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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |         |         |              |                                                                                         |               |         |         |         | Date: March 2014 |                  |            |
| Appropriation/Budget Activity<br>3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0605030F I Joint Tactical Network Center (JTNC) |               |         |         |         |                  |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO #                                                                           | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019          | Cost To Complete | Total Cost |
| Total Program Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -           | -       | -       | 0.078        | -                                                                                       | 0.078         | 22.091  | 22.035  | 22.465  | 22.893           | Continuing       | Continuing |
| 655068: Joint Tactical Radio System (JTRS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -           | -       | -       | 0.078        | -                                                                                       | 0.078         | 22.091  | 22.035  | 22.465  | 22.893           | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -           | -       | -       | -            | -                                                                                       | -             | -       | -       | -       | -                |                  |            |
| # The FY 2015 OCO Request will be submitted at a later date.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         |         |              |                                                                                         |               |         |         |         |                  |                  |            |
| Note<br>In FY2015, Project 655068, Joint Tactical Radio System, efforts were transferred from PE 0604280F Joint Tactical Radio System (JTRS), Project 655068, Joint Tactical Radio System, to in order to improve transparency of ACAT 1 Acquisition programs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |         |              |                                                                                         |               |         |         |         |                  |                  |            |
| A. Mission Description and Budget Item Justification<br>Funding prior to FY15 was located in PE 0604280F. The JTRS development program is a joint program managed through the Navy's PEO for Joint Tactical Networks (PEO JTN). The JTN was formed upon the descoping of the Joint Tactical Radio System development program (PE 0604280F). JTN will provide interoperable, secure Joint Tactical Networking applications capable of operating in a variety of radio solutions to maintain and sustain an affordable, government-controlled open architecture, in support of Combatant Commanders', Services' and Coalition mission network requirements. JTN is responsible for the continuous development, delivery, and maintenance of networking waveforms and modified legacy radio waveforms that are Software Communications Architecture (SCA) compliant. SCA compliant waveforms enable interoperability and support Net-Centric operational warfare at sea, in the air and on the ground. Networking waveforms extend the Global Information Grid (GIG) to the first tactical mile and to the warfighter.<br><br>The JTN team is responsible for (1) the overall management and oversight of the Waveforms contained in the JTN repository; (2) development, validation, and evolution of a common JTN SCA; (3) development and evolution of waveform software applications for tactical radios; (4) development of software cryptographic algorithms and equipment applications (Information Assurance); (5) development and evolution of the JTN networking and network management software components, Joint Enterprise Network Manager (JENM); (6) testing and certification of JTN waveforms, network services, and network management; and, (7) full lifecycle support of waveforms and networking applications in order to maintain a robust industry base of radio vendors.<br><br>The individual services provide 1/3 each of funding to support activities of the JTN.<br><br>This program is in Budget Activity 5, System Development and Demonstration (SDD), currently it has passed Milestone B approval and is conducting engineering and manufacturing development tasks aimed at meeting validated requirements prior to full-rate production. |             |         |         |              |                                                                                         |               |         |         |         |                  |                  |            |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                            |         |                                                                                         |              | Date: March 2014 |               |         |
| Appropriation/Budget Activity<br>3600: Research, Development, Test & Evaluation, Air Force I BA 5: System Development & Demonstration (SDD)                                                                                                                                                                                                                                                                                                                                                |         | R-1 Program Element (Number/Name)<br>PE 0605030F I Joint Tactical Network Center (JTNC) |              |                  |               |         |
| B. Program Change Summary (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FY 2013 | FY 2014                                                                                 | FY 2015 Base | FY 2015 OCO      | FY 2015 Total |         |
| Previous President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -       | -                                                                                       | 20.088       | -                | 20.088        |         |
| Current President's Budget                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -                                                                                       | 0.078        | -                | 0.078         |         |
| Total Adjustments                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -       | -                                                                                       | -20.010      | -                | -20.010       |         |
| • Congressional General Reductions                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -       | -                                                                                       |              |                  |               |         |
| • Congressional Directed Reductions                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -       | -                                                                                       |              |                  |               |         |
| • Congressional Rescissions                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -       | -                                                                                       |              |                  |               |         |
| • Congressional Adds                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -       | -                                                                                       |              |                  |               |         |
| • Congressional Directed Transfers                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -       | -                                                                                       |              |                  |               |         |
| • Reprogrammings                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -       | -                                                                                       |              |                  |               |         |
| • SBIR/STTR Transfer                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -       | -                                                                                       |              |                  |               |         |
| • Other Adjustments                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -       | -                                                                                       | -20.010      | -                | -20.010       |         |
| Change Summary Explanation                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                         |              |                  |               |         |
| The JTRS development program is a joint program managed through the JTRS JPEO. Each of the joint services, including the Air Force, transfers its funding to the Navy's budget under Joint Tactical Radio System Program (PE 0604280N, BA 5). This annual transfer of funds to the Navy PE is the cause of the seemingly drastic change from current to future fiscal years. The reduction in funding in RDT&E prediction is based upon the anticipated maturation of program development. |         |                                                                                         |              |                  |               |         |
| C. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                                                                                         |              | FY 2013          | FY 2014       | FY 2015 |
| Title: JTRS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                                                                                         |              | -                | -             | 0.078   |
| Description: Funding prior to FY15 was located in PE 0604280F. FY15 funding provided by the Air Force (\$78K) will be used to support activities of the Joint Tactical Networking Center (JTNC).                                                                                                                                                                                                                                                                                           |         |                                                                                         |              |                  |               |         |
| FY 2013 Accomplishments:<br>Funding prior to FY15 located in PE 0604280F                                                                                                                                                                                                                                                                                                                                                                                                                   |         |                                                                                         |              |                  |               |         |
| FY 2014 Plans:<br>Funding prior to FY15 located in PE 0604280F                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                                                                                         |              |                  |               |         |
| FY 2015 Plans:<br>Funding prior to FY15 was located in PE 0604280F. FY15 funding provided by the Air Force (\$78K) will be used to support activities of the Joint Tactical Networking Center (JTNC).                                                                                                                                                                                                                                                                                      |         |                                                                                         |              |                  |               |         |
| Accomplishments/Planned Programs Subtotals                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                                                                                         |              | -                | -             | 0.078   |

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| <b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2015 Air Force                                                                                                                                                                                                                                                                                                                                                |                |                |                         |                        |                                                                                                       |                |                |                |                | <b>Date:</b> March 2014     |                   |
| <b>Appropriation/Budget Activity</b><br>3600: <i>Research, Development, Test &amp; Evaluation, Air Force I BA 5: System Development &amp; Demonstration (SDD)</i>                                                                                                                                                                                                                                                         |                |                |                         |                        | <b>R-1 Program Element (Number/Name)</b><br>PE 0605030F <i>I Joint Tactical Network Center (JTNC)</i> |                |                |                |                |                             |                   |
| <b>D. Other Program Funding Summary (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                  |                |                |                         |                        |                                                                                                       |                |                |                |                |                             |                   |
| <b>Line Item</b>                                                                                                                                                                                                                                                                                                                                                                                                          | <b>FY 2013</b> | <b>FY 2014</b> | <b>FY 2015<br/>Base</b> | <b>FY 2015<br/>OCO</b> | <b>FY 2015<br/>Total</b>                                                                              | <b>FY 2016</b> | <b>FY 2017</b> | <b>FY 2018</b> | <b>FY 2019</b> | <b>Cost To<br/>Complete</b> | <b>Total Cost</b> |
| • OPAF: BA03: 837100: <i>Advanced Communications Systems - JTRS</i>                                                                                                                                                                                                                                                                                                                                                       | 53.664         | 11.563         | -                       | -                      | -                                                                                                     | 39.781         | 27.571         | 27.986         | 26.427         | Continuing                  | Continuing        |
| • APAF: BP11:OTHACF: <i>Advanced Communications Systems - JTRS</i>                                                                                                                                                                                                                                                                                                                                                        | 11.624         | 3.290          | 4.502                   | -                      | 4.502                                                                                                 | -              | -              | -              | -              | -                           | -                 |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |                         |                        |                                                                                                       |                |                |                |                |                             |                   |
| <b>E. Acquisition Strategy</b><br>The JTRS Budget Item Justification is located in the Navy's FY 2015 President's Budget under Joint Tactical Radio System Program (PE 0605030N, BA 5). The JTRS development program is a joint program managed through the Navy's PEO for Joint Tactical Networks (PEO JTN). The JTN was formed upon the descoping of the Joint Tactical Radio System development program (PE 0604280F). |                |                |                         |                        |                                                                                                       |                |                |                |                |                             |                   |
| <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.                                                                                                                                       |                |                |                         |                        |                                                                                                       |                |                |                |                |                             |                   |