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| Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Air Force                                                                             |             |         |         |              |                                                                         |               |         |         |         | Date: February 2015 |                  |            |
| Appropriation/Budget Activity<br>3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD) |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0604706F I Life Support Systems |               |         |         |         |                     |                  |            |
| COST (\$ in Millions)                                                                                                                       | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO                                                             | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020             | Cost To Complete | Total Cost |
| Total Program Element                                                                                                                       | -           | 7.069   | 14.854  | 8.187        | -                                                                       | 8.187         | 8.747   | 8.430   | 8.608   | 8.763               | Continuing       | Continuing |
| 65412A: Life Support Systems                                                                                                                | -           | 7.069   | 14.854  | 8.187        | -                                                                       | 8.187         | 8.747   | 8.430   | 8.608   | 8.763               | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                  | -           | -       | -       | -            | -                                                                       | -             | -       | -       | -       | -                   |                  |            |

**Note**

In FY16 project 65412A Life Support Systems New Start projects for Personal Radio Communications (PRC) and Aircrew Safety Improvements.

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

This program is a human-centered program providing RDT&E recapitalization of aircrew flight equipment and airman combat systems. Air Force acquisition teams lead the upgrade and fielding of new equipment/systems by assessing deficiencies in existing equipment, conducting business case analyses, evaluating existing technologies or developing new technologies, assessing commercially available products for combat use, and conducting required Safe-to-Fly (STF) tests and certifications. Program efforts include, but are not limited to, the following projects: directed energy protective equipment; flight helmets and visors; oxygen breathing systems for aircrew; radios and locator beacons; support equipment; nuclear flash blindness protection; night vision devices; noise reduction devices; anti-gravity (anti-G) suits; flame resistant, retardant and blast protective gear; aircraft seating; impact protection equipment; flotation devices; parachutes; ejection seats; and other life support systems required by the warfighter.

BA 5 - This program is in Budget Activity 5, System Development and Demonstration (SDD), because it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production.

|                                                   |                |                |                     |                    |                      |
|---------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| <b>B. Program Change Summary (\$ in Millions)</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b> | <b>FY 2016 Total</b> |
| Previous President's Budget                       | 7.273          | 8.854          | 8.242               | -                  | 8.242                |
| Current President's Budget                        | 7.069          | 14.854         | 8.187               | -                  | 8.187                |
| Total Adjustments                                 | -0.204         | 6.000          | -0.055              | -                  | -0.055               |
| • Congressional General Reductions                | -              | -              |                     |                    |                      |
| • Congressional Directed Reductions               | -              | -              |                     |                    |                      |
| • Congressional Rescissions                       | -              | -              |                     |                    |                      |
| • Congressional Adds                              | -              | 6.000          |                     |                    |                      |
| • Congressional Directed Transfers                | -              | -              |                     |                    |                      |
| • Reprogrammings                                  | -              | -              |                     |                    |                      |
| • SBIR/STTR Transfer                              | -0.204         | -              |                     |                    |                      |
| • Other Adjustments                               | -              | -              | -0.055              | -                  | -0.055               |

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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2016 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | <b>Date:</b> February 2015                                                            |                                               |
| <b>Appropriation/Budget Activity</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 5: System Development &amp; Demonstration (SDD)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0604706F / <i>Life Support Systems</i> |                                               |
| <b>Congressional Add Details (\$ in Millions, and Includes General Reductions)</b><br><b>Project:</b> 65412A: <i>Life Support Systems</i><br>Congressional Add: <i>Ejection Seat Safety/Sustainability Improvement Program for Qualification of B-2 Seat Mod</i><br>Congressional Add Subtotals for Project: 65412A<br>Congressional Add Totals for all Projects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | <b>FY 2014</b><br><br>-<br>-<br>-                                                     | <b>FY 2015</b><br><br>6.000<br>6.000<br>6.000 |
| <b>Change Summary Explanation</b><br>FY15 includes a \$6M Congressional add for Ejection Seat Safety/Sustainability Improvement Program for Qualification of the B-2 Seat Mod.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                       |                                               |
| <b>C. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <b>FY 2014</b>                                                                        | <b>FY 2015</b>                                |
| <b>Title:</b> Aircrew Flight Equipment (AFE)<br><b>Description:</b> Air Force Life Cycle Management Center's Aircrew Performance Branch is the single USAF focal point for Aircrew Flight Equipment (AFE) studies, analysis, and Safe-to-Fly (STF) testing and certification. In general, unplanned STF projects are an urgent response to real-time capability gaps identified by the warfighter which may be satisfied quickly by purchasing and qualifying commercial-off-the-shelf (COTS) products and/or performing minor development efforts. The Cold Weather Aviation System (CWAS) and Aircrew Body Armor (ABA) are currently the active STF programs within Life Support Systems (LSS). Both of these efforts were originally planned as development efforts, but identification of COTS solutions allowed them to become STF efforts.<br><br>Cold Weather Aviation System (CWAS) is an Arctic weather aircrew ensemble program that includes garments, boots, and gloves. The ensemble employs a multi-layer approach protecting aircrews to -49 degrees Fahrenheit.<br><br>The Air Force has no approved aircrew body armor. The Integrated Aircrew Body Armor (IABA) project plans to purchase existing government or commercial body armor and integrate with aircrew survival gear, restraint & recovery harness, and a life preserver unit. The selected body armor must meet Director of Operational Test and Evaluation (DOT&E) live fire requirements, provide adequate soft/hard body armor coverage to the torso, demonstrate good overall use and maneuverability, and pass appropriate STF tests.<br><br><b>FY 2014 Accomplishments:</b><br>Drafted CWAS program strategy and test plan. Purchased CWAS test articles to include golves and ensembles.<br><br>Continued ABA STF testing at various locations.<br><b>FY 2015 Plans:</b> |  | 0.997                                                                                 | 1.650                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                       | 1.025                                         |

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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2016 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | <b>Date:</b> February 2015                                                            |                |                |
| <b>Appropriation/Budget Activity</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 5: System Development &amp; Demonstration (SDD)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0604706F / <i>Life Support Systems</i> |                |                |
| <b>C. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>FY 2014</b>                                                                        | <b>FY 2015</b> | <b>FY 2016</b> |
| Complete purchase of all test assets and begin integration testing of the CWAS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                       |                |                |
| Finalize STF testing of ABA and deliver the signed STF recommendation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                       |                |                |
| <b>FY 2016 Plans:</b><br>Perform STF testing and certification of COTS and / or minor developmental products.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                       |                |                |
| <b>Title:</b> Integrated Aircrew Ensemble (IAE)<br><br><b>Description:</b> The Integrated Aircrew Ensemble (IAE) is a multi-layer battle ready system of protective clothing, survival equipment, and anti-G protection equipment worn by aircrew members. The ensemble can layer up to seven (7) components allowing for flexible combinations depending on aircraft type, mission, and threat. Each component design is unique but engineered as a single integrated ensemble to improve mobility by reducing bulk, reducing aircrew fatigue from thermal stress using new breathable materials, and increasing overall system performance. The ensemble components are: 1) outer flight layer, 2) Environmental Protection Layer (EPL) with gloves, 3) Chemical Biological Radiological Layer (CBRL) with glove inserts, 4) Life Preserver Unit (LPU), 5) Counter Chest Pressure Bladder (CCPB), 6) survival vest, and 7) G-suit. |  | 6.072                                                                                 | 6.884          | 3.447          |
| <b>FY 2014 Accomplishments:</b><br>Continued Development Verification Testing (DVT) of the IAE system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                       |                |                |
| <b>FY 2015 Plans:</b><br>Begin operational testing of the IAE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                       |                |                |
| <b>FY 2016 Plans:</b><br>Finalize operational testing of the IAE and begin Low Rate Initial Production (LRIP).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                       |                |                |
| <b>Title:</b> Aircrew Safety Improvements & Analysis<br><br><b>Description:</b> Investigate and implement techniques, tactics, procedures and improvements for aircrew safety.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | -                                                                                     | -              | 0.945          |
| <b>FY 2016 Plans:</b><br>Investigate aircrew safety issues, provide recommendations / analysis and implement improvements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                       |                |                |
| <b>Title:</b> Personal Radio Communications<br><br><b>Description:</b> The Personal Radio Communications (PRC) system is a handheld survival radio for aircrew members. Currently, USAF aircrew use the PRC-90 survival radio, which was derived from the Vietnam War era. The current device is bulky and not conducive to today's wartime environment due to obsolescence and the frequency no longer being monitored. Newer, more advanced technology is needed to improve aircrew survivability and communications.                                                                                                                                                                                                                                                                                                                                                                                                              |  | -                                                                                     | -              | 1.750          |

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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2016 Air Force                                                                                               |  |  |  |  |  |                                                                                       |  | <b>Date:</b> February 2015 |  |  |  |
| <b>Appropriation/Budget Activity</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force I</i> BA 5: <i>System Development &amp; Demonstration (SDD)</i> |  |  |  |  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0604706F / <i>Life Support Systems</i> |  |                            |  |  |  |

  

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| <b>C. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                     | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016</b> |
| <b>FY 2016 Plans:</b><br>Award developmental contract to begin non-recurring engineering and preliminary testing of current technologies.                                                                                                                                                                                                                                                                                                       |                |                |                |
| <b>Title:</b> Aircrew Laser Eye Protection (ALEP) Block III<br><br><b>Description:</b> Aircrew Laser Eye Protection Block (ALEP) III is an upgrade to day-variant helmet visors to protect aircrews from laser threats. Laser shielding technology was recently developed and fielded as spectacles in ALEP Block II. Application of the laser shielding technology is viable for day-use whereas a night variant requires further development. | -              | 0.320          | 1.020          |
| <b>FY 2015 Plans:</b><br>Prepare a Business Case Analysis (BCA) and an Analysis of Alternatives (AoA). Establish cost, schedule, and performance scope of project.                                                                                                                                                                                                                                                                              |                |                |                |
| <b>FY 2016 Plans:</b><br>Award development contract and begin Engineering Manufacturing & Development phase.                                                                                                                                                                                                                                                                                                                                    |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                                               | 7.069          | 8.854          | 8.187          |

  

|                                                                                                                                                                                                                                                                                                                                                                                 |                |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|
|                                                                                                                                                                                                                                                                                                                                                                                 | <b>FY 2014</b> | <b>FY 2015</b> |
| <b>Congressional Add:</b> Ejection Seat Safety/Sustainability Improvement Program for Qualification of B-2 Seat Mod<br><br><b>FY 2015 Plans:</b> One of the FY 2014 congressional reports specifically provided funds for "Ejection seat safety/sustainability B-2 seat mod" using the phrases "only for" or "only to", or the item appears in one of the project level tables. | -              | 6.000          |
| <b>Congressional Adds Subtotals</b>                                                                                                                                                                                                                                                                                                                                             | -              | 6.000          |

  

|                                                                        |                |                |                         |                        |                          |                |                |                |                |                             |                   |
|------------------------------------------------------------------------|----------------|----------------|-------------------------|------------------------|--------------------------|----------------|----------------|----------------|----------------|-----------------------------|-------------------|
| <b>D. Other Program Funding Summary (\$ in Millions)</b>               |                |                |                         |                        |                          |                |                |                |                |                             |                   |
| <b>Line Item</b>                                                       | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016<br/>Base</b> | <b>FY 2016<br/>OCO</b> | <b>FY 2016<br/>Total</b> | <b>FY 2017</b> | <b>FY 2018</b> | <b>FY 2019</b> | <b>FY 2020</b> | <b>Cost To<br/>Complete</b> | <b>Total Cost</b> |
| • OPAF:BA04: Line Item # 842990:<br><i>Items Less Than \$5 Million</i> | 4.973          | 7.035          | 7.121                   | -                      | 7.121                    | 7.234          | 7.380          | 7.529          | -              | Continuing                  | Continuing        |
| <b>Remarks</b>                                                         |                |                |                         |                        |                          |                |                |                |                |                             |                   |
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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2016 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                       | <b>Date:</b> February 2015 |
| <b>Appropriation/Budget Activity</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 5: System Development &amp; Demonstration (SDD)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>R-1 Program Element (Number/Name)</b><br>PE 0604706F / <i>Life Support Systems</i> |                            |
| <b>E. Acquisition Strategy</b><br>The majority of efforts funded in this project employ a streamlined acquisition approach. Whenever practical, Government-Off-The-Shelf/Commercial-Off-The-Shelf (GOTS/COTS) items are tested and evaluated as candidates for solutions to user needs. This normally involves characterization, verification, and qualification testing to ensure GOTS/COTS equipment is properly certified and adapted for military purposes. However, acquisition strategies may be carried out at the project level for traditional Engineering, Manufacturing and Development (EMD), e.g., Integrated Aircrew Ensemble (IAE) and Aircrew Laser Eye Protection (ALEP) Block III. |                                                                                       |                            |
| <b>F. 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 2016 Air Force |                        |                                |             |         |            |                                                                         |            |                 |            |                                                        |            | Date: February 2015 |                  |            |                          |
|-------------------------------------------------------------|------------------------|--------------------------------|-------------|---------|------------|-------------------------------------------------------------------------|------------|-----------------|------------|--------------------------------------------------------|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity<br>3600 / 5                   |                        |                                |             |         |            | R-1 Program Element (Number/Name)<br>PE 0604706F / Life Support Systems |            |                 |            | Project (Number/Name)<br>65412A / Life Support Systems |            |                     |                  |            |                          |
| Product Development (\$ in Millions)                        |                        |                                |             | FY 2014 |            | FY 2015                                                                 |            | FY 2016<br>Base |            | FY 2016<br>OCO                                         |            | FY 2016<br>Total    |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                    | Award Date | Cost            | Award Date | Cost                                                   | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Aircrew Flight Equipment (AFE)                              | Various                | Multiple Contractors : ,       | -           | 0.997   |            | 0.825                                                                   |            | 0.975           |            | -                                                      |            | 0.975               | Continuing       | Continuing | TBD                      |
| Aircrew Safety Improvements & Analysis                      | Various                | Multiple : TBD,                | -           | -       |            | -                                                                       |            | 0.945           | Mar 2016   | -                                                      |            | 0.945               | Continuing       | Continuing | -                        |
| Integrated Aircrew Ensemble (IAE)                           | C/FPIF                 | Tiax : Lexington, MA           | -           | 4.042   | Apr 2014   | 5.664                                                                   | Apr 2015   | 1.334           | Apr 2016   | -                                                      |            | 1.334               | Continuing       | Continuing | TBD                      |
| Aircrew Laser Eye Protection (ALEP) Block III               | C/FPIF                 | TBD : TBD,                     | -           | -       |            | 0.120                                                                   | Jul 2015   | 1.020           | Jul 2016   | -                                                      |            | 1.020               | Continuing       | Continuing | -                        |
| Personal Radio Communications (PRC)                         | C/FPIF                 | TBD : TBD,                     | -           | -       |            | -                                                                       |            | 1.000           | Jun 2016   | -                                                      |            | 1.000               | Continuing       | Continuing | -                        |
| Advanced Concept Ejection Seat (ACES)                       | SS/FPIF                | TBD : ,                        | -           | -       |            | 5.000                                                                   | Nov 2015   | -               |            | -                                                      |            | -                   | Continuing       | Continuing | -                        |
| Subtotal                                                    |                        |                                | -           | 5.039   |            | 11.609                                                                  |            | 5.274           |            | -                                                      |            | 5.274               | -                | -          | -                        |
| Support (\$ in Millions)                                    |                        |                                |             | FY 2014 |            | FY 2015                                                                 |            | FY 2016<br>Base |            | FY 2016<br>OCO                                         |            | FY 2016<br>Total    |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                    | Award Date | Cost            | Award Date | Cost                                                   | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Subtotal                                                    |                        |                                | -           | -       |            | -                                                                       |            | -               |            | -                                                      |            | -                   | -                | -          | -                        |
| Test and Evaluation (\$ in Millions)                        |                        |                                |             | FY 2014 |            | FY 2015                                                                 |            | FY 2016<br>Base |            | FY 2016<br>OCO                                         |            | FY 2016<br>Total    |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                    | Award Date | Cost            | Award Date | Cost                                                   | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Program Tests (IAE, ACES, CWAS, ABA, etc.)                  | Various                | Various : Various,             | -           | 0.950   | Jul 2014   | 1.500                                                                   | Jul 2015   | 1.045           | Jul 2016   | -                                                      |            | 1.045               | Continuing       | Continuing | -                        |
| Subtotal                                                    |                        |                                | -           | 0.950   |            | 1.500                                                                   |            | 1.045           |            | -                                                      |            | 1.045               | -                | -          | -                        |
|                                                             |                        |                                |             |         |            |                                                                         |            |                 |            |                                                        |            |                     |                  |            |                          |

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| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2016 Air Force |                                           |                                               |                        |                |                       |                                                                                       |                       |                         |                       |                                                                      |                       | <b>Date:</b> February 2015 |                             |                       |                                         |
| <b>Appropriation/Budget Activity</b><br>3600 / 5                       |                                           |                                               |                        |                |                       | <b>R-1 Program Element (Number/Name)</b><br>PE 0604706F / <i>Life Support Systems</i> |                       |                         |                       | <b>Project (Number/Name)</b><br>65412A / <i>Life Support Systems</i> |                       |                            |                             |                       |                                         |
| <b>Management Services (\$ in Millions)</b>                            |                                           |                                               |                        | <b>FY 2014</b> |                       | <b>FY 2015</b>                                                                        |                       | <b>FY 2016<br/>Base</b> |                       | <b>FY 2016<br/>OCO</b>                                               |                       | <b>FY 2016<br/>Total</b>   |                             |                       |                                         |
| <b>Cost Category Item</b>                                              | <b>Contract<br/>Method<br/>&amp; Type</b> | <b>Performing<br/>Activity &amp; Location</b> | <b>Prior<br/>Years</b> | <b>Cost</b>    | <b>Award<br/>Date</b> | <b>Cost</b>                                                                           | <b>Award<br/>Date</b> | <b>Cost</b>             | <b>Award<br/>Date</b> | <b>Cost</b>                                                          | <b>Award<br/>Date</b> | <b>Cost</b>                | <b>Cost To<br/>Complete</b> | <b>Total<br/>Cost</b> | <b>Target<br/>Value of<br/>Contract</b> |
| Program Management Support                                             | TBD                                       | AFLCMC : Wright-Patterson AFB, OH             | -                      | 0.845          |                       | 1.500                                                                                 |                       | 1.613                   |                       | -                                                                    |                       | 1.613                      | Continuing                  | Continuing            | -                                       |
| Travel                                                                 | Various                                   | Various : Various,                            | -                      | 0.235          |                       | 0.245                                                                                 |                       | 0.255                   |                       | -                                                                    |                       | 0.255                      | Continuing                  | Continuing            | -                                       |
| <b>Subtotal</b>                                                        |                                           |                                               | -                      | 1.080          |                       | 1.745                                                                                 |                       | 1.868                   |                       | -                                                                    |                       | 1.868                      | -                           | -                     | -                                       |
|                                                                        |                                           |                                               | <b>Prior<br/>Years</b> | <b>FY 2014</b> |                       | <b>FY 2015</b>                                                                        |                       | <b>FY 2016<br/>Base</b> |                       | <b>FY 2016<br/>OCO</b>                                               |                       | <b>FY 2016<br/>Total</b>   | <b>Cost To<br/>Complete</b> | <b>Total<br/>Cost</b> | <b>Target<br/>Value of<br/>Contract</b> |
| <b>Project Cost Totals</b>                                             |                                           |                                               | -                      | 7.069          |                       | 14.854                                                                                |                       | 8.187                   |                       | -                                                                    |                       | 8.187                      | -                           | -                     | -                                       |
| <b>Remarks</b>                                                         |                                           |                                               |                        |                |                       |                                                                                       |                       |                         |                       |                                                                      |                       |                            |                             |                       |                                         |

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Exhibit R-4, RDT&amp;E Schedule Profile: PB 2016 Air Force

Date: February 2015

## Appropriation/Budget Activity

3600 / 5

## R-1 Program Element (Number/Name)

PE 0604706F / Life Support Systems

## Project (Number/Name)

65412A / Life Support Systems

|                                                                                                     | FY 2014 |   |   |   | FY 2015 |   |   |   | FY 2016 |   |   |   | FY 2017 |   |   |   | FY 2018 |   |   |   | FY 2019 |   |   |   | FY 2020 |   |   |   |
|-----------------------------------------------------------------------------------------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|                                                                                                     | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |
| Aircrew Laser Eye Protection (ALEP) Block III [Business Case Analysis and Analysis of Alternatives] |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ALEP Block III [Engineering Manufacturing and Development]                                          |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Integrated Aircrew Ensemble (IAE) [Engineering and Manufacturing Development]                       |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| IAE [Developmental Test & Evaluation]                                                               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| IAE [Milestone C]                                                                                   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| IAE [Low Rate Initial Production]                                                                   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| IAE [Initial Operational Test & Evaluation]                                                         |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| IAE [Full Rate Production]                                                                          |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Personal Radio Communication (PRC) Engineering and Manufacturing Development                        |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| PRC Milestone C                                                                                     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Advanced Concept Ejection Seat (ACES) Qualification Testing                                         |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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|                                                         |                                                                         |                                                        |                     |
|---------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------|---------------------|
| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Air Force |                                                                         |                                                        | Date: February 2015 |
| Appropriation/Budget Activity<br>3600 / 5               | R-1 Program Element (Number/Name)<br>PE 0604706F / Life Support Systems | Project (Number/Name)<br>65412A / Life Support Systems |                     |

## Schedule Details

| Events                                                                                              | Start   |      | End     |      |
|-----------------------------------------------------------------------------------------------------|---------|------|---------|------|
|                                                                                                     | Quarter | Year | Quarter | Year |
| Aircrew Laser Eye Protection (ALEP) Block III [Business Case Analysis and Analysis of Alternatives] | 4       | 2015 | 1       | 2016 |
| ALEP Block III [Engineering Manufacturing and Development]                                          | 2       | 2016 | 1       | 2019 |
| Integrated Aircrew Ensemble (IAE) [Engineering and Manufacturing Development]                       | 1       | 2014 | 2       | 2015 |
| IAE [Developmental Test & Evaluation]                                                               | 3       | 2014 | 3       | 2015 |
| IAE [Milestone C]                                                                                   | 3       | 2015 | 3       | 2015 |
| IAE [Low Rate Initial Production]                                                                   | 3       | 2015 | 2       | 2016 |
| IAE [Initial Operational Test & Evaluation]                                                         | 3       | 2015 | 4       | 2015 |
| IAE [Full Rate Production]                                                                          | 3       | 2016 | 4       | 2018 |
| Personal Radio Communication (PRC) Engineering and Manufacturing Development                        | 3       | 2016 | 1       | 2019 |
| PRC Milestone C                                                                                     | 1       | 2019 | 1       | 2019 |
| Advanced Concept Ejection Seat (ACES) Qualification Testing                                         | 1       | 2016 | 3       | 2017 |