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|--|----------------|------------------|-----------------------|---|------------------------|------------------|------------------|------------------|---------------------|------------------|------------|
| Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force  |                |                  |                       |   |                        |                  |                  |                  | DATE: February 2010 |                  |            |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 5: Development & Demonstration (SDD)  |                |                  |                       | R-1 ITEM NOMENCLATURE<br>PE 0604287F: Physical Security Equipment |                        |                  |                  |                  |                     |                  |            |
| COST (\$ in Millions)  | FY 2009 Actual | FY 2010 Estimate | FY 2011 Base Estimate | FY 2011 OCO Estimate  | FY 2011 Total Estimate | FY 2012 Estimate | FY 2013 Estimate | FY 2014 Estimate | FY 2015 Estimate    | Cost To Complete | Total Cost |
| Total Program Element  | 0.051          | 0.050            | 0.050                 | 0.000   | 0.050                  | 0.051            | 0.051            | 0.050            | 0.050               | Continuing       | Continuing |
| 655120: Physical Security Equipment - SD/ED  | 0.051          | 0.050            | 0.050                 | 0.000   | 0.050                  | 0.051            | 0.051            | 0.050            | 0.050               | Continuing       | Continuing |
| A. Mission Description and Budget Item Justification<br>This program is a budget activity level 5 based on the engineering and manufacturing development activities ongoing within the program. The purpose of this program is to design physical security equipment (PSE) systems for all DoD components, to support its physical security and Force Protection missions. This program supports the protection of tactical, fixed and nuclear weapons systems, DoD personnel and DoD facilities. The funds are used to provide PSE RDT&E for individual Service and Joint PSE requirements. The PSE program is organized so that members of the physical security equipment action group (PSEAG), which consists of the Army, Navy, Air Force, and Defense Threat Reduction Agency (DTRA) representatives monitors, directs and prioritizes potential and existing PSE programs. OSD program oversight, to be established by a Memorandum of Understanding, is to be provided by the Office of the Under Secretary of Defense, Acquisition, Technology and Logistics (AT&L) and the Assistant Secretary of Defense for Networks and Information Integration (NII). With few exceptions, each Service sponsors RDT&E efforts for technologies and programs have multi-service application. This program element supports the Army's advanced engineering development of robotic and detection systems. The program element also supports all four Services' identification and redesign of developmental, non-developmental, and commercial-off-the-shelf equipment to meet physical security requirements. Activities within this program will seek to reduce risk associated with integrating, fielding, and supporting the equipment once it becomes a part of the overall security system. |                |                  |                       |   |                        |                  |                  |                  |                     |                  |            |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Air Force  |         |  |              | DATE: February 2010 |               |
| APPROPRIATION/BUDGET ACTIVITY  |         | R-1 ITEM NOMENCLATURE                    |              |                     |               |
| 3600: Research, Development, Test & Evaluation, Air Force  |         | PE 0604287F: Physical Security Equipment |              |                     |               |
| BA 5: Development & Demonstration (SDD)  |         |  |              |                     |               |
| B. Program Change Summary (\$ in Millions)   |         |  |              |                     |               |
|  | FY 2009 | FY 2010                                  | FY 2011 Base | FY 2011 OCO         | FY 2011 Total |
| Previous President's Budget  | 0.052   | 0.051                                    | 0.000        | 0.000               | 0.000         |
| Current President's Budget   | 0.051   | 0.050                                    | 0.050        | 0.000               | 0.050         |
| Total Adjustments  | -0.001  | -0.001                                   | 0.050        | 0.000               | 0.050         |
| • Congressional General Reductions   |         | 0.000                                    |              |                     |               |
| • Congressional Directed Reductions  |         | 0.000                                    |              |                     |               |
| • Congressional Rescissions  | 0.000   | 0.000                                    |              |                     |               |
| • Congressional Adds   |         | 0.000                                    |              |                     |               |
| • Congressional Directed Transfers   |         | 0.000                                    |              |                     |               |
| • Reprogrammings   | 0.000   | 0.000                                    |              |                     |               |
| • SBIR/STTR Transfer   | -0.001  | 0.000                                    |              |                     |               |
| • Other Adjustments  | 0.000   | -0.001                                   | 0.050        | 0.000               | 0.050         |
| Change Summary Explanation   |         |  |              |                     |               |
| FY11: The FY 2010 President's Budget submitted did no reflect FY 2011 through FY 2015 funding. Therefore, explanation of changes between the two budget positions cannot be made in a relevant manner. |         |  |              |                     |               |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force  |                           |                             |                                      |   |                                       |                             |                             | <b>DATE:</b> February 2010   |                             |                             |                       |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 5: <i>Development &amp; Demonstration (SDD)</i> |                           |                             |                                      | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604287F: <i>Physical Security Equipment</i> |                                       |                             |                             | <b>PROJECT</b><br>655120: <i>Physical Security Equipment - SD/ED</i> |                             |                             |                       |
| <b>COST (\$ in Millions)</b>   | <b>FY 2009<br/>Actual</b> | <b>FY 2010<br/>Estimate</b> | <b>FY 2011<br/>Base<br/>Estimate</b> | <b>FY 2011<br/>OCO<br/>Estimate</b>   | <b>FY 2011<br/>Total<br/>Estimate</b> | <b>FY 2012<br/>Estimate</b> | <b>FY 2013<br/>Estimate</b> | <b>FY 2014<br/>Estimate</b>  | <b>FY 2015<br/>Estimate</b> | <b>Cost To<br/>Complete</b> | <b>Total<br/>Cost</b> |
| 655120: <i>Physical Security Equipment - SD/ED</i>   | 0.051                     | 0.050                       | 0.050                                | 0.000   | 0.050                                 | 0.051                       | 0.051                       | 0.050  | 0.050                       | Continuing                  | Continuing            |
| Quantity of RDT&E Articles   | 0                         | 0                           | 0                                    | 0   | 0                                     | 0                           | 0                           | 0  | 0                           |                             |                       |

**A. Mission Description and Budget Item Justification**

This program is a budget activity level 5 based on the engineering and manufacturing development activities ongoing within the program. The purpose of this program is to design physical security equipment (PSE) systems for all DoD components, to support its physical security and Force Protection missions. This program supports the protection of tactical, fixed and nuclear weapons systems, DoD personnel and DoD facilities. The funds are used to provide PSE RDT&E for individual Service and Joint PSE requirements. The PSE program is organized so that members of the physical security equipment action group (PSEAG), which consists of the Army, Navy, Air Force, and Defense Threat Reduction Agency (DTRA) representatives monitors, directs and prioritizes potential and existing PSE programs. OSD program oversight, to be established by a Memorandum of Understanding, is to be provided by the Office of the Under Secretary of Defense, Acquisition, Technology and Logistics (AT&L) and the Assistant Secretary of Defense for Networks and Information Integration (NII). With few exceptions, each Service sponsors RDT&E efforts for technologies and programs have multi-service application. This program element supports the Army's advanced engineering development of robotic and detection systems. The program element also supports all four Services' identification and redesign of developmental, non-developmental, and commercial-off-the-shelf equipment to meet physical security requirements. Activities within this program will seek to reduce risk associated with integrating, fielding, and supporting the equipment once it becomes a part of the overall security system.

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

|   | <b>FY 2009</b> | <b>FY 2010</b> | <b>FY 2011<br/>Base</b> | <b>FY 2011<br/>OCO</b> | <b>FY 2011<br/>Total</b> |
|---|----------------|----------------|-------------------------|------------------------|--------------------------|
| MAJOR THRUST: ROBOTIC SECURITY SYSTEMS INTEGRATION  | 0.051          | 0.050          | 0.050                   | 0.000                  | 0.050                    |
| <i>FY 2009 Accomplishments:</i><br>In FY09: Continue Robotic Security Systems Integration |                |                |                         |                        |                          |
| <i>FY 2010 Plans:</i><br>In FY10: Continue Robotic Security Systems Integration           |                |                |                         |                        |                          |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2011 Air Force   |                |                |                         |   |                          |                | <b>DATE:</b> February 2010   |                |                         |                             |                          |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 5: <i>Development &amp; Demonstration (SDD)</i>  |                |                |                         | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604287F: <i>Physical Security Equipment</i> |                          |                | <b>PROJECT</b><br>655120: <i>Physical Security Equipment - SD/ED</i> |                |                         |                             |                          |
| <b>B. Accomplishments/Planned Program (\$ in Millions)</b>  |                |                |                         |   |                          |                |  |                |                         |                             |                          |
|   |                |                |                         |   |                          |                | <b>FY 2009</b>   | <b>FY 2010</b> | <b>FY 2011<br/>Base</b> | <b>FY 2011<br/>OCO</b>      | <b>FY 2011<br/>Total</b> |
| <i>FY 2011 Base Plans:</i><br>In FY11: Continue Robotic Security Systems Integration<br><br><i>FY 2011 OCO Plans:</i><br>In FY11 OCO: N/A   |                |                |                         |   |                          |                |  |                |                         |                             |                          |
| Accomplishments/Planned Programs Subtotals  |                |                |                         |   |                          |                | 0.051  | 0.050          | 0.050                   | 0.000                       | 0.050                    |
| <b>C. Other Program Funding Summary (\$ in Millions)</b>  |                |                |                         |   |                          |                |  |                |                         |                             |                          |
| <b>Line Item</b>  | <b>FY 2009</b> | <b>FY 2010</b> | <b>FY 2011<br/>Base</b> | <b>FY 2011<br/>OCO</b>  | <b>FY 2011<br/>Total</b> | <b>FY 2012</b> | <b>FY 2013</b>   | <b>FY 2014</b> | <b>FY 2015</b>          | <b>Cost To<br/>Complete</b> | <b>Total Cost</b>        |
| • PE Not Provided (10890):<br><i>Activity Not Provided</i>  | 0.000          | 0.000          | 0.000                   | 0.000   | 0.000                    | 0.000          | 0.000  | 0.000          | 0.000                   | 0.000                       | 0.000                    |
| <b>D. Acquisition Strategy</b><br>Not Applicable  |                |                |                         |   |                          |                |  |                |                         |                             |                          |
| <b>E. Performance Metrics</b><br>Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission. |                |                |                         |   |                          |                |  |                |                         |                             |                          |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2011 Air Force  |                        |                                |                        |  |            |              |            |   |            |               | DATE: February 2010 |            |                          |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 5: Development & Demonstration (SDD) |                        |                                |                        | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604287F: Physical Security Equipment |            |              |            | <b>PROJECT</b><br>655120: Physical Security Equipment - SD/ED |            |               |                     |            |                          |
| <b>Product Development (\$ in Millions)</b>  |                        |                                |                        |  |            |              |            |   |            |               |                     |            |                          |
|  |                        |                                |                        | FY 2010  |            | FY 2011 Base |            | FY 2011 OCO   |            | FY 2011 Total |                     |            |                          |
| Cost Category Item   | Contract Method & Type | Performing Activity & Location | Total Prior Years Cost | Cost   | Award Date | Cost         | Award Date | Cost  | Award Date | Cost          | Cost To Complete    | Total Cost | Target Value of Contract |
| PM-FPS (US Army)   | MIPR                   | TBD<br>TBD                     | 0.051                  | 0.050  |            | 0.050        |            | 0.000   |            | 0.050         | 0.000               | 0.151      | 0.000                    |
| <b>Subtotal</b>  |                        |                                | 0.051                  | 0.050  |            | 0.050        |            | 0.000   |            | 0.050         | 0.000               | 0.151      | 0.000                    |
| <b>Remarks</b>   |                        |                                |                        |  |            |              |            |   |            |               |                     |            |                          |
|  |                        |                                |                        |  |            |              |            |   |            |               |                     |            |                          |
|  |                        |                                | Total Prior Years Cost | FY 2010  |            | FY 2011 Base |            | FY 2011 OCO   |            | FY 2011 Total | Cost To Complete    | Total Cost | Target Value of Contract |
| <b>Project Cost Totals</b>   |                        |                                | 0.051                  | 0.050  |            | 0.050        |            | 0.000   |            | 0.050         | 0.000               | 0.151      | 0.000                    |
| <b>Remarks</b>   |                        |                                |                        |  |            |              |            |   |            |               |                     |            |                          |
| Total Prior Years Cost may include only FY 2009 data.  |                        |                                |                        |  |            |              |            |   |            |               |                     |            |                          |

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Exhibit R-4, RDT&amp;E Schedule Profile: PB 2011 Air Force

DATE: February 2010

**APPROPRIATION/BUDGET ACTIVITY**

3600: Research, Development, Test & Evaluation, Air Force  
BA 5: Development & Demonstration (SDD)

### R-1 ITEM NOMENCLATURE

PE 0604287F: *Physical Security Equipment*

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| PROJECT |  |
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655120: *Physical Security Equipment - SD/ED*[illegible]

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2011 Air Force   |   |  | <b>DATE:</b> February 2010 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 5: <i>Development &amp; Demonstration (SDD)</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604287F: <i>Physical Security Equipment</i> | <b>PROJECT</b><br>655120: <i>Physical Security Equipment - SD/ED</i> |                            |

Schedule Details

| Event  | Start   |      | End     |      |
|--|---------|------|---------|------|
|  | Quarter | Year | Quarter | Year |
| Provide engineering support for fielding the MDARS-E | 1       | 2009 | 4       | 2011 |
| Robotic Security Systems Integration                 | 1       | 2009 | 4       | 2011 |

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