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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2014 Air Force | <b>DATE:</b> April 2013 |
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| APPROPRIATION/BUDGET ACTIVITY                                                                                                                    |                 |         |                      |              | R-1 ITEM NOMENCLATURE                       |               |         |         |         |         |                  |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|----------------------|--------------|---------------------------------------------|---------------|---------|---------|---------|---------|------------------|------------|
| 3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i> |                 |         |                      |              | PE 0604858F: <i>Tech Transition Program</i> |               |         |         |         |         |                  |            |
| COST (\$ in Millions)                                                                                                                            | All Prior Years | FY 2012 | FY 2013 <sup>#</sup> | FY 2014 Base | FY 2014 OCO <sup>##</sup>                   | FY 2014 Total | FY 2015 | FY 2016 | FY 2017 | FY 2018 | Cost To Complete | Total Cost |
| Total Program Element                                                                                                                            | -               | 2.683   | 37.558               | 13.636       | -                                           | 13.636        | 59.741  | 28.479  | 3.000   | 3.054   | Continuing       | Continuing |
| 645350: <i>Transition Prioritization</i>                                                                                                         | -               | 2.683   | 37.558               | 13.636       | -                                           | 13.636        | 59.741  | 28.479  | 3.000   | 3.054   | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                       |                 | 0       | 0                    | 0            |                                             | 0             | 0       | 0       | 0       | 0       |                  |            |

<sup>#</sup> FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

<sup>##</sup> The FY 2014 OCO Request will be submitted at a later date

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

The Technology Transition Program (TTP) provides funding to mature and demonstrate technologies to enable or accelerate their transition to legacy or acquisition programs of record. It addresses the gap that exists between when a technology is first demonstrated and when it can be successfully acquired as an operational capability. TTP bridges that gap by funding promising system and subsystem concepts for technology integration and demonstration to continue beyond the laboratory. It allows acquisition program managers (the developers and providers) and warfighters (the end users) to integrate, prototype, and demonstrate candidate technologies and assess them in an operational environment. As a result, the warfighters can assess the capability first-hand and accurately fund the follow-on acquisition program during the next budgeting cycle. TTP includes research and development funds for the following transition activities: prototyping of promising, high-priority concepts and technologies in an operational environment to lower acquisition risk by raising the technology readiness level; performing pre-acquisition systems engineering to facilitate transition from a demonstration program into acquisition programs of record; assessing interface requirements of candidate concepts, technologies, and demonstration projects to better understand true engineering costs resulting from insertion of new technologies into the Air Force architecture; and capturing data through information technology tools and databases to help formulate strategies and gather proposals for development that have the potential to perform Department of Defense (DoD) missions. The program provides funding to mature adaptive turbine engine technologies for next generation propulsion systems. The program will leverage adaptive turbine engine science and technology demonstrations to develop a multi-platform common adaptive engine built around a commercially derived core. It will enable multiple high confidence engine acquisition programs through the common engine architecture, and accomplishment of early risk reduction and early competition prior to an acquisition program. TTP funding will also provide for the demonstration of systems and technology to enable increasingly responsive, resilient, and affordable architectures via development of hostable payloads, small satellites, interface standards, and government/commercial hosting opportunities. These efforts are in Budget Activity 4, Advanced Component Development and Prototypes, since they involve system specific efforts that help expedite technology transition from the laboratory to operational use.

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2014 Air Force                                                                                                                                                      |  |                                      |         | DATE: April 2013 |             |               |
| APPROPRIATION/BUDGET ACTIVITY                                                                                                                                                                                        |  | R-1 ITEM NOMENCLATURE                |         |                  |             |               |
| 3600: Research, Development, Test & Evaluation, Air Force                                                                                                                                                            |  | PE 0604858F: Tech Transition Program |         |                  |             |               |
| BA 4: Advanced Component Development & Prototypes (ACD&P)                                                                                                                                                            |  |                                      |         |                  |             |               |
| B. Program Change Summary (\$ in Millions)                                                                                                                                                                           |  | FY 2012                              | FY 2013 | FY 2014 Base     | FY 2014 OCO | FY 2014 Total |
| Previous President's Budget                                                                                                                                                                                          |  | 2.766                                | 37.558  | 16.833           | -           | 16.833        |
| Current President's Budget                                                                                                                                                                                           |  | 2.683                                | 37.558  | 13.636           | -           | 13.636        |
| Total Adjustments                                                                                                                                                                                                    |  | -0.083                               | 0.000   | -3.197           | -           | -3.197        |
| • 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                                                                                                                                                                                                 |  | -0.083                               | 0.000   |                  |             |               |
| • Other Adjustments                                                                                                                                                                                                  |  | 0.000                                | 0.000   | -3.197           | -           | -3.197        |
| Change Summary Explanation                                                                                                                                                                                           |  |                                      |         |                  |             |               |
| FY14 decrease due to higher DoD priorities.                                                                                                                                                                          |  |                                      |         |                  |             |               |
| C. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                 |  |                                      |         | FY 2012          | FY 2013     | FY 2014       |
| Title: Technology Transition                                                                                                                                                                                         |  |                                      |         | 2.683            | 0.000       | 0.000         |
| Description: Technology transition project execution to facilitate long-term acquisition planning and budget development.                                                                                            |  |                                      |         |                  |             |               |
| FY 2012 Accomplishments:                                                                                                                                                                                             |  |                                      |         |                  |             |               |
| Complete the demonstration and transition of technologies supporting persistent wide area air and maritime surveillance to enable defense against threats in the interior of and in the approaches to North America. |  |                                      |         |                  |             |               |
| FY 2013 Plans:                                                                                                                                                                                                       |  |                                      |         |                  |             |               |
| N/A                                                                                                                                                                                                                  |  |                                      |         |                  |             |               |
| FY 2014 Plans:                                                                                                                                                                                                       |  |                                      |         |                  |             |               |
| N/A                                                                                                                                                                                                                  |  |                                      |         |                  |             |               |
| Title: Propulsion Technology Transition                                                                                                                                                                              |  |                                      |         | 0.000            | 34.558      | 10.636        |
| Description: Next generation fuel efficient military propulsion system.                                                                                                                                              |  |                                      |         |                  |             |               |
| FY 2012 Accomplishments:                                                                                                                                                                                             |  |                                      |         |                  |             |               |
| N/A                                                                                                                                                                                                                  |  |                                      |         |                  |             |               |
| FY 2013 Plans:                                                                                                                                                                                                       |  |                                      |         |                  |             |               |

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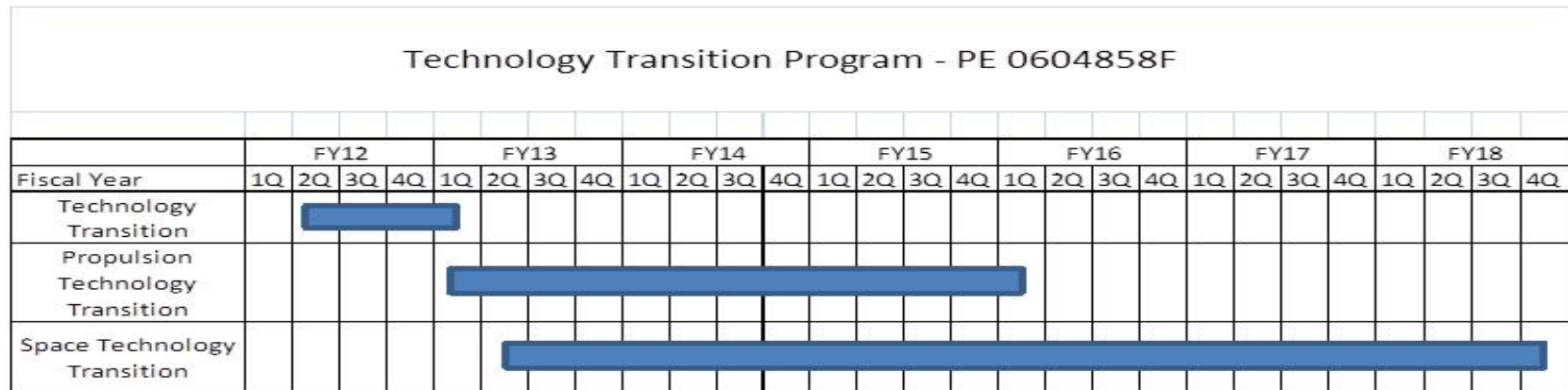
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                             |                |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------|----------------|----------------|
| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2014 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | <b>DATE:</b> April 2013                                                     |                |                |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604858F: <i>Tech Transition Program</i> |                |                |
| <b>C. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | <b>FY 2012</b>                                                              | <b>FY 2013</b> | <b>FY 2014</b> |
| Accomplish an adaptive turbine engine prototype conceptual design. Perform engine configuration definition and component conceptual design. Complete early performance, durability, and operability assessments.<br><br><b>FY 2014 Plans:</b><br>Complete component risk reduction and core engine design. Continue preliminary engine design activities, as well as weapons systems integration, common core studies, and material manufacturing readiness activities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                             |                |                |
| <b>Title:</b> Space Technology Transition<br><br><b>Description:</b> Responsive Resilient Space Technologies<br><br><b>FY 2012 Accomplishments:</b><br>N/A<br><br><b>FY 2013 Plans:</b><br>Pursue opportunities to mature systems and technologies which enable increasingly responsive, resilient and affordable architectures via hostable payloads, small satellites and government/commercial hosting opportunities.<br><br><b>FY 2014 Plans:</b><br>Pursue opportunities to mature systems and technologies which enable increasingly responsive, resilient and affordable architectures via hostable payloads, small satellites and government/commercial hosting opportunities.                                                                                                                                                                                                                                                                                          |  | 0.000                                                                       | 3.000          | 3.000          |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | 2.683                                                                       | 37.558         | 13.636         |
| <b>D. Other Program Funding Summary (\$ in Millions)</b><br>N/A<br><br><b>Remarks</b><br><br><b>E. Acquisition Strategy</b><br>TTP enables a more effective and prioritized transition of technologies to the warfighter. It allows more accurate cost estimating and more comprehensive systems integration to occur through the use of prototypes and user assessments until the sponsoring major command can incorporate the technology into their subsequent budget submission. The Air Force, through appropriate program offices, will manage the acquisition and development process for the integration and fielding of Service Acquisition Executive approved TTP projects.<br><br><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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|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------|------------------------|----------------|-------------------|----------------------------------------------------------------------|-------------------|---------------------|-------------------|--------------------|-------------------|-----------------------------------------------------|-------------------------|-------------------|---------------------------------|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2014 Air Force</b>                                                                                         |                                   |                                           |                        |                |                   |                                                                      |                   |                     |                   |                    |                   | <b>DATE:</b> April 2013                             |                         |                   |                                 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 4: Advanced Component Development & Prototypes (ACD&P) |                                   |                                           |                        |                |                   | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604858F: Tech Transition Program |                   |                     |                   |                    |                   | <b>PROJECT</b><br>645350: Transition Prioritization |                         |                   |                                 |
| <b>Product Development (\$ in Millions)</b>                                                                                                                    |                                   |                                           |                        | <b>FY 2012</b> |                   | <b>FY 2013</b>                                                       |                   | <b>FY 2014 Base</b> |                   | <b>FY 2014 OCO</b> |                   | <b>FY 2014 Total</b>                                |                         |                   |                                 |
| <b>Cost Category Item</b>                                                                                                                                      | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>All Prior Years</b> | <b>Cost</b>    | <b>Award Date</b> | <b>Cost</b>                                                          | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>        | <b>Award Date</b> | <b>Cost</b>                                         | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| Propulsion Technologies                                                                                                                                        | C/CPFF                            | GE and P&W:,                              | -                      | 0.000          |                   | 34.558                                                               | Oct 2012          | 10.636              |                   | -                  |                   | 10.636                                              | Continuing              | Continuing        | TBD                             |
| Space Technologies                                                                                                                                             | Various                           | TBD:TBD,                                  | -                      | 0.000          |                   | 3.000                                                                |                   | 3.000               |                   | -                  |                   | 3.000                                               | Continuing              | Continuing        | TBD                             |
| C2 Gap Filler project                                                                                                                                          | Various                           | Various:Various,                          | -                      | 2.683          | Dec 2012          | 0.000                                                                |                   | 0.000               |                   | -                  |                   | 0.000                                               | Continuing              | Continuing        | TBD                             |
| <b>Subtotal</b>                                                                                                                                                |                                   |                                           | 0.000                  | 2.683          |                   | 37.558                                                               |                   | 13.636              |                   | 0.000              |                   | 13.636                                              |                         |                   |                                 |
| <b>Support (\$ in Millions)</b>                                                                                                                                |                                   |                                           |                        | <b>FY 2012</b> |                   | <b>FY 2013</b>                                                       |                   | <b>FY 2014 Base</b> |                   | <b>FY 2014 OCO</b> |                   | <b>FY 2014 Total</b>                                |                         |                   |                                 |
| <b>Cost Category Item</b>                                                                                                                                      | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>All Prior Years</b> | <b>Cost</b>    | <b>Award Date</b> | <b>Cost</b>                                                          | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>        | <b>Award Date</b> | <b>Cost</b>                                         | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| <b>Subtotal</b>                                                                                                                                                |                                   |                                           | 0.000                  | 0.000          |                   | 0.000                                                                |                   | 0.000               |                   | 0.000              |                   | 0.000                                               | 0.000                   | 0.000             | 0.000                           |
| <b>Test and Evaluation (\$ in Millions)</b>                                                                                                                    |                                   |                                           |                        | <b>FY 2012</b> |                   | <b>FY 2013</b>                                                       |                   | <b>FY 2014 Base</b> |                   | <b>FY 2014 OCO</b> |                   | <b>FY 2014 Total</b>                                |                         |                   |                                 |
| <b>Cost Category Item</b>                                                                                                                                      | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>All Prior Years</b> | <b>Cost</b>    | <b>Award Date</b> | <b>Cost</b>                                                          | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>        | <b>Award Date</b> | <b>Cost</b>                                         | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| <b>Subtotal</b>                                                                                                                                                |                                   |                                           | 0.000                  | 0.000          |                   | 0.000                                                                |                   | 0.000               |                   | 0.000              |                   | 0.000                                               | 0.000                   | 0.000             | 0.000                           |
| <b>Management Services (\$ in Millions)</b>                                                                                                                    |                                   |                                           |                        | <b>FY 2012</b> |                   | <b>FY 2013</b>                                                       |                   | <b>FY 2014 Base</b> |                   | <b>FY 2014 OCO</b> |                   | <b>FY 2014 Total</b>                                |                         |                   |                                 |
| <b>Cost Category Item</b>                                                                                                                                      | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>All Prior Years</b> | <b>Cost</b>    | <b>Award Date</b> | <b>Cost</b>                                                          | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>        | <b>Award Date</b> | <b>Cost</b>                                         | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| <b>Subtotal</b>                                                                                                                                                |                                   |                                           | 0.000                  | 0.000          |                   | 0.000                                                                |                   | 0.000               |                   | 0.000              |                   | 0.000                                               | 0.000                   | 0.000             | 0.000                           |
| <b>Project Cost Totals</b>                                                                                                                                     |                                   |                                           | 0.000                  | 2.683          |                   | 37.558                                                               |                   | 13.636              |                   | 0.000              |                   | 13.636                                              |                         |                   |                                 |
| <b>Remarks</b><br>TBD                                                                                                                                          |                                   |                                           |                        |                |                   |                                                                      |                   |                     |                   |                    |                   |                                                     |                         |                   |                                 |

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| <b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2014 Air Force                                                                                                                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>DATE:</b> April 2013                                                     |  |  |  |  |  |  |  |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604858F: <i>Tech Transition Program</i> |  |  |  |  |  |  |  |
|                                                                                                                                                                                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <b>PROJECT</b><br>645350: <i>Transition Prioritization</i>                  |  |  |  |  |  |  |  |



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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2014 Air Force                                                                                                                       |                                                                             |                                                            | <b>DATE:</b> April 2013 |
| <b>APPROPRIATION/BUDGET ACTIVITY</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force</i><br>BA 4: <i>Advanced Component Development &amp; Prototypes (ACD&amp;P)</i> | <b>R-1 ITEM NOMENCLATURE</b><br>PE 0604858F: <i>Tech Transition Program</i> | <b>PROJECT</b><br>645350: <i>Transition Prioritization</i> |                         |

Schedule Details

| Events                           | Start   |      | End     |      |
|----------------------------------|---------|------|---------|------|
|                                  | Quarter | Year | Quarter | Year |
| Technology Transition            | 2       | 2012 | 1       | 2013 |
| Propulsion Technology Transition | 1       | 2013 | 1       | 2016 |
| Space Technology Transition      | 2       | 2013 | 4       | 2018 |