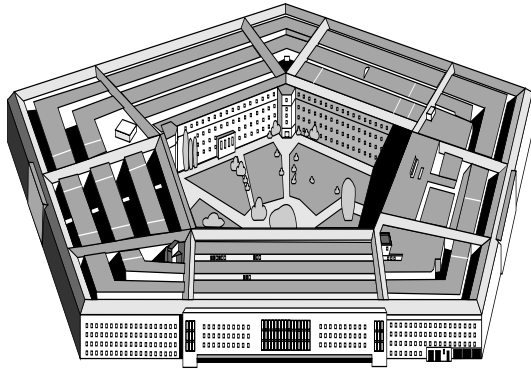


# RDT&E PROGRAMS (R-1)



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*Department of Defense Budget  
Fiscal Year 2009  
February 2008  
Office of the Under Secretary of Defense (Comptroller)*

**UNCLASSIFIED**

**Preface**

**The RDT&E Programs (R-1) is derived from and consistent with the Comptroller Information System database.**

**The R-1 is provided annually to the DoD oversight committees of the Congress coincident with the transmittal of the President's Budget. This document is also provided to Office of Assistance Secretary of Defense (Public Affairs) for use by non-DoD activities, and is available to the public on the Internet at <http://www.dod.mil/comptroller>.**

**Office of the Under Secretary of Defense (Comptroller)**

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UNCLASSIFIED  
DEPARTMENT OF DEFENSE  
FY 2009 RDT&E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2008

| <u>APPROPRIATION</u>                                      | <u>FY 2007</u>    | <u>FY 2008</u>    | <u>FY 2009</u>    |
|---|-------------------|-------------------|-------------------|
| Research, Development, Test & Eval, Army                  | 11,354,176        | 12,044,578        | 10,524,085        |
| Research, Development, Test & Eval, Navy                  | 19,724,109        | 17,799,176        | 19,337,238        |
| Research, Development, Test & Eval, AF                    | 24,491,745        | 26,069,228        | 28,066,617        |
| Tanker Replacement Transfer Fund, AF                      |                   | 150,000           |                   |
| Research, Development, Test & Eval, DW                    | 21,839,175        | 20,642,594        | 21,499,229        |
| Operational Test & Eval, Defense                          | 180,204           | 178,267           | 188,772           |
| <b>Total Research, Development, Test &amp; Evaluation</b> | <b>77,589,409</b> | <b>76,883,843</b> | <b>79,615,941</b> |

UNCLASSIFIED  
DEPARTMENT OF DEFENSE  
FY 2009 RDT&E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2008

| <u>Summary Recap of Budget Activities</u>                 | <u>FY 2007</u>    | <u>FY 2008</u>    | <u>FY 2009</u>    |
|---|-------------------|-------------------|-------------------|
| Basic Research  | 1,524,708         | 1,783,875         | 1,698,622         |
| Applied Research  | 5,103,483         | 5,058,215         | 4,244,906         |
| Advanced Technology Development                           | 6,210,546         | 5,986,985         | 5,531,827         |
| Advanced Component Development & Prototypes               | 15,925,127        | 15,557,062        | 15,773,927        |
| System Development & Demonstration                        | 19,119,261        | 18,183,542        | 19,536,909        |
| RDT&E Management Support                                  | 5,466,132         | 4,491,260         | 4,369,134         |
| Operational Systems Development                           | 24,240,152        | 25,822,904        | 28,460,616        |
| <b>Total Research, Development, Test &amp; Evaluation</b> | <b>77,589,409</b> | <b>76,883,843</b> | <b>79,615,941</b> |
| <br>  |                   |                   |                   |
| <u>Summary Recap of FYDP Programs</u>                     |                   |                   |                   |
| Strategic Forces  | 651,066           | 753,866           | 645,853           |
| General Purpose Forces                                    | 5,690,891         | 5,024,500         | 6,199,572         |
| Intelligence and Communications                           | 15,951,338        | 17,786,045        | 19,648,236        |
| Mobility Forces   | 680,872           | 1,039,049         | 678,316           |
| Research and Development                                  | 53,398,090        | 51,193,825        | 51,493,290        |
| Central Supply and Maintenance                            | 444,176           | 462,601           | 406,904           |
| Training Medical and Other                                | 8,418             | 8,192             | 8,478             |
| Administration and Associated Activities                  | 175,717           | 163,424           | 177,501           |
| Support of Other Nations                                  | 47,174            | 35,210            | 31,666            |
| Special Operations Forces                                 | 541,667           | 417,131           | 326,125           |
| <b>Total Research, Development, Test &amp; Evaluation</b> | <b>77,589,409</b> | <b>76,883,843</b> | <b>79,615,941</b> |

UNCLASSIFIED  
DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2008

| <u>Summary Recap of Budget Activities</u>                 | <u>FY 2007</u>    | <u>FY 2008</u>    | <u>FY 2009</u>    |
|---|-------------------|-------------------|-------------------|
| Basic Research  | 353,401           | 379,064           | 379,393           |
| Applied Research  | 1,188,678         | 1,175,294         | 723,502           |
| Advanced Technology Development                           | 1,253,792         | 1,336,998         | 738,858           |
| Advanced Component Development & Prototypes               | 522,833           | 1,140,451         | 951,822           |
| System Development & Demonstration                        | 5,179,195         | 5,181,817         | 4,981,024         |
| RDT&E Management Support                                  | 1,462,511         | 1,186,345         | 1,113,197         |
| Operational Systems Development                           | 1,393,766         | 1,644,609         | 1,636,289         |
| <b>Total Research, Development, Test &amp; Eval, Army</b> | <b>11,354,176</b> | <b>12,044,578</b> | <b>10,524,085</b> |
| <br>  |                   |                   |                   |
| <u>Summary Recap of FYDP Programs</u>                     |                   |                   |                   |
| Strategic Forces  | 237,795           | 478,204           | 356,434           |
| General Purpose Forces                                    | 502,197           | 553,199           | 760,008           |
| Intelligence and Communications                           | 477,735           | 467,291           | 389,991           |
| Research and Development                                  | 10,024,922        | 10,457,556        | 8,947,545         |
| Central Supply and Maintenance                            | 110,616           | 88,328            | 70,107            |
| Administration and Associated Activities                  | 226               |                   |                   |
| Support of Other Nations                                  | 685               |                   |                   |
| <b>Total Research, Development, Test &amp; Eval, Army</b> | <b>11,354,176</b> | <b>12,044,578</b> | <b>10,524,085</b> |

DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|----------------|----------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008        | FY 2009        |             |
| 1          | 0601101A                     | In-House Laboratory Independent<br>Research           | 01  | 18,404               | 21,528         | 19,832         | U           |
| 2          | 0601102A                     | Defense Research Sciences                             | 01  | 166,403              | 165,020        | 176,959        | U           |
| 3          | 0601103A                     | University Research Initiatives                       | 01  | 76,331               | 82,416         | 76,980         | U           |
| 4          | 0601104A                     | University and Industry Research<br>Centers           | 01  | 92,263               | 110,100        | 105,622        | U           |
|            | <b>Basic Research</b>        |   |     | <b>353,401</b>       | <b>379,064</b> | <b>379,393</b> |             |
| 5          | 0602105A                     | Materials Technology                                  | 02  | 62,254               | 64,517         | 26,985         | U           |
| 6          | 0602120A                     | Sensors and Electronic<br>Survivability               | 02  | 48,396               | 62,910         | 46,147         | U           |
| 7          | 0602122A                     | TRACTOR HIP   | 02  | 8,261                | 4,338          | 18,192         | U           |
| 8          | 0602211A                     | Aviation Technology                                   | 02  | 39,383               | 43,280         | 42,013         | U           |
| 9          | 0602270A                     | Electronic Warfare Technology                         | 02  | 30,458               | 30,013         | 16,611         | U           |
| 10         | 0602303A                     | Missile Technology                                    | 02  | 66,141               | 60,935         | 48,174         | U           |
| 11         | 0602307A                     | Advanced Weapons Technology                           | 02  | 25,996               | 32,705         | 19,664         | U           |
| 12         | 0602308A                     | Advanced Concepts and Simulation                      | 02  | 23,921               | 22,903         | 17,048         | U           |
| 13         | 0602601A                     | Combat Vehicle and Automotive<br>Technology           | 02  | 88,749               | 93,622         | 55,234         | U           |
| 14         | 0602618A                     | Ballistics Technology                                 | 02  | 62,516               | 68,899         | 71,550         | U           |
| 15         | 0602622A                     | Chemical, Smoke and Equipment<br>Defeating Technology | 02  | 12,665               | 8,976          | 2,295          | U           |
| 16         | 0602623A                     | Joint Service Small Arms Program                      | 02  | 6,012                | 6,962          | 7,531          | U           |
| 17         | 0602624A                     | Weapons and Munitions Technology                      | 02  | 120,794              | 102,681        | 30,576         | U           |
| 18         | 0602705A                     | Electronics and Electronic Devices                    | 02  | 80,621               | 105,492        | 45,278         | U           |
| 19         | 0602709A                     | Night Vision Technology                               | 02  | 35,324               | 34,924         | 25,647         | U           |
| 20         | 0602712A                     | Countermining Systems                                 | 02  | 26,332               | 30,294         | 21,815         | U           |

DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|----------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008          | FY 2009        |             |
| 21         | 0602716A                     | Human Factors Engineering<br>Technology                 | 02  | 40,705               | 39,763           | 17,348         | U           |
| 22         | 0602720A                     | Environmental Quality Technology                        | 02  | 19,203               | 20,076           | 16,064         | U           |
| 23         | 0602782A                     | Command, Control, Communications<br>Technology          | 02  | 46,332               | 36,955           | 24,014         | U           |
| 24         | 0602783A                     | Computer and Software Technology                        | 02  | 6,602                | 9,803            | 5,495          | U           |
| 25         | 0602784A                     | Military Engineering Technology                         | 02  | 50,817               | 58,693           | 52,066         | U           |
| 26         | 0602785A                     | Manpower/Personnel/Training<br>Technology               | 02  | 15,705               | 16,102           | 16,412         | U           |
| 27         | 0602786A                     | Warfighter Technology                                   | 02  | 43,200               | 36,237           | 21,948         | U           |
| 28         | 0602787A                     | Medical Technology                                      | 02  | 228,291              | 184,214          | 75,395         | U           |
|            | <b>Applied Research</b>      |   |     | <b>1,188,678</b>     | <b>1,175,294</b> | <b>723,502</b> |             |
| 29         | 0603001A                     | Warfighter Advanced Technology                          | 03  | 63,981               | 86,103           | 46,793         | U           |
| 30         | 0603002A                     | Medical Advanced Technology                             | 03  | 291,716              | 299,676          | 59,043         | U           |
| 31         | 0603003A                     | Aviation Advanced Technology                            | 03  | 93,880               | 98,899           | 57,277         | U           |
| 32         | 0603004A                     | Weapons and Munitions Advanced<br>Technology            | 03  | 95,165               | 85,981           | 73,697         | U           |
| 33         | 0603005A                     | Combat Vehicle and Automotive<br>Advanced Technology    | 03  | 200,974              | 245,629          | 107,992        | U           |
| 34         | 0603006A                     | Command, Control, Communications<br>Advanced Technology | 03  | 11,626               | 14,082           | 9,183          | U           |
| 35         | 0603007A                     | Manpower, Personnel and Training<br>Advanced Technology | 03  | 9,022                | 6,740            | 6,853          | U           |
| 36         | 0603008A                     | Electronic Warfare Advanced<br>Technology               | 03  | 49,542               | 56,591           | 50,961         | U           |
| 37         | 0603009A                     | TRACTOR HIKE  | 03  | 9,217                | 12,553           | 14,562         | U           |
| 38         | 0603015A                     | Next Generation Training &<br>Simulation Systems        | 03  | 21,561               | 22,365           | 18,881         | U           |



DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|----------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008          | FY 2009        |             |
| 39         | 0603020A                     | TRACTOR ROSE   | 03  | 5,018                | 6,485            | 11,575         | U           |
| 40         | 0603100A                     | IED Defeat Technology Development  | 03  |                      | 2,385            |                | U           |
| 41         | 0603103A                     | Explosives Demilitarization<br>Technology  | 03  | 25,004               | 21,511           | 10,564         | U           |
| 42         | 0603105A                     | Military HIV Research  | 03  | 12,559               | 14,903           | 7,116          | U           |
| 43         | 0603125A                     | Combating Terrorism, Technology<br>Development                                   | 03  | 12,953               | 12,978           | 13,064         | U           |
| 44         | 0603238A                     | Global Surveillance/Air Defense/<br>Precision Strike Technology<br>Demonstration | 03  | 12,469               |                  |                | U           |
| 45         | 0603270A                     | Electronic Warfare Technology  | 03  | 24,674               | 41,951           | 23,996         | U           |
| 46         | 0603313A                     | Missile and Rocket Advanced<br>Technology  | 03  | 69,885               | 77,259           | 63,998         | U           |
| 47         | 0603322A                     | TRACTOR CAGE   | 03  | 18,467               | 18,330           | 12,372         | U           |
| 48         | 0603606A                     | Landmine Warfare and Barrier<br>Advanced Technology                              | 03  | 29,406               | 30,700           | 30,797         | U           |
| 49         | 0603607A                     | Joint Service Small Arms Program   | 03  | 11,788               | 10,629           | 8,809          | U           |
| 50         | 0603710A                     | Night Vision Advanced Technology   | 03  | 73,826               | 53,910           | 39,916         | U           |
| 51         | 0603728A                     | Environmental Quality Technology<br>Demonstrations                               | 03  | 16,651               | 14,887           | 15,519         | U           |
| 52         | 0603734A                     | Military Engineering Advanced<br>Technology                                      | 03  | 27,100               | 28,355           | 7,654          | U           |
| 53         | 0603772A                     | Advanced Tactical Computer<br>Science and Sensor Technology                      | 03  | 67,308               | 74,096           | 48,236         | U           |
|            |                              | <b>Advanced Technology Development</b>   |     | <b>1,253,792</b>     | <b>1,336,998</b> | <b>738,858</b> |             |
| 54         | 0603024A                     | Unique Item Identification (UID)   | 04  | 1,498                | 665              | 649            | U           |
| 55         | 0603305A                     | Army Missile Defense Systems<br>Integration(Non Space)                           | 04  | 85,637               | 127,408          | 14,005         | U           |

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DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2007              | FY 2008 | FY 2009 |             |
| 56         | 0603308A                     | Army Missile Defense Systems<br>Integration (Space)              | 04  | 29,109               | 49,285  | 19,986  | U           |
| 57         | 0603327A                     | Air and Missile Defense Systems<br>Engineering                   | 04  | 134,355              | 170,383 | 116,410 | U           |
| 58         | 0603460A                     | Joint Air-to-Ground Missile (JAGM)                               | 04  |                      | 53,160  |         | U           |
| 59         | 0603619A                     | Landmine Warfare and Barrier -<br>Adv Dev                        | 04  | 1,022                | 24,580  | 29,234  | U           |
| 60         | 0603627A                     | Smoke, Obscurant and Target<br>Defeating Sys-Adv Dev             | 04  | 5,314                | 9,363   | 3,840   | U           |
| 61         | 0603639A                     | Tank and Medium Caliber Ammunition                               | 04  | 3,476                | 47,474  | 45,866  | U           |
| 62         | 0603653A                     | Advanced Tank Armament System<br>(ATAS)                          | 04  | 8,391                | 143,568 | 108,012 | U           |
| 63         | 0603747A                     | Soldier Support and Survivability                                | 04  | 20,865               | 5,751   | 30,716  | U           |
| 64         | 0603766A                     | Tactical Electronic Surveillance<br>System - Adv Dev             | 04  |                      |         |         |             |
| 65         | 0603774A                     | Night Vision Systems Advanced<br>Development                     | 04  | 5,168                | 3,432   | 2,588   | U           |
| 66         | 0603779A                     | Environmental Quality Technology                                 | 04  | 23,693               | 18,580  | 5,355   | U           |
| 67         | 0603782A                     | Warfighter Information<br>Network-Tactical                       | 04  | 119,288              | 320,068 | 414,357 | U           |
| 68         | 0603790A                     | NATO Research and Development                                    | 04  | 4,189                | 4,927   | 5,041   | U           |
| 69         | 0603801A                     | Aviation - Adv Dev   | 04  | 8,848                | 6,440   | 7,455   | U           |
| 70         | 0603804A                     | Logistics and Engineer Equipment<br>- Adv Dev                    | 04  | 9,799                | 37,993  | 44,141  | U           |
| 71         | 0603805A                     | Combat Service Support Control<br>System Evaluation and Analysis | 04  | 8,403                | 14,959  | 17,788  | U           |
| 72         | 0603807A                     | Medical Systems - Adv Dev  | 04  | 22,511               | 29,689  | 26,308  | U           |
| 73         | 0603827A                     | Soldier Systems - Advanced<br>Development                        | 04  | 10,135               | 20,090  | 36,558  | U           |

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DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|----------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008          | FY 2009        |             |
| 74         | 0603850A                     | Integrated Broadcast Service                           | 04  |                      |                  |                |             |
|            |                              | <b>Advanced Component Development &amp; Prototypes</b> |     | <b>522,833</b>       | <b>1,140,451</b> | <b>951,822</b> |             |
| 75         | 0603808A                     | Classified Program                                     | 05  |                      |                  |                |             |
| 76         | 0604201A                     | Aircraft Avionics                                      | 05  | 43,662               | 57,420           | 71,562         | U           |
| 77         | 0604220A                     | Armed, Deployable OH-58D                               | 05  | 217,203              | 181,145          | 135,652        | U           |
| 78         | 0604270A                     | Electronic Warfare Development                         | 05  | 41,540               | 57,169           | 32,325         | U           |
| 79         | 0604321A                     | All Source Analysis System                             | 05  |                      |                  |                |             |
| 80         | 0604328A                     | TRACTOR CAGE   | 05  | 15,574               | 17,707           | 16,807         | U           |
| 81         | 0604329A                     | Common Missile   | 05  | 24,210               |                  |                | U           |
| 82         | 0604601A                     | Infantry Support Weapons                               | 05  | 44,550               | 63,026           | 42,414         | U           |
| 83         | 0604604A                     | Medium Tactical Vehicles                               | 05  | 12,469               | 6,354            | 1,949          | U           |
| 84         | 0604609A                     | Smoke, Obscurant and Target<br>Defeating Sys-SDD       | 05  | 5,129                | 1,339            | 5,603          | U           |
| 85         | 0604622A                     | Family of Heavy Tactical Vehicles                      | 05  | 13,034               | 12,666           | 2,901          | U           |
| 86         | 0604633A                     | Air Traffic Control                                    | 05  | 7,877                | 8,899            | 14,214         | U           |
| 87         | 0604642A                     | Light Tactical Wheeled Vehicles                        | 05  | 24,358               | 38,256           |                | U           |
| 88         | 0604645A                     | Armored Systems Modernization<br>(ASM)-SDD             | 05  | 2,927,532            |                  |                | U           |
| 89         | 0604646A                     | Non-Line of Sight Launch System                        | 05  | 313,981              | 253,075          | 200,099        | U           |
| 90         | 0604647A                     | Non-Line of Sight Cannon                               | 05  | 108,689              | 136,929          | 89,841         | U           |
| 91         | 0604660A                     | FCS Manned Grd Vehicles & Common<br>Grd Vehicle        | 05  |                      | 592,254          | 774,257        | U           |
| 92         | 0604661A                     | FCS Systems of Systems Engr &<br>Program Mgmt          | 05  |                      | 1,497,321        | 1,413,945      | U           |
| 93         | 0604662A                     | FCS Reconnaissance (UAV) Platforms                     | 05  |                      | 43,388           | 34,379         | U           |
| 94         | 0604663A                     | FCS Unmanned Ground Vehicles                           | 05  |                      | 90,091           | 96,918         | U           |

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DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2007              | FY 2008 | FY 2009 |             |
| 95         | 0604664A                     | FCS Unattended Ground Sensors                                  | 05  |                      | 10,929  | 12,967  | U           |
| 96         | 0604665A                     | FCS Sustainment & Training R&D                                 | 05  |                      | 647,649 | 539,145 | U           |
| 97         | 0604666A                     | Modular Brigade Enhancement                                    | 05  | 27,900               | 64,385  | 64,900  | U           |
| 98         | 0604710A                     | Night Vision Systems - SDD                                     | 05  | 40,325               | 47,317  | 44,508  | U           |
| 99         | 0604713A                     | Combat Feeding, Clothing, and<br>Equipment                     | 05  | 2,922                | 2,485   | 2,499   | U           |
| 100        | 0604715A                     | Non-System Training Devices - SDD                              | 05  | 122,258              | 35,731  | 35,424  | U           |
| 101        | 0604741A                     | Air Defense Command, Control and<br>Intelligence - SDD         | 05  | 58,492               | 21,375  | 22,415  | U           |
| 102        | 0604742A                     | Constructive Simulation Systems<br>Development                 | 05  | 38,849               | 31,645  | 26,244  | U           |
| 103        | 0604746A                     | Automatic Test Equipment<br>Development                        | 05  | 7,896                | 9,961   | 23,582  | U           |
| 104        | 0604760A                     | Distributive Interactive<br>Simulations (DIS) - SDD            | 05  | 20,052               | 18,180  | 16,095  | U           |
| 105        | 0604780A                     | Combined Arms Tactical Trainer<br>(CATT) Core                  | 05  | 37,683               | 36,800  | 29,468  | U           |
| 106        | 0604783A                     | Joint Network Management System                                | 05  | 5,026                | 2,759   | 676     | U           |
| 107        | 0604802A                     | Weapons and Munitions - SDD                                    | 05  | 96,673               | 65,236  | 52,140  | U           |
| 108        | 0604804A                     | Logistics and Engineer Equipment<br>- SDD                      | 05  | 33,205               | 47,108  | 37,718  | U           |
| 109        | 0604805A                     | Command, Control, Communications<br>Systems - SDD              | 05  | 10,766               | 9,942   | 9,795   | U           |
| 110        | 0604807A                     | Medical Materiel/Medical<br>Biological Defense Equipment - SDD | 05  | 22,226               | 27,745  | 34,971  | U           |
| 111        | 0604808A                     | Landmine Warfare/Barrier - SDD                                 | 05  | 97,555               | 160,079 | 126,475 | U           |
| 112        | 0604812A                     | Classified Program   | 05  |                      |         |         |             |
| 113        | 0604814A                     | Artillery Munitions  | 05  | 99,344               | 64,214  | 78,197  | U           |

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DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number                  | Item   | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|---|--|-----|----------------------|------------------|------------------|-------------|
|            |   |  |     | FY 2007              | FY 2008          | FY 2009          |             |
| 114        | 0604817A                                      | Combat Identification                                  | 05  | 38                   | 11,290           | 10,909           | U           |
| 115        | 0604818A                                      | Army Tactical Command & Control<br>Hardware & Software | 05  | 67,619               | 100,132          | 67,535           | U           |
| 116        | 0604820A                                      | Radar Development                                      | 05  | 2,446                | 7,022            |                  | U           |
| 117        | 0604822A                                      | General Fund Enterprise Business<br>System (GFEBs)     | 05  | 59,998               | 111,873          | 60,308           | U           |
| 118        | 0604823A                                      | Firefinder   | 05  | 53,408               | 76,767           | 47,845           | U           |
| 119        | 0604827A                                      | Soldier Systems - Warrior Dem/Val                      | 05  | 28,227               | 1,589            | 15,790           | U           |
| 120        | 0604854A                                      | Artillery Systems                                      | 05  | 1,598                | 24,067           | 42,300           | U           |
| 121        | 0604869A                                      | Patriot/MEADS Combined Aggregate<br>Program (CAP)      | 05  | 322,915              | 369,786          | 431,270          | U           |
| 122        | 0604870A                                      | Nuclear Arms Control Monitoring<br>Sensor Network      | 05  | 7,193                | 7,253            | 6,260            | U           |
| 123        | 0605013A                                      | Information Technology Development                     | 05  | 104,435              | 106,075          | 73,740           | U           |
| 124        | 0605450A                                      | Joint Air-to-Ground Missile (JAGM)                     | 05  |                      |                  | 118,517          | U           |
|            | <b>System Development &amp; Demonstration</b> |  |     | <b>5,179,195</b>     | <b>5,181,817</b> | <b>4,981,024</b> |             |
| 125        | 0603808A                                      | Classified Program                                     | 06  |                      |                  |                  |             |
| 126        | 0604256A                                      | Threat Simulator Development                           | 06  | 23,258               | 23,339           | 21,416           | U           |
| 127        | 0604258A                                      | Target Systems Development                             | 06  | 10,113               | 17,787           | 13,498           | U           |
| 128        | 0604759A                                      | Major T&E Investment                                   | 06  | 64,067               | 66,276           | 64,618           | U           |
| 129        | 0604812A                                      | Classified Program                                     | 06  |                      |                  |                  |             |
| 130        | 0605103A                                      | Rand Arroyo Center                                     | 06  | 20,792               | 19,149           | 16,339           | U           |
| 131        | 0605301A                                      | Army Kwajalein Atoll                                   | 06  | 173,455              | 180,052          | 174,601          | U           |
| 132        | 0605326A                                      | Concepts Experimentation Program                       | 06  | 24,787               | 29,652           | 28,271           | U           |
| 133        | 0605502A                                      | Small Business Innovative Research                     | 06  | 272,163              | 2,385            |                  | U           |
| 134        | 0605601A                                      | Army Test Ranges and Facilities                        | 06  | 381,740              | 355,715          | 342,079          | U           |

DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|------------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008          | FY 2009          |             |
| 135        | 0605602A                     | Army Technical Test<br>Instrumentation and Targets     | 06  | 82,525               | 85,862           | 74,624           | U           |
| 136        | 0605604A                     | Survivability/Lethality Analysis                       | 06  | 42,769               | 41,681           | 41,066           | U           |
| 137        | 0605605A                     | DOD High Energy Laser Test<br>Facility                 | 06  | 16,135               | 8,746            | 2,835            | U           |
| 138        | 0605606A                     | Aircraft Certification                                 | 06  | 4,524                | 4,658            | 5,054            | U           |
| 139        | 0605702A                     | Meteorological Support to RDT&E<br>Activities          | 06  | 8,302                | 8,294            | 8,289            | U           |
| 140        | 0605706A                     | Materiel Systems Analysis                              | 06  | 16,464               | 16,423           | 17,028           | U           |
| 141        | 0605709A                     | Exploitation of Foreign Items                          | 06  |                      |                  |                  |             |
| 142        | 0605712A                     | Support of Operational Testing                         | 06  | 79,212               | 78,797           | 72,942           | U           |
| 143        | 0605716A                     | Army Evaluation Center                                 | 06  | 55,554               | 61,295           | 63,382           | U           |
| 144        | 0605718A                     | Simulation & Modeling for Acq,<br>Rqts, & Tng (SMART)  | 06  | 5,270                | 6,302            | 5,325            | U           |
| 145        | 0605801A                     | Programwide Activities                                 | 06  | 70,598               | 73,256           | 73,748           | U           |
| 146        | 0605803A                     | Technical Information Activities                       | 06  | 51,266               | 42,715           | 42,905           | U           |
| 147        | 0605805A                     | Munitions Standardization,<br>Effectiveness and Safety | 06  | 36,145               | 40,947           | 20,857           | U           |
| 148        | 0605857A                     | Environmental Quality Technology<br>Mgmt Support       | 06  | 4,279                | 4,926            | 5,125            | U           |
| 149        | 0605898A                     | Management HQ - R&D                                    | 06  | 13,893               | 14,797           | 15,665           | U           |
| 150        | 0909999A                     | Financing for Cancelled Account<br>Adjustments         | 06  | 226                  |                  |                  | U           |
|            |                              | <b>RDT&amp;E Management Support</b>                    |     | <b>1,462,511</b>     | <b>1,186,345</b> | <b>1,113,197</b> |             |
| 151        | 0603778A                     | MLRS Product Improvement Program                       | 07  | 63,189               | 53,712           | 59,749           | U           |
| 152        | 0603820A                     | Weapons Capability Modifications<br>UAV                | 07  | 1,549                | 3,875            |                  | U           |
| 153        | 0102419A                     | Aerostat Joint Project Office                          | 07  | 237,795              | 478,204          | 356,434          | U           |

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DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 154        | 0203726A                     | Adv Field Artillery Tactical Data System            | 07  | 18,848               | 16,730  | 15,860  | U           |
| 155        | 0203735A                     | Combat Vehicle Improvement Programs                 | 07  | 13,873               | 41,192  | 141,114 | U           |
| 156        | 0203740A                     | Maneuver Control System                             | 07  | 33,947               | 45,191  | 37,151  | U           |
| 157        | 0203744A                     | Aircraft Modifications/Product Improvement Programs | 07  | 299,405              | 328,514 | 452,787 | U           |
| 158        | 0203752A                     | Aircraft Engine Component Improvement Program       | 07  | 836                  | 1,467   | 332     | U           |
| 159        | 0203758A                     | Digitization  | 07  | 14,490               | 9,675   | 9,534   | U           |
| 160        | 0203759A                     | Force XXI Battle Command, Brigade and Below (FBCB2) | 07  | 26,068               | 32,194  | 38,418  | U           |
| 161        | 0203764A                     | Tactical Wheeled Vehicle Improvement Program        | 07  | 11,742               |         |         | U           |
| 162        | 0203801A                     | Missile/Air Defense Product Improvement Program     | 07  | 16,529               | 30,026  | 37,871  | U           |
| 163        | 0203802A                     | Other Missile Product Improvement Programs          | 07  | 19,086               | 1,885   | 1,527   | U           |
| 164        | 0203808A                     | TRACTOR CARD  | 07  | 7,013                | 16,467  | 19,601  | U           |
| 165        | 0208010A                     | Joint Tactical Communications Program (TRI-TAC)     | 07  | 5,621                | 1,527   | 920     | U           |
| 166        | 0208053A                     | Joint Tactical Ground System                        | 07  | 14,987               | 23,215  | 1,957   | U           |
| 167        | 0208058A                     | Joint High Speed Vessel (JHSV)                      | 07  | 19,752               | 5,116   | 2,936   | U           |
| 168        | 0301359A                     | Special Army Program                                | 07  |                      |         |         |             |
| 169        | 0303028A                     | Security and Intelligence Activities                | 07  | 11,788               | 4,571   |         | U           |
| 170        | 0303140A                     | Information Systems Security Program                | 07  | 56,583               | 31,403  | 38,090  | U           |
| 171        | 0303141A                     | Global Combat Support System                        | 07  | 47,092               | 94,089  | 104,934 | U           |

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DEPARTMENT OF THE ARMY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 2040A Research, Development, Test &amp; Eval, Army

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                   |                   | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|-------------------|-------------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008           | FY 2009           |             |
| 172        | 0303142A                     | SATCOM Ground Environment (SPACE)                         | 07  | 31,790               | 107,092           | 106,327           | U           |
| 173        | 0303150A                     | WWMCCS/Global Command and Control System                  | 07  | 16,392               | 24,620            | 12,922            | U           |
| 174        | 0303158A                     | Joint Command and Control Program (JC2)                   | 07  | 3,929                | 10,330            | 15,203            | U           |
| 175        | 0305204A                     | Tactical Unmanned Aerial Vehicles                         | 07  | 171,257              | 100,854           | 50,976            | U           |
| 176        | 0305206A                     | Airborne Reconnaissance Systems                           | 07  |                      |                   |                   |             |
| 177        | 0305208A                     | Distributed Common Ground/Surface Systems                 | 07  |                      |                   |                   |             |
| 178        | 0702239A                     | Avionics Component Improvement Program                    | 07  | 1,281                | 1,017             | 1,023             | U           |
| 179        | 0708045A                     | End Item Industrial Preparedness Activities               | 07  | 109,335              | 87,311            | 69,084            | U           |
| 180        | 1001018A                     | NATO Joint STARS  | 07  | 685                  |                   |                   | U           |
|            |                              | <b>Operational Systems Development</b>                    |     | <b>1,393,766</b>     | <b>1,644,609</b>  | <b>1,636,289</b>  |             |
|            |                              | <b>Total Research, Development, Test &amp; Eval, Army</b> |     | <b>11,354,176</b>    | <b>12,044,578</b> | <b>10,524,085</b> |             |



UNCLASSIFIED  
DEPARTMENT OF THE NAVY  
FY 2009 RDT&E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2008

| <u>Summary Recap of Budget Activities</u>                 | <u>FY 2007</u>    | <u>FY 2008</u>    | <u>FY 2009</u>    |
|---|-------------------|-------------------|-------------------|
| Basic Research  | 482,290           | 497,677           | 528,276           |
| Applied Research  | 772,812           | 801,020           | 633,338           |
| Advanced Technology Development                           | 751,242           | 722,352           | 678,683           |
| Advanced Component Development & Prototypes               | 3,636,508         | 3,050,591         | 3,440,400         |
| System Development & Demonstration                        | 8,774,390         | 7,977,139         | 8,682,052         |
| RDT&E Management Support                                  | 1,182,081         | 1,075,823         | 954,672           |
| Operational Systems Development                           | 4,124,786         | 3,674,574         | 4,419,817         |
| <b>Total Research, Development, Test &amp; Eval, Navy</b> | <b>19,724,109</b> | <b>17,799,176</b> | <b>19,337,238</b> |

Summary Recap of FYDP Programs

|   |                   |                   |                   |
|---|-------------------|-------------------|-------------------|
| Strategic Forces  | 204,012           | 140,042           | 169,130           |
| General Purpose Forces                                    | 1,089,434         | 871,741           | 995,326           |
| Intelligence and Communications                           | 1,448,501         | 1,418,383         | 1,707,653         |
| Research and Development                                  | 16,886,721        | 15,272,228        | 16,380,293        |
| Central Supply and Maintenance                            | 86,578            | 91,812            | 79,688            |
| Training Medical and Other                                | 5,049             | 4,970             | 5,148             |
| Administration and Associated Activities                  | 3,814             |                   |                   |
| <b>Total Research, Development, Test &amp; Eval, Navy</b> | <b>19,724,109</b> | <b>17,799,176</b> | <b>19,337,238</b> |

DEPARTMENT OF THE NAVY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|----------------|----------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008        | FY 2009        |             |
| 1          | 0601103N                     | University Research Initiatives                    | 01  | 87,134               | 98,057         | 103,707        | U           |
| 2          | 0601152N                     | In-House Laboratory Independent<br>Research        | 01  | 15,575               | 16,403         | 17,298         | U           |
| 3          | 0601153N                     | Defense Research Sciences                          | 01  | 379,581              | 383,217        | 407,271        | U           |
|            | <b>Basic Research</b>        |  |     | <b>482,290</b>       | <b>497,677</b> | <b>528,276</b> |             |
| 4          | 0602114N                     | Power Projection Applied Research                  | 02  | 112,088              | 106,667        | 79,913         | U           |
| 5          | 0602123N                     | Force Protection Applied Research                  | 02  | 154,217              | 194,477        | 131,310        | U           |
| 6          | 0602131M                     | Marine Corps Landing Force<br>Technology           | 02  | 40,822               | 31,813         | 36,480         | U           |
| 7          | 0602234N                     | Materials, Electronics and<br>Computer Technology  | 02  | 971                  | 1,987          |                | U           |
| 8          | 0602235N                     | Common Picture Applied Research                    | 02  | 86,852               | 103,751        | 77,054         | U           |
| 9          | 0602236N                     | Warfighter Sustainment Applied<br>Research         | 02  | 114,975              | 107,564        | 93,862         | U           |
| 10         | 0602271N                     | RF Systems Applied Research                        | 02  | 52,059               | 52,529         | 54,830         | U           |
| 11         | 0602435N                     | Ocean Warfighting Environment<br>Applied Research  | 02  | 56,462               | 53,967         | 47,278         | U           |
| 12         | 0602651M                     | Joint Non-Lethal Weapons Applied<br>Research       | 02  | 5,875                | 5,997          | 6,084          | U           |
| 13         | 0602747N                     | Undersea Warfare Applied Research                  | 02  | 92,456               | 71,764         | 58,658         | U           |
| 14         | 0602782N                     | Mine and Expeditionary Warfare<br>Applied Research | 02  | 56,035               | 70,504         | 47,869         | U           |
|            | <b>Applied Research</b>      |  |     | <b>772,812</b>       | <b>801,020</b> | <b>633,338</b> |             |
| 15         | 0603114N                     | Power Projection Advanced<br>Technology            | 03  | 111,176              | 85,977         | 60,360         | U           |
| 16         | 0603123N                     | Force Protection Advanced<br>Technology            | 03  | 142,925              | 119,562        | 55,099         | U           |
| 17         | 0603235N                     | Common Picture Advanced Technology                 | 03  | 63,076               | 92,401         | 104,578        | U           |

DEPARTMENT OF THE NAVY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|----------------|----------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008        | FY 2009        |             |
| 18         | 0603236N                     | Warfighter Sustainment Advanced<br>Technology         | 03  | 92,732               | 101,007        | 112,520        | U           |
| 19         | 0603271N                     | RF Systems Advanced Technology                        | 03  | 94,653               | 41,204         | 37,058         | U           |
| 20         | 0603640M                     | USMC Advanced Technology<br>Demonstration (ATD)       | 03  | 82,521               | 77,760         | 100,787        | U           |
| 21         | 0603651M                     | Joint Non-Lethal Weapons<br>Technology Development    | 03  | 1,400                | 10,736         | 11,020         | U           |
| 22         | 0603729N                     | Warfighter Protection Advanced<br>Technology          | 03  | 55,533               | 49,418         | 12,129         | U           |
| 23         | 0603747N                     | Undersea Warfare Advanced<br>Technology               | 03  | 34,239               | 75,422         | 81,490         | U           |
| 24         | 0603758N                     | Navy Warfighting Experiments and<br>Demonstrations    | 03  | 49,191               | 40,612         | 70,216         | U           |
| 25         | 0603782N                     | Mine and Expeditionary Warfare<br>Advanced Technology | 03  | 23,796               | 28,253         | 33,426         | U           |
|            |                              | <b>Advanced Technology Development</b>                |     | <b>751,242</b>       | <b>722,352</b> | <b>678,683</b> |             |
| 26         | 0603207N                     | Air/Ocean Tactical Applications                       | 04  | 35,070               | 43,406         | 66,133         | U           |
| 27         | 0603216N                     | Aviation Survivability                                | 04  | 28,860               | 21,625         | 5,917          | U           |
| 28         | 0603237N                     | Deployable Joint Command and<br>Control               | 04  | 15,975               | 9,303          | 5,905          | U           |
| 29         | 0603254N                     | ASW Systems Development                               | 04  | 24,840               | 20,378         | 28,799         | U           |
| 30         | 0603261N                     | Tactical Airborne Reconnaissance                      | 04  | 3,944                | 4,037          | 4,298          | U           |
| 31         | 0603382N                     | Advanced Combat Systems Technology                    | 04  | 20,251               | 11,515         | 4,367          | U           |
| 32         | 0603502N                     | Surface and Shallow Water Mine<br>Countermeasures     | 04  | 113,207              | 89,175         | 119,164        | U           |
| 33         | 0603506N                     | Surface Ship Torpedo Defense                          | 04  | 49,063               | 27,451         | 49,171         | U           |
| 34         | 0603512N                     | Carrier Systems Development                           | 04  | 149,866              | 86,544         | 120,511        | U           |
| 35         | 0603513N                     | Shipboard System Component<br>Development             | 04  | 44,652               | 43,529         | 4,003          | U           |

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DEPARTMENT OF THE NAVY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2007              | FY 2008 | FY 2009 |             |
| 36         | 0603525N                     | PILOT FISH                                       | 04  | 128,408              | 127,116 | 86,017  | U           |
| 37         | 0603527N                     | RETRACT LARCH                                    | 04  | 85,385               | 88,163  | 93,078  | U           |
| 38         | 0603536N                     | RETRACT JUNIPER                                  | 04  | 37,718               | 36,553  | 159,175 | U           |
| 39         | 0603542N                     | Radiological Control                             | 04  | 1,845                | 1,522   | 1,094   | U           |
| 40         | 0603553N                     | Surface ASW                                      | 04  | 33,181               | 46,475  | 29,574  | U           |
| 41         | 0603559N                     | SSGN Conversion                                  | 04  | 25,168               |         |         | U           |
| 42         | 0603561N                     | Advanced Submarine System<br>Development         | 04  | 140,870              | 149,576 | 141,720 | U           |
| 43         | 0603562N                     | Submarine Tactical Warfare Systems               | 04  | 10,169               | 14,806  | 10,212  | U           |
| 44         | 0603563N                     | Ship Concept Advanced Design                     | 04  | 21,154               | 39,341  | 31,111  | U           |
| 45         | 0603564N                     | Ship Preliminary Design &<br>Feasibility Studies | 04  | 25,109               | 25,987  | 14,627  | U           |
| 46         | 0603570N                     | Advanced Nuclear Power Systems                   | 04  | 173,988              | 165,140 | 158,270 | U           |
| 47         | 0603573N                     | Advanced Surface Machinery Systems               | 04  | 8,107                | 1,590   |         | U           |
| 48         | 0603576N                     | CHALK EAGLE                                      | 04  | 131,863              | 207,230 | 352,858 | U           |
| 49         | 0603581N                     | Littoral Combat Ship (LCS)                       | 04  | 663,935              | 304,117 | 371,008 | U           |
| 50         | 0603582N                     | Combat System Integration                        | 04  | 58,418               | 53,872  | 54,401  | U           |
| 51         | 0603609N                     | Conventional Munitions                           | 04  | 18,726               | 8,760   | 8,124   | U           |
| 52         | 0603611M                     | Marine Corps Assault Vehicles                    | 04  | 314,935              | 247,207 | 316,052 | U           |
| 53         | 0603612M                     | USMC Mine Countermeasures Systems<br>- Adv Dev   | 04  | 5,256                | 648     |         | U           |
| 54         | 0603635M                     | Marine Corps Ground Combat/<br>Support System    | 04  | 26,784               | 56,725  | 59,049  | U           |
| 55         | 0603654N                     | Joint Service Explosive Ordnance<br>Development  | 04  | 30,616               | 81,608  | 115,086 | U           |
| 56         | 0603658N                     | Cooperative Engagement                           | 04  | 52,688               | 36,513  | 38,316  | U           |

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DEPARTMENT OF THE NAVY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 57         | 0603713N                     | Ocean Engineering Technology<br>Development                     | 04  | 20,725               | 5,080   | 7,737   | U           |
| 58         | 0603721N                     | Environmental Protection  | 04  | 27,530               | 20,618  | 19,632  | U           |
| 59         | 0603724N                     | Navy Energy Program   | 04  | 1,579                | 6,020   | 5,611   | U           |
| 60         | 0603725N                     | Facilities Improvement  | 04  | 8,179                | 9,363   | 4,086   | U           |
| 61         | 0603734N                     | CHALK CORAL   | 04  | 28,097               | 30,384  | 117,543 | U           |
| 62         | 0603739N                     | Navy Logistic Productivity                                      | 04  | 24,961               | 19,401  | 2,846   | U           |
| 63         | 0603746N                     | RETRACT MAPLE   | 04  | 342,183              | 340,318 | 138,091 | U           |
| 64         | 0603748N                     | LINK PLUMERIA   | 04  | 81,111               | 87,358  | 60,444  | U           |
| 65         | 0603751N                     | RETRACT ELM   | 04  | 57,494               | 77,876  | 139,139 | U           |
| 66         | 0603755N                     | Ship Self Defense   | 04  | 11,166               | 10,719  | 11,001  | U           |
| 67         | 0603764N                     | LINK EVERGREEN  | 04  | 54,341               | 31,090  | 75,995  | U           |
| 68         | 0603787N                     | Special Processes   | 04  | 46,575               | 40,248  | 60,678  | U           |
| 69         | 0603790N                     | NATO Research and Development                                   | 04  | 10,039               | 9,797   | 10,129  | U           |
| 70         | 0603795N                     | Land Attack Technology  | 04  | 64,339               | 51,027  | 40,028  | U           |
| 71         | 0603851M                     | Nonlethal Weapons   | 04  | 45,126               | 47,876  | 46,902  | U           |
| 72         | 0603860N                     | Joint Precision Approach and<br>Landing Systems                 | 04  | 32,594               | 69,298  | 99,929  | U           |
| 73         | 0603879N                     | Single Integrated Air Picture<br>(SIAP) System Engineer (SE)    | 04  | 40,374               | 45,456  | 41,807  | U           |
| 74         | 0603889N                     | Counterdrug RDT&E Projects                                      | 04  | 76,137               | 7,939   |         | U           |
| 75         | 0603925N                     | Directed Energy and Electric<br>Weapon Systems                  | 04  | 26,641               | 1,987   |         | U           |
| 76         | 0604272N                     | Tactical Air Directional Infrared<br>Countermeasures (TADIRCM)  | 04  | 92,490               | 32,552  | 63,244  | U           |
| 77         | 0604327N                     | Hard and Deeply Buried Target<br>Defeat System (HDBTDS) Program | 04  | 19,421               |         |         | U           |

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DEPARTMENT OF THE NAVY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008          | FY 2009          |             |
| 78         | 0604450N                     | Joint Air-to-Ground Missile (JAGM)  | 04  |                      | 14,680           |                  | U           |
| 79         | 0604707N                     | Space and Electronic Warfare<br>(SEW) Architecture/Engineering<br>Support | 04  | 45,355               | 41,592           | 47,518           | U           |
|            |                              | <b>Advanced Component Development &amp; Prototypes</b>                    |     | <b>3,636,508</b>     | <b>3,050,591</b> | <b>3,440,400</b> |             |
| 80         | 0604212N                     | Other Helo Development  | 05  | 96,810               | 40,862           | 58,210           | U           |
| 81         | 0604214N                     | AV-8B Aircraft - Eng Dev  | 05  | 20,902               | 17,011           | 29,924           | U           |
| 82         | 0604215N                     | Standards Development   | 05  | 71,240               | 107,114          | 71,920           | U           |
| 83         | 0604216N                     | Multi-Mission Helicopter Upgrade<br>Development                           | 05  | 28,881               | 76,482           | 70,329           | U           |
| 84         | 0604218N                     | Air/Ocean Equipment Engineering   | 05  | 5,431                | 5,054            | 5,750            | U           |
| 85         | 0604221N                     | P-3 Modernization Program   | 05  | 19,602               | 4,461            | 3,589            | U           |
| 86         | 0604230N                     | Warfare Support System  | 05  | 9,753                | 6,228            | 8,611            | U           |
| 87         | 0604231N                     | Tactical Command System   | 05  | 61,747               | 87,577           | 128,742          | U           |
| 88         | 0604234N                     | Advanced Hawkeye  | 05  | 483,995              | 791,707          | 484,159          | U           |
| 89         | 0604245N                     | H-1 Upgrades  | 05  | 33,512               | 3,531            | 3,795            | U           |
| 90         | 0604261N                     | Acoustic Search Sensors   | 05  | 45,789               | 18,658           | 45,790           | U           |
| 91         | 0604262N                     | V-22A   | 05  | 251,574              | 115,477          | 68,763           | U           |
| 92         | 0604264N                     | Air Crew Systems Development  | 05  | 13,563               | 23,749           | 16,192           | U           |
| 93         | 0604269N                     | EA-18   | 05  | 361,037              | 278,469          | 128,906          | U           |
| 94         | 0604270N                     | Electronic Warfare Development  | 05  | 68,746               | 43,179           | 106,932          | U           |
| 95         | 0604273N                     | VH-71A Executive Helo Development   | 05  | 613,876              | 225,391          | 1,047,835        | U           |
| 96         | 0604280N                     | Joint Tactical Radio System -<br>Navy (JTRS-Navy)                         | 05  | 774,034              | 835,366          | 834,650          | U           |
| 97         | 0604300N                     | SC-21 Total Ship System<br>Engineering                                    | 05  | 797,040              | 629,323          | 678,936          | U           |

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DEPARTMENT OF THE NAVY  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 98         | 0604307N                     | Surface Combatant Combat System Engineering                     | 05  | 174,508              | 143,065 | 188,500 | U           |
| 99         | 0604311N                     | LPD-17 Class Systems Integration                                | 05  | 8,070                | 4,213   | 985     | U           |
| 100        | 0604329N                     | Small Diameter Bomb (SDB)                                       | 05  | 9,775                | 9,623   | 19,574  | U           |
| 101        | 0604366N                     | Standard Missile Improvements                                   | 05  | 177,128              | 226,841 | 234,653 | U           |
| 102        | 0604373N                     | Airborne MCM  | 05  | 57,126               | 55,979  | 39,882  | U           |
| 103        | 0604378N                     | Naval Integrated Fire Control - Counter Air Systems Engineering | 05  | 14,359               | 14,829  | 10,533  | U           |
| 104        | 0604501N                     | Advanced Above Water Sensors                                    | 05  |                      | 118,900 | 153,558 | U           |
| 105        | 0604503N                     | SSN-688 and Trident Modernization                               | 05  | 105,706              | 118,713 | 143,453 | U           |
| 106        | 0604504N                     | Air Control   | 05  | 4,587                | 4,072   | 8,191   | U           |
| 107        | 0604512N                     | Shipboard Aviation Systems                                      | 05  | 32,294               | 27,499  | 42,843  | U           |
| 108        | 0604518N                     | Combat Information Center Conversion                            | 05  | 7,502                | 18,365  | 14,792  | U           |
| 109        | 0604558N                     | New Design SSN  | 05  | 197,539              | 244,135 | 167,357 | U           |
| 110        | 0604561N                     | SSN-21 Developments   | 05  | 2,548                | 2,403   |         | U           |
| 111        | 0604562N                     | Submarine Tactical Warfare System                               | 05  | 53,148               | 55,728  | 58,592  | U           |
| 112        | 0604567N                     | Ship Contract Design/ Live Fire T&E                             | 05  | 50,947               | 62,068  | 72,932  | U           |
| 113        | 0604601N                     | Mine Development  | 05  | 5,410                | 2,048   | 2,008   | U           |
| 114        | 0604603N                     | Unguided Conventional Air-Launched Weapons                      | 05  | 44,146               |         |         | U           |
| 115        | 0604610N                     | Lightweight Torpedo Development                                 | 05  | 33,047               | 26,502  | 50,732  | U           |
| 116        | 0604654N                     | Joint Service Explosive Ordnance Development                    | 05  | 9,849                | 10,165  | 10,858  | U           |
| 117        | 0604703N                     | Personnel, Training, Simulation, and Human Factors              | 05  | 19,754               | 8,631   | 5,263   | U           |

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DEPARTMENT OF THE NAVY  
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EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008          | FY 2009          |             |
| 118        | 0604727N                     | Joint Standoff Weapon Systems                 | 05  | 26,768               | 29,112           | 22,510           | U           |
| 119        | 0604755N                     | Ship Self Defense (Detect & Control)          | 05  | 33,948               | 34,941           | 35,999           | U           |
| 120        | 0604756N                     | Ship Self Defense (Engage: Hard Kill)         | 05  | 49,337               | 72,670           | 36,238           | U           |
| 121        | 0604757N                     | Ship Self Defense (Engage: Soft Kill/EW)      | 05  | 26,627               | 38,365           | 57,574           | U           |
| 122        | 0604761N                     | Intelligence Engineering                      | 05  | 3,878                | 1,927            | 13,750           | U           |
| 123        | 0604771N                     | Medical Development                           | 05  | 33,063               | 42,779           | 7,833            | U           |
| 124        | 0604777N                     | Navigation/ID System                          | 05  | 45,044               | 41,226           | 49,007           | U           |
| 125        | 0604784N                     | Distributed Surveillance System               | 05  | 59,049               |                  |                  | U           |
| 126        | 0604800N                     | Joint Strike Fighter (JSF)                    | 05  | 2,109,426            | 1,868,046        | 1,532,748        | U           |
| 127        | 0605013M                     | Information Technology Development            | 05  | 15,516               | 25,100           | 30,238           | U           |
| 128        | 0605013N                     | Information Technology Development            | 05  | 116,702              | 69,053           | 72,497           | U           |
| 129        | 0605172N                     | Multinational Information Sharing (MNIS)      | 05  | 19,252               |                  |                  | U           |
| 130        | 0605212N                     | CH-53K RDTE                                   | 05  | 338,087              | 388,380          | 570,484          | U           |
| 131        | 0605430N                     | C/KC-130 Avionics Modernization Program (AMP) | 05  |                      |                  | 24,407           | U           |
| 132        | 0605450N                     | Joint Air-to-Ground Missile (JAGM)            | 05  |                      |                  | 62,324           | U           |
| 133        | 0605500N                     | Multi-mission Maritime Aircraft (MMA)         | 05  | 1,099,998            | 862,303          | 1,132,026        | U           |
| 134        | 0304785N                     | Tactical Cryptologic Systems                  | 05  | 32,720               | 39,819           | 16,678           | U           |
|            |                              | <b>System Development &amp; Demonstration</b> |     | <b>8,774,390</b>     | <b>7,977,139</b> | <b>8,682,052</b> |             |
| 135        | 0604256N                     | Threat Simulator Development                  | 06  | 23,307               | 23,505           | 24,959           | U           |
| 136        | 0604258N                     | Target Systems Development                    | 06  | 38,653               | 31,684           | 80,337           | U           |
| 137        | 0604759N                     | Major T&E Investment                          | 06  | 75,709               | 40,885           | 42,391           | U           |



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## FY 2009 RDT&amp;E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|----------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008          | FY 2009        |             |
| 138        | 0605152N                     | Studies and Analysis Support -<br>Navy             | 06  | 10,296               | 7,338            | 8,084          | U           |
| 139        | 0605154N                     | Center for Naval Analyses                          | 06  | 47,583               | 47,422           | 49,745         | U           |
| 140        | 0605155N                     | Fleet Tactical Development                         | 06  | 2,526                |                  |                | U           |
| 141        | 0605502N                     | Small Business Innovative Research                 | 06  | 360,006              | 201,450          |                | U           |
| 142        | 0605804N                     | Technical Information Services                     | 06  | 25,728               | 21,059           | 713            | U           |
| 143        | 0605853N                     | Management, Technical &<br>International Support   | 06  | 43,752               | 48,441           | 51,568         | U           |
| 144        | 0605856N                     | Strategic Technical Support                        | 06  | 3,244                | 3,382            | 3,597          | U           |
| 145        | 0605861N                     | RDT&E Science and Technology<br>Management         | 06  | 70,396               | 67,747           | 69,913         | U           |
| 146        | 0605862N                     | RDT&E Instrumentation<br>Modernization             | 06  | 1,206                | 1,393            |                | U           |
| 147        | 0605863N                     | RDT&E Ship and Aircraft Support                    | 06  | 74,562               | 180,589          | 195,017        | U           |
| 148        | 0605864N                     | Test and Evaluation Support                        | 06  | 327,886              | 329,026          | 356,254        | U           |
| 149        | 0605865N                     | Operational Test and Evaluation<br>Capability      | 06  | 11,761               | 12,094           | 12,195         | U           |
| 150        | 0605866N                     | Navy Space and Electronic Warfare<br>(SEW) Support | 06  | 4,051                | 2,386            | 2,708          | U           |
| 151        | 0605867N                     | SEW Surveillance/Reconnaissance<br>Support         | 06  | 18,098               | 23,915           | 25,358         | U           |
| 152        | 0605873M                     | Marine Corps Program Wide Support                  | 06  | 33,454               | 27,039           | 24,687         | U           |
| 153        | 0305885N                     | Tactical Cryptologic Activities                    | 06  | 1,000                | 1,498            | 1,998          | U           |
| 154        | 0804758N                     | Service Support to JFCOM, JNTC                     | 06  | 5,049                | 4,970            | 5,148          | U           |
| 155        | 0909999N                     | Financing for Cancelled Account<br>Adjustments     | 06  | 3,814                |                  |                | U           |
|            |                              | <b>RDT&amp;E Management Support</b>                |     | <b>1,182,081</b>     | <b>1,075,823</b> | <b>954,672</b> |             |
| 156        | 0603660N                     | Advanced Development Projects                      | 07  |                      |                  |                |             |

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## FY 2009 RDT&amp;E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 157        | 0604227N                     | HARPOON Modifications   | 07  | 22,191               | 42,547  | 68,214  | U           |
| 158        | 0604402N                     | Unmanned Combat Air Vehicle<br>(UCAV) Advanced Component and<br>Prototype Development | 07  | 97,113               | 158,212 | 275,823 | U           |
| 159        | 0101221N                     | Strategic Sub & Weapons System<br>Support   | 07  | 123,854              | 67,758  | 80,120  | U           |
| 160        | 0101224N                     | SSBN Security Technology Program  | 07  | 41,697               | 32,445  | 34,131  | U           |
| 161        | 0101226N                     | Submarine Acoustic Warfare<br>Development   | 07  | 2,066                | 4,062   | 7,384   | U           |
| 162        | 0101402N                     | Navy Strategic Communications   | 07  | 36,395               | 35,777  | 47,495  | U           |
| 163        | 0203761N                     | Rapid Technology Transition (RTT)   | 07  | 38,370               | 39,778  | 34,469  | U           |
| 164        | 0204136N                     | F/A-18 Squadrons  | 07  | 38,944               | 49,580  | 71,232  | U           |
| 165        | 0204152N                     | E-2 Squadrons   | 07  | 9,601                | 22,483  | 54,096  | U           |
| 166        | 0204163N                     | Fleet Telecommunications<br>(Tactical)  | 07  | 27,508               | 23,582  | 26,696  | U           |
| 167        | 0204229N                     | Tomahawk and Tomahawk Mission<br>Planning Center (TMPC)                               | 07  | 22,384               | 15,687  | 14,212  | U           |
| 168        | 0204311N                     | Integrated Surveillance System  | 07  | 40,429               | 32,308  | 20,565  | U           |
| 169        | 0204413N                     | Amphibious Tactical Support Units<br>(Displacement Craft)                             | 07  | 1,758                | 1,805   | 2,325   | U           |
| 170        | 0204571N                     | Consolidated Training Systems<br>Development  | 07  | 20,296               | 9,620   | 28,017  | U           |
| 171        | 0204574N                     | Cryptologic Direct Support  | 07  | 1,420                | 1,434   | 1,441   | U           |
| 172        | 0204575N                     | Electronic Warfare (EW) Readiness<br>Support  | 07  | 26,441               | 33,779  | 24,276  | U           |
| 173        | 0205601N                     | HARM Improvement  | 07  | 97,825               | 43,565  | 31,427  | U           |
| 174        | 0205604N                     | Tactical Data Links   | 07  | 32,158               | 5,408   | 4,247   | U           |
| 175        | 0205620N                     | Surface ASW Combat System<br>Integration  | 07  | 16,221               | 18,117  | 21,720  | U           |

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FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2007              | FY 2008 | FY 2009 |             |
| 176        | 0205632N                     | MK-48 ADCAP  | 07  | 24,214               | 19,952  | 15,879  | U           |
| 177        | 0205633N                     | Aviation Improvements                                  | 07  | 97,012               | 117,805 | 122,906 | U           |
| 178        | 0205658N                     | Navy Science Assistance Program                        | 07  | 5,433                | 3,451   | 3,625   | U           |
| 179        | 0205675N                     | Operational Nuclear Power Systems                      | 07  | 69,088               | 71,264  | 71,576  | U           |
| 180        | 0206313M                     | Marine Corps Communications<br>Systems                 | 07  | 277,553              | 260,719 | 273,696 | U           |
| 181        | 0206623M                     | Marine Corps Ground Combat/<br>Supporting Arms Systems | 07  | 65,571               | 63,277  | 136,080 | U           |
| 182        | 0206624M                     | Marine Corps Combat Services<br>Support                | 07  | 149,573              | 12,750  | 9,646   | U           |
| 183        | 0207161N                     | Tactical AIM Missiles                                  | 07  | 7,777                | 4,350   | 6,679   | U           |
| 184        | 0207163N                     | Advanced Medium Range Air-to-Air<br>Missile (AMRAAM)   | 07  | 6,131                | 2,497   | 8,556   | U           |
| 185        | 0208058N                     | Joint High Speed Vessel (JHSV)                         | 07  | 13,727               | 18,530  | 11,960  | U           |
| 186        | 0301303N                     | Maritime Intelligence                                  | 07  |                      |         |         |             |
| 187        | 0301323N                     | Collection Management                                  | 07  |                      |         |         |             |
| 188        | 0301327N                     | Technical Reconnaissance and<br>Surveillance           | 07  |                      |         |         |             |
| 189        | 0301372N                     | Cyber Security Initiative - GDIP                       | 07  |                      |         |         |             |
| 190        | 0303109N                     | Satellite Communications (SPACE)                       | 07  | 728,480              | 724,771 | 652,463 | U           |
| 191        | 0303140N                     | Information Systems Security<br>Program                | 07  | 30,133               | 34,337  | 27,037  | U           |
| 192        | 0303158M                     | Joint Command and Control Program<br>(JC2)             | 07  | 972                  | 986     | 2,000   | U           |
| 193        | 0303158N                     | Joint Command and Control Program<br>(JC2)             | 07  | 4,927                | 4,797   | 4,148   | U           |
| 194        | 0305149N                     | COBRA JUDY   | 07  | 134,815              | 131,836 | 101,114 | U           |

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FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 1319N Research, Development, Test &amp; Eval, Navy

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                   |                   | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|-------------------|-------------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008           | FY 2009           |             |
| 195        | 0305160N                     | Navy Meteorological and Ocean<br>Sensors-Space (METOC)    | 07  | 8,169                | 4,782             | 8,208             | U           |
| 196        | 0305192N                     | Military Intelligence Program<br>(MIP) Activities         | 07  | 11,136               | 8,972             | 4,614             | U           |
| 197        | 0305204N                     | Tactical Unmanned Aerial Vehicles                         | 07  | 120,293              | 56,787            | 45,717            | U           |
| 198        | 0305205N                     | Endurance Unmanned Aerial Vehicles                        | 07  | 26,238               | 121,315           | 480,098           | U           |
| 199        | 0305206N                     | Airborne Reconnaissance Systems                           | 07  | 43,191               | 59,337            | 55,719            | U           |
| 200        | 0305207N                     | Manned Reconnaissance Systems                             | 07  | 101,811              | 25,137            | 13,982            | U           |
| 201        | 0305208N                     | Distributed Common Ground/Surface<br>Systems              | 07  | 17,801               | 21,141            | 44,540            | U           |
| 202        | 0307207N                     | Aerial Common Sensor (ACS)                                | 07  | 13,717               | 6,564             | 74,604            | U           |
| 203        | 0308601N                     | Modeling and Simulation Support                           | 07  | 7,287                | 7,665             | 8,007             | U           |
| 204        | 0702207N                     | Depot Maintenance (Non-IF)                                | 07  | 5,878                | 18,988            | 21,130            | U           |
| 205        | 0702239N                     | Avionics Component Improvement<br>Program                 | 07  | 1,336                | 1,600             | 1,877             | U           |
| 206        | 0708011N                     | Industrial Preparedness                                   | 07  | 59,450               | 57,313            | 56,681            | U           |
| 207        | 0708730N                     | Maritime Technology (MARITECH)                            | 07  | 19,914               | 13,911            |                   | U           |
|            |                              | <b>Operational Systems Development</b>                    |     | <b>4,124,786</b>     | <b>3,674,574</b>  | <b>4,419,817</b>  |             |
|            |                              | <b>Total Research, Development, Test &amp; Eval, Navy</b> |     | <b>19,724,109</b>    | <b>17,799,176</b> | <b>19,337,238</b> |             |

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DEPARTMENT OF THE AIR FORCE  
FY 2009 RDT&E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2008

| <u>Summary Recap of Budget Activities</u>               | <u>FY 2007</u>    | <u>FY 2008</u>    | <u>FY 2009</u>    |
|---|-------------------|-------------------|-------------------|
| Basic Research  | 395,300           | 421,095           | 452,300           |
| Applied Research  | 1,115,280         | 1,169,833         | 1,044,495         |
| Advanced Technology Development                         | 1,030,162         | 663,931           | 578,263           |
| Advanced Component Development & Prototypes             | 2,479,567         | 2,692,835         | 2,440,136         |
| System Development & Demonstration                      | 4,559,857         | 4,245,953         | 4,953,574         |
| RDT&E Management Support                                | 1,405,050         | 1,049,026         | 1,084,345         |
| Operational Systems Development                         | 13,506,529        | 15,826,555        | 17,513,504        |
| <b>Total Research, Development, Test &amp; Eval, AF</b> | <b>24,491,745</b> | <b>26,069,228</b> | <b>28,066,617</b> |
| <br>  |                   |                   |                   |
| <u>Summary Recap of FYDP Programs</u>                   |                   |                   |                   |
| Strategic Forces  | 209,259           | 135,620           | 120,289           |
| General Purpose Forces                                  | 4,013,382         | 3,514,541         | 4,358,254         |
| Intelligence and Communications                         | 9,277,447         | 11,653,705        | 12,794,513        |
| Mobility Forces   | 680,872           | 889,049           | 678,316           |
| Research and Development                                | 10,035,375        | 9,573,424         | 9,806,908         |
| Central Supply and Maintenance                          | 209,939           | 222,286           | 233,783           |
| Training Medical and Other                              | 3,369             | 3,222             | 3,330             |
| Administration and Associated Activities                | 58,315            | 73,365            | 67,314            |
| Support of Other Nations                                | 3,787             | 4,016             | 3,910             |
| <b>Total Research, Development, Test &amp; Eval, AF</b> | <b>24,491,745</b> | <b>26,069,228</b> | <b>28,066,617</b> |

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Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item                                      | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008          | FY 2009          |             |
| 1          | 0601102F                     | Defense Research Sciences                 | 01  | 271,481              | 288,601          | 309,926          | U           |
| 2          | 0601103F                     | University Research Initiatives           | 01  | 111,803              | 119,938          | 125,949          | U           |
| 3          | 0601108F                     | High Energy Laser Research<br>Initiatives | 01  | 12,016               | 12,556           | 13,425           | U           |
| 4          | 0301555F                     | Classified Programs                       | 01  |                      |                  |                  |             |
| 5          | 0301556F                     | Special Program                           | 01  |                      |                  |                  |             |
| 6          | 0305172F                     | Combined Advanced Applications            | 01  |                      |                  |                  |             |
|            |                              | <b>Basic Research</b>                     |     | <b>395,300</b>       | <b>421,095</b>   | <b>452,300</b>   |             |
| 7          | 0602015F                     | Medical Development                       | 02  |                      | 4,670            |                  | U           |
| 8          | 0602102F                     | Materials                                 | 02  | 151,438              | 179,516          | 117,143          | U           |
| 9          | 0602201F                     | Aerospace Vehicle Technologies            | 02  | 115,423              | 139,855          | 122,870          | U           |
| 10         | 0602202F                     | Human Effectiveness Applied<br>Research   | 02  | 106,435              | 92,068           | 82,091           | U           |
| 11         | 0602203F                     | Aerospace Propulsion                      | 02  | 220,143              | 217,172          | 218,049          | U           |
| 12         | 0602204F                     | Aerospace Sensors                         | 02  | 130,517              | 121,242          | 109,048          | U           |
| 13         | 0602601F                     | Space Technology                          | 02  | 101,316              | 128,397          | 117,519          | U           |
| 14         | 0602602F                     | Conventional Munitions                    | 02  | 60,150               | 58,632           | 55,963           | U           |
| 15         | 0602605F                     | Directed Energy Technology                | 02  | 48,487               | 56,915           | 62,871           | U           |
| 16         | 0602702F                     | Command Control and Communications        | 02  | 125,791              | 121,417          | 109,492          | U           |
| 17         | 0602890F                     | High Energy Laser Research                | 02  | 55,580               | 49,949           | 49,449           | U           |
|            |                              | <b>Applied Research</b>                   |     | <b>1,115,280</b>     | <b>1,169,833</b> | <b>1,044,495</b> |             |
| 18         | 0603112F                     | Advanced Materials for Weapon<br>Systems  | 03  | 83,546               | 54,871           | 41,926           | U           |
| 19         | 0603203F                     | Advanced Aerospace Sensors                | 03  | 56,634               | 62,332           | 56,916           | U           |
| 20         | 0603211F                     | Aerospace Technology Dev/Demo             | 03  | 45,443               | 66,884           | 44,918           | U           |

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| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|----------------|----------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008        | FY 2009        |             |
| 21         | 0603216F                     | Aerospace Propulsion and Power<br>Technology                   | 03  | 150,123              | 142,543        | 170,856        | U           |
| 22         | 0603231F                     | Crew Systems and Personnel<br>Protection Technology            | 03  | 39,503               | 38,406         | 26,630         | U           |
| 23         | 0603270F                     | Electronic Combat Technology                                   | 03  | 27,599               | 26,762         | 21,056         | U           |
| 24         | 0603311F                     | Ballistic Missile Technology                                   | 03  | 9,128                |                |                | U           |
| 25         | 0603401F                     | Advanced Spacecraft Technology                                 | 03  | 105,422              | 100,600        | 80,958         | U           |
| 26         | 0603444F                     | Maui Space Surveillance System<br>(MSSS)                       | 03  | 49,502               | 42,160         | 4,838          | U           |
| 27         | 0603601F                     | Conventional Weapons Technology                                | 03  | 38,602               | 18,379         | 11,813         | U           |
| 28         | 0603605F                     | Advanced Weapons Technology                                    | 03  | 74,683               | 74,383         | 44,507         | U           |
| 29         | 0603680F                     | Manufacturing Technology Program                               | 03  |                      |                | 39,729         | U           |
| 30         | 0603789F                     | C3I Advanced Development                                       | 03  | 47,352               | 32,821         | 30,103         | U           |
| 31         | 0603801F                     | Special Programs   | 03  | 299,029              |                |                | U           |
| 32         | 0603924F                     | High Energy Laser Advanced<br>Technology Program               | 03  | 3,596                | 3,790          | 4,013          | U           |
|            |                              | <b>Advanced Technology Development</b>                         |     | <b>1,030,162</b>     | <b>663,931</b> | <b>578,263</b> |             |
| 33         | 0603260F                     | Intelligence Advanced Development                              | 04  | 4,757                | 5,892          | 4,988          | U           |
| 34         | 0603287F                     | Physical Security Equipment                                    | 04  | 1,248                | 2,847          | 477            | U           |
| 35         | 0603421F                     | NAVSTAR Global Positioning System<br>III                       | 04  | 291,556              | 482,845        |                | U           |
| 36         | 0603423F                     | Global Positioning System III -<br>Operational Control Segment | 04  |                      |                | 2,975          | U           |
| 37         | 0603427F                     | GPS Operational Control Segment -<br>Backwards Compatibility   | 04  |                      |                | 304,360        | U           |
| 38         | 0603430F                     | Advanced EHF MILSATCOM (SPACE)                                 | 04  | 617,294              | 599,353        | 388,041        | U           |
| 39         | 0603432F                     | Polar MILSATCOM (SPACE)  | 04  | 33,983               | 177,535        | 237,749        | U           |

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| Line<br>No | Program<br>Element<br>Number                           | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|--|---|-----|----------------------|------------------|------------------|-------------|
|            |  |   |     | FY 2007              | FY 2008          | FY 2009          |             |
| 40         | 0603438F   | Space Control Technology  | 04  | 23,605               | 66,182           | 76,845           | U           |
| 41         | 0603742F   | Combat Identification Technology  | 04  | 23,389               | 25,875           | 29,400           | U           |
| 42         | 0603790F   | NATO Research and Development   | 04  | 4,003                | 4,253            | 4,334            | U           |
| 43         | 0603791F   | International Space Cooperative<br>R&D  | 04  | 574                  | 610              | 627              | U           |
| 44         | 0603845F   | Transformational SATCOM (TSAT)  | 04  | 700,429              | 804,739          | 842,974          | U           |
| 45         | 0603850F   | Integrated Broadcast Service  | 04  | 24,471               | 21,058           | 21,105           | U           |
| 46         | 0603851F   | Intercontinental Ballistic Missile  | 04  | 56,286               | 31,121           | 65,629           | U           |
| 47         | 0603854F   | Wideband Global SATCOM RDT&E<br>(Space)   | 04  | 43,998               | 19,091           | 12,422           | U           |
| 48         | 0603858F   | Space Radar   | 04  | 183,201              |                  |                  | U           |
| 49         | 0603859F   | Pollution Prevention  | 04  | 6,829                | 10,968           | 2,877            | U           |
| 50         | 0603860F   | Joint Precision Approach and<br>Landing Systems                                   | 04  | 9,524                | 7,451            | 7,479            | U           |
| 51         | 0604015F   | Next Generation Bomber  | 04  | 37,476               |                  |                  | U           |
| 52         | 0604796F   | Alternative Fuels   | 04  |                      |                  | 28,464           | U           |
| 53         | 0604830F   | Automated Air-to-Air Refueling  | 04  |                      |                  | 9,889            | U           |
| 54         | 0604856F   | Common Aero Vehicle (CAV)   | 04  | 31,523               | 3,974            |                  | U           |
| 55         | 0604857F   | Operationally Responsive Space  | 04  | 42,131               | 96,516           | 110,032          | U           |
| 56         | 0305178F   | National Polar-Orbiting<br>Operational Environmental<br>Satellite System (NPOESS) | 04  | 343,290              | 332,525          | 289,469          | U           |
|            | <b>Advanced Component Development &amp; Prototypes</b> |   |     | <b>2,479,567</b>     | <b>2,692,835</b> | <b>2,440,136</b> |             |
| 57         | 0603840F   | Global Broadcast Service (GBS)  | 05  | 23,157               | 29,098           | 18,790           | U           |
| 58         | 0604222F   | Nuclear Weapons Support   | 05  | 14,839               | 20,191           | 20,166           | U           |
| 59         | 0604226F   | B-1B  | 05  | 153,757              | 152,164          | 128,871          | U           |



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| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |           |           | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|-----------|-----------|-------------|
|            |                              |  |     | FY 2007              | FY 2008   | FY 2009   |             |
| 60         | 0604233F                     | Specialized Undergraduate Flight Training            | 05  | 4,112                | 14,927    | 7,462     | U           |
| 61         | 0604240F                     | B-2 Advanced Technology Bomber                       | 05  | 214,649              | 295,945   | 351,417   | U           |
| 62         | 0604261F                     | Personnel Recovery Systems                           | 05  | 103,337              | 104,289   |           | U           |
| 63         | 0604270F                     | Electronic Warfare Development                       | 05  | 95,949               | 102,601   | 54,995    | U           |
| 64         | 0604287F                     | Physical Security Equipment                          | 05  | 90                   | 34        | 52        | U           |
| 65         | 0604329F                     | Small Diameter Bomb (SDB)                            | 05  | 122,276              | 144,279   | 125,067   | U           |
| 66         | 0604421F                     | Counterspace Systems                                 | 05  | 44,596               | 63,819    | 74,918    | U           |
| 67         | 0604425F                     | Space Situation Awareness Systems                    | 05  | 166,696              | 196,363   | 210,501   | U           |
| 68         | 0604429F                     | Airborne Electronic Attack                           | 05  | 12,033               | 23,826    | 34,279    | U           |
| 69         | 0604441F                     | Space Based Infrared System (SBIRS) High EMD         | 05  | 677,926              | 583,317   | 529,771   | U           |
| 70         | 0604443F                     | Third Generation Infrared Surveillance (3GIRS)       | 05  | 67,552               | 75,410    | 149,064   | U           |
| 71         | 0604602F                     | Armament/Ordnance Development                        | 05  | 13,039               | 3,165     | 2,095     | U           |
| 72         | 0604604F                     | Submunitions   | 05  | 8,304                | 1,976     | 1,730     | U           |
| 73         | 0604617F                     | Agile Combat Support                                 | 05  | 9,715                | 12,146    | 5,790     | U           |
| 74         | 0604618F                     | Joint Direct Attack Munition                         | 05  | 20,959               |           |           | U           |
| 75         | 0604706F                     | Life Support Systems                                 | 05  | 11,273               | 13,563    | 10,998    | U           |
| 76         | 0604735F                     | Combat Training Ranges                               | 05  | 16,325               | 17,546    | 28,047    | U           |
| 77         | 0604740F                     | Integrated Command & Control Applications (IC2A)     | 05  | 26,507               | 26,593    | 177       | U           |
| 78         | 0604750F                     | Intelligence Equipment                               | 05  | 4,907                | 5,037     | 1,488     | U           |
| 79         | 0604762F                     | Common Low Observables Verification System (CLOVerS) | 05  | 4,361                |           |           | U           |
| 80         | 0604800F                     | Joint Strike Fighter (JSF)                           | 05  | 2,074,021            | 1,991,537 | 1,524,016 | U           |

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|------------|---|---|-----|----------------------|------------------|------------------|-------------|
|            |   |   |     | FY 2007              | FY 2008          | FY 2009          |             |
| 81         | 0604853F                                      | Evolved Expendable Launch Vehicle Program (SPACE) | 05  | 19,083               |                  | 33,719           | U           |
| 82         | 0605011F                                      | RDT&E for Aging Aircraft                          | 05  | 36,144               | 20,491           | 13,828           | U           |
| 83         | 0605221F                                      | Next Generation Aerial Refueling Aircraft         | 05  |                      |                  | 831,759          | U           |
| 84         | 0605277F                                      | CSAR-X RDT&E                                      | 05  |                      |                  | 305,062          | U           |
| 85         | 0605278F                                      | HC/MC-130 Recap RDT&E                             | 05  |                      |                  | 11,692           | U           |
| 86         | 0207434F                                      | Link-16 Support and Sustainment                   | 05  | 156,169              | 194,652          | 186,213          | U           |
| 87         | 0207450F                                      | E-10 Squadrons                                    | 05  | 351,924              | 39,032           | 42,215           | U           |
| 88         | 0207451F                                      | Single Integrated Air Picture (SIAP)              | 05  | 37,874               | 4,857            | 66,909           | U           |
| 89         | 0207701F                                      | Full Combat Mission Training                      | 05  | 34,046               | 71,643           | 135,152          | U           |
| 90         | 0401138F                                      | Joint Cargo Aircraft (JCA)                        | 05  | 9,781                | 20,869           | 26,777           | U           |
| 91         | 0401318F                                      | CV-22   | 05  | 12,756               | 16,583           | 18,562           | U           |
| 92         | 0401845F                                      | Airborne Senior Leader C3 (SLC3S)                 | 05  | 11,700               |                  | 1,992            | U           |
|            | <b>System Development &amp; Demonstration</b> |   |     | <b>4,559,857</b>     | <b>4,245,953</b> | <b>4,953,574</b> |             |
| 93         | 0604256F                                      | Threat Simulator Development                      | 06  | 37,411               | 39,639           | 34,568           | U           |
| 94         | 0604759F                                      | Major T&E Investment                              | 06  | 63,417               | 63,855           | 61,818           | U           |
| 95         | 0605101F                                      | RAND Project Air Force                            | 06  | 33,611               | 30,802           | 28,676           | U           |
| 96         | 0605502F                                      | Small Business Innovation Research                | 06  | 359,706              |                  |                  | U           |
| 97         | 0605712F                                      | Initial Operational Test & Evaluation             | 06  | 34,554               | 30,011           | 29,537           | U           |
| 98         | 0605807F                                      | Test and Evaluation Support                       | 06  | 713,419              | 720,952          | 787,737          | U           |
| 99         | 0605860F                                      | Rocket Systems Launch Program (SPACE)             | 06  | 26,503               | 19,023           | 14,895           | U           |
| 100        | 0605864F                                      | Space Test Program (STP)                          | 06  | 48,801               | 47,129           | 48,072           | U           |

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|------------|------------------------------|--|-----|----------------------|------------------|------------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008          | FY 2009          |             |
| 101        | 0605976F                     | Facilities Restoration and Modernization - Test and Evaluation Support | 06  | 55,473               | 59,750           | 46,234           | U           |
| 102        | 0605978F                     | Facilities Sustainment - Test and Evaluation Support                   | 06  | 28,073               | 33,849           | 28,898           | U           |
| 103        | 0804731F                     | General Skill Training   | 06  | 295                  |                  |                  | U           |
| 104        | 1001004F                     | International Activities   | 06  | 3,787                | 4,016            | 3,910            | U           |
|            |                              | <b>RDT&amp;E Management Support</b>                                    |     | <b>1,405,050</b>     | <b>1,049,026</b> | <b>1,084,345</b> |             |
| 105        | 0604263F                     | Common Vertical Lift Support Platform                                  | 07  |                      |                  | 3,868            | U           |
| 106        | 0605024F                     | Anti-Tamper Technology Executive Agency                                | 07  | 7,791                | 10,861           | 20,987           | U           |
| 107        | 0605798F                     | Analysis Support Group   | 07  |                      |                  |                  |             |
| 108        | 0101113F                     | B-52 Squadrons   | 07  | 88,420               | 42,121           | 38,651           | U           |
| 109        | 0101120F                     | Advanced Cruise Missile  | 07  | 6,767                |                  |                  | U           |
| 110        | 0101122F                     | Air-Launched Cruise Missile (ALCM)                                     | 07  | 3,620                | 4,642            | 396              | U           |
| 111        | 0101313F                     | Strat War Planning System - USSTRATCOM                                 | 07  | 24,774               | 20,130           | 17,553           | U           |
| 112        | 0101314F                     | Night Fist - USSTRATCOM  | 07  | 4,963                | 5,263            | 5,299            | U           |
| 113        | 0101815F                     | Advanced Strategic Programs  | 07  |                      |                  |                  |             |
| 114        | 0102326F                     | Region/Sector Operation Control Center Modernization Program           | 07  | 14,642               | 23,262           | 23,858           | U           |
| 115        | 0102823F                     | Strategic Aerospace Intelligence System Activities                     | 07  |                      |                  | 15               | U           |
| 116        | 0203761F                     | Warfighter Rapid Acquisition Process (WRAP) Rapid Transition Fund      | 07  | 29,613               | 14,155           | 20,807           | U           |
| 117        | 0205219F                     | MQ-9 UAV   | 07  |                      | 63,862           | 43,557           | U           |
| 118        | 0207131F                     | A-10 Squadrons   | 07  | 42,491               | 1,951            |                  | U           |

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|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2007              | FY 2008 | FY 2009 |             |
| 119        | 0207133F                     | F-16 Squadrons                                       | 07  | 124,761              | 70,172  | 123,979 | U           |
| 120        | 0207134F                     | F-15E Squadrons                                      | 07  | 134,253              | 114,519 | 184,213 | U           |
| 121        | 0207136F                     | Manned Destructive Suppression                       | 07  | 499                  |         | 5,585   | U           |
| 122        | 0207138F                     | F-22A Squadrons                                      | 07  | 459,464              | 607,515 | 700,305 | U           |
| 123        | 0207141F                     | F-117A Squadrons                                     | 07  | 11,718               |         |         | U           |
| 124        | 0207161F                     | Tactical AIM Missiles                                | 07  | 8,596                | 7,876   | 5,748   | U           |
| 125        | 0207163F                     | Advanced Medium Range Air-to-Air<br>Missile (AMRAAM) | 07  | 33,411               | 33,425  | 54,239  | U           |
| 126        | 0207170F                     | Joint Helmet Mounted Cueing<br>System (JHMCS)        | 07  | 3,220                | 5,304   | 3,192   | U           |
| 127        | 0207247F                     | AF TENCAP  | 07  | 11,160               | 11,452  | 11,578  | U           |
| 128        | 0207248F                     | Special Evaluation Program                           | 07  | 557,253              |         |         | U           |
| 129        | 0207253F                     | Compass Call   | 07  | 9,586                | 8,549   | 4,670   | U           |
| 130        | 0207268F                     | Aircraft Engine Component<br>Improvement Program     | 07  | 152,969              | 138,159 | 150,956 | U           |
| 131        | 0207277F                     | CSAF Innovation Program                              | 07  | 1,554                |         |         | U           |
| 132        | 0207325F                     | Joint Air-to-Surface Standoff<br>Missile (JASSM)     | 07  | 32,995               | 12,074  | 13,035  | U           |
| 133        | 0207410F                     | Air & Space Operations Center<br>(AOC)               | 07  | 74,841               | 100,173 | 118,834 | U           |
| 134        | 0207412F                     | Control and Reporting Center (CRC)                   | 07  | 9,202                | 24,791  | 60,590  | U           |
| 135        | 0207417F                     | Airborne Warning and Control<br>System (AWACS)       | 07  | 157,751              | 151,593 | 126,300 | U           |
| 136        | 0207418F                     | Tactical Airborne Control Systems                    | 07  | 2,262                | 3,366   | 1,530   | U           |
| 137        | 0207423F                     | Advanced Communications Systems                      | 07  | 38,215               | 33,372  | 29,782  | U           |
| 138        | 0207424F                     | Evaluation and Analysis Program                      | 07  | 2,518                | 646,380 | 794,036 | U           |
| 139        | 0207433F                     | Advanced Program Technology                          | 07  | 302,972              |         |         | U           |

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|------------|------------------------------|---|-----|----------------------|---------|-----------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009   |             |
| 140        | 0207438F                     | Theater Battle Management (TBM)<br>C4I                    | 07  | 35,950               | 9,898   | 19,437    | U           |
| 141        | 0207445F                     | Fighter Tactical Data Link                                | 07  | 88,094               | 38,944  | 62,788    | U           |
| 142        | 0207446F                     | Bomber Tactical Data Link                                 | 07  | 87,613               | 36,875  | 11,702    | U           |
| 143        | 0207448F                     | C2ISR Tactical Data Link                                  | 07  | 4,126                | 1,795   | 1,727     | U           |
| 144        | 0207449F                     | Command and Control (C2)<br>Constellation                 | 07  | 41,725               | 44,582  | 32,151    | U           |
| 145        | 0207581F                     | Joint Surveillance/Target Attack<br>Radar System (JSTARS) | 07  | 171,628              | 81,978  | 97,641    | U           |
| 146        | 0207590F                     | Seek Eagle  | 07  | 16,299               | 22,823  | 21,645    | U           |
| 147        | 0207591F                     | Advanced Program Evaluation                               | 07  | 584,563              |         |           | U           |
| 148        | 0207601F                     | USAF Modeling and Simulation                              | 07  | 22,609               | 22,814  | 28,981    | U           |
| 149        | 0207605F                     | Wargaming and Simulation Centers                          | 07  | 6,270                | 6,421   | 3,870     | U           |
| 150        | 0207697F                     | Distributed Training and Exercises                        | 07  | 5,943                | 7,474   | 7,137     | U           |
| 151        | 0208006F                     | Mission Planning Systems                                  | 07  | 139,217              | 104,575 | 97,560    | U           |
| 152        | 0208021F                     | Information Warfare Support                               | 07  | 28,028               | 11,965  | 12,220    | U           |
| 153        | 0208161F                     | Special Evaluation System                                 | 07  |                      | 765,525 | 1,077,970 | U           |
| 154        | 0301310F                     | National Air Intelligence Center                          | 07  |                      |         |           |             |
| 155        | 0301314F                     | COBRA BALL  | 07  |                      |         |           |             |
| 156        | 0301315F                     | Missile and Space Technical<br>Collection                 | 07  |                      |         |           |             |
| 157        | 0301324F                     | FOREST GREEN  | 07  |                      |         |           |             |
| 158        | 0301386F                     | GDIP Collection Management                                | 07  |                      |         |           |             |
| 159        | 0302015F                     | E-4B National Airborne Operations<br>Center (NAOC)        | 07  | 2,728                | 19,406  | 4,069     | U           |
| 160        | 0303112F                     | Air Force Communications (AIRCOM)                         | 07  |                      | 2,009   |           | U           |

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DEPARTMENT OF THE AIR FORCE  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600F Research, Development, Test &amp; Eval, AF

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 161        | 0303131F                     | Minimum Essential Emergency<br>Communications Network (MEECN) | 07  | 64,556               | 88,224  | 70,995  | U           |
| 162        | 0303140F                     | Information Systems Security<br>Program                       | 07  | 156,125              | 186,255 | 187,933 | U           |
| 163        | 0303141F                     | Global Combat Support System                                  | 07  | 22,530               | 11,756  | 4,320   | U           |
| 164        | 0303150F                     | Global Command and Control System                             | 07  | 3,204                | 4,471   | 3,218   | U           |
| 165        | 0303158F                     | Joint Command and Control Program<br>(JC2)                    | 07  | 5,651                | 5,745   | 3,234   | U           |
| 166        | 0303601F                     | MILSATCOM Terminals   | 07  | 257,226              | 384,652 | 337,098 | U           |
| 167        | 0304111F                     | Special Activities  | 07  |                      |         |         |             |
| 168        | 0304260F                     | Airborne SIGINT Enterprise                                    | 07  | 119,646              | 135,162 | 173,631 | U           |
| 169        | 0304311F                     | Selected Activities   | 07  |                      |         |         |             |
| 170        | 0304348F                     | Advanced Geospatial Intelligence<br>(AGI)                     | 07  |                      |         |         |             |
| 171        | 0305099F                     | Global Air Traffic Management<br>(GATM)                       | 07  | 12,115               | 6,638   | 6,275   | U           |
| 172        | 0305103F                     | Cyber Security Initiative                                     | 07  |                      |         | 2,083   | U           |
| 173        | 0305110F                     | Satellite Control Network (SPACE)                             | 07  | 21,238               | 26,898  | 16,758  | U           |
| 174        | 0305111F                     | Weather Service   | 07  | 41,676               | 40,959  | 47,347  | U           |
| 175        | 0305114F                     | Air Traffic Control, Approach,<br>and Landing System (ATCALs) | 07  | 3,670                | 8,293   | 6,867   | U           |
| 176        | 0305116F                     | Aerial Targets  | 07  | 4,041                | 7,329   | 34,777  | U           |
| 177        | 0305124F                     | Special Applications Program                                  | 07  |                      |         |         |             |
| 178        | 0305127F                     | Foreign Counterintelligence<br>Activities                     | 07  |                      |         |         |             |
| 179        | 0305128F                     | Security and Investigative<br>Activities                      | 07  | 493                  | 825     | 786     | U           |
| 180        | 0305142F                     | Applied Technology and Integration                            | 07  |                      |         |         |             |

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DEPARTMENT OF THE AIR FORCE  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600F Research, Development, Test &amp; Eval, AF

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 181        | 0305146F                     | Defense Joint Counterintelligence<br>Activities                   | 07  |                      |         | 39      | U           |
| 182        | 0305159F                     | Defense Reconnaissance Support<br>Activities (SPACE)              | 07  |                      |         |         |             |
| 183        | 0305160F                     | Defense Meteorological Satellite<br>Program (SPACE)               | 07  | 936                  |         |         | U           |
| 184        | 0305164F                     | NAVSTAR Global Positioning System<br>(User Equipment) (SPACE)     | 07  | 130,254              | 154,581 | 127,513 | U           |
| 185        | 0305165F                     | NAVSTAR Global Positioning System<br>(Space and Control Segments) | 07  | 160,555              | 119,089 | 91,277  | U           |
| 186        | 0305172F                     | Combined Advanced Applications                                    | 07  |                      |         |         |             |
| 187        | 0305173F                     | Space and Missile Test and<br>Evaluation Center                   | 07  | 2,526                | 3,070   | 1,985   | U           |
| 188        | 0305174F                     | Space Warfare Center  | 07  | 703                  | 1,667   | 3,003   | U           |
| 189        | 0305182F                     | Spacelift Range System (SPACE)                                    | 07  | 45,633               | 27,095  | 12,376  | U           |
| 190        | 0305193F                     | Intelligence Support to<br>Information Operations (IO)            | 07  | 1,290                | 5,927   | 1,237   | U           |
| 191        | 0305206F                     | Airborne Reconnaissance Systems                                   | 07  | 51,842               | 64,441  | 149,752 | U           |
| 192        | 0305207F                     | Manned Reconnaissance Systems                                     | 07  | 37,015               | 21,387  | 12,819  | U           |
| 193        | 0305208F                     | Distributed Common Ground/Surface<br>Systems                      | 07  | 124,007              | 107,048 | 107,834 | U           |
| 194        | 0305219F                     | MQ-1 Predator A UAV   | 07  | 77,885               | 33,781  | 24,773  | U           |
| 195        | 0305220F                     | Global Hawk UAV   | 07  | 224,126              | 274,742 | 284,292 | U           |
| 196        | 0305221F                     | Network-Centric Collaborative<br>Targeting                        | 07  | 18,466               | 8,586   | 8,807   | U           |
| 197        | 0305265F                     | GPS III Space Segment   | 07  |                      |         | 420,342 | U           |
| 198        | 0305887F                     | Intelligence Support to<br>Information Warfare                    | 07  | 5,121                | 5,305   | 5,438   | U           |
| 199        | 0305906F                     | NCCM - TW/AA System   | 07  | 42,152               | 11,720  |         | U           |

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DEPARTMENT OF THE AIR FORCE  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600F Research, Development, Test &amp; Eval, AF

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 200        | 0305913F                     | NUDET Detection System (SPACE)                                      | 07  | 59,917               | 38,279  | 41,292  | U           |
| 201        | 0305924F                     | National Security Space Office                                      | 07  | 17,351               | 10,745  | 10,797  | U           |
| 202        | 0305940F                     | Space Situation Awareness<br>Operations                             | 07  | 29,476               | 23,827  | 16,166  | U           |
| 203        | 0307141F                     | Information Operations Technology<br>Integration & Tool Development | 07  | 14,759               | 15,582  | 15,726  | U           |
| 204        | 0308699F                     | Shared Early Warning (SEW)  | 07  | 2,896                | 3,127   | 3,152   | U           |
| 205        | 0401115F                     | C-130 Airlift Squadron  | 07  | 185,554              | 250,020 | 172,560 | U           |
| 206        | 0401119F                     | C-5 Airlift Squadrons (IF)  | 07  | 137,565              | 178,990 | 125,063 | U           |
| 207        | 0401130F                     | C-17 Aircraft (IF)  | 07  | 170,527              | 180,581 | 236,047 | U           |
| 208        | 0401132F                     | C-130J Program  | 07  | 34,765               | 73,753  | 52,354  | U           |
| 209        | 0401134F                     | Large Aircraft IR Countermeasures<br>(LAIRCM)                       | 07  | 35,349               | 19,201  | 32,100  | U           |
| 210        | 0401218F                     | KC-135s   | 07  | 1,092                | 8,710   | 7,133   | U           |
| 211        | 0401219F                     | KC-10s  | 07  | 4,696                | 13,703  |         | U           |
| 212        | 0401221F                     | KC-135 Tanker Replacement   | 07  | 68,340               | 113,728 |         | U           |
| 213        | 0401314F                     | Operational Support Airlift   | 07  |                      | 4,837   |         | U           |
| 214        | 0401839F                     | Air Mobility Tactical Data Link                                     | 07  | 6,785                |         |         | U           |
| 215        | 0408011F                     | Special Tactics / Combat Control                                    | 07  | 1,962                | 8,074   | 5,728   | U           |
| 216        | 0702207F                     | Depot Maintenance (Non-IF)  | 07  | 1,411                | 1,501   | 1,531   | U           |
| 217        | 0702806F                     | Acquisition and Management Support                                  | 07  | 26,645               | 22,141  | 34,428  | U           |
| 218        | 0708011F                     | Industrial Preparedness   | 07  | 65,543               | 50,186  |         | U           |
| 219        | 0708012F                     | Logistics Support Activities  | 07  | 2,132                |         |         | U           |
| 220        | 0708610F                     | Logistics Information Technology<br>(LOGIT)                         | 07  | 90,557               | 114,599 | 189,679 | U           |
| 221        | 0708611F                     | Support Systems Development   | 07  | 23,651               | 33,859  | 8,145   | U           |



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DEPARTMENT OF THE AIR FORCE  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3600F Research, Development, Test &amp; Eval, AF

Date: FEB 2008

| Line<br>No                                   | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |            |            | S<br>E<br>C |
|--|------------------------------|---|-----|----------------------|------------|------------|-------------|
|  |                              |   |     | FY 2007              | FY 2008    | FY 2009    |             |
| 222  | 0804757F                     | Joint National Training Center                          | 07  | 2,964                | 3,108      | 3,214      | U           |
| 223  | 0808716F                     | Other Personnel Activities                              | 07  | 110                  | 114        | 116        | U           |
| 224  | 0901202F                     | Joint Personnel Recovery Agency                         | 07  | 960                  | 5,342      | 5,768      | U           |
| 225  | 0901212F                     | Service-Wide Support (Not<br>Otherwise Accounted For)   | 07  |                      | 6,454      | 3,016      | U           |
| 226  | 0901218F                     | Civilian Compensation Program                           | 07  | 13,160               | 8,019      | 8,123      | U           |
| 227  | 0901220F                     | Personnel Administration                                | 07  | 18,787               | 16,714     | 18,625     | U           |
| 228  | 0901538F                     | Financial Management Information<br>Systems Development | 07  | 25,408               | 36,836     | 31,782     | U           |
| Operational Systems Development              |                              |   |     | -----                | -----      | -----      |             |
|  |                              |   |     | 13,506,529           | 15,826,555 | 17,513,504 |             |
| Total Research, Development, Test & Eval, AF |                              |   |     | -----                | -----      | -----      |             |
|  |                              |   |     | 24,491,745           | 26,069,228 | 28,066,617 |             |

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DEPARTMENT OF THE AIR FORCE  
FY 2009 RDT&E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2008

| <u>Summary Recap of Budget Activities</u>  | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
|--|----------------|----------------|----------------|
| Basic Research                             |                | 150,000        |                |
| Total Tanker Replacement Transfer Fund, AF |                | 150,000        |                |
| <br><u>Summary Recap of FYDP Programs</u>  |                |                |                |
| Mobility Forces                            |                | 150,000        |                |
| Total Tanker Replacement Transfer Fund, AF |                | 150,000        |                |

DEPARTMENT OF THE AIR FORCE  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 3024F Tanker Replacement Transfer Fund, AF

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item                                       | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2007              | FY 2008 | FY 2009 |             |
| 1          | 0401221F                     | KC-135 Tanker Replacement                  | 01  | -----                | 150,000 | -----   | U           |
|            |                              |  |     |                      | 150,000 |         |             |
|            |                              |  |     | -----                | 150,000 | -----   |             |
|            |                              | Total Tanker Replacement Transfer Fund, AF |     |                      | 150,000 |         |             |

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 FY 2009 RDT&E PROGRAM

SUMMARY  
 (\$ IN THOUSANDS)

FEB 2008

| <u>Summary Recap of Budget Activities</u>               | <u>FY 2007</u>    | <u>FY 2008</u>    | <u>FY 2009</u>    |
|---|-------------------|-------------------|-------------------|
| Basic Research  | 293,717           | 336,039           | 338,653           |
| Applied Research  | 2,026,713         | 1,912,068         | 1,843,571         |
| Advanced Technology Development                         | 3,175,350         | 3,263,704         | 3,536,023         |
| Advanced Component Development & Prototypes             | 9,286,219         | 8,673,185         | 8,941,569         |
| System Development & Demonstration                      | 605,819           | 778,633           | 920,259           |
| RDT&E Management Support                                | 1,236,286         | 1,001,799         | 1,028,148         |
| Operational Systems Development                         | 5,215,071         | 4,677,166         | 4,891,006         |
| <b>Total Research, Development, Test &amp; Eval, DW</b> | <b>21,839,175</b> | <b>20,642,594</b> | <b>21,499,229</b> |

Summary Recap of FYDP Programs

|   |                   |                   |                   |
|---|-------------------|-------------------|-------------------|
| General Purpose Forces                                  | 85,878            | 85,019            | 85,984            |
| Intelligence and Communications                         | 4,747,655         | 4,246,666         | 4,756,079         |
| Research and Development                                | 16,270,868        | 15,712,350        | 16,169,772        |
| Central Supply and Maintenance                          | 37,043            | 60,175            | 23,326            |
| Administration and Associated Activities                | 113,362           | 90,059            | 110,187           |
| Support of Other Nations                                | 42,702            | 31,194            | 27,756            |
| Special Operations Forces                               | 541,667           | 417,131           | 326,125           |
| <b>Total Research, Development, Test &amp; Eval, DW</b> | <b>21,839,175</b> | <b>20,642,594</b> | <b>21,499,229</b> |

UNCLASSIFIED  
DEFENSE-WIDE  
FY 2009 RDT&E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2008

| <u>Summary Recap of Defensewide</u>                     | <u>FY 2007</u>    | <u>FY 2008</u>    | <u>FY 2009</u>    |
|---|-------------------|-------------------|-------------------|
| Washington Headquarters Service                         | 1,407             | 882               | 599               |
| Special Operations Command                              | 564,125           | 449,606           | 360,862           |
| Defense Technical Information Center                    | 51,733            | 51,188            | 52,696            |
| Defense Contract Management Agency                      | 10,963            | 11,225            | 11,611            |
| Chemical and Biological Defense Program                 | 983,197           | 1,017,289         | 1,055,869         |
| National Geospatial Intelligence Agency                 |                   |                   |                   |
| Defense Threat Reduction Agency                         | 456,140           | 455,497           | 456,349           |
| Defense Business Transformation Agency                  | 227,383           | 209,718           | 186,358           |
| Counter Intelligence Field Activity                     |                   |                   |                   |
| Missile Defense Agency                                  | 9,381,258         | 8,552,097         | 8,890,737         |
| Office of Secretary Of Defense                          | 2,163,318         | 2,440,638         | 2,348,082         |
| Defense Adv Research Projects Agcy                      | 2,908,161         | 2,959,076         | 3,285,569         |
| National Security Agency                                |                   |                   |                   |
| The Joint Staff   | 68,089            | 69,368            | 72,103            |
| Defense Information Systems Agency                      | 405,612           | 347,591           | 386,264           |
| Defense Intelligence Agency                             |                   |                   |                   |
| Defense Logistics Agency                                | 216,168           | 178,077           | 72,701            |
| DoD Human Resources Activity                            | 27,063            | 24,253            | 39,373            |
| Defense Security Cooperation Agency                     |                   | 1,987             | 2,496             |
| Defense Security Service                                | 40,305            | 34,198            | 11,533            |
| <b>Total Research, Development, Test &amp; Eval, DW</b> | <b>21,839,175</b> | <b>20,642,594</b> | <b>21,499,229</b> |

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 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars    |                         |                         | S<br>E<br>C |
|------------|------------------------------|---|-----|-------------------------|-------------------------|-------------------------|-------------|
|            |                              |   |     | FY 2007                 | FY 2008                 | FY 2009                 |             |
| 1          | 0601000BR                    | DTRA Basic Research Initiative  | 01  | 13,270                  | 10,831                  | 18,000                  | U           |
| 2          | 0601101E                     | Defense Research Sciences   | 01  | 139,521                 | 174,996                 | 195,657                 | U           |
| 3          | 0601111D8Z                   | Government/Industry Cosponsorship<br>of University Research               | 01  | 8,679                   | 6,161                   |                         | U           |
| 4          | 0601114D8Z                   | Defense Experimental Program to<br>Stimulate Competitive Research         | 01  | 8,992                   | 16,931                  | 2,833                   | U           |
| 5          | 0601120D8Z                   | National Defense Education Program  | 01  | 18,425                  | 43,988                  | 68,972                  | U           |
| 6          | 0601384BP                    | Chemical and Biological Defense<br>Program                                | 01  | 104,830                 | 83,132                  | 53,191                  | U           |
|            | <b>Basic Research</b>        |   |     | -----<br><b>293,717</b> | -----<br><b>336,039</b> | -----<br><b>338,653</b> |             |
| 7          | 0602000D8Z                   | Joint Munitions Technology  | 02  | 10,323                  | 12,433                  | 15,254                  | U           |
| 8          | 0602227D8Z                   | Medical Free Electron Laser   | 02  | 15,487                  | 2,385                   |                         | U           |
| 9          | 0602228D8Z                   | Historically Black Colleges and<br>Universities (HBCU) Science            | 02  | 19,550                  | 37,463                  | 15,156                  | U           |
| 10         | 0602234D8Z                   | Lincoln Laboratory Research<br>Program                                    | 02  | 27,962                  | 29,269                  | 31,340                  | U           |
| 11         | 0602303E                     | Information & Communications<br>Technology                                | 02  | 228,073                 | 230,385                 | 254,009                 | U           |
| 12         | 0602304E                     | Cognitive Computing Systems   | 02  | 165,395                 | 174,680                 | 145,262                 | U           |
| 13         | 0602383E                     | Biological Warfare Defense  | 02  | 99,926                  | 72,101                  | 66,291                  | U           |
| 14         | 0602384BP                    | Chemical and Biological Defense<br>Program                                | 02  | 252,343                 | 266,999                 | 203,731                 | U           |
| 15         | 0602670D8Z                   | Human, Social and Culture<br>Behavior Modeling (HSCB) Applied<br>Research | 02  |                         | 6,246                   | 7,685                   | U           |
| 16         | 0602702E                     | Tactical Technology   | 02  | 300,721                 | 335,967                 | 371,481                 | U           |
| 17         | 0602715E                     | Materials and Biological<br>Technology                                    | 02  | 270,513                 | 301,741                 | 285,264                 | U           |
| 18         | 0602716BR                    | WMD Defeat Technology   | 02  | 214,702                 |                         |                         | U           |

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EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line No | Program Element Number  | Item   | Act | Thousands of Dollars |                  |                  | S E C |
|---------|-------------------------|--|-----|----------------------|------------------|------------------|-------|
|         |                         |  |     | FY 2007              | FY 2008          | FY 2009          |       |
| 19      | 0602716E                | Electronics Technology   | 02  | 215,742              | 196,707          | 211,457          | U     |
| 20      | 0602717BR               | WMD Defense Technologies   | 02  | 109,513              |                  |                  | U     |
| 21      | 0602718BR               | Weapons of Mass Destruction Defeat Technologies                        | 02  |                      | 211,325          | 211,078          | U     |
| 22      | 0303153K                | Joint Spectrum Center  | 02  | 76,500               |                  |                  | U     |
| 23      | 1160401BB               | Special Operations Technology Development                              | 02  | 17,729               | 32,040           | 23,104           | U     |
| 24      | 1160407BB               | SOF Medical Technology Development                                     | 02  | 2,234                | 2,327            | 2,459            | U     |
|         | <b>Applied Research</b> |  |     | <b>2,026,713</b>     | <b>1,912,068</b> | <b>1,843,571</b> |       |
| 25      | 0603000D8Z              | Insensitive Munitions - Advanced Development                           | 03  |                      | 3,966            | 15,970           | U     |
| 26      | 0603121D8Z              | SO/LIC Advanced Development  | 03  | 34,813               | 39,815           | 32,832           | U     |
| 27      | 0603122D8Z              | Combating Terrorism Technology Support                                 | 03  | 104,880              | 117,628          | 79,970           | U     |
| 28      | 0603160BR               | Counterproliferation Initiatives - Proliferation Prevention and Defeat | 03  | 111,911              | 215,609          | 211,325          | U     |
| 29      | 0603175C                | Ballistic Missile Defense Technology                                   | 03  | 183,849              | 108,423          | 118,718          | U     |
| 30      | 0603225D8Z              | Joint DoD-DoE Munitions Technology Development                         | 03  | 22,449               | 23,284           | 23,727           | U     |
| 31      | 0603286E                | Advanced Aerospace Systems   | 03  | 58,414               | 71,925           | 107,857          | U     |
| 32      | 0603287E                | Space Programs and Technology  | 03  | 222,300              | 216,419          | 287,009          | U     |
| 33      | 0603384BP               | Chemical and Biological Defense Program - Advanced Development         | 03  | 223,838              | 245,591          | 337,927          | U     |
| 34      | 0603618D8Z              | Joint Electronic Advanced Technology                                   | 03  | 10,692               | 12,311           | 9,320            | U     |
| 35      | 0603648D8Z              | Joint Capability Technology Demonstrations                             | 03  | 35,594               | 202,484          | 206,337          | U     |

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EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line No | Program Element Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|---------|------------------------|---|-----|----------------------|---------|---------|-------------|
|         |                        |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 36      | 0603662D8Z             | Networked Communications Capabilities                                   | 03  |                      | 14,871  | 39,923  | U           |
| 37      | 0603665D8Z             | Biometrics Science and Technology                                       | 03  |                      | 10,113  | 10,579  | U           |
| 38      | 0603670D8Z             | Human, Social and Culture Behavior Modeling (HSCB) Advanced Development | 03  |                      | 2,974   | 9,381   | U           |
| 39      | 0603680D8Z             | Defense-Wide Manufacturing Science and Technology Program               | 03  |                      | 23,594  | 11,981  | U           |
| 40      | 0603711D8Z             | Joint Robotics Program/Autonomous Systems                               | 03  | 8,765                | 19,585  | 8,449   | U           |
| 41      | 0603712S               | Generic Logistics R&D Technology Demonstrations                         | 03  | 56,532               | 55,859  | 19,375  | U           |
| 42      | 0603713S               | Deployment and Distribution Enterprise Technology                       | 03  | 15,036               | 14,905  | 30,000  | U           |
| 43      | 0603716D8Z             | Strategic Environmental Research Program                                | 03  | 62,156               | 69,071  | 69,038  | U           |
| 44      | 0603720S               | Microelectronics Technology Development and Support                     | 03  | 90,285               | 47,138  |         | U           |
| 45      | 0603727D8Z             | Joint Warfighting Program   | 03  | 10,328               | 10,964  | 11,098  | U           |
| 46      | 0603739E               | Advanced Electronics Technologies                                       | 03  | 212,889              | 202,942 | 201,146 | U           |
| 47      | 0603745D8Z             | Synthetic Aperture Radar (SAR) Coherent Change Detection (CDD)          | 03  |                      | 3,469   | 7,984   | U           |
| 48      | 0603750D8Z             | Advanced Concept Technology Demonstrations                              | 03  | 158,313              | 1,589   |         | U           |
| 49      | 0603755D8Z             | High Performance Computing Modernization Program                        | 03  | 198,367              | 205,017 | 208,079 | U           |
| 50      | 0603760E               | Command, Control and Communications Systems                             | 03  | 229,399              | 255,235 | 338,964 | U           |
| 51      | 0603764E               | Land Warfare Technology   | 03  | 36,658               | 19,642  |         | U           |
| 52      | 0603765E               | Classified DARPA Programs   | 03  | 147,159              | 186,992 | 196,697 | U           |



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|---------|--|--|-----|----------------------|------------------|------------------|-------|
|         |  |  |     | FY 2007              | FY 2008          | FY 2009          |       |
| 53      | 0603766E                                     | Network-Centric Warfare Technology                               | 03  | 137,063              | 150,677          | 156,733          | U     |
| 54      | 0603767E                                     | Sensor Technology  | 03  | 189,795              | 195,213          | 226,470          | U     |
| 55      | 0603768E                                     | Guidance Technology  | 03  | 127,170              | 124,974          | 110,572          | U     |
| 56      | 0603769SE                                    | Distributed Learning Advanced Technology Development             | 03  | 17,983               | 13,197           | 13,538           | U     |
| 57      | 0603781D8Z                                   | Software Engineering Institute                                   | 03  | 27,700               | 25,726           | 31,244           | U     |
| 58      | 0603805S                                     | Dual Use Technology  | 03  | 5,200                |                  |                  | U     |
| 59      | 0603826D8Z                                   | Quick Reaction Special Projects                                  | 03  | 103,566              | 113,244          | 113,924          | U     |
| 60      | 0603828D8Z                                   | Joint Experimentation  | 03  | 102,222              | 107,240          | 114,947          | U     |
| 61      | 0603832D8Z                                   | Joint Wargaming Simulation Management Office                     | 03  | 34,110               | 22,639           | 38,147           | U     |
| 62      | 0603941D8Z                                   | Test & Evaluation Science & Technology                           | 03  | 38,759               | 62,344           | 94,672           | U     |
| 63      | 0603942D8Z                                   | Technology Transfer  | 03  | 11,910               | 5,784            | 2,170            | U     |
| 64      | 1160402BB                                    | Special Operations Advanced Technology Development               | 03  | 145,245              | 41,251           | 28,930           | U     |
| 65      | 1160472BB                                    | SOF Information and Broadcast Systems Advanced Technology        | 03  |                      |                  | 10,990           | U     |
|         | <b>Advanced Technology Development (ATD)</b> |  |     | <b>3,175,350</b>     | <b>3,263,704</b> | <b>3,536,023</b> |       |
| 66      | 0603161D8Z                                   | Nuclear and Conventional Physical Security Equipment RDT&E ADC&P | 04  | 38,861               | 49,131           | 38,758           | U     |
| 67      | 0603228D8Z                                   | Physical Security Equipment                                      | 04  |                      | 1,589            |                  | U     |
| 68      | 0603527D8Z                                   | RETRACT LARCH  | 04  | 22,253               | 22,172           | 22,945           | U     |
| 69      | 0603709D8Z                                   | Joint Robotics Program   | 04  | 22,975               | 23,654           | 11,847           | U     |
| 70      | 0603714D8Z                                   | Advanced Sensor Applications Program                             | 04  | 24,128               |                  |                  | U     |
| 71      | 0603851D8Z                                   | Environmental Security Technical Certification Program           | 04  | 32,251               | 38,860           | 31,600           | U     |

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|         |                        |  |     | FY 2007              | FY 2008   | FY 2009   |       |
| 72      | 0603881C               | Ballistic Missile Defense Terminal Defense Segment                               | 04  | 1,082,454            | 1,045,276 | 1,019,073 | U     |
| 73      | 0603882C               | Ballistic Missile Defense Midcourse Defense Segment                              | 04  | 2,985,140            | 2,243,213 | 2,076,662 | U     |
| 74      | 0603883C               | Ballistic Missile Defense Boost Defense Segment                                  | 04  | 622,218              | 510,241   | 421,229   | U     |
| 75      | 0603884BP              | Chemical and Biological Defense Program  | 04  | 99,042               | 63,951    | 51,291    | U     |
| 76      | 0603884C               | Ballistic Missile Defense Sensors  | 04  | 514,989              | 586,121   | 1,076,983 | U     |
| 77      | 0603886C               | Ballistic Missile Defense System Interceptor                                     | 04  | 341,358              | 340,107   | 386,817   | U     |
| 78      | 0603888C               | Ballistic Missile Defense Test & Targets   | 04  | 584,615              | 621,861   | 665,445   | U     |
| 79      | 0603890C               | Ballistic Missile Defense Systems Core   | 04  | 425,889              | 413,934   | 432,262   | U     |
| 80      | 0603891C               | Special Programs - MDA   | 04  | 347,377              | 196,892   | 288,315   | U     |
| 81      | 0603892C               | AEGIS BMD  | 04  | 1,125,426            | 1,126,337 | 1,157,783 | U     |
| 82      | 0603893C               | Space Tracking & Surveillance System   | 04  | 311,402              | 231,528   | 242,441   | U     |
| 83      | 0603894C               | Multiple Kill Vehicle  | 04  | 133,615              | 229,943   | 354,455   | U     |
| 84      | 0603895C               | Ballistic Missile Defense System Space Programs                                  | 04  |                      | 16,552    | 29,771    | U     |
| 85      | 0603896C               | Ballistic Missile Defense Command and Control, Battle Management and Communicati | 04  | 249,179              | 447,616   | 289,277   | U     |
| 86      | 0603897C               | Ballistic Missile Defense Hercules   | 04  | 46,268               | 52,462    | 55,955    | U     |
| 87      | 0603898C               | Ballistic Missile Defense Joint Warfighter Support                               | 04  | 49,833               | 49,394    | 69,982    | U     |
| 88      | 0603904C               | Missile Defense Integration & Operations Center (MDIOC)                          | 04  | 104,389              | 78,557    | 96,404    | U     |

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|         |                        |   |     | FY 2007                   | FY 2008                   | FY 2009                   |       |
| 89      | 0603905C               | Ballistic Missile Defense Distributed Multi Echelon Training System (DMETS) | 04  | 21,870                    |                           |                           | U     |
| 90      | 0603906C               | Regarding Trench  | 04  |                           | 1,986                     | 2,978                     | U     |
| 91      | 0603907C               | Sea Based X-Band Radar (SBX)  | 04  |                           | 165,243                   |                           | U     |
| 92      | 0603920D8Z             | Humanitarian Demining   | 04  | 14,404                    | 13,923                    | 14,373                    | U     |
| 93      | 0603923D8Z             | Coalition Warfare   | 04  | 5,844                     | 9,960                     | 14,030                    | U     |
| 94      | 0604016D8Z             | Department of Defense Corrosion Program                                     | 04  | 7,124                     | 18,917                    | 5,102                     | U     |
| 95      | 0604648D8Z             | Joint Capability Technology Demonstrations                                  | 04  | 3,029                     | 2,934                     | 14,962                    | U     |
| 96      | 0604670D8Z             | Human, Social and Culture Behavior Modeling (HSCB) Research and Engineering | 04  |                           | 991                       | 5,991                     | U     |
| 97      | 0604787D8Z             | Joint Systems Integration Command (JSIC)                                    | 04  | 20,635                    | 19,207                    | 19,643                    | U     |
| 98      | 0604828D8Z             | Joint FIRES Integration and Interoperability Team                           | 04  | 16,684                    | 16,452                    | 16,906                    | U     |
| 99      | 0605017D8Z             | Reduction Of Total Ownership Cost   | 04  | 25,141                    | 25,006                    | 24,765                    | U     |
| 100     | 0303191D8Z             | Joint Electromagnetic Technology (JET) Program                              | 04  | 7,826                     | 9,175                     | 3,524                     | U     |
|         |                        | <b>Advanced Component Development &amp; Prototypes</b>                      |     | -----<br><b>9,286,219</b> | -----<br><b>8,673,185</b> | -----<br><b>8,941,569</b> |       |
| 101     | 0604051D8Z             | Defense Acquisition Challenge Program (DACP)                                | 05  | 28,665                    | 28,718                    | 30,363                    | U     |
| 102     | 0604161D8Z             | Nuclear and Conventional Physical Security Equipment RDT&E SDD              | 05  | 11,735                    | 3,252                     | 4,355                     | U     |
| 103     | 0604165D8Z             | Prompt Global Strike Capability Development                                 | 05  |                           | 99,364                    | 117,572                   | U     |
| 104     | 0604384BP              | Chemical and Biological Defense Program                                     | 05  | 194,955                   | 251,526                   | 299,373                   | U     |

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|         |                        |   |     | FY 2007              | FY 2008        | FY 2009        |       |
| 105     | 0604709D8Z             | Joint Robotics Program                                      | 05  | 9,721                | 6,851          | 5,725          | U     |
| 106     | 0604764K               | Advanced IT Services Joint Program Office (AITS-JPO)        | 05  | 10,292               | 9,642          | 13,770         | U     |
| 107     | 0604771D8Z             | Joint Tactical Information Distribution System (JTIDS)      | 05  | 7,946                | 16,384         | 20,600         | U     |
| 108     | 0605000BR              | Weapons of Mass Destruction Defeat Capabilities             | 05  |                      | 15,296         | 15,946         | U     |
| 109     | 0605013BL              | Information Technology Development                          | 05  | 10,963               | 11,225         | 11,611         | U     |
| 110     | 0605018BTA             | Defense Integrated Military Human Resources System (DIMHRS) | 05  |                      | 79,300         | 37,400         | U     |
| 111     | 0605020BTA             | Business Transformation Agency R&D Activities               | 05  | 227,383              | 130,418        | 148,958        | U     |
| 112     | 0605021SE              | Homeland Personnel Security Initiative                      | 05  |                      | 1,789          | 400            | U     |
| 113     | 0605140D8Z             | Trusted Foundry   | 05  | 41,317               | 43,227         | 42,360         | U     |
| 114     | 0605648D8Z             | Defense Acquisition Executive (DAE) Pilot Program           | 05  | 5,844                | 5,788          | 5,883          | U     |
| 115     | 0303129K               | Defense Message System                                      | 05  | 11,187               |                |                | U     |
| 116     | 0303141K               | Global Combat Support System                                | 05  | 18,040               | 17,939         | 18,604         | U     |
| 117     | 0303158K               | Joint Command and Control Program (JC2)                     | 05  | 27,771               | 57,914         | 147,339        | U     |
|         |                        | <b>System Development and Demonstration (SDD)</b>           |     | <b>605,819</b>       | <b>778,633</b> | <b>920,259</b> |       |
| 118     | 0603757D8Z             | Training Transformation (T2)                                | 06  | 76,677               | 60,524         | 38,729         | U     |
| 119     | 0604774D8Z             | Defense Readiness Reporting System (DRRS)                   | 06  | 13,231               | 11,784         | 11,385         | U     |
| 120     | 0604875D8Z             | Joint Systems Architecture Development                      | 06  | 9,869                | 14,312         | 14,310         | U     |
| 121     | 0604940D8Z             | Central Test and Evaluation Investment Development (CTEIP)  | 06  | 132,509              | 146,888        | 133,852        | U     |

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| 122     | 0604943D8Z             | Thermal Vicar   | 06  | 7,414                | 9,385   | 9,658   | U     |
| 123     | 0605100D8Z             | Joint Mission Environment Test Capability (JMETC)           | 06  | 10,409               | 6,865   | 8,834   | U     |
| 124     | 0605104D8Z             | Technical Studies, Support and Analysis                     | 06  | 35,737               | 34,958  | 34,520  | U     |
| 125     | 0605110D8Z             | USD(A&T)--Critical Technology Support                       | 06  | 4,337                | 3,987   | 4,007   | U     |
| 126     | 0605117D8Z             | Foreign Material Acquisition and Exploitation               | 06  | 38,873               | 52,227  | 62,816  | U     |
| 127     | 0605126J               | Joint Theater Air and Missile Defense Organization          | 06  | 52,287               | 53,653  | 55,282  | U     |
| 128     | 0605128D8Z             | Classified Program USD(P)                                   | 06  | 91,626               | 97,576  |         | U     |
| 129     | 0605130D8Z             | Foreign Comparative Testing                                 | 06  | 31,438               | 32,634  | 34,910  | U     |
| 130     | 0605161D8Z             | Nuclear Matters-Physical Security                           | 06  | 4,193                | 4,475   | 4,475   | U     |
| 131     | 0605170D8Z             | Support to Networks and Information Integration             | 06  | 16,607               | 11,055  | 14,723  | U     |
| 132     | 0605200D8Z             | General Support to USD (Intelligence)                       | 06  | 5,715                | 4,534   | 4,379   | U     |
| 133     | 0605384BP              | Chemical and Biological Defense Program                     | 06  | 101,249              | 98,423  | 100,082 | U     |
| 134     | 0605502BR              | Small Business Innovation Research                          | 06  | 6,744                | 2,436   |         | U     |
| 135     | 0605502C               | Small Business Innovative Research - MDA                    | 06  | 142,510              |         |         | U     |
| 136     | 0605502D8Z             | Small Business Innovative Research                          | 06  | 42,805               |         |         | U     |
| 137     | 0605502E               | Small Business Innovative Research                          | 06  | 78,657               |         |         | U     |
| 138     | 0605502S               | Small Business Innovative Research                          | 06  | 4,309                |         |         | U     |
| 139     | 0605790D8Z             | Small Business Innovation Research/Challenge Administration | 06  | 4,423                | 3,135   | 2,165   | U     |
| 140     | 0605798D8Z             | Defense Technology Analysis                                 | 06  |                      | 13,608  | 11,040  | U     |

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|         |                                     |  |     | FY 2007              | FY 2008          | FY 2009          |       |
| 141     | 0605798S                            | Defense Technology Analysis                              | 06  | 7,763                |                  |                  | U     |
| 142     | 0605799D8Z                          | Force Transformation Directorate                         | 06  | 50,985               | 20,407           | 20,701           | U     |
| 143     | 0605801KA                           | Defense Technical Information Center (DTIC)              | 06  | 51,733               | 51,188           | 52,696           | U     |
| 144     | 0605803SE                           | R&D in Support of DoD Enlistment, Testing and Evaluation | 06  | 9,080                | 9,267            | 25,435           | U     |
| 145     | 0605804D8Z                          | Development Test and Evaluation                          | 06  | 9,155                | 18,550           | 20,396           | U     |
| 146     | 0605897E                            | DARPA Agency Relocation                                  | 06  |                      |                  | 28,000           | U     |
| 147     | 0605898E                            | Management HQ - R&D                                      | 06  | 48,766               | 48,480           | 52,700           | U     |
| 148     | 0606100D8Z                          | Budget and Program Assessments                           | 06  |                      | 1,739            | 5,878            | U     |
| 149     | 0301555G                            | Classified Programs                                      | 06  |                      |                  |                  |       |
| 150     | 0301556G                            | Special Program  | 06  |                      |                  |                  |       |
| 151     | 0303166D8Z                          | Support to Information Operations (IO) Capabilities      | 06  |                      | 34,590           | 30,039           | U     |
| 152     | 0303169D8Z                          | Information Technology Rapid Acquisition                 | 06  | 5,479                | 5,152            | 5,254            | U     |
| 153     | 0305103E                            | Cyber Security Initiative                                | 06  |                      |                  | 50,000           | U     |
| 154     | 0305193D8Z                          | Intelligence Support to Information Operations (IO)      | 06  | 14,234               | 9,846            | 17,625           | U     |
| 155     | 0305193G                            | Intelligence Support to Information Operations (IO)      | 06  |                      |                  |                  |       |
| 156     | 0305400D8Z                          | Warfighting and Intelligence-Related Support             | 06  |                      | 820              | 831              | U     |
| 157     | 0901585C                            | Pentagon Reservation                                     | 06  | 15,527               | 6,019            | 19,734           | U     |
| 158     | 0901598C                            | Management HQ - MDA                                      | 06  | 93,350               | 80,392           | 86,453           | U     |
| 159     | 0901598D8W                          | IT Software Dev Initiatives                              | 06  | 1,407                | 882              | 599              | U     |
|         | <b>RDT&amp;E Management Support</b> |  |     | <b>1,236,286</b>     | <b>1,001,799</b> | <b>1,028,148</b> |       |

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| 160     | 0604130V               | Defense Information System for Security (DISS)                    | 07  | 40,305               | 34,198  | 11,533  | U     |
| 161     | 0605127T               | Partnership for Peace (PfP) Information Management System         | 07  |                      | 1,987   | 2,496   | U     |
| 162     | 0607384BP              | Chemical and Biological Defense (Operational Systems Development) | 07  | 6,940                | 7,667   | 10,274  | U     |
| 163     | 0607828D8Z             | Joint Integration and Interoperability                            | 07  | 53,236               | 53,425  | 49,371  | U     |
| 164     | 0204571J               | Joint Staff Analytical Support                                    | 07  | 7,525                | 7,631   | 8,030   | U     |
| 165     | 0208043J               | Classified Programs   | 07  | 1,656                | 1,694   | 1,728   | U     |
| 166     | 0208045K               | C4I Interoperability  | 07  | 76,697               | 75,694  | 76,226  | U     |
| 167     | 0301011G               | Cryptologic Activities  | 07  |                      |         |         |       |
| 168     | 0301144K               | Joint/Allied Coalition Information Sharing                        | 07  |                      | 25,818  | 19,073  | U     |
| 169     | 0301301L               | General Defense Intelligence Program                              | 07  |                      |         |         |       |
| 170     | 0301318BB              | HUMINT (Controlled)   | 07  |                      |         |         |       |
| 171     | 0301371G               | Cyber Security Initiative - CCP                                   | 07  |                      |         |         |       |
| 172     | 0301372L               | Cyber Security Initiative - GDIP                                  | 07  |                      |         |         |       |
| 173     | 0301555BB              | Classified Programs   | 07  |                      |         |         |       |
| 174     | 0301555BZ              | Classified Programs   | 07  |                      |         |         |       |
| 175     | 0301556BB              | Special Program   | 07  |                      |         |         |       |
| 176     | 0301556BZ              | Special Program   | 07  |                      |         |         |       |
| 177     | 0302016K               | National Military Command System-Wide Support                     | 07  | 718                  | 708     | 615     | U     |
| 178     | 0302019K               | Defense Info Infrastructure Engineering and Integration           | 07  | 35,790               | 5,229   | 16,054  | U     |
| 179     | 0303126K               | Long-Haul Communications - DCS                                    | 07  | 5,360                | 16,382  | 8,508   | U     |

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|         |                        |  |     | FY 2007              | FY 2008 | FY 2009 |       |
| 180     | 0303131K               | Minimum Essential Emergency Communications Network (MEECN) | 07  | 9,332                | 9,421   | 9,685   | U     |
| 181     | 0303135G               | Public Key Infrastructure (PKI)                            | 07  | 14,186               | 9,329   | 15,577  | U     |
| 182     | 0303136G               | Key Management Infrastructure (KMI)                        | 07  | 38,113               | 51,759  | 49,578  | U     |
| 183     | 0303140D8Z             | Information Systems Security Program                       | 07  | 18,204               | 15,524  | 13,459  | U     |
| 184     | 0303140G               | Information Systems Security Program                       | 07  | 403,441              | 391,807 | 394,074 | U     |
| 185     | 0303140K               | Information Systems Security Program                       | 07  |                      | 2,285   |         | U     |
| 186     | 0303148K               | DISA Mission Support Operations                            | 07  | 40                   |         | 2,181   | U     |
| 187     | 0303149J               | C4I for the Warrior  | 07  | 3,543                | 3,624   | 3,662   | U     |
| 188     | 0303149K               | C4I for the Warrior  | 07  | 7,102                |         |         | U     |
| 189     | 0303150K               | Global Command and Control System                          | 07  | 60,920               | 46,795  | 36,374  | U     |
| 190     | 0303153K               | Joint Spectrum Center                                      | 07  | 11,985               | 18,534  | 19,319  | U     |
| 191     | 0303170K               | Net-Centric Enterprise Services (NCES)                     | 07  | 32,174               | 38,180  | 429     | U     |
| 192     | 0303610K               | Teleport Program   | 07  | 14,280               | 5,761   | 2,060   | U     |
| 193     | 0304210BB              | Special Applications for Contingencies                     | 07  | 20,075               | 16,844  | 16,225  | U     |
| 194     | 0304345BQ              | National Geospatial-Intelligence Program (NGP)             | 07  |                      |         |         |       |
| 195     | 0305102BQ              | Defense Geospatial-Intelligence Program                    | 07  |                      |         |         |       |
| 196     | 0305103D8Z             | Cyber Security Initiative                                  | 07  |                      |         | 1,000   | U     |
| 197     | 0305103G               | Cyber Security Initiative                                  | 07  |                      |         |         |       |
| 198     | 0305103K               | Cyber Security Initiative                                  | 07  |                      |         | 12,800  | U     |



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|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 199        | 0305125D8Z                   | Critical Infrastructure Protection (CIP)            | 07  | 14,068               | 12,587  | 12,700  | U           |
| 200        | 0305127BZ                    | Foreign Counterintelligence Activities              | 07  |                      |         |         |             |
| 201        | 0305146BZ                    | Defense Joint Counterintelligence Activities        | 07  | 27,430               | 2,933   | 2,947   | U           |
| 202        | 0305183L                     | Defense Human Intelligence (HUMINT) Activities      | 07  |                      |         |         |             |
| 203        | 0305186D8Z                   | Policy R&D Programs                                 | 07  |                      | 10,560  | 8,237   | U           |
| 204        | 0305193G                     | Intelligence Support to Information Operations (IO) | 07  |                      |         |         |             |
| 205        | 0305193L                     | Intelligence Support to Information Operations (IO) | 07  |                      |         |         |             |
| 206        | 0305199D8Z                   | Net Centricity                                      | 07  | 8,967                | 10,154  | 12,716  | U           |
| 207        | 0305202G                     | Dragon U-2  | 07  |                      |         |         |             |
| 208        | 0305206G                     | Airborne Reconnaissance Systems                     | 07  |                      |         |         |             |
| 209        | 0305207G                     | Manned Reconnaissance Systems                       | 07  |                      |         |         |             |
| 210        | 0305208BB                    | Distributed Common Ground/Surface Systems           | 07  |                      |         | 3,165   | U           |
| 211        | 0305208BQ                    | Distributed Common Ground/Surface Systems           | 07  |                      |         |         |             |
| 212        | 0305208G                     | Distributed Common Ground/Surface Systems           | 07  |                      |         |         |             |
| 213        | 0305208K                     | Distributed Common Ground/Surface Systems           | 07  | 7,424                | 17,289  | 3,227   | U           |
| 214        | 0305208L                     | Distributed Common Ground/Surface Systems           | 07  |                      |         |         |             |
| 215        | 0305219BB                    | MQ-1 Predator A UAV                                 | 07  |                      | 12,765  | 13,679  | U           |
| 216        | 0305229G                     | Real-Time Architecture Development (RT10)           | 07  |                      |         |         |             |

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 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line No | Program Element Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|---------|------------------------|---|-----|----------------------|---------|---------|-------------|
|         |                        |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 217     | 0305866L               | DIA support to SOUTHCOM Intelligence Activities                       | 07  |                      |         |         |             |
| 218     | 0305880L               | Combatant Command Intelligence Operations                             | 07  |                      |         |         |             |
| 219     | 0305883L               | Hard and Deeply Buried Target (HDBT) Intel Support                    | 07  |                      |         |         |             |
| 220     | 0305884L               | Intelligence Planning and Review Activities                           | 07  |                      |         |         |             |
| 221     | 0305885G               | Tactical Cryptologic Activities                                       | 07  |                      |         |         |             |
| 222     | 0305889G               | Counterdrug Intelligence Support                                      | 07  |                      |         |         |             |
| 223     | 0307141G               | Information Operations Technology Integration & Tool Dev              | 07  |                      |         |         |             |
| 224     | 0307207G               | Aerial Common Sensor (ACS)  | 07  |                      |         |         |             |
| 225     | 0708011S               | Industrial Preparedness   | 07  | 34,142               | 57,347  | 20,480  | U           |
| 226     | 0708012S               | Logistics Support Activities  | 07  | 2,901                | 2,828   | 2,846   | U           |
| 227     | 0902298J               | Management Headquarters (JCS)   | 07  | 3,078                | 2,766   | 3,401   | U           |
| 228     | 1001018D8Z             | NATO Joint STARS  | 07  | 42,702               | 31,194  | 27,756  | U           |
| 229     | 1130435BB              | STORM   | 07  |                      | 26,413  |         | U           |
| 230     | 1160279BB              | Small Business Innovative Research/Small Bus Tech Transfer Pilot Prog | 07  | 12,213               | 7,883   |         | U           |
| 231     | 1160403BB              | Special Operations Aviation Systems Advanced Development              | 07  | 67,695               | 55,451  | 43,977  | U           |
| 232     | 1160404BB              | Special Operations Tactical Systems Development                       | 07  | 85,458               | 58,816  | 13,263  | U           |
| 233     | 1160405BB              | Special Operations Intelligence Systems Development                   | 07  | 58,562               | 62,417  | 39,125  | U           |
| 234     | 1160408BB              | SOF Operational Enhancements  | 07  | 103,431              | 57,877  | 48,137  | U           |

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 DEFENSE-WIDE  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line No | Program Element Number | Item  | Act | Thousands of Dollars |            |            | S E C |
|---------|------------------------|---|-----|----------------------|------------|------------|-------|
|         |                        |   |     | FY 2007              | FY 2008    | FY 2009    |       |
| 235     | 1160421BB              | Special Operations CV-22 Development                        | 07  |                      | 22,872     | 38,229     | U     |
| 236     | 1160425BB              | Special Operations Aircraft Defensive Systems               | 07  | 3,760                | 5,062      |            | U     |
| 237     | 1160426BB              | Operations Advanced Seal Delivery System (ASDS) Development | 07  | 31,616               | 19,772     | 7,090      | U     |
| 238     | 1160427BB              | Mission Training and Preparation Systems (MTPS)             | 07  | 3,684                | 6,241      | 4,052      | U     |
| 239     | 1160428BB              | Unmanned Vehicles (UV)                                      | 07  | 10,040               | 6,334      | 1,527      | U     |
| 240     | 1160429BB              | MC130J SOF Tanker Recapitalization                          | 07  |                      | 12,375     | 4,659      | U     |
| 241     | 1160477BB              | SOF Weapons Systems   | 07  |                      |            | 2,759      | U     |
| 242     | 1160478BB              | SOF Soldier Protection and Survival Systems                 | 07  |                      |            | 3,190      | U     |
| 243     | 1160479BB              | SOF Visual Augmentation, Lasers and Sensor Systems          | 07  |                      |            | 3,495      | U     |
| 244     | 1160482BB              | SOF Rotary Wing Aviation                                    | 07  |                      |            | 3,822      | U     |
| 245     | 1160483BB              | SOF Underwater Systems                                      | 07  |                      |            | 3,142      | U     |
| 246     | 1160484BB              | SOF Surface Craft   | 07  |                      |            | 5,206      | U     |
| 247     | 1160488BB              | SOF PSYOP   | 07  |                      |            | 15,554     | U     |
| 248     | 1160489BB              | SOF Global Video Surveillance Activities                    | 07  |                      |            | 14,686     | U     |
| 249     | 1160490BB              | SOF Operational Enhancements Intelligence                   | 07  |                      |            | 8,729      | U     |
|         |                        | <b>Operational Systems Development</b>                      |     | -----                | -----      | -----      |       |
|         |                        |   |     | 5,215,071            | 4,677,166  | 4,891,006  |       |
|         |                        | <b>Total Research, Development, Test &amp; Eval, DW</b>     |     | -----                | -----      | -----      |       |
|         |                        |   |     | 21,839,175           | 20,642,594 | 21,499,229 |       |

UNCLASSIFIED  
DEFENSE-WIDE  
FY 2009 RDT&E PROGRAM

SUMMARY  
(\$ IN THOUSANDS)

FEB 2008

| <u>Summary Recap of Budget Activities</u>         | <u>FY 2007</u> | <u>FY 2008</u> | <u>FY 2009</u> |
|---|----------------|----------------|----------------|
| RDT&E Management Support                          | 180,204        | 178,267        | 188,772        |
| <b>Total Operational Test &amp; Eval, Defense</b> | <b>180,204</b> | <b>178,267</b> | <b>188,772</b> |
| <br>  |                |                |                |
| <u>Summary Recap of FYDP Programs</u>             |                |                |                |
| Research and Development                          | 180,204        | 178,267        | 188,772        |
| <b>Total Operational Test &amp; Eval, Defense</b> | <b>180,204</b> | <b>178,267</b> | <b>188,772</b> |

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 DEFENSE-WIDE  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0460D Operational Test & Eval, Defense

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number           | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|--|---|-----|----------------------|------------------|------------------|-------------|
|            |  |   |     | FY 2007              | FY 2008          | FY 2009          |             |
| 1          | 0605118OTE                             | Operational Test and Evaluation             | 06  | 49,971               | 48,318           | 53,196           | U           |
| 2          | 0605131OTE                             | Live Fire Test and Evaluation               | 06  | 11,203               | 11,062           | 11,572           | U           |
| 3          | 0605814OTE                             | Operational Test Activities and<br>Analyses | 06  | 119,030              | 118,887          | 124,004          | U           |
|            | RDT&E Management Support               |   |     | -----<br>180,204     | -----<br>178,267 | -----<br>188,772 |             |
|            | Total Operational Test & Eval, Defense |   |     | -----<br>180,204     | -----<br>178,267 | -----<br>188,772 |             |

Washington Headquarters Service  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item                                  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---------------------------------------|-----|----------------------|---------|---------|-------------|
|            |                              |                                       |     | FY 2007              | FY 2008 | FY 2009 |             |
| 159        | 0901598D8W                   | IT Software Dev Initiatives           | 06  | 1,407                | 882     | 599     | U           |
|            |                              | RDT&E Management Support              |     | 1,407                | 882     | 599     |             |
|            |                              | Total Washington Headquarters Service |     | 1,407                | 882     | 599     |             |

Special Operations Command  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |               |               | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------------|---------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008       | FY 2009       |             |
| 23         | 1160401BB                    | Special Operations Technology<br>Development                                | 02  | 17,729               | 32,040        | 23,104        | U           |
| 24         | 1160407BB                    | SOF Medical Technology Development  | 02  | 2,234                | 2,327         | 2,459         | U           |
|            |                              | <b>Applied Research</b>   |     | <b>19,963</b>        | <b>34,367</b> | <b>25,563</b> |             |
| 64         | 1160402BB                    | Special Operations Advanced<br>Technology Development                       | 03  | 145,245              | 41,251        | 28,930        | U           |
| 65         | 1160472BB                    | SOF Information and Broadcast<br>Systems Advanced Technology                | 03  |                      |               | 10,990        | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>                                |     | <b>145,245</b>       | <b>41,251</b> | <b>39,920</b> |             |
| 170        | 0301318BB                    | HUMINT (Controlled)   | 07  |                      |               |               |             |
| 173        | 0301555BB                    | Classified Programs   | 07  |                      |               |               |             |
| 175        | 0301556BB                    | Special Program   | 07  |                      |               |               |             |
| 193        | 0304210BB                    | Special Applications for<br>Contingencies                                   | 07  | 20,075               | 16,844        | 16,225        | U           |
| 210        | 0305208BB                    | Distributed Common Ground/Surface<br>Systems                                | 07  |                      |               | 3,165         | U           |
| 215        | 0305219BB                    | MQ-1 Predator A UAV   | 07  |                      | 12,765        | 13,679        | U           |
|            |                              | <b>Operational Systems Development</b>                                      |     | <b>22,458</b>        | <b>32,475</b> | <b>34,737</b> |             |
| 229        | 1130435BB                    | STORM   | 07  |                      | 26,413        |               | U           |
| 230        | 1160279BB                    | Small Business Innovative<br>Research/Small Bus Tech Transfer<br>Pilot Prog | 07  | 12,213               | 7,883         |               | U           |
| 231        | 1160403BB                    | Special Operations Aviation<br>Systems Advanced Development                 | 07  | 67,695               | 55,451        | 43,977        | U           |
| 232        | 1160404BB                    | Special Operations Tactical<br>Systems Development                          | 07  | 85,458               | 58,816        | 13,263        | U           |
| 233        | 1160405BB                    | Special Operations Intelligence<br>Systems Development                      | 07  | 58,562               | 62,417        | 39,125        | U           |
| 234        | 1160408BB                    | SOF Operational Enhancements  | 07  | 103,431              | 57,877        | 48,137        | U           |

Special Operations Command  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|------------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008          | FY 2009          |             |
| 235        | 1160421BB                    | Special Operations CV-22<br>Development                        | 07  |                      | 22,872           | 38,229           | U           |
| 236        | 1160425BB                    | Special Operations Aircraft<br>Defensive Systems               | 07  | 3,760                | 5,062            |                  | U           |
| 237        | 1160426BB                    | Operations Advanced Seal Delivery<br>System (ASDS) Development | 07  | 31,616               | 19,772           | 7,090            | U           |
| 238        | 1160427BB                    | Mission Training and Preparation<br>Systems (MTPS)             | 07  | 3,684                | 6,241            | 4,052            | U           |
| 239        | 1160428BB                    | Unmanned Vehicles (UV)   | 07  | 10,040               | 6,334            | 1,527            | U           |
| 240        | 1160429BB                    | MC130J SOF Tanker Recapitalization                             | 07  |                      | 12,375           | 4,659            | U           |
| 241        | 1160477BB                    | SOF Weapons Systems  | 07  |                      |                  | 2,759            | U           |
| 242        | 1160478BB                    | SOF Soldier Protection and<br>Survival Systems                 | 07  |                      |                  | 3,190            | U           |
| 243        | 1160479BB                    | SOF Visual Augmentation, Lasers<br>and Sensor Systems          | 07  |                      |                  | 3,495            | U           |
| 244        | 1160482BB                    | SOF Rotary Wing Aviation                                       | 07  |                      |                  | 3,822            | U           |
| 245        | 1160483BB                    | SOF Underwater Systems   | 07  |                      |                  | 3,142            | U           |
| 246        | 1160484BB                    | SOF Surface Craft  | 07  |                      |                  | 5,206            | U           |
| 247        | 1160488BB                    | SOF PSYOP  | 07  |                      |                  | 15,554           | U           |
| 248        | 1160489BB                    | SOF Global Video Surveillance<br>Activities                    | 07  |                      |                  | 14,686           | U           |
| 249        | 1160490BB                    | SOF Operational Enhancements<br>Intelligence                   | 07  |                      |                  | 8,729            | U           |
|            |                              | <b>Operational Systems Development</b>                         |     | -----<br>376,459     | -----<br>341,513 | -----<br>260,642 |             |
|            |                              | <b>Total Special Operations Command</b>                        |     | -----<br>564,125     | -----<br>449,606 | -----<br>360,862 |             |



Defense Technical Information Center  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2007              | FY 2008 | FY 2009 |             |
| 143        | 0605801KA                    | Defense Technical Information<br>Center (DTIC) | 06  | 51,733               | 51,188  | 52,696  | U           |
|            |                              | RDT&E Management Support                       |     | 51,733               | 51,188  | 52,696  |             |
|            |                              | Total Defense Technical Information Center     |     | 51,733               | 51,188  | 52,696  |             |

Defense Contract Management Agency  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line<br>No                               | Program<br>Element<br>Number | Item                                       | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|--|------------------------------|--|-----|----------------------|---------|---------|-------------|
|  |                              |  |     | FY 2007              | FY 2008 | FY 2009 |             |
| 109                                      | 0605013BL                    | Information Technology Development         | 05  | 10,963               | 11,225  | 11,611  | U           |
|  |                              | System Development and Demonstration (SDD) |     | 10,963               | 11,225  | 11,611  |             |
| Total Defense Contract Management Agency |                              |  |     | 10,963               | 11,225  | 11,611  |             |

Chemical and Biological Defense Program  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|------------------|------------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008          | FY 2009          |             |
| 6          | 0601384BP                    | Chemical and Biological Defense<br>Program                           | 01  | 104,830              | 83,132           | 53,191           | U           |
|            |                              | <b>Basic Research</b>  |     | <b>104,830</b>       | <b>83,132</b>    | <b>53,191</b>    |             |
| 14         | 0602384BP                    | Chemical and Biological Defense<br>Program                           | 02  | 252,343              | 266,999          | 203,731          | U           |
|            |                              | <b>Applied Research</b>  |     | <b>252,343</b>       | <b>266,999</b>   | <b>203,731</b>   |             |
| 33         | 0603384BP                    | Chemical and Biological Defense<br>Program - Advanced Development    | 03  | 223,838              | 245,591          | 337,927          | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>                         |     | <b>223,838</b>       | <b>245,591</b>   | <b>337,927</b>   |             |
| 75         | 0603884BP                    | Chemical and Biological Defense<br>Program                           | 04  | 99,042               | 63,951           | 51,291           | U           |
|            |                              | <b>Advanced Component Development &amp; Prototypes</b>               |     | <b>99,042</b>        | <b>63,951</b>    | <b>51,291</b>    |             |
| 104        | 0604384BP                    | Chemical and Biological Defense<br>Program                           | 05  | 194,955              | 251,526          | 299,373          | U           |
|            |                              | <b>System Development and Demonstration (SDD)</b>                    |     | <b>194,955</b>       | <b>251,526</b>   | <b>299,373</b>   |             |
| 133        | 0605384BP                    | Chemical and Biological Defense<br>Program                           | 06  | 101,249              | 98,423           | 100,082          | U           |
|            |                              | <b>RDT&amp;E Management Support</b>                                  |     | <b>101,249</b>       | <b>98,423</b>    | <b>100,082</b>   |             |
| 162        | 0607384BP                    | Chemical and Biological Defense<br>(Operational Systems Development) | 07  | 6,940                | 7,667            | 10,274           | U           |
|            |                              | <b>Operational Systems Development</b>                               |     | <b>6,940</b>         | <b>7,667</b>     | <b>10,274</b>    |             |
|            |                              | <b>Total Chemical and Biological Defense Program</b>                 |     | <b>983,197</b>       | <b>1,017,289</b> | <b>1,055,869</b> |             |

National Geospatial Intelligence Agency  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 194        | 0304345BQ                    | National Geospatial-Intelligence<br>Program (NGP) | 07  |                      |         |         |             |
| 195        | 0305102BQ                    | Defense Geospatial-Intelligence<br>Program        | 07  |                      |         |         |             |
| 211        | 0305208BQ                    | Distributed Common Ground/Surface<br>Systems      | 07  |                      |         |         |             |
|            |                              | Operational Systems Development                   |     | -----                | -----   | -----   |             |
|            |                              | Total National Geospatial Intelligence Agency     |     | -----                | -----   | -----   |             |

Defense Threat Reduction Agency  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|----------------|----------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008        | FY 2009        |             |
| 1          | 0601000BR                    | DTRA Basic Research Initiative   | 01  | 13,270               | 10,831         | 18,000         | U           |
|            |                              | <b>Basic Research</b>  |     | <b>13,270</b>        | <b>10,831</b>  | <b>18,000</b>  |             |
| 18         | 0602716BR                    | WMD Defeat Technology  | 02  | 214,702              |                |                | U           |
| 20         | 0602717BR                    | WMD Defense Technologies   | 02  | 109,513              |                |                | U           |
| 21         | 0602718BR                    | Weapons of Mass Destruction<br>Defeat Technologies                           | 02  |                      | 211,325        | 211,078        | U           |
|            |                              | <b>Applied Research</b>  |     | <b>324,215</b>       | <b>211,325</b> | <b>211,078</b> |             |
| 28         | 0603160BR                    | Counterproliferation Initiatives<br>- Proliferation Prevention and<br>Defeat | 03  | 111,911              | 215,609        | 211,325        | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>                                 |     | <b>111,911</b>       | <b>215,609</b> | <b>211,325</b> |             |
| 108        | 0605000BR                    | Weapons of Mass Destruction<br>Defeat Capabilities                           | 05  |                      | 15,296         | 15,946         | U           |
|            |                              | <b>System Development and Demonstration (SDD)</b>                            |     |                      | <b>15,296</b>  | <b>15,946</b>  |             |
| 134        | 0605502BR                    | Small Business Innovation Research   | 06  | 6,744                | 2,436          |                | U           |
|            |                              | <b>RDT&amp;E Management Support</b>  |     | <b>6,744</b>         | <b>2,436</b>   |                |             |
|            |                              | <b>Total Defense Threat Reduction Agency</b>                                 |     | <b>456,140</b>       | <b>455,497</b> | <b>456,349</b> |             |

Defense Business Transformation Agency  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008          | FY 2009          |             |
| 110        | 0605018BTA                   | Defense Integrated Military Human Resources System (DIMHRS) | 05  |                      | 79,300           | 37,400           | U           |
| 111        | 0605020BTA                   | Business Transformation Agency R&D Activities               | 05  | 227,383              | 130,418          | 148,958          | U           |
|            |                              | System Development and Demonstration (SDD)                  |     | -----<br>227,383     | -----<br>209,718 | -----<br>186,358 |             |
|            |                              | Total Defense Business Transformation Agency                |     | -----<br>227,383     | -----<br>209,718 | -----<br>186,358 |             |

Counter Intelligence Field Activity  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 174        | 0301555BZ                    | Classified Programs                             | 07  |                      |         |         |             |
| 176        | 0301556BZ                    | Special Program                                 | 07  |                      |         |         |             |
| 200        | 0305127BZ                    | Foreign Counterintelligence<br>Activities       | 07  |                      |         |         |             |
| 201        | 0305146BZ                    | Defense Joint Counterintelligence<br>Activities | 07  | 27,430               | 2,933   | 2,947   | U           |
|            |                              | Operational Systems Development                 |     | -----                | -----   | -----   |             |
|            |                              | Total Counter Intelligence Field Activity       |     | -----                | -----   | -----   |             |

Missile Defense Agency  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|----------------|----------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008        | FY 2009        |             |
| 29         | 0603175C                     | Ballistic Missile Defense<br>Technology  | 03  | 183,849              | 108,423        | 118,718        | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>   |     | <b>183,849</b>       | <b>108,423</b> | <b>118,718</b> |             |
| 72         | 0603881C                     | Ballistic Missile Defense<br>Terminal Defense Segment                                  | 04  | 1,082,454            | 1,045,276      | 1,019,073      | U           |
| 73         | 0603882C                     | Ballistic Missile Defense<br>Midcourse Defense Segment                                 | 04  | 2,985,140            | 2,243,213      | 2,076,662      | U           |
| 74         | 0603883C                     | Ballistic Missile Defense Boost<br>Defense Segment                                     | 04  | 622,218              | 510,241        | 421,229        | U           |
| 76         | 0603884C                     | Ballistic Missile Defense Sensors  | 04  | 514,989              | 586,121        | 1,076,983      | U           |
| 77         | 0603886C                     | Ballistic Missile Defense System<br>Interceptor  | 04  | 341,358              | 340,107        | 386,817        | U           |
| 78         | 0603888C                     | Ballistic Missile Defense Test &<br>Targets  | 04  | 584,615              | 621,861        | 665,445        | U           |
| 79         | 0603890C                     | Ballistic Missile Defense Systems<br>Core  | 04  | 425,889              | 413,934        | 432,262        | U           |
| 80         | 0603891C                     | Special Programs - MDA   | 04  | 347,377              | 196,892        | 288,315        | U           |
| 81         | 0603892C                     | AEGIS BMD  | 04  | 1,125,426            | 1,126,337      | 1,157,783      | U           |
| 82         | 0603893C                     | Space Tracking & Surveillance<br>System  | 04  | 311,402              | 231,528        | 242,441        | U           |
| 83         | 0603894C                     | Multiple Kill Vehicle  | 04  | 133,615              | 229,943        | 354,455        | U           |
| 84         | 0603895C                     | Ballistic Missile Defense System<br>Space Programs                                     | 04  |                      | 16,552         | 29,771         | U           |
| 85         | 0603896C                     | Ballistic Missile Defense Command<br>and Control, Battle Management<br>and Communicati | 04  | 249,179              | 447,616        | 289,277        | U           |
| 86         | 0603897C                     | Ballistic Missile Defense Hercules   | 04  | 46,268               | 52,462         | 55,955         | U           |
| 87         | 0603898C                     | Ballistic Missile Defense Joint<br>Warfighter Support                                  | 04  | 49,833               | 49,394         | 69,982         | U           |



Missile Defense Agency  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008          | FY 2009          |             |
| 88         | 0603904C                     | Missile Defense Integration &<br>Operations Center (MDIOC)                        | 04  | 104,389              | 78,557           | 96,404           | U           |
| 89         | 0603905C                     | Ballistic Missile Defense<br>Distributed Multi Echelon<br>Training System (DMETS) | 04  | 21,870               |                  |                  | U           |
| 90         | 0603906C                     | Regarding Trench  | 04  |                      | 1,986            | 2,978            | U           |
| 91         | 0603907C                     | Sea Based X-Band Radar (SBX)  | 04  |                      | 165,243          |                  | U           |
|            |                              | <b>Advanced Component Development &amp; Prototypes</b>                            |     | <b>8,946,022</b>     | <b>8,357,263</b> | <b>8,665,832</b> |             |
| 135        | 0605502C                     | Small Business Innovative<br>Research - MDA                                       | 06  | 142,510              |                  |                  | U           |
|            |                              | <b>RDT&amp;E Management Support</b>   |     | <b>142,510</b>       |                  |                  |             |
| 157        | 0901585C                     | Pentagon Reservation  | 06  | 15,527               | 6,019            | 19,734           | U           |
| 158        | 0901598C                     | Management HQ - MDA   | 06  | 93,350               | 80,392           | 86,453           | U           |
|            |                              | <b>RDT&amp;E Management Support</b>   |     | <b>108,877</b>       | <b>86,411</b>    | <b>106,187</b>   |             |
|            |                              | <b>Total Missile Defense Agency</b>   |     | <b>9,381,258</b>     | <b>8,552,097</b> | <b>8,890,737</b> |             |

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APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |               |               | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------------|---------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008       | FY 2009       |             |
| 3          | 0601111D8Z                   | Government/Industry Cosponsorship<br>of University Research               | 01  | 8,679                | 6,161         |               | U           |
| 4          | 0601114D8Z                   | Defense Experimental Program to<br>Stimulate Competitive Research         | 01  | 8,992                | 16,931        | 2,833         | U           |
| 5          | 0601120D8Z                   | National Defense Education Program  | 01  | 18,425               | 43,988        | 68,972        | U           |
|            |                              | <b>Basic Research</b>   |     | <b>36,096</b>        | <b>67,080</b> | <b>71,805</b> |             |
| 7          | 0602000D8Z                   | Joint Munitions Technology  | 02  | 10,323               | 12,433        | 15,254        | U           |
| 8          | 0602227D8Z                   | Medical Free Electron Laser   | 02  | 15,487               | 2,385         |               | U           |
| 9          | 0602228D8Z                   | Historically Black Colleges and<br>Universities (HBCU) Science            | 02  | 19,550               | 37,463        | 15,156        | U           |
| 10         | 0602234D8Z                   | Lincoln Laboratory Research<br>Program                                    | 02  | 27,962               | 29,269        | 31,340        | U           |
| 15         | 0602670D8Z                   | Human, Social and Culture<br>Behavior Modeling (HSCB) Applied<br>Research | 02  |                      | 6,246         | 7,685         | U           |
|            |                              | <b>Applied Research</b>   |     | <b>73,322</b>        | <b>87,796</b> | <b>69,435</b> |             |
| 25         | 0603000D8Z                   | Insensitive Munitions - Advanced<br>Development                           | 03  |                      | 3,966         | 15,970        | U           |
| 26         | 0603121D8Z                   | SO/LIC Advanced Development   | 03  | 34,813               | 39,815        | 32,832        | U           |
| 27         | 0603122D8Z                   | Combating Terrorism Technology<br>Support                                 | 03  | 104,880              | 117,628       | 79,970        | U           |
| 30         | 0603225D8Z                   | Joint DoD-DoE Munitions<br>Technology Development                         | 03  | 22,449               | 23,284        | 23,727        | U           |
| 34         | 0603618D8Z                   | Joint Electronic Advanced<br>Technology                                   | 03  | 10,692               | 12,311        | 9,320         | U           |
| 35         | 0603648D8Z                   | Joint Capability Technology<br>Demonstrations                             | 03  | 35,594               | 202,484       | 206,337       | U           |
| 36         | 0603662D8Z                   | Networked Communications<br>Capabilities                                  | 03  |                      | 14,871        | 39,923        | U           |
| 37         | 0603665D8Z                   | Biometrics Science and Technology   | 03  |                      | 10,113        | 10,579        | U           |

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Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                  |                  | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|------------------|------------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008          | FY 2009          |             |
| 38         | 0603670D8Z                   | Human, Social and Culture<br>Behavior Modeling (HSCB) Advanced<br>Development | 03  |                      | 2,974            | 9,381            | U           |
| 39         | 0603680D8Z                   | Defense-Wide Manufacturing<br>Science and Technology Program                  | 03  |                      | 23,594           | 11,981           | U           |
| 40         | 0603711D8Z                   | Joint Robotics Program/Autonomous<br>Systems                                  | 03  | 8,765                | 19,585           | 8,449            | U           |
| 43         | 0603716D8Z                   | Strategic Environmental Research<br>Program                                   | 03  | 62,156               | 69,071           | 69,038           | U           |
| 45         | 0603727D8Z                   | Joint Warfighting Program   | 03  | 10,328               | 10,964           | 11,098           | U           |
| 47         | 0603745D8Z                   | Synthetic Aperture Radar (SAR)<br>Coherent Change Detection (CDD)             | 03  |                      | 3,469            | 7,984            | U           |
| 48         | 0603750D8Z                   | Advanced Concept Technology<br>Demonstrations                                 | 03  | 158,313              | 1,589            |                  | U           |
| 49         | 0603755D8Z                   | High Performance Computing<br>Modernization Program                           | 03  | 198,367              | 205,017          | 208,079          | U           |
| 57         | 0603781D8Z                   | Software Engineering Institute  | 03  | 27,700               | 25,726           | 31,244           | U           |
| 59         | 0603826D8Z                   | Quick Reaction Special Projects   | 03  | 103,566              | 113,244          | 113,924          | U           |
| 60         | 0603828D8Z                   | Joint Experimentation   | 03  | 102,222              | 107,240          | 114,947          | U           |
| 61         | 0603832D8Z                   | Joint Wargaming Simulation<br>Management Office                               | 03  | 34,110               | 22,639           | 38,147           | U           |
| 62         | 0603941D8Z                   | Test & Evaluation Science &<br>Technology                                     | 03  | 38,759               | 62,344           | 94,672           | U           |
| 63         | 0603942D8Z                   | Technology Transfer   | 03  | 11,910               | 5,784            | 2,170            | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>                                  |     | <b>964,624</b>       | <b>1,097,712</b> | <b>1,139,772</b> |             |
| 66         | 0603161D8Z                   | Nuclear and Conventional Physical<br>Security Equipment RDT&E ADC&P           | 04  | 38,861               | 49,131           | 38,758           | U           |
| 67         | 0603228D8Z                   | Physical Security Equipment   | 04  |                      | 1,589            |                  | U           |
| 68         | 0603527D8Z                   | RETRACT LARCH   | 04  | 22,253               | 22,172           | 22,945           | U           |

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|------------|--|---|-----|----------------------|----------------|----------------|-------------|
|            |  |   |     | FY 2007              | FY 2008        | FY 2009        |             |
| 69         | 0603709D8Z   | Joint Robotics Program  | 04  | 22,975               | 23,654         | 11,847         | U           |
| 70         | 0603714D8Z   | Advanced Sensor Applications<br>Program   | 04  | 24,128               |                |                | U           |
| 71         | 0603851D8Z   | Environmental Security Technical<br>Certification Program                         | 04  | 32,251               | 38,860         | 31,600         | U           |
| 92         | 0603920D8Z   | Humanitarian Demining   | 04  | 14,404               | 13,923         | 14,373         | U           |
| 93         | 0603923D8Z   | Coalition Warfare   | 04  | 5,844                | 9,960          | 14,030         | U           |
| 94         | 0604016D8Z   | Department of Defense Corrosion<br>Program  | 04  | 7,124                | 18,917         | 5,102          | U           |
| 95         | 0604648D8Z   | Joint Capability Technology<br>Demonstrations                                     | 04  | 3,029                | 2,934          | 14,962         | U           |
| 96         | 0604670D8Z   | Human, Social and Culture<br>Behavior Modeling (HSCB) Research<br>and Engineering | 04  |                      | 991            | 5,991          | U           |
| 97         | 0604787D8Z   | Joint Systems Integration Command<br>(JSIC)                                       | 04  | 20,635               | 19,207         | 19,643         | U           |
| 98         | 0604828D8Z   | Joint FIRES Integration and<br>Interoperability Team                              | 04  | 16,684               | 16,452         | 16,906         | U           |
| 99         | 0605017D8Z   | Reduction Of Total Ownership Cost   | 04  | 25,141               | 25,006         | 24,765         | U           |
|            | <b>Advanced Component Development &amp; Prototypes</b> |   |     | <b>233,329</b>       | <b>242,796</b> | <b>220,922</b> |             |
| 100        | 0303191D8Z   | Joint Electromagnetic Technology<br>(JET) Program                                 | 04  | 7,826                | 9,175          | 3,524          | U           |
|            | <b>Advanced Component Development &amp; Prototypes</b> |   |     | <b>7,826</b>         | <b>9,175</b>   | <b>3,524</b>   |             |
| 101        | 0604051D8Z   | Defense Acquisition Challenge<br>Program (DACP)                                   | 05  | 28,665               | 28,718         | 30,363         | U           |
| 102        | 0604161D8Z   | Nuclear and Conventional Physical<br>Security Equipment RDT&E SDD                 | 05  | 11,735               | 3,252          | 4,355          | U           |
| 103        | 0604165D8Z   | Prompt Global Strike Capability<br>Development                                    | 05  |                      | 99,364         | 117,572        | U           |
| 105        | 0604709D8Z   | Joint Robotics Program  | 05  | 9,721                | 6,851          | 5,725          | U           |

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|---|------------------------------|---|-----|----------------------|----------------|----------------|-------------|
|   |                              |   |     | FY 2007              | FY 2008        | FY 2009        |             |
| 107   | 0604771D8Z                   | Joint Tactical Information<br>Distribution System (JTIDS)     | 05  | 7,946                | 16,384         | 20,600         | U           |
| 113   | 0605140D8Z                   | Trusted Foundry   | 05  | 41,317               | 43,227         | 42,360         | U           |
| 114   | 0605648D8Z                   | Defense Acquisition Executive<br>(DAE) Pilot Program          | 05  | 5,844                | 5,788          | 5,883          | U           |
| <b>System Development and Demonstration (SDD)</b> |                              |   |     | <b>105,228</b>       | <b>203,584</b> | <b>226,858</b> |             |
| 118   | 0603757D8Z                   | Training Transformation (T2)                                  | 06  | 76,677               | 60,524         | 38,729         | U           |
| 119   | 0604774D8Z                   | Defense Readiness Reporting<br>System (DRRS)                  | 06  | 13,231               | 11,784         | 11,385         | U           |
| 120   | 0604875D8Z                   | Joint Systems Architecture<br>Development                     | 06  | 9,869                | 14,312         | 14,310         | U           |
| 121   | 0604940D8Z                   | Central Test and Evaluation<br>Investment Development (CTEIP) | 06  | 132,509              | 146,888        | 133,852        | U           |
| 122   | 0604943D8Z                   | Thermal Vicar   | 06  | 7,414                | 9,385          | 9,658          | U           |
| 123   | 0605100D8Z                   | Joint Mission Environment Test<br>Capability (JMETC)          | 06  | 10,409               | 6,865          | 8,834          | U           |
| 124   | 0605104D8Z                   | Technical Studies, Support and<br>Analysis                    | 06  | 35,737               | 34,958         | 34,520         | U           |
| 125   | 0605110D8Z                   | USD(A&T)--Critical Technology<br>Support                      | 06  | 4,337                | 3,987          | 4,007          | U           |
| 126   | 0605117D8Z                   | Foreign Material Acquisition and<br>Exploitation              | 06  | 38,873               | 52,227         | 62,816         | U           |
| 128   | 0605128D8Z                   | Classified Program USD(P)                                     | 06  | 91,626               | 97,576         |                | U           |
| 129   | 0605130D8Z                   | Foreign Comparative Testing                                   | 06  | 31,438               | 32,634         | 34,910         | U           |
| 130   | 0605161D8Z                   | Nuclear Matters-Physical Security                             | 06  | 4,193                | 4,475          | 4,475          | U           |
| 131   | 0605170D8Z                   | Support to Networks and<br>Information Integration            | 06  | 16,607               | 11,055         | 14,723         | U           |
| 132   | 0605200D8Z                   | General Support to USD<br>(Intelligence)                      | 06  | 5,715                | 4,534          | 4,379          | U           |

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|------------|--|--|-----|----------------------|----------------|----------------|-------------|
|            |  |  |     | FY 2007              | FY 2008        | FY 2009        |             |
| 136        | 0605502D8Z                             | Small Business Innovative Research                             | 06  | 42,805               |                |                | U           |
| 139        | 0605790D8Z                             | Small Business Innovation<br>Research/Challenge Administration | 06  | 4,423                | 3,135          | 2,165          | U           |
| 140        | 0605798D8Z                             | Defense Technology Analysis                                    | 06  |                      | 13,608         | 11,040         | U           |
| 142        | 0605799D8Z                             | Force Transformation Directorate                               | 06  | 50,985               | 20,407         | 20,701         | U           |
| 145        | 0605804D8Z                             | Development Test and Evaluation                                | 06  | 9,155                | 18,550         | 20,396         | U           |
| 148        | 0606100D8Z                             | Budget and Program Assessments                                 | 06  |                      | 1,739          | 5,878          | U           |
|            | <b>RDT&amp;E Management Support</b>    |  |     | <b>586,003</b>       | <b>548,643</b> | <b>436,778</b> |             |
| 151        | 0303166D8Z                             | Support to Information Operations<br>(IO) Capabilities         | 06  |                      | 34,590         | 30,039         | U           |
| 152        | 0303169D8Z                             | Information Technology Rapid<br>Acquisition                    | 06  | 5,479                | 5,152          | 5,254          | U           |
| 154        | 0305193D8Z                             | Intelligence Support to<br>Information Operations (IO)         | 06  | 14,234               | 9,846          | 17,625         | U           |
| 156        | 0305400D8Z                             | Warfighting and<br>Intelligence-Related Support                | 06  |                      | 820            | 831            | U           |
|            | <b>RDT&amp;E Management Support</b>    |  |     | <b>19,713</b>        | <b>50,408</b>  | <b>53,749</b>  |             |
| 163        | 0607828D8Z                             | Joint Integration and<br>Interoperability                      | 07  | 53,236               | 53,425         | 49,371         | U           |
|            | <b>Operational Systems Development</b> |  |     | <b>53,236</b>        | <b>53,425</b>  | <b>49,371</b>  |             |
| 183        | 0303140D8Z                             | Information Systems Security<br>Program                        | 07  | 18,204               | 15,524         | 13,459         | U           |
| 196        | 0305103D8Z                             | Cyber Security Initiative                                      | 07  |                      |                | 1,000          | U           |
| 199        | 0305125D8Z                             | Critical Infrastructure<br>Protection (CIP)                    | 07  | 14,068               | 12,587         | 12,700         | U           |
| 203        | 0305186D8Z                             | Policy R&D Programs  | 07  |                      | 10,560         | 8,237          | U           |
| 206        | 0305199D8Z                             | Net Centricity   | 07  | 8,967                | 10,154         | 12,716         | U           |
|            | <b>Operational Systems Development</b> |  |     | <b>41,239</b>        | <b>48,825</b>  | <b>48,112</b>  |             |

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|--------------------------------------|------------------------------|---------------------------------|-----|----------------------|-----------|-----------|-------------|
|                                      |                              |                                 |     | FY 2007              | FY 2008   | FY 2009   |             |
| 228                                  | 1001018D8Z                   | NATO Joint STARS                | 07  | 42,702               | 31,194    | 27,756    | U           |
|                                      |                              | Operational Systems Development |     | 42,702               | 31,194    | 27,756    |             |
| Total Office of Secretary Of Defense |                              |                                 |     | 2,163,318            | 2,440,638 | 2,348,082 |             |

Defense Adv Research Projects Agcy  
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|---------|------------------------|--|-----|----------------------|------------------|------------------|-------|
|         |                        |  |     | FY 2007              | FY 2008          | FY 2009          |       |
| 2       | 0601101E               | Defense Research Sciences                    | 01  | 139,521              | 174,996          | 195,657          | U     |
|         |                        | <b>Basic Research</b>                        |     | <b>139,521</b>       | <b>174,996</b>   | <b>195,657</b>   |       |
| 11      | 0602303E               | Information & Communications Technology      | 02  | 228,073              | 230,385          | 254,009          | U     |
| 12      | 0602304E               | Cognitive Computing Systems                  | 02  | 165,395              | 174,680          | 145,262          | U     |
| 13      | 0602383E               | Biological Warfare Defense                   | 02  | 99,926               | 72,101           | 66,291           | U     |
| 16      | 0602702E               | Tactical Technology                          | 02  | 300,721              | 335,967          | 371,481          | U     |
| 17      | 0602715E               | Materials and Biological Technology          | 02  | 270,513              | 301,741          | 285,264          | U     |
| 19      | 0602716E               | Electronics Technology                       | 02  | 215,742              | 196,707          | 211,457          | U     |
|         |                        | <b>Applied Research</b>                      |     | <b>1,280,370</b>     | <b>1,311,581</b> | <b>1,333,764</b> |       |
| 31      | 0603286E               | Advanced Aerospace Systems                   | 03  | 58,414               | 71,925           | 107,857          | U     |
| 32      | 0603287E               | Space Programs and Technology                | 03  | 222,300              | 216,419          | 287,009          | U     |
| 46      | 0603739E               | Advanced Electronics Technologies            | 03  | 212,889              | 202,942          | 201,146          | U     |
| 50      | 0603760E               | Command, Control and Communications Systems  | 03  | 229,399              | 255,235          | 338,964          | U     |
| 51      | 0603764E               | Land Warfare Technology                      | 03  | 36,658               | 19,642           |                  | U     |
| 52      | 0603765E               | Classified DARPA Programs                    | 03  | 147,159              | 186,992          | 196,697          | U     |
| 53      | 0603766E               | Network-Centric Warfare Technology           | 03  | 137,063              | 150,677          | 156,733          | U     |
| 54      | 0603767E               | Sensor Technology                            | 03  | 189,795              | 195,213          | 226,470          | U     |
| 55      | 0603768E               | Guidance Technology                          | 03  | 127,170              | 124,974          | 110,572          | U     |
|         |                        | <b>Advanced Technology Development (ATD)</b> |     | <b>1,360,847</b>     | <b>1,424,019</b> | <b>1,625,448</b> |       |
| 137     | 0605502E               | Small Business Innovative Research           | 06  | 78,657               |                  |                  | U     |
| 146     | 0605897E               | DARPA Agency Relocation                      | 06  |                      |                  | 28,000           | U     |



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|--|------------------------------|---------------------------|-----|----------------------|-----------|-----------|-------------|
|  |                              |                           |     | FY 2007              | FY 2008   | FY 2009   |             |
| 147                                      | 0605898E                     | Management HQ - R&D       | 06  | 48,766               | 48,480    | 52,700    | U           |
|  |                              | RDT&E Management Support  |     | 127,423              | 48,480    | 80,700    |             |
| 153                                      | 0305103E                     | Cyber Security Initiative | 06  |                      |           | 50,000    | U           |
|  |                              | RDT&E Management Support  |     |                      |           | 50,000    |             |
| Total Defense Adv Research Projects Agcy |                              |                           |     | 2,908,161            | 2,959,076 | 3,285,569 |             |

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|------------|------------------------------|---|-----|----------------------|---------|---------|-------------|
|            |                              |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 149        | 0301555G                     | Classified Programs   | 06  |                      |         |         |             |
| 150        | 0301556G                     | Special Program   | 06  |                      |         |         |             |
| 155        | 0305193G                     | Intelligence Support to<br>Information Operations (IO)      | 06  |                      |         |         |             |
|            |                              | RDT&E Management Support                                    |     | -----                | -----   | -----   |             |
| 167        | 0301011G                     | Cryptologic Activities                                      | 07  |                      |         |         |             |
| 171        | 0301371G                     | Cyber Security Initiative - CCP                             | 07  |                      |         |         |             |
| 181        | 0303135G                     | Public Key Infrastructure (PKI)                             | 07  | 14,186               | 9,329   | 15,577  | U           |
| 182        | 0303136G                     | Key Management Infrastructure<br>(KMI)                      | 07  | 38,113               | 51,759  | 49,578  | U           |
| 184        | 0303140G                     | Information Systems Security<br>Program                     | 07  | 403,441              | 391,807 | 394,074 | U           |
| 197        | 0305103G                     | Cyber Security Initiative                                   | 07  |                      |         |         |             |
| 204        | 0305193G                     | Intelligence Support to<br>Information Operations (IO)      | 07  |                      |         |         |             |
| 207        | 0305202G                     | Dragon U-2  | 07  |                      |         |         |             |
| 208        | 0305206G                     | Airborne Reconnaissance Systems                             | 07  |                      |         |         |             |
| 209        | 0305207G                     | Manned Reconnaissance Systems                               | 07  |                      |         |         |             |
| 212        | 0305208G                     | Distributed Common Ground/Surface<br>Systems                | 07  |                      |         |         |             |
| 216        | 0305229G                     | Real-Time Architecture<br>Development (RT10)                | 07  |                      |         |         |             |
| 221        | 0305885G                     | Tactical Cryptologic Activities                             | 07  |                      |         |         |             |
| 222        | 0305889G                     | Counterdrug Intelligence Support                            | 07  |                      |         |         |             |
| 223        | 0307141G                     | Information Operations Technology<br>Integration & Tool Dev | 07  |                      |         |         |             |

National Security Agency  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item                            | Act | Thousands of Dollars |                |                | S<br>E<br>C |
|------------|------------------------------|---------------------------------|-----|----------------------|----------------|----------------|-------------|
|            |                              |                                 |     | <u>FY 2007</u>       | <u>FY 2008</u> | <u>FY 2009</u> |             |
| 224        | 0307207G                     | Aerial Common Sensor (ACS)      | 07  | -----                | -----          | -----          |             |
|            |                              | Operational Systems Development |     | -----                | -----          | -----          |             |
|            |                              | Total National Security Agency  |     | -----                | -----          | -----          |             |

The Joint Staff  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No                   | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |               |               | S<br>E<br>C |
|------------------------------|------------------------------|---|-----|----------------------|---------------|---------------|-------------|
|                              |                              |   |     | FY 2007              | FY 2008       | FY 2009       |             |
| 127                          | 0605126J                     | Joint Theater Air and Missile<br>Defense Organization | 06  | 52,287               | 53,653        | 55,282        | U           |
|                              |                              | <b>RDT&amp;E Management Support</b>                   |     | <b>52,287</b>        | <b>53,653</b> | <b>55,282</b> |             |
| 164                          | 0204571J                     | Joint Staff Analytical Support                        | 07  | 7,525                | 7,631         | 8,030         | U           |
| 165                          | 0208043J                     | Classified Programs                                   | 07  | 1,656                | 1,694         | 1,728         | U           |
|                              |                              | <b>Operational Systems Development</b>                |     | <b>9,181</b>         | <b>9,325</b>  | <b>9,758</b>  |             |
| 187                          | 0303149J                     | C4I for the Warrior                                   | 07  | 3,543                | 3,624         | 3,662         | U           |
|                              |                              | <b>Operational Systems Development</b>                |     | <b>3,543</b>         | <b>3,624</b>  | <b>3,662</b>  |             |
| 227                          | 0902298J                     | Management Headquarters (JCS)                         | 07  | 3,078                | 2,766         | 3,401         | U           |
|                              |                              | <b>Operational Systems Development</b>                |     | <b>3,078</b>         | <b>2,766</b>  | <b>3,401</b>  |             |
| <b>Total The Joint Staff</b> |                              |   |     | <b>68,089</b>        | <b>69,368</b> | <b>72,103</b> |             |

Defense Information Systems Agency  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line No | Program Element Number | Item   | Act | Thousands of Dollars |               |                | S E C |
|---------|------------------------|--|-----|----------------------|---------------|----------------|-------|
|         |                        |  |     | FY 2007              | FY 2008       | FY 2009        |       |
| 22      | 0303153K               | Joint Spectrum Center                                      | 02  | 76,500               |               |                | U     |
|         |                        | <b>Applied Research</b>                                    |     | <b>76,500</b>        |               |                |       |
| 106     | 0604764K               | Advanced IT Services Joint Program Office (AITS-JPO)       | 05  | 10,292               | 9,642         | 13,770         | U     |
|         |                        | <b>System Development and Demonstration (SDD)</b>          |     | <b>10,292</b>        | <b>9,642</b>  | <b>13,770</b>  |       |
| 115     | 0303129K               | Defense Message System                                     | 05  | 11,187               |               |                | U     |
| 116     | 0303141K               | Global Combat Support System                               | 05  | 18,040               | 17,939        | 18,604         | U     |
| 117     | 0303158K               | Joint Command and Control Program (JC2)                    | 05  | 27,771               | 57,914        | 147,339        | U     |
|         |                        | <b>System Development and Demonstration (SDD)</b>          |     | <b>56,998</b>        | <b>75,853</b> | <b>165,943</b> |       |
| 166     | 0208045K               | C4I Interoperability                                       | 07  | 76,697               | 75,694        | 76,226         | U     |
|         |                        | <b>Operational Systems Development</b>                     |     | <b>76,697</b>        | <b>75,694</b> | <b>76,226</b>  |       |
| 168     | 0301144K               | Joint/Allied Coalition Information Sharing                 | 07  |                      | 25,818        | 19,073         | U     |
| 177     | 0302016K               | National Military Command System-Wide Support              | 07  | 718                  | 708           | 615            | U     |
| 178     | 0302019K               | Defense Info Infrastructure Engineering and Integration    | 07  | 35,790               | 5,229         | 16,054         | U     |
| 179     | 0303126K               | Long-Haul Communications - DCS                             | 07  | 5,360                | 16,382        | 8,508          | U     |
| 180     | 0303131K               | Minimum Essential Emergency Communications Network (MEECN) | 07  | 9,332                | 9,421         | 9,685          | U     |
| 185     | 0303140K               | Information Systems Security Program                       | 07  |                      | 2,285         |                | U     |
| 186     | 0303148K               | DISA Mission Support Operations                            | 07  | 40                   |               | 2,181          | U     |
| 188     | 0303149K               | C4I for the Warrior  | 07  | 7,102                |               |                | U     |
| 189     | 0303150K               | Global Command and Control System                          | 07  | 60,920               | 46,795        | 36,374         | U     |
| 190     | 0303153K               | Joint Spectrum Center                                      | 07  | 11,985               | 18,534        | 19,319         | U     |

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Defense Information Systems Agency  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line | Program Element |   | Act | Thousands of Dollars |                  |                  | S<br>E |
|------|-----------------|---|-----|----------------------|------------------|------------------|--------|
|      | No              | Number  |     | Item                 | FY 2007          | FY 2008          |        |
| 191  | 0303170K        | Net-Centric Enterprise Services (NCES)          | 07  | 32,174               | 38,180           | 429              | U      |
| 192  | 0303610K        | Teleport Program                                | 07  | 14,280               | 5,761            | 2,060            | U      |
| 198  | 0305103K        | Cyber Security Initiative                       | 07  |                      |                  | 12,800           | U      |
| 213  | 0305208K        | Distributed Common Ground/Surface Systems       | 07  | 7,424                | 17,289           | 3,227            | U      |
|      |                 | <b>Operational Systems Development</b>          |     | -----<br>185,125     | -----<br>186,402 | -----<br>130,325 |        |
|      |                 | <b>Total Defense Information Systems Agency</b> |     | -----<br>405,612     | -----<br>347,591 | -----<br>386,264 |        |

Defense Intelligence Agency  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line No | Program Element Number | Item  | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|---------|------------------------|---|-----|----------------------|---------|---------|-------------|
|         |                        |   |     | FY 2007              | FY 2008 | FY 2009 |             |
| 169     | 0301301L               | General Defense Intelligence Program                | 07  |                      |         |         |             |
| 172     | 0301372L               | Cyber Security Initiative - GDIP                    | 07  |                      |         |         |             |
| 202     | 0305183L               | Defense Human Intelligence (HUMINT) Activities      | 07  |                      |         |         |             |
| 205     | 0305193L               | Intelligence Support to Information Operations (IO) | 07  |                      |         |         |             |
| 214     | 0305208L               | Distributed Common Ground/Surface Systems           | 07  |                      |         |         |             |
| 217     | 0305866L               | DIA support to SOUTHCOM Intelligence Activities     | 07  |                      |         |         |             |
| 218     | 0305880L               | Combatant Command Intelligence Operations           | 07  |                      |         |         |             |
| 219     | 0305883L               | Hard and Deeply Buried Target (HDBT) Intel Support  | 07  |                      |         |         |             |
| 220     | 0305884L               | Intelligence Planning and Review Activities         | 07  |                      |         |         |             |
|         |                        | Operational Systems Development                     |     | -----                | -----   | -----   |             |
|         |                        | Total Defense Intelligence Agency                   |     | -----                | -----   | -----   |             |

Defense Logistics Agency  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |                |               | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|----------------|---------------|-------------|
|            |                              |  |     | FY 2007              | FY 2008        | FY 2009       |             |
| 41         | 0603712S                     | Generic Logistics R&D Technology<br>Demonstrations     | 03  | 56,532               | 55,859         | 19,375        | U           |
| 42         | 0603713S                     | Deployment and Distribution<br>Enterprise Technology   | 03  | 15,036               | 14,905         | 30,000        | U           |
| 44         | 0603720S                     | Microelectronics Technology<br>Development and Support | 03  | 90,285               | 47,138         |               | U           |
| 58         | 0603805S                     | Dual Use Technology                                    | 03  | 5,200                |                |               | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>           |     | <b>167,053</b>       | <b>117,902</b> | <b>49,375</b> |             |
| 138        | 0605502S                     | Small Business Innovative Research                     | 06  | 4,309                |                |               | U           |
| 141        | 0605798S                     | Defense Technology Analysis                            | 06  | 7,763                |                |               | U           |
|            |                              | <b>RDT&amp;E Management Support</b>                    |     | <b>12,072</b>        |                |               |             |
| 225        | 0708011S                     | Industrial Preparedness                                | 07  | 34,142               | 57,347         | 20,480        | U           |
| 226        | 0708012S                     | Logistics Support Activities                           | 07  | 2,901                | 2,828          | 2,846         | U           |
|            |                              | <b>Operational Systems Development</b>                 |     | <b>37,043</b>        | <b>60,175</b>  | <b>23,326</b> |             |
|            |                              | <b>Total Defense Logistics Agency</b>                  |     | <b>216,168</b>       | <b>178,077</b> | <b>72,701</b> |             |



DoD Human Resources Activity  
FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |               |               | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|---------------|---------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008       | FY 2009       |             |
| 56         | 0603769SE                    | Distributed Learning Advanced<br>Technology Development     | 03  | 17,983               | 13,197        | 13,538        | U           |
|            |                              | <b>Advanced Technology Development (ATD)</b>                |     | <b>17,983</b>        | <b>13,197</b> | <b>13,538</b> |             |
| 112        | 0605021SE                    | Homeland Personnel Security<br>Initiative                   | 05  |                      | 1,789         | 400           | U           |
|            |                              | <b>System Development and Demonstration (SDD)</b>           |     |                      | <b>1,789</b>  | <b>400</b>    |             |
| 144        | 0605803SE                    | R&D in Support of DoD Enlistment,<br>Testing and Evaluation | 06  | 9,080                | 9,267         | 25,435        | U           |
|            |                              | <b>RDT&amp;E Management Support</b>                         |     | <b>9,080</b>         | <b>9,267</b>  | <b>25,435</b> |             |
|            |                              | <b>Total DoD Human Resources Activity</b>                   |     | <b>27,063</b>        | <b>24,253</b> | <b>39,373</b> |             |

Defense Security Cooperation Agency  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test & Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item   | Act | Thousands of Dollars |         |         | S<br>E<br>C |
|------------|------------------------------|--|-----|----------------------|---------|---------|-------------|
|            |                              |  |     | FY 2007              | FY 2008 | FY 2009 |             |
| 161        | 0605127T                     | Partnership for Peace (PfP)<br>Information Management System | 07  |                      | 1,987   | 2,496   | U           |
|            |                              | Operational Systems Development                              |     | -----                | -----   | -----   |             |
|            |                              |  |     |                      | 1,987   | 2,496   |             |
|            |                              | Total Defense Security Cooperation Agency                    |     | -----                | -----   | -----   |             |
|            |                              |  |     |                      | 1,987   | 2,496   |             |

Defense Security Service  
 FY 2009 RDT&E PROGRAM

EXHIBIT R-1

APPROPRIATION: 0400D Research, Development, Test &amp; Eval, DW

Date: FEB 2008

| Line<br>No | Program<br>Element<br>Number | Item  | Act | Thousands of Dollars |                 |                 | S<br>E<br>C |
|------------|------------------------------|---|-----|----------------------|-----------------|-----------------|-------------|
|            |                              |   |     | FY 2007              | FY 2008         | FY 2009         |             |
| 160        | 0604130V                     | Defense Information System for<br>Security (DISS) | 07  | 40,305               | 34,198          | 11,533          | U           |
|            |                              | Operational Systems Development                   |     | -----<br>40,305      | -----<br>34,198 | -----<br>11,533 |             |
|            |                              | Total Defense Security Service                    |     | -----<br>40,305      | -----<br>34,198 | -----<br>11,533 |             |