL | Various | | 8,576 | 903 | 3,975 | 3,439 | Continuing | TBD | |
| AAC/WRA, Eglin AFB, FL | Various | | 0 | 150 | 190 | 191 | Continuing | TBD | |
| NAWC, China Lake, CA | Various | | 113 | 0 | 0 | 0 | 0 | 113 | |
| <u>Test and Evaluation Organizations</u> | | | | | | | | | |
| AAC/WRR, Eglin AFB, FL | Various | | 1,405 | 0 | 0 | 0 | Continuing | TBD | |
| 46 Test Wing, Eglin AFB FL | Various | | 640 | 0 | 0 | 0 | Continuing | TBD | |
| (U) <u>Government Furnished Property:</u> | | | | | | | | | |
| <u>Contract</u> | | | | | | | | | |
| <u>Method/Type</u> <u>Award or</u> | | | | | | | | | |
| <u>Item</u> | <u>or Funding</u> | <u>Obligation</u> | <u>Delivery</u> | <u>Total Prior</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget to</u> | <u>Total</u> |
| <u>Description</u> | <u>Vehicle</u> | <u>Date</u> | <u>Date</u> | <u>to FY 2001</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>Complete</u> | <u>Program</u> |
| <u>Product Development Property</u> | | | | | | | | | |
| <u>Support and Management Property</u> | | | | | | | | | |
| <u>Test and Evaluation Property</u> | | | | | | | | | |
| <u>Subtotals</u> | | | | <u>Total Prior</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget</u> | <u>Budget to</u> | <u>Total</u> |
| | | | | <u>to FY 2001</u> | <u>FY 2001</u> | <u>FY 2002</u> | <u>FY 2003</u> | <u>Complete</u> | <u>Program</u> |
| Subtotal Product Development | | | | 40,878 | 8,415 | 21,311 | 9,608 | TBD | TBD |
| Subtotal Support and Management | | | | 8,689 | 1,153 | 4,375 | 3,916 | TBD | TBD |
| Subtotal Test and Evaluation | | | | 2,045 | 0 | 0 | 0 | TBD | TBD |
| Total Project | | | | 51,612 | 9,568 | 25,686 | 13,524 | TBD | TBD |

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Exhibit R-3 (PE 0604735F)

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