

## UNCLASSIFIED

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

DATE

February 2003

BUDGET ACTIVITY

**04 - Advanced Component Development and Prototypes  
(ACD&P)**

PE NUMBER AND TITLE

**0603742F Combat Identification Technology**

PROJECT

**2597**

| COST (\$ in Thousands)                        | FY 2002<br>Actual | FY 2003<br>Estimate | FY 2004<br>Estimate | FY 2005<br>Estimate | FY 2006<br>Estimate | FY 2007<br>Estimate | FY 2008<br>Estimate | FY 2009<br>Estimate | Cost to<br>Complete | Total Cost |
|---|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|
| 2597 Noncooperative Identification Subsystems | 12,849            | 12,135              | 16,575              | 19,633              | 19,839              | 20,201              | 20,492              | 20,767              | Continuing          | TBD        |
| Quantity of RDT&E Articles                    | 0                 | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0                   | 0          |

(U) **A. Mission Description**

U.S. Combat Air Forces have a critical requirement to positively identify (enemy, friendly, neutral) aircraft, battlefield equipment and personnel/combatants. Multiple other Joint Mission Needs Statements (MNS), Air Force Operational Requirements Documents (ORD), and NATO requirements documents also state Combat Identification (CID) operational needs. High confidence & high probability of ID, all weather & day/night operational needs as well as timely and reliable CID will improve combat effectiveness, reduce fratricide and enable battlespace commanders to effectively manage and control their forces.

The Combat Identification Technology program analyzes, develops, demonstrates, and transitions to SDD programs promising target identification technologies. These technologies include both cooperative and non-cooperative techniques that improve US ability to positively identify ground and air targets in Air-to-Surface and Air-to-Air CID engagements.

Air-to-Surface technologies funded by this program include Laser Vision, an electro-optical (EO) system that significantly increases ID ranges, Vibration Vision, which exploits vibration signatures to increase probability and confidence of ground target ID, and the maturation of algorithms for these efforts to support Automatic Target Cueing and Automatic Target Recognition.

Air-to-Air technologies funded by this program include High Range Resolution (HRR) radar techniques to increase ID ranges as well as confidence, and improvements to the Mark XII system to implement Mode V, which will enable robust, secure Identification Friend or Foe (IFF).

(U) **FY 2002 (\$ in Thousands)**

- (U) \$0 Accomplishment/Planned Program
- (U) \$2,970 Continued the HRR synthetic target database development in conjunction with the National Air Intelligence Center (NAIC). Implemented risk reduction measures to increase the fidelity of the HRR database and prepared to transition database management/maintenance from the lab environment to a System Program Office (SPO).
- (U) \$7,706 Continued development and demonstration of promising air-to-ground and air-to-air identification techniques for reduced battlefield fratricide

Project 2597

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Exhibit R-2 (PE 0603742F)

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|---|---|---------------------------|
| BUDGET ACTIVITY<br><b>04 - Advanced Component Development and Prototypes<br/>(ACD&amp;P)</b>  | PE NUMBER AND TITLE<br><b>0603742F Combat Identification Technology</b> | PROJECT<br><b>2597</b>    |
| <p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2002 (\$ in Thousands) Continued</u></p> <p>and enhanced mission performance. Transition program candidates include continuing development and integration of Enhanced Recognition and Sensing laser Radar (ERASER)/Laser Vision, baselining associated EO/ATC (Automatic Target Cueing)/ATR (Automatic Target Recognition) capability, performing Multi Vision military utility assessments/trade studies to define a transition roadmap for the Joint Airborne Night Navigation and Attack (JOANNA) and related technologies, and continuing to mature/harden camera technologies for flight environments. Other potential candidates could include the Air-to-Ground Imaging (AGRI) technology.</p> <p>(U) \$673 Funded AIMS Program Office support of Mark XII systems to include next generation IFF equipment integration, including Mode V documentation and individual IFF system/box certification.</p> <p>(U) \$988 Provided for CID Integrated Management Team and other engineering support for integration and management of Air Force CID programs.</p> <p>(U) \$512 Conducted CID related studies/demos and conferences. Studies/demos included those directed by the Joint Staff and OSD to define higher fidelity requirements, wring out Tactics Techniques, and Procedures (TTPs) as they apply to new technologies, and otherwise analyze ways to increase warfighter's CID capabilities.</p> <p>(U) \$12,849 Total</p> <p>(U) <u>FY 2003 (\$ in Thousands)</u></p> <p>(U) \$0 Accomplishment/Planned Program</p> <p>(U) \$3,046 Continue the HRR synthetic target database development in conjunction with NAIC. Implement risk reduction to increase the fidelity of the HRR database and prepare for the transition of database management/maintenance from the lab environment to a SPO.</p> <p>(U) \$6,349 Continue development and demonstration of promising air-to-ground and air-to-air identification techniques for reduced battlefield fratricide and enhanced mission performance. Transition program candidates include continuing development and integration of ERASER/Laser Vision, baselining associated EO/ATC/ATR capability, continuing Multi-Vision military utility assessments/trade studies to define a transition roadmap for JOANNA and related technologies, and continuing to mature/harden camera technologies for flight environments. Other potential candidates could include (Air-to-Ground Radar Imaging) AGRI and vibration exploitation technologies.</p> <p>(U) \$713 Fund AIMS Program Office support of Mark XII systems to include next generation IFF equipment integration, including Mode V documentation and individual IFF system/box certification.</p> <p>(U) \$966 Provides for the CID Integrated Management Team and other engineering support necessary for management of CID efforts.</p> <p>(U) \$1,061 Conduct CID related studies/demos and conferences. Studies/demos will include those directed by the Joint Staff and OSD, to define higher fidelity requirements, wring out Tactics Techniques, and Procedures (TTPs) as they apply to new technologies, and otherwise analyze ways to</p> |   |                           |
| Project 2597  | Page 2 of 9 Pages   | Exhibit R-2 (PE 0603742F) |

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|   |   |                              |
|---|---|------------------------------|
| <b>RDT&amp;E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)</b>  |   | DATE<br><b>February 2003</b> |
| BUDGET ACTIVITY<br><b>04 - Advanced Component Development and Prototypes (ACD&amp;P)</b>  | PE NUMBER AND TITLE<br><b>0603742F Combat Identification Technology</b> |                              |
|   |   | PROJECT<br><b>2597</b>       |
| <p>(U) <b><u>A. Mission Description Continued</u></b></p> <p>(U) <b><u>FY 2003 (\$ in Thousands) Continued</u></b></p> <p style="padding-left: 40px;">increase warfighter's CID capabilities.</p> <p>(U) \$12,135                      Total</p> <p>(U) <b><u>FY 2004 (\$ in Thousands)</u></b></p> <p>(U) \$0                              Accomplishment/Planned Program</p> <p>(U) \$5,174                      Continue the HRR synthetic target database development and complete the transition of database management/maintenance from the lab environment to a SPO.</p> <p>(U) \$8,269                      Continue development, demonstration and transition of promising air-to-ground and air-to-air identification techniques for reduced battlefield fratricide and enhanced mission performance. Transition programs include Laser Vision, ERASER, associated EO/ATR, Laser Vibrometry, and Radar Vision incorporation of Air-to-Ground Imaging (AGRI), phase I technology.</p> <p>(U) \$791                              Fund AIMS Program Office support of IFF equipment integration and certification.</p> <p>(U) \$1,023                      Funds the CID Integrated Management Team and other engineering support necessary for management of CID efforts. Includes support for Mode V IFF flight demonstration.</p> <p>(U) \$1,318                      Conduct CID-related studies/demos and conferences. Studies/demos will include those directed by the Joint Staff and OSD to research implementation and evaluation of a family of CID systems, linkage between airborne and ground-based non-cooperative CID technologies/systems, and to attempt to quantify the relationship between CID and improved combat effectiveness. Also includes Mode V IFF flight test preparations and demonstration to assess system operational capacity, interoperability, and equipment integration.</p> <p>(U) \$16,575                      Total</p> <p>(U) <b><u>B. Budget Activity Justification</u></b></p> <p style="padding-left: 20px;">This program is in Budget Activity 4 - Advanced Component Development and Prototypes (ACD&amp;P). The PE includes advanced technology demonstrations that help transition technologies from laboratory to operational use.</p> |   |                              |
| <div style="display: flex; justify-content: space-between;"> <span>Project 2597</span> <span>Page 3 of 9 Pages</span> <span>Exhibit R-2 (PE 0603742F)</span> </div>   |   |                              |

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DATE

February 2003

## BUDGET ACTIVITY

**04 - Advanced Component Development and Prototypes  
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## PE NUMBER AND TITLE

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## PROJECT

**2597**

(U) **C. Program Change Summary (\$ in Thousands)**

|   | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u> | <u>Total Cost</u> |
|---|----------------|----------------|----------------|-------------------|
| (U) Previous President's Budget                   | 11,409         | 12,434         | 16,955         |                   |
| (U) Appropriated Value                            | 11,523         | 12,434         |                |                   |
| (U) Adjustments to Appropriated Value             |                |                |                |                   |
| a. Congressional/General Reductions               | -114           | -44            |                |                   |
| b. Small Business Innovative Research             | -315           |                |                |                   |
| c. Omnibus or Other Above Threshold Reprogram     |                | -123           |                |                   |
| d. Below Threshold Reprogram                      | 1,818          |                |                |                   |
| e. Rescissions                                    | -63            | -132           |                |                   |
| (U) Adjustments to Budget Years Since FY 2003 PBR |                |                | -380           |                   |
| (U) Current Budget Submit/FY 2004 PBR             | 12,849         | 12,135         | 16,575         | TBD               |

(U) **Significant Program Changes:**(U) **D. Other Program Funding Summary (\$ in Thousands)**

|          | <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>FY 2008</u>  | <u>FY 2009</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) None | 0              | 0               | 0               | 0               |                 |                 |                 |                 | 0               | 0                 |

(U) **E. Acquisition Strategy**

The High Range Resolution (HRR) database development program was awarded under a competitive bid process. Other combat identification efforts in project 2597 focus on developing and demonstrating the most promising Air-to-Ground Combat ID techniques and were contracted for under a competitive Request For Proposal (RFP) process. Laser Vision was awarded utilizing Other Transaction Agreement (OTA)s, which utilize the same competitive process of Request for Proposal (RFP), proposal submittal and negotiation of costs prior to award.

(U) **F. Schedule Profile**FY 2002FY 2003FY 2004

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BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

**04 - Advanced Component Development and Prototypes  
(ACD&P)**

**0603742F Combat Identification Technology**

**2597**

(U) F. Schedule Profile Continued

|  | FY 2002 |   |   |   | FY 2003 |   |   |   | FY 2004 |   |   |   |
|--|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|  | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |
| (U) 1. HRR Classifier Dev/Qual                       |         |   |   |   |         |   |   |   |         |   |   |   |
| (U) Technique Selection for Model Creation           |         | * |   |   |         |   |   |   |         |   |   |   |
| (U) Completion of 150 Feature Quality Models         |         |   |   |   | *       |   |   |   |         |   |   |   |
| (U) Start of Lab-based Model Validation              |         |   |   |   |         | X |   |   |         |   |   |   |
| (U) Completion of Lab Validation                     |         |   |   |   |         | X |   |   |         |   |   |   |
| (U) Comp of 6 High-Fidelity NAIC Models              |         |   |   |   |         |   |   | X |         |   |   |   |
| (U) Start work on next set of Feature Quality Models |         |   |   |   |         |   |   |   |         | X |   |   |
| (U) 2. LASER VISION (flt test of ERASER technology)  |         |   |   |   |         |   |   |   |         |   |   |   |
| (U) Completion of Lab Demos                          |         |   | * |   |         |   |   |   |         |   |   |   |
| (U) Phase II, Part III Contract Modification         |         |   | * |   |         |   |   |   |         |   |   |   |
| (U) Tower Demonstrations                             |         |   |   | * |         |   |   | X |         |   |   |   |
| (U) Mountaintop Demo                                 |         |   |   |   | *       |   |   | X |         |   |   |   |
| (U) Flight Testing                                   |         |   |   |   |         |   |   |   | X       |   |   |   |
| (U) Completion of Phase II                           |         |   |   |   |         |   |   |   | X       |   |   |   |
| (U) Start of SDD                                     |         |   |   |   |         |   |   |   |         | X |   |   |
| (U) 3. VIBRATION VISION ANALYSIS                     |         |   |   |   |         |   |   |   |         |   |   |   |
| (U) Completion of Multivision Feasibility Analysis   |         |   | * |   |         |   |   |   |         |   |   |   |
| (U) Transition Strategy Decision                     |         |   |   |   |         | X |   |   |         |   |   |   |
| (U) Beginning of Integration Activities              |         |   |   |   |         |   |   |   |         | X |   |   |
| (U) 4. AIMSPO Integration and Certification Support  |         |   |   |   |         |   |   |   |         |   |   |   |
| (U) AN/APX-117, 118, & 119 IFF Systems Certified     |         |   |   | * |         |   |   |   |         |   |   |   |
| (U) AN/TPX-56 IFF System Certified                   |         |   |   | * |         |   |   |   |         |   |   |   |
| (U) AN/UPX-37 IFF System Certified                   |         |   |   | * |         |   |   |   |         |   |   |   |
| (U) Complete AN/APX-113, 114 Certification           |         |   |   |   |         |   |   |   | X       |   |   |   |
| (U) Complete ATCBI-6 Certification                   |         |   |   |   |         |   |   |   | X       |   |   |   |
| (U) C-35, C-40 IFF Integration Support Completed     |         |   |   | * |         |   |   |   |         |   |   |   |

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PROJECT

**2597**

(U) F. Schedule Profile Continued

|   | <u>FY 2002</u> |   |   |   | <u>FY 2003</u> |   |   |   | <u>FY 2004</u> |   |   |   |
|---|----------------|---|---|---|----------------|---|---|---|----------------|---|---|---|
|   | 1              | 2 | 3 | 4 | 1              | 2 | 3 | 4 | 1              | 2 | 3 | 4 |
| (U) Mode V Engineering Specification Comp             |                |   |   |   |                | X |   |   |                |   |   |   |
| (U) F-35 IFF Integration Support Started              |                | * |   |   |                |   |   |   |                |   |   |   |
| (U) F-15, F-16 IFF Integration Support Started        |                |   | * |   |                |   |   |   |                |   |   |   |
| (U) F-22 IFF Integration Support Started              |                |   |   |   |                | X |   |   |                |   |   |   |
| (U) 5. Integrated Management Team                     |                |   |   |   |                |   |   |   |                |   |   |   |
| (U) Initial Air-to-Air CID Tech Roadmap Comp          |                |   |   | * |                |   |   |   |                |   |   |   |
| (U) Air-to-Air CID Tech Roadmap Update                |                |   |   |   |                |   |   | X |                |   |   | X |
| (U) Initial Air-to-Ground CID Tech Roadmap Comp       |                |   |   |   |                | X |   |   |                |   |   |   |
| (U) Air-to-Ground CID Tech Roadmap Update             |                |   |   |   |                |   |   |   |                | X |   |   |
| (U) Complete Mode V Acquisition Strategy              |                |   |   |   |                | X |   |   |                |   |   |   |
| (U) Start Mode V Fielding Support                     |                |   |   |   |                |   | X |   |                |   |   |   |
| (U) Start Mode V IFF Flight Demo Planning and Support |                |   |   |   |                |   | X |   |                |   |   |   |
| (U) 6. CID Studies and Demos                          |                |   |   |   |                |   |   |   |                |   |   |   |
| (U) AFSAA Analysis of Alternative Start               |                | * |   |   |                |   |   |   |                |   |   |   |
| (U) AFSAA AoA Completion                              |                |   |   |   |                |   | X |   |                |   |   |   |
| (U) Mode V IFF Flight Demonstration                   |                |   |   |   |                |   |   |   |                |   |   | X |
| * denotes completed events                            |                |   |   |   |                |   |   |   |                |   |   |   |
| X denotes planned events                              |                |   |   |   |                |   |   |   |                |   |   |   |

## UNCLASSIFIED

| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)                           |   |                    |  |                   |   |                   |         | DATE<br>February 2003 |         |       |
|--|---|--------------------|--|-------------------|---|-------------------|---------|-----------------------|---------|-------|
| BUDGET ACTIVITY  |   |                    |  |                   | PE NUMBER AND TITLE                       |                   |         |                       | PROJECT |       |
| 04 - Advanced Component Development and Prototypes (ACD&P)                   |   |                    |  |                   | 0603742F Combat Identification Technology |                   |         |                       | 2597    |       |
| (U) A. Project Cost Breakdown (\$ in Thousands)                              |   |                    |  |                   |   |                   |         |                       |         |       |
|  |   |                    |  |                   | FY 2002                                   |                   | FY 2003 |                       | FY 2004 |       |
| (U)  | Analysis/Modeling and Simulation, Studies, Plans and Reports  |                    |  |                   | 512                                       |                   | 1,061   |                       | 787     |       |
| (U)  | Data Synthesis, Algorithm Development, Database Support       |                    |  |                   | 2,970                                     |                   | 3,046   |                       | 5,174   |       |
| (U)  | Hardware/Software and Prime Mission Product Development       |                    |  |                   | 7,556                                     |                   | 6,349   |                       | 6,000   |       |
| (U)  | IFF Equip Config Control, Certification & Integration Support |                    |  |                   | 673                                       |                   | 713     |                       | 791     |       |
| (U)  | CID Training, Travel, & Operations                            |                    |  |                   | 988                                       |                   | 966     |                       | 1,023   |       |
| (U)  | Flight Test   |                    |  |                   | 150                                       |                   | 0       |                       | 2,800   |       |
| (U)  | Total   |                    |  |                   | 12,849                                    |                   | 12,135  |                       | 16,575  |       |
| (U) B. Budget Acquisition History and Planning Information (\$ in Thousands) |   |                    |  |                   |   |                   |         |                       |         |       |
| (U) Performing Organizations:  |   |                    |  |                   |   |                   |         |                       |         |       |
| <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>Activity</u>  |   | <u>Vehicle</u>     |  | <u>Date</u>       |   | <u>EAC</u>        |         | <u>EAC</u>            |         |       |
| <u>Product Development Organizations</u>                                     |   |                    |  |                   |   |                   |         |                       |         |       |
| Raytheon Co, El Segundo CA   |   | CPFF               |  | Nov 98            |   | TBD               |         | TBD                   |         | 900   |
| Veridian (Veda) Dayton, OH   |   | CPFF               |  | Aug 98            |   | TBD               |         | TBD                   |         | 400   |
| Simulation Support, Inc.   |   | CP                 |  | May 99            |   | 330               |         | 330                   |         | 0     |
| National Air Intel Center  |   | AF616              |  | Annually          |   | 3,329             |         | 3,329                 |         | 0     |
| Northrop Grumman Corp  |   | CPFF               |  | Aug 93            |   | 2,270             |         | 2,270                 |         | 1,856 |
| ERASER-Raytheon, Plano TX  |   | CPFF               |  | Dec 97            |   | TBD               |         | TBD                   |         | 462   |
| Raytheon Co, El Segundo  |   | OTA                |  | Mar 00            |   | TBD               |         | TBD                   |         | 150   |
| Lockheed Martin, Orlando   |   | OTA                |  | Mar 00            |   | TBD               |         | TBD                   |         | 150   |
| Northrup Grumman, Rolling Meadows, IL  |   | OTA                |  | Mar 00            |   | TBD               |         | TBD                   |         | 150   |
| TBD  |   | TBD                |  | TBD               |   | TBD               |         | TBD                   |         | 0     |
| Project 2597   |   |                    |  |                   |   |                   |         |                       |         |       |

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Exhibit R-3 (PE 0603742F)

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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)         |             |        |       |   |       |       |       | DATE<br>February 2003 |            |       |
|--|-------------|--------|-------|---|-------|-------|-------|-----------------------|------------|-------|
| BUDGET ACTIVITY  |             |        |       | PE NUMBER AND TITLE                       |       |       |       |                       | PROJECT    |       |
| 04 - Advanced Component Development and Prototypes (ACD&P) |             |        |       | 0603742F Combat Identification Technology |       |       |       |                       | 2597       |       |
| (U) <u>Performing Organizations Continued:</u>             |             |        |       |   |       |       |       |                       |            |       |
| <u>Product Development Organizations</u>                   |             |        |       |   |       |       |       |                       |            |       |
| Demaco   | CPFF        | Aug 94 | TBD   | TBD                                       | 6,604 | 0     | 0     | 0                     | 0          | 6,604 |
| SAIC (Demaco, Inc)   | CPFF        | May 99 | TBD   | TBD                                       | 800   | 1,180 | 1,180 | 409                   | Continuing | TBD   |
| Cyberdynamics  | CPFF        | May 99 | 2,112 | 2,112                                     | 10    | 0     | 0     | 0                     | Continuing | TBD   |
| AIMS Program Office  | MIPR        | Annual | N/A   | N/A                                       | 954   | 673   | 713   | 791                   | Continuing | TBD   |
| Wright Laboratory (Camera & ATR development)               | MIPR        | Jan 01 | N/A   | N/A                                       | 2,000 | 0     | 0     | 0                     | Continuing | TBD   |
| Wright Laboratory (LV)                                     | MIPR        | N/A    | N/A   | N/A                                       | 1,353 | 2,100 | 2,226 | 0                     | Continuing | TBD   |
| Telephonics  | TBD         | Apr 03 | TBD   | TBD                                       | 0     | 0     | 586   | 305                   | Continuing | TBD   |
| <u>Support and Management Organizations</u>                |             |        |       |   |       |       |       |                       |            |       |
| USAF Combat ID IMT and Engineering Support                 | Various     | N/A    | N/A   | N/A                                       | 4,584 | 1,505 | 1,374 | 1,535                 | Continuing | TBD   |
| Wright Laboratory (HRR)                                    | MIPR        | N/A    | TBD   | TBD                                       | 2,392 | 70    | 456   | 3,124                 | Continuing | TBD   |
| Wright Laboratory (ERASER)                                 | MIPR        | N/A    | N/A   | N/A                                       | 0     | 50    | 0     | 0                     | 0          | 50    |
| US Army Tank Command                                       | MIPR        | N/A    | N/A   | N/A                                       | 0     | 21    | 0     | 0                     | 0          | 21    |
| <u>Test and Evaluation Organizations</u>                   |             |        |       |   |       |       |       |                       |            |       |
| 3246th Test Wing, Eglin AFB, FL                            | Mixed, CPF, | N/A    | TBD   | TBD                                       | 4,089 | 0     | 0     | 2,270                 | Continuing | TBD   |
| 544th Range Group, Nellis AFB, NV                          |             |        |       |   |       |       |       |                       |            |       |
| 412 Test Wing, Edwards AFB                                 | MIPR        | N/A    | TBD   | TBD                                       | 239   | 150   | 0     | 0                     | Continuing | TBD   |
| 552nd Air Control Wing, Tinker, OK                         | MIPR        | N/A    | TBD   | TBD                                       | 0     | 0     | 0     | 530                   | Continuing | TBD   |

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Exhibit R-3 (PE 0603742F)



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| RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)         |  |   |                |                | DATE<br>February 2003 |                  |
|--|--|---|----------------|----------------|-----------------------|------------------|
| BUDGET ACTIVITY  |  | PE NUMBER AND TITLE                       |                |                | PROJECT               |                  |
| 04 - Advanced Component Development and Prototypes (ACD&P) |  | 0603742F Combat Identification Technology |                |                | 2597                  |                  |
|  |  | <u>Total Prior</u>                        | <u>Budget</u>  | <u>Budget</u>  | <u>Budget</u>         | <u>Budget to</u> |
|  |  | <u>to FY 2002</u>                         | <u>FY 2002</u> | <u>FY 2003</u> | <u>FY 2004</u>        | <u>Complete</u>  |
| <u>Subtotals</u>   |  |   |                |                |                       | <u>Total</u>     |
| Subtotal Product Development                               |  | 19,448                                    | 11,053         | 10,305         | 9,116                 | TBD              |
| Subtotal Support and Management                            |  | 6,976                                     | 1,646          | 1,830          | 4,659                 | TBD              |
| Subtotal Test and Evaluation                               |  | 4,328                                     | 150            | 0              | 2,800                 | TBD              |
| Total Project  |  | 30,752                                    | 12,849         | 12,135         | 16,575                | TBD              |

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Exhibit R-3 (PE 0603742F)

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