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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<br>BA 4: Advanced Component Development & Prototypes (ACD&P) |                 |         |                      |              | PE 0604337F: Requirements Analysis and Maturation |               |         |         |         |                  |                  |            |
| 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                                                                                                  | -               | 22.794  | 16.343               | 16.018       | -                                                 | 16.018        | 15.844  | 16.134  | 16.390  | 16.685           | Continuing       | Continuing |
| 645349: Development Planning                                                                                           | -               | 17.293  | 11.649               | 16.018       | -                                                 | 16.018        | 15.844  | 16.134  | 16.390  | 16.685           | Continuing       | Continuing |
| 64A024: Space Systems Requirements Analysis & Maturation                                                               | -               | 5.501   | 4.694                | 0.000        | -                                                 | 0.000         | 0.000   | 0.000   | 0.000   | 0.000            | Continuing       | Continuing |

<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 Requirements Analysis and Maturation (RAM) program addresses a critical need for decision-quality information prior to initiating a new acquisition program by executing integrated materiel studies and analyses across the Air Force enterprise (air, space, and cyber). A number of Department of Defense (DoD), Government Accountability Office, and industry studies point to a need for more disciplined, early-phase systems engineering and pre-systems acquisition planning to produce the detailed acquisition information that previously did not surface until after the initiation of a program. The RAM program element (PE) funds early systems engineering and pre-acquisition planning and analysis activities such as requirements analysis, concept development, acquisition strategy development, cost analysis, modeling and simulation, and costs associated with these activities to include analytical tools and travel. This comprehensive approach supports acquisition courses of action to initiate high-confidence acquisition programs. Specific efforts are determined each year by requests submitted from Air Force Major Commands and subsequently prioritized and approved by the Air Force Development Planning Governance Structure. This effort is in Budget Activity 4, Advanced Component Development and Prototypes, since it involves the planning and analyses necessary to develop system specific efforts that help expedite technology transition from the laboratory to operational use.

For FY 2014 and out Space and Non-Space RAM PE activities were combined into a single Development Planning project, BPAC 645349

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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 0604337F: Requirements Analysis and Maturation |              |                  |               |
| 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                                     | 23.511  | 16.343                                            | 16.018       | -                | 16.018        |
| Current President's Budget                                      | 22.794  | 16.343                                            | 16.018       | -                | 16.018        |
| Total Adjustments                                               | -0.717  | 0.000                                             | 0.000        | -                | 0.000         |
| • 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                                            | -0.717  | 0.000                                             |              |                  |               |
| • Other Adjustments                                             | 0.000   | 0.000                                             | 0.000        | -                | 0.000         |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force                                                                                                                                                                                                                                                                                                                                                                       |                 |         |                      |              |                                                                            |               |         |         |                                         | DATE: April 2013 |                  |            |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 4: Advanced Component Development & Prototypes (ACD&P)                                                                                                                                                                                                                                                                            |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0604337F: Requirements Analysis and Maturation |               |         |         | PROJECT<br>645349: Development Planning |                  |                  |            |
| 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 |
| 645349: Development Planning                                                                                                                                                                                                                                                                                                                                                                                                       | -               | 17.293  | 11.649               | 16.018       | -                                                                          | 16.018        | 15.844  | 16.134  | 16.390                                  | 16.685           | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                         |                 | 0       | 0                    | 0            |                                                                            | 0             | 0       | 0       | 0                                       | 0                |                  |            |
| # FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012                                                                                                                                                                                                                                                                                                                                                  |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |
| ## The FY 2014 OCO Request will be submitted at a later date                                                                                                                                                                                                                                                                                                                                                                       |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                               |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |
| The Development Planning project is responsible for analyzing documented capability needs and requirements to identify potential materiel shortfalls and opportunities; devising candidate materiel solution options to address Air Force capability needs and shortfalls; and conducting coordinated pre-systems acquisition planning activities that address requirements, schedule, cost, technology, and acquisition strategy. |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                               |                 |         |                      |              |                                                                            |               |         |         |                                         | FY 2012          | FY 2013          | FY 2014    |
| Title: Long-range Capability Analyses                                                                                                                                                                                                                                                                                                                                                                                              |                 |         |                      |              |                                                                            |               |         |         |                                         | 2.874            | 1.857            | 2.564      |
| Description: Conduct long-range capability analyses by analyzing documented warfighter capability needs and requirements to identify potential materiel shortfalls and opportunities.                                                                                                                                                                                                                                              |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |
| FY 2012 Accomplishments:<br>Developed capability roadmaps, advanced concept studies and analyses, and derived technology needs required to realize future materiel solutions to warfighter capability needs.                                                                                                                                                                                                                       |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |
| FY 2013 Plans:<br>Develop capability roadmaps, advanced concept studies and analyses, and derive technology needs required to realize future materiel solutions to warfighter capability needs.                                                                                                                                                                                                                                    |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |
| FY 2014 Plans:<br>Continue to develop capability roadmaps, advanced concept studies and analyses, and derive technology needs required to realize future materiel solutions to warfighter capability needs.                                                                                                                                                                                                                        |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |
| Title: Concept Development                                                                                                                                                                                                                                                                                                                                                                                                         |                 |         |                      |              |                                                                            |               |         |         |                                         | 11.489           | 7.812            | 10.731     |
| Description: Conduct concept development activities, including early-phase systems engineering, by devising candidate materiel solution options to address Air Force air and cyber capability needs and shortfalls.                                                                                                                                                                                                                |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |
| FY 2012 Accomplishments:                                                                                                                                                                                                                                                                                                                                                                                                           |                 |         |                      |              |                                                                            |               |         |         |                                         |                  |                  |            |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | DATE: April 2013                                                           |                                         |         |         |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 4: Advanced Component Development & Prototypes (ACD&P)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | R-1 ITEM NOMENCLATURE<br>PE 0604337F: Requirements Analysis and Maturation | PROJECT<br>645349: Development Planning |         |         |
| B. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                            | FY 2012                                 | FY 2013 | FY 2014 |
| Executed concept development activities, to include requirements support and analysis, early-phase systems engineering, early concept characterization and technical descriptions, market research, budget estimates, and technology assessments.<br><br><b>FY 2013 Plans:</b><br>Execute concept development activities, to include requirements support and analysis, early-phase systems engineering, early concept characterization and technical descriptions, market research, budget estimates, and technology assessments.<br><br><b>FY 2014 Plans:</b><br>Continue to execute concept development activities, to include requirements support and analysis, early-phase systems engineering, early concept characterization and technical descriptions, market research, budget estimates, and technology assessments.                                                        |  |                                                                            |                                         |         |         |
| <b>Title:</b> Pre-systems Acquisition Planning<br><br><b>Description:</b> Conduct coordinated pre-systems acquisition planning activities that address requirements, schedule, cost, technology, and acquisition strategy.<br><br><b>FY 2012 Accomplishments:</b><br>Performed pre-systems acquisition planning activities, to include concept refinement, cost estimates, acquisition courses of action, and acquisition milestone documentation.<br><br><b>FY 2013 Plans:</b><br>Perform pre-systems acquisition planning activities, to include concept refinement, cost estimates, acquisition courses of action, and acquisition milestone documentation.<br><br><b>FY 2014 Plans:</b><br>Continue to perform pre-systems acquisition planning activities, to include concept refinement, cost estimates, acquisition courses of action, and acquisition milestone documentation. |  |                                                                            | 2.930                                   | 1.980   | 2.723   |
| Accomplishments/Planned Programs Subtotals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                            | 17.293                                  | 11.649  | 16.018  |
| C. Other Program Funding Summary (\$ in Millions)<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                            |                                         |         |         |
| Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                            |                                         |         |         |
| D. Acquisition Strategy<br>All contracts funded in this program element will be awarded using competitive procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                            |                                         |         |         |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force                                                                                                   |                                                                                   | DATE: 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 0604337F: Requirements Analysis and Maturation | <b>PROJECT</b><br>645349: Development Planning |

### E. Performance Metrics

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 0604337F: Requirements Analysis and Maturation |                   |                     |                   |                    |                   | <b>PROJECT</b><br>645349: Development Planning |                         |                   |                                 |
| <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> |
| <b>Subtotal</b>                                                                                                                                                |                                   |                                           | 0.000                  | 0.000          |                   | 0.000                                                                             |                   | 0.000               |                   | 0.000              |                   | 0.000                                          | 0.000                   | 0.000             | 0.000                           |
| <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> |
| Long-range capability analyses                                                                                                                                 | Various                           | TBD:TBD,                                  | -                      | 2.874          | Dec 2011          | 1.857                                                                             | Dec 2012          | 2.564               | Dec 2013          | -                  |                   | 2.564                                          | Continuing              | Continuing        | TBD                             |
| Concept development activities                                                                                                                                 | Various                           | TBD:TBD,                                  | -                      | 11.489         | Feb 2012          | 7.812                                                                             | Feb 2013          | 10.731              | Feb 2014          | -                  |                   | 10.731                                         | Continuing              | Continuing        | TBD                             |
| Pre-systems acquisition planning                                                                                                                               | Various                           | TBD:TBD,                                  | -                      | 2.930          | Feb 2012          | 1.980                                                                             | Feb 2013          | 2.723               | Feb 2014          | -                  |                   | 2.723                                          | Continuing              | Continuing        | TBD                             |
| <b>Subtotal</b>                                                                                                                                                |                                   |                                           | 0.000                  | 17.293         |                   | 11.649                                                                            |                   | 16.018              |                   | 0.000              |                   | 16.018                                         |                         |                   |                                 |
| <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>All Prior Years</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 To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| <b>Project Cost Totals</b>                                                                                                                                     |                                   |                                           | 0.000                  | 17.293         |                   | 11.649                                                                            |                   | 16.018              |                   | 0.000              |                   | 16.018                                         |                         |                   |                                 |

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2014 Air Force                                                                                             |                 |         |         |                                                                            |             |               | DATE: April 2013                        |            |                          |  |  |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 4: Advanced Component Development & Prototypes (ACD&P) |                 |         |         | R-1 ITEM NOMENCLATURE<br>PE 0604337F: Requirements Analysis and Maturation |             |               | PROJECT<br>645349: Development Planning |            |                          |  |  |
|                                                                                                                                                         | All Prior Years | FY 2012 | FY 2013 | FY 2014 Base                                                               | FY 2014 OCO | FY 2014 Total | Cost To Complete                        | Total Cost | Target Value of Contract |  |  |
| Remarks                                                                                                                                                 |                 |         |         |                                                                            |             |               |                                         |            |                          |  |  |

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2014 Air Force

**DATE:** April 2013

**APPROPRIATION/BUDGET ACTIVITY**

3600: *Research, Development, Test & Evaluation, Air Force*  
BA 4: *Advanced Component Development & Prototypes (ACD&P)*

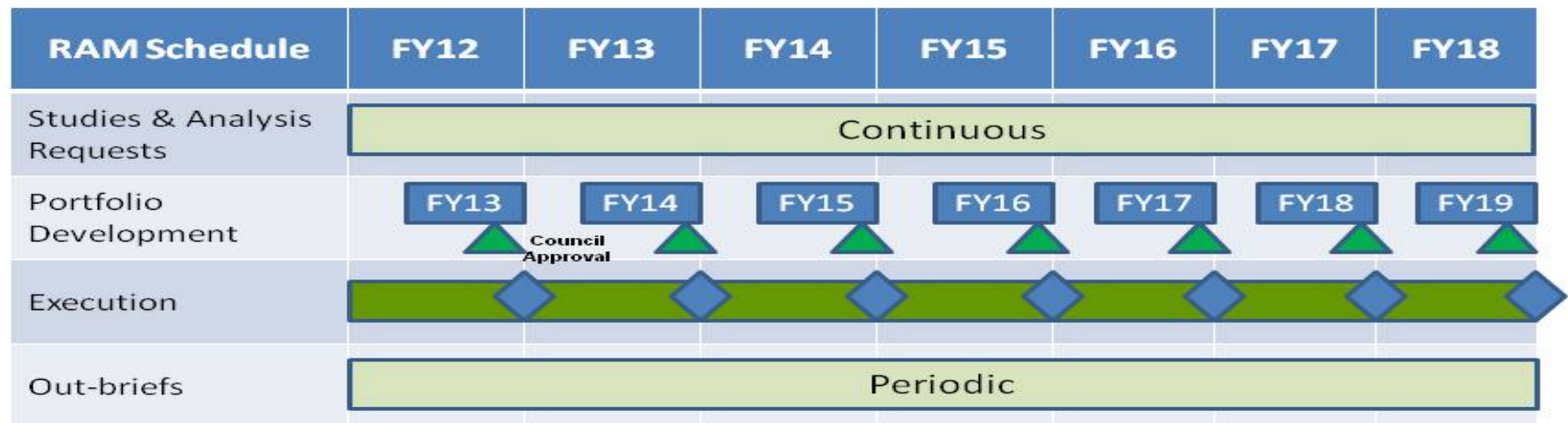
**R-1 ITEM NOMENCLATURE**

PE 0604337F: *Requirements Analysis and Maturation*

**PROJECT**

645349: *Development Planning*

## Requirements Analysis and Maturation (RAM) Master Schedule



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|                                                                                                                                                                                          |                                                                                          |                                                       |                         |
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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 0604337F: <i>Requirements Analysis and Maturation</i> | <b>PROJECT</b><br>645349: <i>Development Planning</i> |                         |

Schedule Details

| Events                         | Start   |      | End     |      |
|--------------------------------|---------|------|---------|------|
|                                | Quarter | Year | Quarter | Year |
| Studies & Analysis Requests    | 1       | 2012 | 4       | 2018 |
| FY13 RAM Portfolio Development | 2       | 2012 | 4       | 2012 |
| FY14 RAM Portfolio Development | 2       | 2013 | 4       | 2013 |
| FY15 RAM Portfolio Development | 2       | 2014 | 4       | 2014 |
| FY16 RAM Portfolio Development | 2       | 2015 | 4       | 2015 |
| FY17 RAM Portfolio Development | 2       | 2016 | 4       | 2016 |
| FY18 RAM Portfolio Development | 2       | 2017 | 4       | 2017 |
| FY19 RAM Portfolio Development | 2       | 2018 | 4       | 2018 |
| RAM Effort Execution           | 1       | 2012 | 4       | 2018 |
| Studies & Analyses Outbriefs   | 1       | 2012 | 4       | 2018 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2014 Air Force                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |                      |              |                                                                            |               |         |         |                                                                     | DATE: April 2013 |                  |            |
| APPROPRIATION/BUDGET ACTIVITY<br>3600: Research, Development, Test & Evaluation, Air Force<br>BA 4: Advanced Component Development & Prototypes (ACD&P)                                                                                                                                                                                                                                                                                             |                 |         |                      |              | R-1 ITEM NOMENCLATURE<br>PE 0604337F: Requirements Analysis and Maturation |               |         |         | PROJECT<br>64A024: Space Systems Requirements Analysis & Maturation |                  |                  |            |
| 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 |
| 64A024: Space Systems Requirements Analysis & Maturation                                                                                                                                                                                                                                                                                                                                                                                            | -               | 5.501   | 4.694                | 0.000        | -                                                                          | 0.000         | 0.000   | 0.000   | 0.000                                                               | 0.000            | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                          |                 | 0       | 0                    | 0            |                                                                            | 0             | 0       | 0       | 0                                                                   | 0                |                  |            |
| # FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012                                                                                                                                                                                                                                                                                                                                                                   |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |
| ## The FY 2014 OCO Request will be submitted at a later date                                                                                                                                                                                                                                                                                                                                                                                        |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                                                |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |
| The Space Systems project is responsible for analyzing documented capability needs and requirements to identify potential materiel shortfalls and opportunities; devising candidate materiel solution options to address Air Force space capability needs and shortfalls; and conducting coordinated pre-systems acquisition planning activities that address requirements, schedule, cost, technology, and acquisition strategy for space efforts. |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                |                 |         |                      |              |                                                                            |               |         |         |                                                                     | FY 2012          | FY 2013          | FY 2014    |
| Title: Long-range Capability Analyses                                                                                                                                                                                                                                                                                                                                                                                                               |                 |         |                      |              |                                                                            |               |         |         |                                                                     | 0.855            | 0.703            | 0.000      |
| Description: Conduct long-range capability analyses by analyzing documented warfighter capability needs and requirements to identify potential materiel shortfalls and opportunities.                                                                                                                                                                                                                                                               |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |
| FY 2012 Accomplishments:<br>Developed capability roadmaps, advanced concept studies and analyses, and derive technology needs required to realize future materiel solutions to warfighter capability needs.                                                                                                                                                                                                                                         |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |
| FY 2013 Plans:<br>Develop capability roadmaps, advanced concept studies and analyses, and derive technology needs required to realize future materiel solutions to warfighter capability needs.                                                                                                                                                                                                                                                     |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |
| FY 2014 Plans:<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |
| Title: Concept Development                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |         |                      |              |                                                                            |               |         |         |                                                                     | 3.243            | 2.820            | 0.000      |
| Description: Conduct concept development activities, including early-phase systems engineering, by devising candidate materiel solution options to address Air Force space capability needs and shortfalls.                                                                                                                                                                                                                                         |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |
| FY 2012 Accomplishments:                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |         |                      |              |                                                                            |               |         |         |                                                                     |                  |                  |            |

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| <b>Exhibit R-2A, RDT&amp;E Project 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 0604337F: <i>Requirements Analysis and Maturation</i> | <b>PROJECT</b><br>64A024: <i>Space Systems Requirements Analysis &amp; Maturation</i> |
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | <b>FY 2012</b>                                                                           | <b>FY 2013</b>                                                                        |
| <p>Executed concept development activities, to include requirements support and analysis, early-phase systems engineering, early concept characterization and technical descriptions, market research, budget estimates, and technology assessments.</p> <p><b>FY 2013 Plans:</b><br/>Execute concept development activities, to include requirements support and analysis, early-phase systems engineering, early concept characterization and technical descriptions, market research, budget estimates, and technology assessments.</p> <p><b>FY 2014 Plans:</b><br/>N/A</p>                                                                                                                                          |  |                                                                                          |                                                                                       |
| <p><b>Title:</b> Pre-systems Acquisition Planning</p> <p><b>Description:</b> Conduct coordinated pre-systems acquisition planning activities that address requirements, schedule, cost, technology, and acquisition strategy.</p> <p><b>FY 2012 Accomplishments:</b><br/>Performed pre-systems acquisition planning activities, to include concept refinement, cost estimates, acquisition courses of action, and acquisition milestone documentation.</p> <p><b>FY 2013 Plans:</b><br/>Continue to perform pre-systems acquisition planning activities, to include concept refinement, cost estimates, acquisition courses of action, and acquisition milestone documentation.</p> <p><b>FY 2014 Plans:</b><br/>N/A</p> |  | 1.403                                                                                    | 1.171                                                                                 |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 5.501                                                                                    | 4.694                                                                                 |
| <b>C. Other Program Funding Summary (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                          |                                                                                       |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                          |                                                                                       |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                          |                                                                                       |
| <b>D. Acquisition Strategy</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                          |                                                                                       |
| All contracts funded in this program element will be awarded using competitive procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |                                                                                          |                                                                                       |
| <b>E. Performance Metrics</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                          |                                                                                       |
| 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: <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 0604337F: <i>Requirements Analysis and Maturation</i> |            |              |            |             |            | <b>PROJECT</b><br>64A024: <i>Space Systems Requirements Analysis &amp; Maturation</i> |                  |            |                          |
| <b>Product Development (\$ in Millions)</b>                                                                                                                                              |                        |                                           |                 | FY 2012 |            | FY 2013                                                                                  |            | FY 2014 Base |            | FY 2014 OCO |            | FY 2014 Total                                                                         |                  |            |                          |
| Cost Category Item                                                                                                                                                                       | Contract Method & Type | Performing Activity & Location            | All Prior Years | Cost    | Award Date | Cost                                                                                     | Award Date | Cost         | Award Date | Cost        | Award Date | Cost                                                                                  | Cost To Complete | Total Cost | Target Value of Contract |
| <b>Subtotal</b>                                                                                                                                                                          |                        |                                           | 0.000           | 0.000   |            | 0.000                                                                                    |            | 0.000        |            | 0.000       |            | 0.000                                                                                 | 0.000            | 0.000      | 0.000                    |
| <b>Support (\$ in Millions)</b>                                                                                                                                                          |                        |                                           |                 | FY 2012 |            | FY 2013                                                                                  |            | FY 2014 Base |            | FY 2014 OCO |            | FY 2014 Total                                                                         |                  |            |                          |
| Cost Category Item                                                                                                                                                                       | Contract Method & Type | Performing Activity & Location            | All Prior Years | Cost    | Award Date | Cost                                                                                     | Award Date | Cost         | Award Date | Cost        | Award Date | Cost                                                                                  | Cost To Complete | Total Cost | Target Value of Contract |
| Long-range capability analyses                                                                                                                                                           | Various                | Aerospace Corp / TASC Inc.:El Segundo, CA | -               | 0.855   | Dec 2011   | 0.703                                                                                    | Dec 2012   | 0.000        |            | -           |            | 0.000                                                                                 | Continuing       | Continuing | TBD                      |
| Concept development activities                                                                                                                                                           | Various                | Aerospace Corp / TASC Inc.:El Segundo, CA | -               | 3.243   | Dec 2011   | 2.820                                                                                    | Dec 2012   | 0.000        |            | -           |            | 0.000                                                                                 | Continuing       | Continuing | TBD                      |
| Pre-systems acquisition planning                                                                                                                                                         | Various                | Aerospace Corp / TASC Inc.:El Segundo, CA | -               | 1.403   | Dec 2011   | 1.171                                                                                    | Dec 2012   | 0.000        |            | -           |            | 0.000                                                                                 | Continuing       | Continuing | TBD                      |
| <b>Subtotal</b>                                                                                                                                                                          |                        |                                           | 0.000           | 5.501   |            | 4.694                                                                                    |            | 0.000        |            | 0.000       |            | 0.000                                                                                 |                  |            |                          |
| <b>Test and Evaluation (\$ in Millions)</b>                                                                                                                                              |                        |                                           |                 | FY 2012 |            | FY 2013                                                                                  |            | FY 2014 Base |            | FY 2014 OCO |            | FY 2014 Total                                                                         |                  |            |                          |
| Cost Category Item                                                                                                                                                                       | Contract Method & Type | Performing Activity & Location            | All Prior Years | Cost    | Award Date | Cost                                                                                     | Award Date | Cost         | Award Date | Cost        | Award Date | Cost                                                                                  | Cost To Complete | Total Cost | Target Value of Contract |
| <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>                                                                                                                                              |                        |                                           |                 | FY 2012 |            | FY 2013                                                                                  |            | FY 2014 Base |            | FY 2014 OCO |            | FY 2014 Total                                                                         |                  |            |                          |
| Cost Category Item                                                                                                                                                                       | Contract Method & Type | Performing Activity & Location            | All Prior Years | Cost    | Award Date | Cost                                                                                     | Award Date | Cost         | Award Date | Cost        | Award Date | Cost                                                                                  | Cost To Complete | Total Cost | Target Value of Contract |
| <b>Subtotal</b>                                                                                                                                                                          |                        |                                           | 0.000           | 0.000   |            | 0.000                                                                                    |            | 0.000        |            | 0.000       |            | 0.000                                                                                 | 0.000            | 0.000      | 0.000                    |

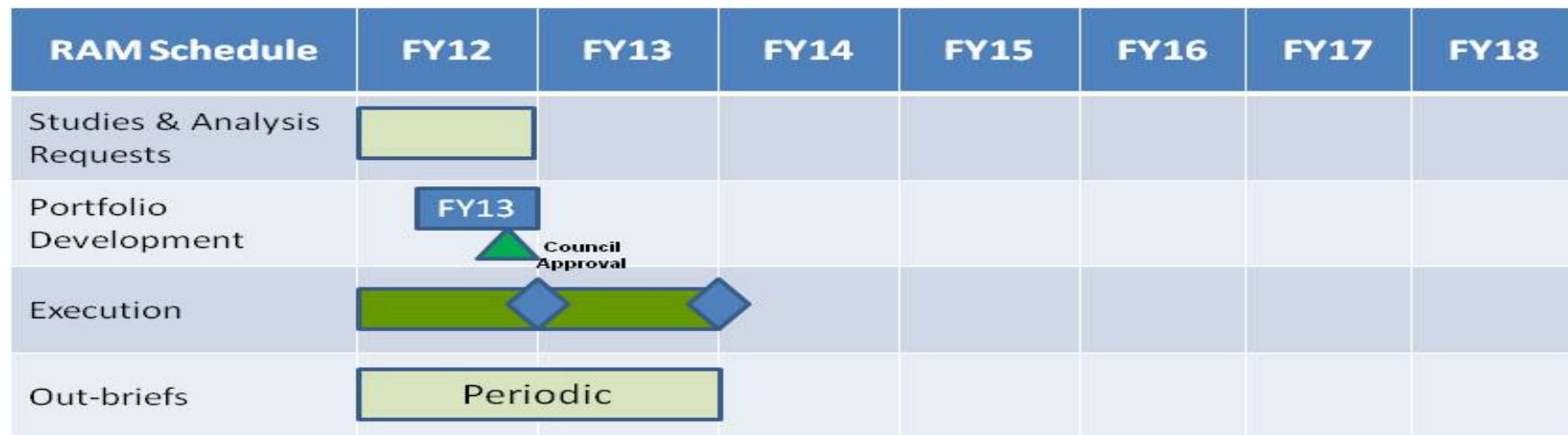
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| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2014 Air Force                                                                                                                   |                        |                |  |                |                                                                                          |                     |  |                    |                                                                                       | <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 0604337F: <i>Requirements Analysis and Maturation</i> |                     |  |                    | <b>PROJECT</b><br>64A024: <i>Space Systems Requirements Analysis &amp; Maturation</i> |                         |                         |                   |                                 |
|                                                                                                                                                                                          | <b>All Prior Years</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 To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| <b>Project Cost Totals</b>                                                                                                                                                               | 0.000                  | 5.501          |  | 4.694          |                                                                                          | 0.000               |  | 0.000              |                                                                                       | 0.000                   |                         |                   |                                 |
| <b>Remarks</b>                                                                                                                                                                           |                        |                |  |                |                                                                                          |                     |  |                    |                                                                                       |                         |                         |                   |                                 |

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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 0604337F: <i>Requirements Analysis and Maturation</i> | <b>PROJECT</b><br>64A024: <i>Space Systems Requirements Analysis &amp; Maturation</i> |

## Requirements Analysis and Maturation (RAM) Master Schedule



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|                                                                                                                                                                                          |                                                                                          |                                                                                       |                         |
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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 0604337F: <i>Requirements Analysis and Maturation</i> | <b>PROJECT</b><br>64A024: <i>Space Systems Requirements Analysis &amp; Maturation</i> |                         |

Schedule Details

| Events                         | Start   |      | End     |      |
|--------------------------------|---------|------|---------|------|
|                                | Quarter | Year | Quarter | Year |
| Studies & Analysis Requests    | 1       | 2012 | 4       | 2012 |
| FY13 RAM Portfolio Development | 2       | 2012 | 4       | 2012 |
| RAM Effort Execution           | 1       | 2012 | 4       | 2013 |
| Studies & Analyses Outbriefs   | 1       | 2012 | 4       | 2013 |