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| Missile Defense Agency (MDA) Exhibit R-2 RDT&E Item Justification | | | | | | Date May 2009 | | |
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| APPROPRIATION/BUDGET ACTIVITY RDT&E, DW/06 RDT&E Management Support | | | | R-1 NOMENCLATURE 0605502C Small Business Innovative Research BMDO | | | | |
|--|--|--|--|--|--|--|--|--|

| COST (\$ in Thousands) | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|
| Total Program Element (PE) Cost | 137,409 | 0 | 0 | | | | | |
| ZX45 Small Business Innovative Research (SBIR) | 137,409 | 0 | 0 | | | | | |

A. Mission Description and Budget Item Justification

This project explores innovative concepts pursuant to Public Law 106-554 (Small Business Reauthorization Act of 2000) and Public Law 107-50 (Small Business Technology Transfer Program Reauthorization Act of 2001), which mandates a two-phase competition for small businesses with innovative technologies that can also be commercialized. The Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs will develop new dual-use technologies for possible future MDA BMDS needs. Dual-use means that the technologies will also be judged on their potential for future private sector investment both as a vehicle for reducing development time and cost, unit costs of new MDA BMDS technologies, and as a route to national economic growth through new commercial products. MDA will conduct the competition and will award and manage the contracts with assistance from our executing agents.

Accomplishments/Planned Program

| | FY 2008 | FY 2009 | FY 2010 | FY 2011 |
|---|---------|---------|---------|---------|
| Small Business Innovation Research (SBIR) | 122,689 | 0 | 0 | |

FY08 SBIR Accomplishments

- Awarded 159 Phase Is and 91 Phase IIs.
- Phase I Awards were in the following 10 Research Areas: Airborne Component Technology, Discrimination, Information Assurance, Integration (C2BMC), Interceptor Technology, Manufacturing and Producibility, Modeling and Simulation, Radar Systems Technology, Safety/Insensitive Munitions and Space Technology.
- Phase II awards were in the following 10 Research Areas: Airborne Component Technology, Discrimination, Integration (C2BMC), Manufacturing Process, Modeling & Simulation, Radar Systems Technology, Radiation Hardening, Safety/Insensitive Munitions, Security/Anti-Tamper and Space Technology.

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- Selected 43 firms for SBIR Phase II Transition program award leveraging matching, non-SBIR funds from entities such as Army (SMDC, TARDEC, SVAD, AMRDEC), MDA (DEP, DV, AB, DEP, TH), Lockheed Martin Corporation, National Security Agency, Air Force Research Laboratory (VSBYM, RVBYB), Northrup Grumman (Ball Aerospace), SAIC, SPAWAR, Defense MicroElectronics Activity, BAE Systems, MIT Lincoln Laboratory, Boeing and Raytheon. Selections based on transition sponsor assessment of transition plans offered by the applicants.

| | | | | |
|---|---------|---------|---------|---------|
| | FY 2008 | FY 2009 | FY 2010 | FY 2011 |
| Small Business Technology Transfer (STTR) | 14,720 | 0 | 0 | |

FY08 STTR Accomplishments

- A total of 16 Phase IIs were awarded.
- The Phase II Awards were in the following 6 Research Areas: Discrimination, Manufacturing Process, Radiation Hardening, Radar Systems Technology, Safety/Insensitive Munitions and Space Technology.

| B. Program Change Summary Table | FY 2008 | FY 2009 | FY 2010 | FY 2011 |
|---|---------|---------|---------|---------|
| Previous President's Budget (FY2009 PB) | 0 | 0 | 0 | |
| Current President's Budget (FY2010 PB) | 137,409 | 0 | 0 | |
| Total Adjustments | 137,409 | 0 | 0 | |
| Congressional Program Reductions | 0 | 0 | 0 | |
| Congressional Rescissions | 0 | 0 | 0 | |
| Total Congressional Increases | 0 | 0 | 0 | |
| Total Reprogrammings | 0 | 0 | 0 | |
| SBIR/STTR Transfer | 137,409 | 0 | 0 | |
| Adjustments to Budget Years | 0 | 0 | 0 | |

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| C. Other Program Funding Summary | | | | | | | | | |
| | FY 2008 | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | Total Cost |
| PE 0603175C Ballistic Missile Defense Technology | 106,437 | 119,308 | 109,760 | | | | | | - |
| PE 0603881C Ballistic Missile Defense Terminal Defense Segment | 1,034,478 | 956,686 | 719,465 | | | | | | - |
| PE 0603882C Ballistic Missile Defense Midcourse Defense Segment | 2,198,664 | 1,507,481 | 982,922 | | | | | | - |
| PE 0603883C Ballistic Missile Defense Boost Defense Segment | 503,475 | 400,751 | 186,697 | | | | | | - |
| PE 0603884C Ballistic Missile Defense Sensors | 574,231 | 777,693 | 636,856 | | | | | | - |
| PE 0603886C Ballistic Missile Defense System Interceptors | 330,874 | 385,493 | 0 | | | | | | - |
| PE 0603888C Ballistic Missile Defense Test and Targets | 619,137 | 919,956 | 966,752 | | | | | | - |
| PE 0603890C Ballistic Missile Defense Enabling Programs | 416,937 | 402,778 | 369,145 | | | | | | - |
| PE 0603891C Special Programs – MDA | 193,157 | 175,712 | 301,566 | | | | | | - |
| PE 0603892C Ballistic Missile Defense Aegis | 1,126,337 | 1,113,655 | 1,690,758 | | | | | | - |
| PE 0603893C Space Tracking & Surveillance System | 226,499 | 208,923 | 180,000 | | | | | | - |
| PE 0603894C Multiple Kill Vehicle | 223,084 | 283,481 | 0 | | | | | | - |
| PE 0603895C BMD System Space Program | 16,237 | 24,686 | 12,549 | | | | | | - |
| PE 0603896C BMD C2BMC | 439,997 | 288,287 | 340,014 | | | | | | - |
| PE 0603897C BMD Hercules | 51,387 | 55,764 | 48,186 | | | | | | - |
| PE 0603898C BMD Joint Warfighter Support | 45,400 | 69,743 | 60,921 | | | | | | - |
| PE 0603904C Missile Defense Integration & Operations Center (MDIOC) | 77,102 | 106,040 | 86,949 | | | | | | - |
| PE 0603906C Regarding Trench | 1,945 | 2,968 | 6,164 | | | | | | - |
| PE 0603907C Sea Based X-Band Radar (SBX) | 155,244 | 146,895 | 174,576 | | | | | | - |
| PE 0603908C BMD Europ Intercep Site | 0 | 362,007 | 0 | | | | | | - |
| PE 0603909C BMD Europ Midcourse Radar | 0 | 76,537 | 0 | | | | | | - |
| PE 0603911C BMD European Capability | 0 | 0 | 50,504 | | | | | | - |
| PE 0603912C BMD European Comm Support | 0 | 27,008 | 0 | | | | | | - |
| PE 0603913C Israeli Cooperative | 0 | 0 | 119,634 | | | | | | - |
| PE 0901585C Pentagon Reservation | 5,971 | 19,667 | 19,709 | | | | | | - |
| PE 0901598C Management Headquarters – MDA | 83,907 | 81,174 | 57,403 | | | | | | - |
| <i>Note: The Ballistic Missile Defense System (BMDS) is an integrated, interoperable, global defense system. The programs which comprise the BMDS are interdependent.</i> | | | | | | | | | |

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