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| Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |         |         |              |                                                                               |               |         |         |         | Date: February 2016 |                  |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|--------------|-------------------------------------------------------------------------------|---------------|---------|---------|---------|---------------------|------------------|------------|
| Appropriation/Budget Activity<br>3600: Research, Development, Test & Evaluation, Air Force I BA 7:<br>Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0304260F I Airborne SIGINT Enterprise |               |         |         |         |                     |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO                                                                   | FY 2017 Total | FY 2018 | FY 2019 | FY 2020 | FY 2021             | Cost To Complete | Total Cost |
| Total Program Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -           | 72.910  | 112.775 | 90.762       | 0.000                                                                         | 90.762        | 128.599 | 122.833 | 119.221 | 120.636             | Continuing       | Continuing |
| 675180: RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -           | 15.007  | 41.846  | 39.756       | 0.000                                                                         | 39.756        | 59.535  | 50.938  | 40.984  | 42.509              | Continuing       | Continuing |
| 675181: High Altitude SIGINT Development - High Altitude                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -           | 5.930   | 0.000   | 0.000        | 0.000                                                                         | 0.000         | 0.000   | 0.000   | 0.000   | 0.000               | 0.000            | 5.930      |
| 675183: Common Development (Airborne SIGINT Development - Common Development)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -           | 37.711  | 60.811  | 38.779       | 0.000                                                                         | 38.779        | 54.430  | 55.841  | 56.480  | 55.982              | Continuing       | Continuing |
| 675185: Non-Traditional SIGINT (NTS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -           | 12.040  | 7.188   | 8.875        | 0.000                                                                         | 8.875         | 10.011  | 11.106  | 14.335  | 14.591              | Continuing       | Continuing |
| 675186: Special Programs (Airborne SIGINT Development - Special Platforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -           | 2.222   | 2.930   | 3.352        | 0.000                                                                         | 3.352         | 4.623   | 4.948   | 7.422   | 7.554               | Continuing       | Continuing |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |         |              |                                                                               |               |         |         |         |                     |                  |            |
| <p>(U) This Program provides signals intelligence (SIGINT) development efforts for all USAF airborne platforms. The funds in this Program are distributed among all Airborne SIGINT Enterprise (ASE) projects based on the development priorities established by the USAF SIGINT Capabilities Working Group (SCWG) in order to build a total SIGINT capability. As a result, the USAF will move funds between projects periodically to develop the highest priority projects in response to urgent warfighter needs. This PE will participate in the development, integration, testing, and implementation of international and Air Force standards (to include NATO standardization agreements) to ensure joint, allied, and coalition interoperability. Modernization efforts include sensors for the platforms and where appropriate, their interfaces with the Air Force Distributed Common Ground System (AF DCGS). This approach supports a synergistic development effort providing a true Air Force-wide capability.</p> <p>(U) This enterprise will use the Air Force SIGINT Architecture (AFSA) for planning and decision-making and, in turn, employ open architecture standards whenever possible to allow maximum ease of future upgrades and system interoperability. The primary goal of the ASE is to produce an architecture-based, capability-focused SIGINT investment strategy for the USAF. Funds in any project may be used to fund initiatives in other projects within this Progam at the discretion of the SCWG. Funds in any project can also cover activities to include studies and analysis to support both current program planning and execution and future program planning.</p> <p>(U) This program is in Budget Activity 7, Operational System Development because this budget activity includes development efforts to upgrade systems that have been fielded or have received approval for full rate production and anticipate production funding in the current or subsequent fiscal year.</p> |             |         |         |              |                                                                               |               |         |         |         |                     |                  |            |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force                                                                                                   |         |                                          |              | Date: February 2016 |               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------------------------------|--------------|---------------------|---------------|
| Appropriation/Budget Activity                                                                                                                                     |         | R-1 Program Element (Number/Name)        |              |                     |               |
| 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development                                                                 |         | PE 0304260F I Airborne SIGINT Enterprise |              |                     |               |
| B. Program Change Summary (\$ in Millions)                                                                                                                        | FY 2015 | FY 2016                                  | FY 2017 Base | FY 2017 OCO         | FY 2017 Total |
| Previous President's Budget                                                                                                                                       | 74.072  | 112.775                                  | 89.930       | 0.000               | 89.930        |
| Current President's Budget                                                                                                                                        | 72.910  | 112.775                                  | 90.762       | 0.000               | 90.762        |
| Total Adjustments                                                                                                                                                 | -1.162  | 0.000                                    | 0.832        | 0.000               | 0.832         |
| • Congressional General Reductions                                                                                                                                | 0.000   | 0.000                                    |              |                     |               |
| • Congressional Directed Reductions                                                                                                                               | 0.000   | 0.000                                    |              |                     |               |
| • Congressional Rescissions                                                                                                                                       | 0.000   | 0.000                                    |              |                     |               |
| • Congressional Adds                                                                                                                                              | 0.000   | 0.000                                    |              |                     |               |
| • Congressional Directed Transfers                                                                                                                                | 0.000   | 0.000                                    |              |                     |               |
| • Reprogrammings                                                                                                                                                  | -1.162  | 0.000                                    |              |                     |               |
| • SBIR/STTR Transfer                                                                                                                                              | 0.000   | 0.000                                    |              |                     |               |
| • Other Adjustments                                                                                                                                               | 0.000   | 0.000                                    | 0.832        | 0.000               | 0.832         |
| <b>Change Summary Explanation</b>                                                                                                                                 |         |                                          |              |                     |               |
| - In FY 2015, PE 34260F, (Airborne SIGINT Enterprise), Project 675183, (Common Development) \$1.162M of efforts were transferred to higher Department priorities. |         |                                          |              |                     |               |

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| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force      |             |         |         |              |                                                                               |               |         |         |                                                                                             | Date: February 2016 |                  |            |
|-------------------------------------------------------------------|-------------|---------|---------|--------------|-------------------------------------------------------------------------------|---------------|---------|---------|---------------------------------------------------------------------------------------------|---------------------|------------------|------------|
| Appropriation/Budget Activity<br>3600 / 7                         |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise |               |         |         | Project (Number/Name)<br>675180 / RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint) |                     |                  |            |
| COST (\$ in Millions)                                             | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO                                                                   | FY 2017 Total | FY 2018 | FY 2019 | FY 2020                                                                                     | FY 2021             | Cost To Complete | Total Cost |
| 675180: RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint) | -           | 15.007  | 41.846  | 39.756       | 0.000                                                                         | 39.756        | 59.535  | 50.938  | 40.984                                                                                      | 42.509              | Continuing       | Continuing |
| Quantity of RDT&E Articles                                        | -           | -       | -       | -            | -                                                                             | -             | -       | -       | -                                                                                           | -                   |                  |            |

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

(U) This project supports design studies, engineering analysis, non-recurring engineering, and other efforts associated with the integration and modification of the RC-135 SIGINT sensors and their associated air and ground components. Through extensive utilization of commercial-off-the-shelf (COTS) based solutions to field needed capabilities, it also incurs a need for continuous identification of suitable replacements for components affected by Diminishing Manufacturing Sources and integration efforts consistent with the COTS technology cycle. These efforts provide required engineering for preliminary assessments of technical feasibility, operability, or military utility as well as specific engineering implementations integrated into the various baseline modifications. These funds will be split between the RC-135V/W RIVET JOINT, the RC-135U COMBAT SENT, and the RC-135S COBRA BALL programs. Funding reflects the SIGINT Capabilities Working Group (SCWG) priorities and the accomplishment of other Airborne SIGINT Enterprise (ASE) initiatives.

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

|                                                                                                                                                                 | <b>FY 2015</b> | <b>FY 2016</b> | <b>FY 2017</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
| <b>Title:</b> SIGINT Development                                                                                                                                | 15.007         | 41.846         | 39.756         |
| <b>Description:</b> Non-Recurring Engineering (NRE) for the RC-135 SIGINT Systems. See Classified Budget Exhibits (PE 0305207F)                                 |                |                |                |
| <b>FY 2015 Accomplishments:</b><br>- Continued SIGINT development efforts for the RC-135 fleet to include new signal sets and upgrades to current capabilities. |                |                |                |
| <b>FY 2016 Plans:</b><br>- Continues SIGINT development efforts for the RC-135 fleet to include new signal sets and upgrades to current capabilities.           |                |                |                |
| <b>FY 2017 Plans:</b><br>- Will continue SIGINT development efforts for the RC-135 fleet to include new signal sets and upgrades to current capabilities.       |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                               |                |                | 39.756         |

**C. Other Program Funding Summary (\$ in Millions)**

| <b>Line Item</b>                            | <b>FY 2015</b> | <b>FY 2016</b> | <b>FY 2017 Base</b> | <b>FY 2017 OCO</b> | <b>FY 2017 Total</b> | <b>FY 2018</b> | <b>FY 2019</b> | <b>FY 2020</b> | <b>FY 2021</b> | <b>Cost To Complete</b> | <b>Total Cost</b> |
|---------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| • APAF: BA05: Line Item<br># DARP01: RC-135 | 163.346        | 165.715        | 211.438             | 0.000              | 211.438              | 201.237        | 184.779        | 188.189        | 191.658        | Continuing              | Continuing        |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                |                |                                                                               |                |                |                |                                                                                             |                |                     |                   |
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| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force                                                                                                                                                                                                                                                                                                                                                                           |                |                |                |                                                                               |                |                |                |                                                                                             |                | Date: February 2016 |                   |
| Appropriation/Budget Activity<br>3600 / 7                                                                                                                                                                                                                                                                                                                                                                                              |                |                |                | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise |                |                |                | Project (Number/Name)<br>675180 / RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint) |                |                     |                   |
| C. Other Program Funding Summary (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                      |                |                |                |                                                                               |                |                |                |                                                                                             |                |                     |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                | <u>FY 2017</u> | <u>FY 2017</u>                                                                | <u>FY 2017</u> |                |                |                                                                                             |                | <u>Cost To</u>      |                   |
| <u>Line Item</u>                                                                                                                                                                                                                                                                                                                                                                                                                       | <u>FY 2015</u> | <u>FY 2016</u> | <u>Base</u>    | <u>OCO</u>                                                                    | <u>Total</u>   | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u>                                                                              | <u>FY 2021</u> | <u>Complete</u>     | <u>Total Cost</u> |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                |                |                                                                               |                |                |                |                                                                                             |                |                     |                   |
| (U) The funds within the PE 0305207F procure all necessary aircraft modifications for the RC-135 program and include those funds necessary to field SIGINT capabilities developed under Project 675180 of this Airborne SIGINT Enterprise (ASE). Not all Procurement funds in PE 0305207F are for ASE SIGINT projects.                                                                                                                 |                |                |                |                                                                               |                |                |                |                                                                                             |                |                     |                   |
| <b>D. Acquisition Strategy</b>                                                                                                                                                                                                                                                                                                                                                                                                         |                |                |                |                                                                               |                |                |                |                                                                                             |                |                     |                   |
| (U) Aircraft, aircraft sensor systems, and associated ground support system modifications planned include the procurement, fielding and logistical support for future RC-135V/W RIVET JOINT, RC-135U COMBAT SENT and RC-135S COBRA BALL baseline configurations. Development and integration is managed by the Big Safari Systems Group. They employ evolutionary acquisition approaches to field incremental capability improvements. |                |                |                |                                                                               |                |                |                |                                                                                             |                |                     |                   |
| <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 2017 Air Force</b> |  |  |  |  |  |                                                                                      |  |  |  |                                                                                                    |  |  | <b>Date:</b> February 2016 |  |  |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                       |  |  |  |  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise |  |  |  | <b>Project (Number/Name)</b><br>675180 / RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint) |  |  |                            |  |  |

  

| <b>Product Development (\$ in Millions)</b> |                                   |                                           |                    | <b>FY 2015</b> |                   | <b>FY 2016</b> |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b> |                   | <b>FY 2017 Total</b> |                         |                   |                                 |
|---------------------------------------------|-----------------------------------|-------------------------------------------|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Cost Category Item</b>                   | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>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> |
| SIGINT Sensor Development and Integration   | SS/<br>Various                    | L3COM : Greenville, TX                    | -                  | 15.007         | Jan 2015          | 41.846         | Jan 2016          | 39.756              | Jan 2017          | 0.000              |                   | 39.756               | Continuing              | Continuing        | -                               |
| <b>Subtotal</b>                             |                                   |                                           | -                  | 15.007         |                   | 41.846         |                   | 39.756              |                   | 0.000              |                   | 39.756               | -                       | -                 | -                               |

  

**Remarks**  
Above contract method/type will be CPFF and FFP

  

| <b>Support (\$ in Millions)</b> |                                   |                                           |                    | <b>FY 2015</b> |                   | <b>FY 2016</b> |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b> |                   | <b>FY 2017 Total</b> |                         |                   |                                 |
|---------------------------------|-----------------------------------|-------------------------------------------|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Cost Category Item</b>       | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>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>                 |                                   |                                           | -                  | -              |                   | -              |                   | -                   |                   | -                  |                   | -                    | -                       | -                 | -                               |

  

| <b>Test and Evaluation (\$ in Millions)</b> |                                   |                                           |                    | <b>FY 2015</b> |                   | <b>FY 2016</b> |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b> |                   | <b>FY 2017 Total</b> |                         |                   |                                 |
|---------------------------------------------|-----------------------------------|-------------------------------------------|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Cost Category Item</b>                   | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>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>                             |                                   |                                           | -                  | -              |                   | -              |                   | -                   |                   | -                  |                   | -                    | -                       | -                 | -                               |

  

| <b>Management Services (\$ in Millions)</b> |                                   |                                           |                    | <b>FY 2015</b> |                   | <b>FY 2016</b> |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b> |                   | <b>FY 2017 Total</b> |                         |                   |                                 |
|---------------------------------------------|-----------------------------------|-------------------------------------------|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Cost Category Item</b>                   | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>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>                             |                                   |                                           | -                  | -              |                   | -              |                   | -                   |                   | -                  |                   | -                    | -                       | -                 | -                               |

  

|                            |  |  | <b>Prior Years</b> | <b>FY 2015</b> |  | <b>FY 2016</b> |  | <b>FY 2017 Base</b> |  | <b>FY 2017 OCO</b> |  | <b>FY 2017 Total</b> | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
|----------------------------|--|--|--------------------|----------------|--|----------------|--|---------------------|--|--------------------|--|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Project Cost Totals</b> |  |  | -                  | 15.007         |  | 41.846         |  | 39.756              |  | 0.000              |  | 39.756               | -                       | -                 | -                               |

  

**Remarks**

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|                                                                   |  |                                                                                      |                            |                                                                                                    |  |
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| <b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2017 Air Force |  |                                                                                      | <b>Date:</b> February 2016 |                                                                                                    |  |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise |                            | <b>Project (Number/Name)</b><br>675180 / RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint) |  |

|                                                                                     | FY 2015 |   |   |   | FY 2016 |   |   |   | FY 2017 |   |   |   | FY 2018 |   |   |   | FY 2019 |   |   |   | FY 2020 |   |   |   | FY 2021 |   |   |   |
|-------------------------------------------------------------------------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|                                                                                     | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |
| Development of RIVET JOINT mission sensors<br>(see 0305207F for classified details) |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Development of COMBAT SENT mission<br>sensors (see 0305207F for classified details) |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| Development of COBRA BALL mission sensors<br>(see 0305207F for classified details)  |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Air Force |                                                                                             | <b>Date:</b> February 2016                                                                                |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / <i>Airborne SIGINT Enterprise</i> | <b>Project (Number/Name)</b><br>675180 / <i>RC-135 (Airborne SIGINT Development - RC-135 Rivet Joint)</i> |

Schedule Details

| Events                                                                           | Start   |      | End     |      |
|----------------------------------------------------------------------------------|---------|------|---------|------|
|                                                                                  | Quarter | Year | Quarter | Year |
| Development of RIVET JOINT mission sensors (see 0305207F for classified details) | 1       | 2015 | 4       | 2021 |
| Development of COMBAT SENT mission sensors (see 0305207F for classified details) | 1       | 2015 | 4       | 2021 |
| Development of COBRA BALL mission sensors (see 0305207F for classified details)  | 1       | 2015 | 4       | 2021 |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|--------------|-------------------------------------------------------------------------------|---------------|---------|---------|------------------------------------------------------------------------------------|---------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |         |              |                                                                               |               |         |         |                                                                                    | Date: February 2016 |                  |            |
| Appropriation/Budget Activity<br>3600 / 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise |               |         |         | Project (Number/Name)<br>675181 / High Altitude SIGINT Development - High Altitude |                     |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO                                                                   | FY 2017 Total | FY 2018 | FY 2019 | FY 2020                                                                            | FY 2021             | Cost To Complete | Total Cost |
| 675181: High Altitude SIGINT Development - High Altitude                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -           | 5.930   | 0.000   | 0.000        | 0.000                                                                         | 0.000         | 0.000   | 0.000   | 0.000                                                                              | 0.000               | 0.000            | 5.930      |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -           | -       | -       | -            | -                                                                             | -             | -       | -       | -                                                                                  | -                   |                  |            |
| Note                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |         |         |              |                                                                               |               |         |         |                                                                                    |                     |                  |            |
| (U) In FY 2016, PE 0304260F, Airborne SIGINT Enterprise, Project 675181, High Altitude SIGINT Development - High Altitude, efforts are transferred to PE 0304260F, Airborne SIGINT Enterprise, Project 675183, Common Development (Airborne SIGINT Development - Common Development) in order to simplify contracts as there will be only one High Altitude platform project going forward.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         |         |              |                                                                               |               |         |         |                                                                                    |                     |                  |            |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |         |         |              |                                                                               |               |         |         |                                                                                    |                     |                  |            |
| (U) This project covers the costs of SIGINT integration for high altitude intelligence, surveillance, and reconnaissance (ISR) platforms.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |         |         |              |                                                                               |               |         |         |                                                                                    |                     |                  |            |
| (U) This project supports sensor integration and test, flight test, design studies, engineering analysis, non-recurring engineering and other efforts associated with the insertion of new capabilities integrated into the Airborne Signals Intelligence Payload (ASIP) or other SIGINT sensors and their associated air and ground components for the High Altitude SIGINT platforms. The project also identifies suitable replacements for components affected by Diminishing Manufacturing Sources (DMS). This project provides the warfighter with a near-term, increased combat capability. Enhancements are implemented as soon as technology and risk achieve satisfactory levels. Capability improvements will be inserted into the sensors through individual development efforts that exploit signals of interest identified as service priorities by the Air Force SIGINT Capabilities Working Group (SCWG). Funding includes completion of developmental logistics tasks associated with the design, development, and integration of ASIP. |             |         |         |              |                                                                               |               |         |         |                                                                                    |                     |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |         |         |              |                                                                               |               |         |         | FY 2015                                                                            | FY 2016             | FY 2017          |            |
| Title: High Altitude SIGINT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         |         |              |                                                                               |               |         |         | 5.930                                                                              | 0.000               | -                |            |
| Description: Integration and test of SIGINT sensors into high altitude platforms including the Airborne Signals Intelligence Payload (ASIP) Incr 1 sensor, using an open system architecture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |         |         |              |                                                                               |               |         |         |                                                                                    |                     |                  |            |
| FY 2015 Accomplishments:<br>- Continued logistics efforts and development of new signals capabilities and enhancements of SIGINT sensors as necessary.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |         |         |              |                                                                               |               |         |         |                                                                                    |                     |                  |            |
| FY 2016 Plans:<br>No activity planned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |         |         |              |                                                                               |               |         |         |                                                                                    |                     |                  |            |
| Accomplishments/Planned Programs Subtotals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         |         |              |                                                                               |               |         |         | 5.930                                                                              | 0.000               | -                |            |

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|--------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force |                                                                               |                                                                                    | Date: February 2016 |
| Appropriation/Budget Activity<br>3600 / 7                    | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise | Project (Number/Name)<br>675181 / High Altitude SIGINT Development - High Altitude |                     |

## C. Other Program Funding Summary (\$ in Millions)

| Line Item                                     | FY 2015 | FY 2016 | FY 2017<br>Base | FY 2017<br>OCO | FY 2017<br>Total | FY 2018 | FY 2019 | FY 2020 | FY 2021 | Cost To<br>Complete | Total Cost |
|-----------------------------------------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| • APAF: BA05 Line Item<br># HAWK00: RQ-4 Mods | 21.354  | 50.022  | 32.045          | 0.000          | 32.045           | 55.305  | 81.078  | 40.029  | 155.662 | Continuing          | Continuing |

## Remarks

(U) Not all funds are associated with SIGINT.

## D. Acquisition Strategy

(U) SIGINT capabilities will be integrated into high altitude platforms using an evolutionary approach.

## 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:</b> PB 2017 Air Force |                                   |                                           |                    |                |                   |                                                                                      |                   |                     |                   |                                                                                           |                   |                      | <b>Date:</b> February 2016 |                   |                                 |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                       |                                   |                                           |                    |                |                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise |                   |                     |                   | <b>Project (Number/Name)</b><br>675181 / High Altitude SIGINT Development - High Altitude |                   |                      |                            |                   |                                 |
| <b>Product Development (\$ in Millions)</b>                            |                                   |                                           |                    | <b>FY 2015</b> |                   | <b>FY 2016</b>                                                                       |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b>                                                                        |                   | <b>FY 2017 Total</b> |                            |                   |                                 |
| <b>Cost Category Item</b>                                              | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>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> |
| SIGINT Sensors Development                                             | SS/ Various                       | Northrop Grumman : San Jose, CA           | -                  | 5.930          | Jun 2015          | 0.000                                                                                |                   | 0.000               |                   | 0.000                                                                                     |                   | 0.000                | 0.000                      | 5.930             | -                               |
| <b>Subtotal</b>                                                        |                                   |                                           | -                  | 5.930          |                   | 0.000                                                                                |                   | 0.000               |                   | 0.000                                                                                     |                   | 0.000                | 0.000                      | 5.930             | -                               |
| <b>Support (\$ in Millions)</b>                                        |                                   |                                           |                    | <b>FY 2015</b> |                   | <b>FY 2016</b>                                                                       |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b>                                                                        |                   | <b>FY 2017 Total</b> |                            |                   |                                 |
| <b>Cost Category Item</b>                                              | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>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>                                                        |                                   |                                           | -                  | -              |                   | -                                                                                    |                   | -                   |                   | -                                                                                         |                   | -                    | -                          | -                 | -                               |
| <b>Test and Evaluation (\$ in Millions)</b>                            |                                   |                                           |                    | <b>FY 2015</b> |                   | <b>FY 2016</b>                                                                       |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b>                                                                        |                   | <b>FY 2017 Total</b> |                            |                   |                                 |
| <b>Cost Category Item</b>                                              | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>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>                                                        |                                   |                                           | -                  | -              |                   | -                                                                                    |                   | -                   |                   | -                                                                                         |                   | -                    | -                          | -                 | -                               |
| <b>Management Services (\$ in Millions)</b>                            |                                   |                                           |                    | <b>FY 2015</b> |                   | <b>FY 2016</b>                                                                       |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b>                                                                        |                   | <b>FY 2017 Total</b> |                            |                   |                                 |
| <b>Cost Category Item</b>                                              | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>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>                                                        |                                   |                                           | -                  | -              |                   | -                                                                                    |                   | -                   |                   | -                                                                                         |                   | -                    | -                          | -                 | -                               |
|                                                                        |                                   |                                           | <b>Prior Years</b> | <b>FY 2015</b> |                   | <b>FY 2016</b>                                                                       |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b>                                                                        |                   | <b>FY 2017 Total</b> | <b>Cost To Complete</b>    | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| <b>Project Cost Totals</b>                                             |                                   |                                           | -                  | 5.930          |                   | 0.000                                                                                |                   | 0.000               |                   | 0.000                                                                                     |                   | 0.000                | 0.000                      | 5.930             | -                               |
| <b>Remarks</b>                                                         |                                   |                                           |                    |                |                   |                                                                                      |                   |                     |                   |                                                                                           |                   |                      |                            |                   |                                 |

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**Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force**

**Date:** February 2016

**Appropriation/Budget Activity**

3600 / 7

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

PE 0304260F / Airborne SIGINT Enterprise

| Project (Number/Name)          | Start Date | End Date   | Status      | Manager    | Budget (USD) | Actual Cost (USD) | Progress (%) | Risks  | Notes                            |
|--------------------------------|------------|------------|-------------|------------|--------------|-------------------|--------------|--------|----------------------------------|
| P001 - New Product Launch      | 2023-01-15 | 2023-06-30 | Completed   | J. Doe     | 500,000      | 480,000           | 100          | Low    | Exceeded expectations.           |
| P002 - Website Redesign        | 2023-02-01 | 2023-05-15 | In Progress | A. Smith   | 120,000      | 95,000            | 75           | Medium | Minor delays in content.         |
| P003 - Customer Portal Dev     | 2023-03-10 | 2023-08-31 | On Hold     | M. Johnson | 300,000      | 10,000            | 5            | High   | Waiting for client requirements. |
| P004 - Mobile App Integration  | 2023-04-01 | 2023-09-30 | Planning    | S. Lee     | 180,000      | 0                 | 10           | Medium | Initial discovery phase.         |
| P005 - Data Analytics Platform | 2023-05-01 | 2023-10-31 | Not Started | K. Brown   | 250,000      | 0                 | 0            | Medium | Waiting for budget approval.     |

675181 / High Altitude SIGINT Development  
- High Altitude

[illegible]

## New signals integration

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|                                                         |                                                                               |                                                                                    |
|---------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force |                                                                               | Date: February 2016                                                                |
| Appropriation/Budget Activity<br>3600 / 7               | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise | Project (Number/Name)<br>675181 / High Altitude SIGINT Development - High Altitude |

Schedule Details

| Events                  | Start   |      | End     |      |
|-------------------------|---------|------|---------|------|
|                         | Quarter | Year | Quarter | Year |
| New signals integration | 1       | 2015 | 4       | 2015 |

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|                                                                               |             |         |         |              |                                                                               |               |         |         |                                                                                                         |                     |                  |            |
|-------------------------------------------------------------------------------|-------------|---------|---------|--------------|-------------------------------------------------------------------------------|---------------|---------|---------|---------------------------------------------------------------------------------------------------------|---------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force                  |             |         |         |              |                                                                               |               |         |         |                                                                                                         | Date: February 2016 |                  |            |
| Appropriation/Budget Activity<br>3600 / 7                                     |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise |               |         |         | Project (Number/Name)<br>675183 / Common Development (Airborne SIGINT Development - Common Development) |                     |                  |            |
| COST (\$ in Millions)                                                         | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO                                                                   | FY 2017 Total | FY 2018 | FY 2019 | FY 2020                                                                                                 | FY 2021             | Cost To Complete | Total Cost |
| 675183: Common Development (Airborne SIGINT Development - Common Development) | -           | 37.711  | 60.811  | 38.779       | 0.000                                                                         | 38.779        | 54.430  | 55.841  | 56.480                                                                                                  | 55.982              | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                    | -           | -       | -       | -            | -                                                                             | -             | -       | -       | -                                                                                                       | -                   |                  |            |

**Note**

(U) In FY 2016, PE 0304260F, Airborne SIGINT Enterprise, Project 675181, High Altitude SIGINT Development - High Altitude efforts were transferred to PE 0304260F, Airborne SIGINT Enterprise, Project 675183, Common Development (Airborne SIGINT Development - Common Development) in order to simplify contracts as there will be only one High Altitude project going forward.

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

(U) This project supports design studies, engineering analysis, non-recurring engineering, program management administration and other efforts associated with the insertion of new capabilities integrated into ASIP and other sensors and their associated air and ground components that will be used on/by more than one platform. The common development SIGINT project also supports development of new sensors capabilities, normalization of quick reaction capabilities, and identifies suitable replacements for components affected by diminishing manufacturing sources. New capabilities are developed by separate projects. This project also supports the development of projects common to the Airborne SIGINT Enterprise (ASE) Program Element (PE) overall to include, but not limited to: the Air Force SIGINT Architecture (AFSA) maintenance, modeling and simulation efforts, and NATO SIGINT efforts.

(U) Development supports Airborne Signals Intelligence Payload (ASIP) high altitude system upgrades. The ASIP sensor is designed to be a common SIGINT system that will allow for for maximum coverage of the electromagnetic spectrum through the use of an integrated high and low band system.

(U) Capability improvements will be inserted into the ASIP sensor through individual development efforts that exploit signals of interest identified as service priorities by the Air Force SIGINT Capabilities Working Group (SCWG). This project provides the warfighter near term increased combat capability. Enhancements are implemented as soon as technology and risk achieve satisfactory levels. Compatability improvements will be inserted into the ASIP through individual development efforts that exploit signals of interest identified as Service priorities by the USAF SCWG. Sensors will be integrated and tested on the various platforms as funding permits.

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

|                                                                                                                                                                                                 |                |                |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
|                                                                                                                                                                                                 | <b>FY 2015</b> | <b>FY 2016</b> | <b>FY 2017</b> |
| <b>Title:</b> SIGINT Development                                                                                                                                                                | 37.711         | 60.811         | 38.779         |
| <b>Description:</b> Develop and test a common SIGINT system for multiple SIGINT platforms including ASIP incremental upgrades using an open system architecture to the maximum extent possible. |                |                |                |
| <b>FY 2015 Accomplishments:</b>                                                                                                                                                                 |                |                |                |

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|                                                                         |                                                                                      |                                                                                                                |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force |                                                                                      | <b>Date:</b> February 2016                                                                                     |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                        | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise | <b>Project (Number/Name)</b><br>675183 / Common Development (Airborne SIGINT Development - Common Development) |

| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>FY 2015</b> | <b>FY 2016</b> | <b>FY 2017</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
| <ul style="list-style-type: none"> <li>- Continued new signals capabilities and enhancements for the ASIP Family of Systems (FoS)</li> <li>- Continued integration activities and incorporate upgrades as appropriate - Details are classified.</li> </ul> <p><b>FY 2016 Plans:</b></p> <ul style="list-style-type: none"> <li>- Continues new signals capabilities and enhancements for the ASIP FoS</li> <li>- Continues integration activities and incorporate upgrades as appropriate. Details are classified.</li> </ul> <p><b>FY 2017 Plans:</b></p> <ul style="list-style-type: none"> <li>- Will continue new signals capabilities and enhancements for the ASIP FoS.</li> <li>- Will continue integration activities and incorporate upgrades as appropriate. Details are classified.</li> </ul> |                |                |                |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 37.711         | 60.811         | 38.779         |

## C. Other Program Funding Summary (\$ in Millions)

| <u>Line Item</u>                              | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u><br><u>Base</u> | <u>FY 2017</u><br><u>OCO</u> | <u>FY 2017</u><br><u>Total</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>Cost To</u><br><u>Complete</u> | <u>Total Cost</u> |
|-----------------------------------------------|----------------|----------------|-------------------------------|------------------------------|--------------------------------|----------------|----------------|----------------|----------------|-----------------------------------|-------------------|
| • APAF: BA05 Line Item<br># HAWK00: RQ-4 Mods | 21.354         | 50.022         | 32.045                        | 0.000                        | 32.045                         | 55.305         | 81.078         | 40.029         | 155.662        | Continuing                        | Continuing        |

## Remarks

(U) Not all funds are associated with SIGINT.

## D. Acquisition Strategy

(U) Signals Intelligence capabilities will be developed and integrated onto various platforms using an incremental acquisition approach. In response to requirements as validated by the SIGINT Capabilities Working Group, an incremental acquisition strategy plan will be executed, contracting with appropriate vendor(s) to deliver capability while encouraging competition where possible.

## 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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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force |                        |                                 |             |         |            |                                                                               |            |              |            |                                                                                                         |            | Date: February 2016 |                  |            |                          |
|-------------------------------------------------------------|------------------------|---------------------------------|-------------|---------|------------|-------------------------------------------------------------------------------|------------|--------------|------------|---------------------------------------------------------------------------------------------------------|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity<br>3600 / 7                   |                        |                                 |             |         |            | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise |            |              |            | Project (Number/Name)<br>675183 / Common Development (Airborne SIGINT Development - Common Development) |            |                     |                  |            |                          |
| Product Development (\$ in Millions)                        |                        |                                 |             | FY 2015 |            | FY 2016                                                                       |            | FY 2017 Base |            | FY 2017 OCO                                                                                             |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location  | Prior Years | Cost    | Award Date | Cost                                                                          | Award Date | Cost         | Award Date | Cost                                                                                                    | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| ASIP Upgrades Development                                   | SS/CPIF                | Northrop Grumman : San Jose, CA | -           | 12.928  | Dec 2014   | 0.864                                                                         | Oct 2016   | 0.000        |            | 0.000                                                                                                   |            | 0.000               | 0.000            | 13.792     | -                        |
| ASIP Global Hawk Increment 1                                | SS/CPFF                | Northrop Grumman : San Jose, CA | -           | 4.920   | Jun 2015   | 20.612                                                                        | Nov 2015   | 5.277        | Nov 2016   | 0.000                                                                                                   |            | 5.277               | Continuing       | Continuing | -                        |
| ASIP Increment 2 - Build A - Pre EMD                        | SS/CPIF                | Northrop Grumman : San Jose, CA | -           | 3.397   | Jul 2015   | 0.000                                                                         |            | 0.000        |            | 0.000                                                                                                   |            | 0.000               | 0.000            | 3.397      | -                        |
| ASIP Increment 2 - Build A                                  | SS/TBD                 | Northrop Grumman : San Jose, CA | -           | 5.427   | Feb 2016   | 29.743                                                                        | Feb 2016   | 22.764       | Nov 2016   | 0.000                                                                                                   |            | 22.764              | Continuing       | Continuing | -                        |
| ASIP Increment 2 - Build B - Pre EMD                        | Various                | Various : TBD                   | -           | 0.000   |            | 3.000                                                                         | Jul 2016   | 0.000        |            | 0.000                                                                                                   |            | 0.000               | Continuing       | Continuing | -                        |
| Various SIGINT Efforts                                      | Various                | Various : TBD                   | -           | 3.493   | Jan 2015   | 3.700                                                                         | Nov 2015   | 4.000        | Nov 2016   | 0.000                                                                                                   |            | 4.000               | Continuing       | Continuing | -                        |
| Subtotal                                                    |                        |                                 | -           | 30.165  |            | 57.919                                                                        |            | 32.041       |            | 0.000                                                                                                   |            | 32.041              | -                | -          | -                        |
| Support (\$ in Millions)                                    |                        |                                 |             | FY 2015 |            | FY 2016                                                                       |            | FY 2017 Base |            | FY 2017 OCO                                                                                             |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location  | Prior Years | Cost    | Award Date | Cost                                                                          | Award Date | Cost         | Award Date | Cost                                                                                                    | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| (U) Various Integration Efforts, & Flight Test (U-2)        | Various                | Various : TBD                   | -           | 5.357   | Jul 2015   | 0.500                                                                         | Mar 2016   | 0.000        |            | 0.000                                                                                                   |            | 0.000               | 0.000            | 5.857      | -                        |
| Various Integration Efforts, & Flight Test (GH)             | Various                | Various : TBD                   | -           | 0.026   | Mar 2015   | 0.129                                                                         | Jan 2016   | 4.724        | Jan 2017   | 0.000                                                                                                   |            | 4.724               | Continuing       | Continuing | -                        |
| Subtotal                                                    |                        |                                 | -           | 5.383   |            | 0.629                                                                         |            | 4.724        |            | 0.000                                                                                                   |            | 4.724               | -                | -          | -                        |
| Test and Evaluation (\$ in Millions)                        |                        |                                 |             | FY 2015 |            | FY 2016                                                                       |            | FY 2017 Base |            | FY 2017 OCO                                                                                             |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location  | Prior Years | Cost    | Award Date | Cost                                                                          | Award Date | Cost         | Award Date | Cost                                                                                                    | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Test and Evaluation Support                                 | Various                | Various : TBD                   | -           | 0.172   | Jul 2015   | 0.096                                                                         | Nov 2016   | 0.000        |            | 0.000                                                                                                   |            | 0.000               | Continuing       | Continuing | -                        |
| Subtotal                                                    |                        |                                 | -           | 0.172   |            | 0.096                                                                         |            | 0.000        |            | 0.000                                                                                                   |            | 0.000               | -                | -          | -                        |

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|------------------------------------------------------------------------|--|--|--|--|--|--------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------------------------------------------|--|----------------------------|--|--|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2017 Air Force</b> |  |  |  |  |  |                                                                                      |  |  |  |                                                                                                                |  | <b>Date:</b> February 2016 |  |  |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                       |  |  |  |  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise |  |  |  | <b>Project (Number/Name)</b><br>675183 / Common Development (Airborne SIGINT Development - Common Development) |  |                            |  |  |

  

| <b>Management Services (\$ in Millions)</b> |                                   |                                           |                    | <b>FY 2015</b> |                   | <b>FY 2016</b> |                   | <b>FY 2017 Base</b> |                   | <b>FY 2017 OCO</b> |                   | <b>FY 2017 Total</b> |                         |                   |                                 |
|---------------------------------------------|-----------------------------------|-------------------------------------------|--------------------|----------------|-------------------|----------------|-------------------|---------------------|-------------------|--------------------|-------------------|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Cost Category Item</b>                   | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>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> |
| PMA                                         | Various                           | Various : Dayton, OH                      | -                  | 1.991          | Oct 2014          | 2.167          | Nov 2015          | 2.014               | Nov 2016          | 0.000              |                   | 2.014                | Continuing              | Continuing        | -                               |
| <b>Subtotal</b>                             |                                   |                                           | -                  | 1.991          |                   | 2.167          |                   | 2.014               |                   | 0.000              |                   | 2.014                | -                       | -                 | -                               |

  

|                            | <b>Prior Years</b> | <b>FY 2015</b> |  | <b>FY 2016</b> |  | <b>FY 2017 Base</b> |  | <b>FY 2017 OCO</b> |  | <b>FY 2017 Total</b> | <b>Cost To Complete</b> | <b>Total Cost</b> | <b>Target Value of Contract</b> |
|----------------------------|--------------------|----------------|--|----------------|--|---------------------|--|--------------------|--|----------------------|-------------------------|-------------------|---------------------------------|
| <b>Project Cost Totals</b> | -                  | 37.711         |  | 60.811         |  | 38.779              |  | 0.000              |  | 38.779               | -                       | -                 | -                               |

  

**Remarks**

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|                                                                   |  |                                                                                      |                            |                                                                                                                |  |
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| <b>Exhibit R-4, RDT&amp;E Schedule Profile:</b> PB 2017 Air Force |  |                                                                                      | <b>Date:</b> February 2016 |                                                                                                                |  |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise |                            | <b>Project (Number/Name)</b><br>675183 / Common Development (Airborne SIGINT Development - Common Development) |  |

|                                                   | FY 2015 |   |   |   | FY 2016 |   |   |   | FY 2017 |   |   |   | FY 2018 |   |   |   | FY 2019 |   |   |   | FY 2020 |   |   |   | FY 2021 |   |   |   |
|---------------------------------------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|                                                   | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |
| ASIP Upgrades Increment 1 - U-2 Field Release 3.2 |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ASIP Upgrades Increment 1 - Global Hawk           |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ASIP Upgrades Increment 2 - Build A - Pre EMD     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ASIP Upgrades Increment 2 - Build A               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ASIP Upgrades Increment 2 - Build B - Pre EMD     |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| ASIP Upgrades Increment 2 - Build B               |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Air Force |                                                                                      | <b>Date:</b> February 2016                                                                                     |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise | <b>Project (Number/Name)</b><br>675183 / Common Development (Airborne SIGINT Development - Common Development) |

Schedule Details

| Events                                            | Start   |      | End     |      |
|---------------------------------------------------|---------|------|---------|------|
|                                                   | Quarter | Year | Quarter | Year |
| ASIP Upgrades Increment 1 - U-2 Field Release 3.2 | 1       | 2015 | 3       | 2016 |
| ASIP Upgrades Increment 1 - Global Hawk           | 3       | 2015 | 4       | 2017 |
| ASIP Upgrades Increment 2 - Build A - Pre EMD     | 1       | 2015 | 4       | 2016 |
| ASIP Upgrades Increment 2 - Build A               | 2       | 2016 | 3       | 2018 |
| ASIP Upgrades Increment 2 - Build B - Pre EMD     | 4       | 2016 | 1       | 2017 |
| ASIP Upgrades Increment 2 - Build B               | 3       | 2018 | 4       | 2021 |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|---------|--------------|-------------------------------------------------------------------------------|---------------|---------|---------|----------------------------------------------------------------|---------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |         |         |              |                                                                               |               |         |         |                                                                | Date: February 2016 |                  |            |
| Appropriation/Budget Activity<br>3600 / 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise |               |         |         | Project (Number/Name)<br>675185 / Non-Traditional SIGINT (NTS) |                     |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Prior Years | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO                                                                   | FY 2017 Total | FY 2018 | FY 2019 | FY 2020                                                        | FY 2021             | Cost To Complete | Total Cost |
| 675185: Non-Traditional SIGINT (NTS)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -           | 12.040  | 7.188   | 8.875        | 0.000                                                                         | 8.875         | 10.011  | 11.106  | 14.335                                                         | 14.591              | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -           | -       | -       | -            | -                                                                             | -             | -       | -       | -                                                              | -                   |                  |            |
| Note<br>(U) Project 675185, Non-Traditional SIGINT (NTS) changed from COMPASS BRIGHT. Non-Traditional SIGINT (NTS) includes both COMPASS BRIGHT and Operational Reconnaissance Projects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |         |         |              |                                                                               |               |         |         |                                                                |                     |                  |            |
| A. Mission Description and Budget Item Justification<br>(U) COMPASS BRIGHT develops, demonstrates, and rapidly transitions advanced Air Force specific Signals Intelligence (SIGINT) capabilities against emerging and future target signals of interest. This program pursues SIGINT technologies for program transition, to include Communications Intelligence (COMINT), Electronic Intelligence (ELINT), Audio, Analytics, Special Signals of Interest, and Radio Frequency (RF) Measurement and Signature Intelligence (MASINT). The COMPASS BRIGHT program objective is to develop technologies for application in SIGINT and MASINT systems or subsystems. Acquisition and production of these developed technologies will occur within the appropriate platform programs. COMPASS BRIGHT projects are selected through a data call process, whereby the USAF evaluates proposals from the laboratories and industry partners, to select those projects that are most promising. This program includes total government and contractor costs for these projects.<br><br>(U) Operational Reconnaissance (Ops Recce) is part of the ELINT initiative to improve overall USAF ISR capability through development and use of sensor data from non-ISR platforms and innovative use of sensors. This program pursues Ops Recce capabilities for transition through development, testing, demonstration and implementation efforts across all platforms. The Ops Recce program objective is to provide increased battlespace awareness through the use of sensors/platforms to achieve effects beyond what those sensor/platforms were originally designed.<br><br>(U) The program office authority extends to accomplishment of out-of-cycle NTS efforts. These tasks may be filtered through the SCWG outside the normal vetting process to expedite acquisition of high-end capabilities for the warfighter. |             |         |         |              |                                                                               |               |         |         |                                                                |                     |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |         |         |              |                                                                               |               |         |         | FY 2015                                                        | FY 2016             | FY 2017          |            |
| Title: SIGINT Tech Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |         |         |              |                                                                               |               |         |         | 12.040                                                         | 7.188               | 8.875            |            |
| Description: Develops projects in the Signals Intelligence and Radio Frequency Measurement and Signature Intelligence areas for transition to the RC-135 fleet, other ISR platforms and Operational Reconnaissance (Ops Recce).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |         |         |              |                                                                               |               |         |         |                                                                |                     |                  |            |
| FY 2015 Accomplishments:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |         |         |              |                                                                               |               |         |         |                                                                |                     |                  |            |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------------------|--------------------------------------------------------------------------------------|--------------------------|----------------|----------------|-----------------------------------------------------------------------|----------------|-----------------------------|-------------------|----------------|
| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                |                         |                                                                                      |                          |                |                |                                                                       |                | <b>Date:</b> February 2016  |                   |                |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                |                         | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise |                          |                |                | <b>Project (Number/Name)</b><br>675185 / Non-Traditional SIGINT (NTS) |                |                             |                   |                |
| <b>B. Accomplishments/Planned Programs (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                |                         |                                                                                      |                          |                |                |                                                                       |                | <b>FY 2015</b>              | <b>FY 2016</b>    | <b>FY 2017</b> |
| - Continued/completed various SIGINT projects to include enhanced ELINT exploitation, COMINT, Audio exploitation, Operational Reconnaissance (Ops Recce), Signals of interest prosecution, and Non-Traditional ISR (NTISR).<br><br><b>FY 2016 Plans:</b><br>- Initiate, continue, and/or complete various SIGINT projects to include enhanced ELINT exploitation, COMINT, Audio exploitation, Operational Reconnaissance (Ops Recce), Signals of interest prosecution, and NTISR.<br><br><b>FY 2017 Plans:</b><br>- Will initiate, continue, and complete various SIGINT projects to include enhanced ELINT exploitation, COMINT, Audio exploitation, Operational Reconnaissance (Ops Recce), Signals of interest prosecution, and NTISR. |                |                |                         |                                                                                      |                          |                |                |                                                                       |                |                             |                   |                |
| <b>Accomplishments/Planned Programs Subtotals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                |                         |                                                                                      |                          |                |                |                                                                       |                | 12.040                      | 7.188             | 8.875          |
| <b>C. Other Program Funding Summary (\$ in Millions)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                |                         |                                                                                      |                          |                |                |                                                                       |                |                             |                   |                |
| <b>Line Item</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>FY 2015</b> | <b>FY 2016</b> | <b>FY 2017<br/>Base</b> | <b>FY 2017<br/>OCO</b>                                                               | <b>FY 2017<br/>Total</b> | <b>FY 2018</b> | <b>FY 2019</b> | <b>FY 2020</b>                                                        | <b>FY 2021</b> | <b>Cost To<br/>Complete</b> | <b>Total Cost</b> |                |
| • APAF: BA05: Line Item #DARP01: RC-135                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 163.346        | 165.715        | 211.438                 | 0.000                                                                                | 211.438                  | 201.237        | 184.779        | 188.189                                                               | 191.658        | Continuing                  | Continuing        |                |
| • APAF: BA05: Line Item #HAWK00: RQ-4 Mods                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 21.354         | 50.022         | 32.045                  | 0.000                                                                                | 32.045                   | 55.305         | 81.078         | 40.029                                                                | 155.662        | Continuing                  | Continuing        |                |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |                         |                                                                                      |                          |                |                |                                                                       |                |                             |                   |                |
| (U) Not all RC-135 and RQ-4 funds are associated with SIGINT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                |                         |                                                                                      |                          |                |                |                                                                       |                |                             |                   |                |
| <b>D. Acquisition Strategy</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                |                         |                                                                                      |                          |                |                |                                                                       |                |                             |                   |                |
| (U) AFLCMC/WI will execute COMPASS BRIGHT and NTS efforts through technology development and demonstration contracts which leverage existing laboratory relationships and other existing contractual vehicles, with future development projects emphasizing full and open competition.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                |                         |                                                                                      |                          |                |                |                                                                       |                |                             |                   |                |
| <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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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force |                        |                                |             |         |            |                                          |            |              |            |                                       |            | Date: February 2016 |                  |            |                          |
|-------------------------------------------------------------|------------------------|--------------------------------|-------------|---------|------------|------------------------------------------|------------|--------------|------------|---------------------------------------|------------|---------------------|------------------|------------|--------------------------|
| Appropriation/Budget Activity                               |                        |                                |             |         |            | R-1 Program Element (Number/Name)        |            |              |            | Project (Number/Name)                 |            |                     |                  |            |                          |
| 3600 / 7                                                    |                        |                                |             |         |            | PE 0304260F / Airborne SIGINT Enterprise |            |              |            | 675185 / Non-Traditional SIGINT (NTS) |            |                     |                  |            |                          |
| Product Development (\$ in Millions)                        |                        |                                |             | FY 2015 |            | FY 2016                                  |            | FY 2017 Base |            | FY 2017 OCO                           |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                     | Award Date | Cost         | Award Date | Cost                                  | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Non Traditional SIGINT                                      | Various                | Multiple : Various, V          | -           | 11.189  | Jan 2015   | 6.118                                    | Jan 2016   | 7.630        | Jan 2017   | 0.000                                 |            | 7.630               | Continuing       | Continuing | -                        |
| Subtotal                                                    |                        |                                | -           | 11.189  |            | 6.118                                    |            | 7.630        |            | 0.000                                 |            | 7.630               | -                | -          | -                        |
| Support (\$ in Millions)                                    |                        |                                |             | FY 2015 |            | FY 2016                                  |            | FY 2017 Base |            | FY 2017 OCO                           |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                     | Award Date | Cost         | Award Date | Cost                                  | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Subtotal                                                    |                        |                                | -           | -       |            | -                                        |            | -            |            | -                                     |            | -                   | -                | -          | -                        |
| Test and Evaluation (\$ in Millions)                        |                        |                                |             | FY 2015 |            | FY 2016                                  |            | FY 2017 Base |            | FY 2017 OCO                           |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                     | Award Date | Cost         | Award Date | Cost                                  | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Subtotal                                                    |                        |                                | -           | -       |            | -                                        |            | -            |            | -                                     |            | -                   | -                | -          | -                        |
| Management Services (\$ in Millions)                        |                        |                                |             | FY 2015 |            | FY 2016                                  |            | FY 2017 Base |            | FY 2017 OCO                           |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                          | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                     | Award Date | Cost         | Award Date | Cost                                  | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| PMA                                                         | Various                | Various : Dayton, OH           | -           | 0.851   | Oct 2014   | 1.070                                    | Oct 2015   | 1.245        | Oct 2016   | 0.000                                 |            | 1.245               | Continuing       | Continuing | -                        |
| Subtotal                                                    |                        |                                | -           | 0.851   |            | 1.070                                    |            | 1.245        |            | 0.000                                 |            | 1.245               | -                | -          | -                        |
|                                                             |                        |                                | Prior Years | FY 2015 |            | FY 2016                                  |            | FY 2017 Base |            | FY 2017 OCO                           |            | FY 2017 Total       | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals                                         |                        |                                | -           | 12.040  |            | 7.188                                    |            | 8.875        |            | 0.000                                 |            | 8.875               | -                | -          | -                        |
| Remarks                                                     |                        |                                |             |         |            |                                          |            |              |            |                                       |            |                     |                  |            |                          |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force |  |  |  |  |                                          |  |  |  |  | Date: February 2016                   |  |  |  |
| Appropriation/Budget Activity                          |  |  |  |  | R-1 Program Element (Number/Name)        |  |  |  |  | Project (Number/Name)                 |  |  |  |
| 3600 / 7                                               |  |  |  |  | PE 0304260F / Airborne SIGINT Enterprise |  |  |  |  | 675185 / Non-Traditional SIGINT (NTS) |  |  |  |

|                     | FY 2015 |   |   |   | FY 2016 |   |   |   | FY 2017 |   |   |   | FY 2018 |   |   |   | FY 2019 |   |   |   | FY 2020 |   |   |   | FY 2021 |   |   |   |
|---------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|                     | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |
| SIGINT Technologies |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force |                                                                               | Date: February 2016                                            |
| Appropriation/Budget Activity<br>3600 / 7               | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise | Project (Number/Name)<br>675185 / Non-Traditional SIGINT (NTS) |

Schedule Details

| Events              | Start   |      | End     |      |
|---------------------|---------|------|---------|------|
|                     | Quarter | Year | Quarter | Year |
| SIGINT Technologies | 1       | 2015 | 4       | 2021 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2017 Air Force                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |         |              |              |                                                                               |               |         |         |                                                                                                      | Date: February 2016 |                  |            |
| Appropriation/Budget Activity<br>3600 / 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         |              |              | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise |               |         |         | Project (Number/Name)<br>675186 / Special Programs (Airborne SIGINT Development - Special Platforms) |                     |                  |            |
| COST (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Prior Years | FY 2015 | FY 2016      | FY 2017 Base | FY 2017 OCO                                                                   | FY 2017 Total | FY 2018 | FY 2019 | FY 2020                                                                                              | FY 2021             | Cost To Complete | Total Cost |
| 675186: Special Programs (Airborne SIGINT Development - Special Platforms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -           | 2.222   | 2.930        | 3.352        | 0.000                                                                         | 3.352         | 4.623   | 4.948   | 7.422                                                                                                | 7.554               | Continuing       | Continuing |
| Quantity of RDT&E Articles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -           | -       | -            | -            | -                                                                             | -             | -       | -       | -                                                                                                    | -                   |                  |            |
| A. Mission Description and Budget Item Justification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |              |              |                                                                               |               |         |         |                                                                                                      |                     |                  |            |
| (U) This project supports special Signals Intelligence (SIGINT) studies as well as the development and integration of advanced SIGINT capabilities for special programs including, but not limited to: Quick Reaction Capability (QRC) sensors, the Processing, Exploitation, and Dissemination (PED) associated with these systems, and other efforts approved by the USAF SIGINT Capabilities Working Group (SCWG). Development efforts will include, but are not limited to: new signal sets, antenna improvements, sensitivity upgrades, and data distribution upgrades. This project provides the warfighter with near term combat capabilities with increased capability improvements accomplished as technologies and risks achieve satisfactory levels. Sensors will be integrated and tested on various platforms including the MQ-1B/ MQ-9A Remotely Piloted Aircraft (RPA) as funding permits. |             |         |              |              |                                                                               |               |         |         |                                                                                                      |                     |                  |            |
| B. Accomplishments/Planned Programs (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |         |              |              |                                                                               |               |         |         | FY 2015                                                                                              | FY 2016             | FY 2017          |            |
| Title: SIGINT Development                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |         |              |              |                                                                               |               |         |         | 2.222                                                                                                | 2.930               | 3.352            |            |
| Description: Develop, update, and test SIGINT capabilities for QRC and normalized special programs SIGINT projects.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |         |              |              |                                                                               |               |         |         |                                                                                                      |                     |                  |            |
| FY 2015 Accomplishments:<br>- Modernized systems already integrated on various aircraft including the MQ-1B/9B RPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |              |              |                                                                               |               |         |         |                                                                                                      |                     |                  |            |
| FY 2016 Plans:<br>- Continues to modernize SIGINT systems on the MQ-1B/9A RPA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |         |              |              |                                                                               |               |         |         |                                                                                                      |                     |                  |            |
| FY 2017 Plans:<br>- Will continue to modernize SIGINT systems on the MQ-1B/9A RPA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |         |              |              |                                                                               |               |         |         |                                                                                                      |                     |                  |            |
| Accomplishments/Planned Programs Subtotals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |         |              |              |                                                                               |               |         |         | 2.222                                                                                                | 2.930               | 3.352            |            |
| C. Other Program Funding Summary (\$ in Millions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |             |         |              |              |                                                                               |               |         |         |                                                                                                      |                     |                  |            |
| Line Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FY 2015     | FY 2016 | FY 2017 Base | FY 2017 OCO  | FY 2017 Total                                                                 | FY 2018       | FY 2019 | FY 2020 | FY 2021                                                                                              | Cost To Complete    | Total Cost       |            |
| • APAF: BA05: Line Item #PRDTB2: MQ-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 155.445     | 184.051 | 141.929      | 0.000        | 141.929                                                                       | 202.861       | 236.691 | 229.439 | 240.439                                                                                              | Continuing          | Continuing       |            |

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| <b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2017 Air Force                                                                                                                                                                                                 |                |                |                |                                                                                      |                |                |                |                                                                                                             |                | <b>Date:</b> February 2016 |                   |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                                                                                                                                                                                                                        |                |                |                | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise |                |                |                | <b>Project (Number/Name)</b><br>675186 / Special Programs (Airborne SIGINT Development - Special Platforms) |                |                            |                   |
| <b>C. Other Program Funding Summary (\$ in Millions)</b>                                                                                                                                                                                                                |                |                |                |                                                                                      |                |                |                |                                                                                                             |                |                            |                   |
|                                                                                                                                                                                                                                                                         |                |                | <u>FY 2017</u> | <u>FY 2017</u>                                                                       | <u>FY 2017</u> |                |                |                                                                                                             |                | <u>Cost To</u>             |                   |
| <u>Line Item</u>                                                                                                                                                                                                                                                        | <u>FY 2015</u> | <u>FY 2016</u> | <u>Base</u>    | <u>OCO</u>                                                                           | <u>Total</u>   | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u>                                                                                              | <u>FY 2021</u> | <u>Complete</u>            | <u>Total Cost</u> |
| <b>Remarks</b>                                                                                                                                                                                                                                                          |                |                |                |                                                                                      |                |                |                |                                                                                                             |                |                            |                   |
| (U) Not all MQ-9 funds are associated with this Project.                                                                                                                                                                                                                |                |                |                |                                                                                      |                |                |                |                                                                                                             |                |                            |                   |
| <b>D. Acquisition Strategy</b>                                                                                                                                                                                                                                          |                |                |                |                                                                                      |                |                |                |                                                                                                             |                |                            |                   |
| (U) SIGINT capabilities will be integrated to various classified platforms using an evolutionary acquisition approach. Capabilities and prototypes will be developed by Other Government Agencies (OGA) and transitioned to select vendors as production needs develop. |                |                |                |                                                                                      |                |                |                |                                                                                                             |                |                            |                   |
| <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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|-----------------------------------------------------------------|------------------------|--------------------------------|-------------|---------|------------|-------------------------------------------------------------------------------|------------|--------------|------------|------------------------------------------------------------------------------------------------------|------------|---------------------|------------------|------------|--------------------------|
| Exhibit R-3, RDT&E Project Cost Analysis: PB 2017 Air Force     |                        |                                |             |         |            |                                                                               |            |              |            |                                                                                                      |            | Date: February 2016 |                  |            |                          |
| Appropriation/Budget Activity<br>3600 / 7                       |                        |                                |             |         |            | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise |            |              |            | Project (Number/Name)<br>675186 / Special Programs (Airborne SIGINT Development - Special Platforms) |            |                     |                  |            |                          |
| Product Development (\$ in Millions)                            |                        |                                |             | FY 2015 |            | FY 2016                                                                       |            | FY 2017 Base |            | FY 2017 OCO                                                                                          |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                              | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                          | Award Date | Cost         | Award Date | Cost                                                                                                 | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| MQ-1/9 SIGINT Upgrades                                          | Various                | Various : Various              | -           | 1.422   | Jan 2015   | 0.700                                                                         | Jan 2016   | 2.581        | Jan 2017   | 0.000                                                                                                |            | 2.581               | Continuing       | Continuing | -                        |
| Subtotal                                                        |                        |                                | -           | 1.422   |            | 0.700                                                                         |            | 2.581        |            | 0.000                                                                                                |            | 2.581               | -                | -          | -                        |
| Remarks<br>Upgrades the QRC sensors already on the MQ-1/9 fleet |                        |                                |             |         |            |                                                                               |            |              |            |                                                                                                      |            |                     |                  |            |                          |
| Support (\$ in Millions)                                        |                        |                                |             | FY 2015 |            | FY 2016                                                                       |            | FY 2017 Base |            | FY 2017 OCO                                                                                          |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                              | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                          | Award Date | Cost         | Award Date | Cost                                                                                                 | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Subtotal                                                        |                        |                                | -           | -       |            | -                                                                             |            | -            |            | -                                                                                                    |            | -                   | -                | -          | -                        |
| Test and Evaluation (\$ in Millions)                            |                        |                                |             | FY 2015 |            | FY 2016                                                                       |            | FY 2017 Base |            | FY 2017 OCO                                                                                          |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                              | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                          | Award Date | Cost         | Award Date | Cost                                                                                                 | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Flight Test                                                     | Various                | Various : Various              | -           | 0.800   | Jan 2015   | 2.230                                                                         | Jan 2016   | 0.771        | Jan 2017   | 0.000                                                                                                |            | 0.771               | Continuing       | Continuing | -                        |
| Subtotal                                                        |                        |                                | -           | 0.800   |            | 2.230                                                                         |            | 0.771        |            | 0.000                                                                                                |            | 0.771               | -                | -          | -                        |
| Management Services (\$ in Millions)                            |                        |                                |             | FY 2015 |            | FY 2016                                                                       |            | FY 2017 Base |            | FY 2017 OCO                                                                                          |            | FY 2017 Total       |                  |            |                          |
| Cost Category Item                                              | Contract Method & Type | Performing Activity & Location | Prior Years | Cost    | Award Date | Cost                                                                          | Award Date | Cost         | Award Date | Cost                                                                                                 | Award Date | Cost                | Cost To Complete | Total Cost | Target Value of Contract |
| Subtotal                                                        |                        |                                | -           | -       |            | -                                                                             |            | -            |            | -                                                                                                    |            | -                   | -                | -          | -                        |
|                                                                 |                        |                                | Prior Years | FY 2015 |            | FY 2016                                                                       |            | FY 2017 Base |            | FY 2017 OCO                                                                                          |            | FY 2017 Total       | Cost To Complete | Total Cost | Target Value of Contract |
| Project Cost Totals                                             |                        |                                | -           | 2.222   |            | 2.930                                                                         |            | 3.352        |            | 0.000                                                                                                |            | 3.352               | -                | -          | -                        |
| Remarks                                                         |                        |                                |             |         |            |                                                                               |            |              |            |                                                                                                      |            |                     |                  |            |                          |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2017 Air Force |                                                                               |                                                                                                         | Date: February 2016 |
| Appropriation/Budget Activity<br>3600 / 7              | R-1 Program Element (Number/Name)<br>PE 0304260F / Airborne SIGINT Enterprise | Project (Number/Name)<br>675186 / Special Programs (Airborne<br>SIGINT Development - Special Platforms) |                     |

|                               | FY 2015 |   |   |   | FY 2016 |   |   |   | FY 2017 |   |   |   | FY 2018 |   |   |   | FY 2019 |   |   |   | FY 2020 |   |   |   | FY 2021 |   |   |   |
|-------------------------------|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
|                               | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 | 1       | 2 | 3 | 4 |
| MQ-1/9 Sensor 1 Modernization |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| MQ-1/9 Sensor 2 Modernization |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |
| MQ-1/9 Sensor Upgrades        |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |         |   |   |   |

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| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2017 Air Force |                                                                                      |                                                                                                             | <b>Date:</b> February 2016 |
| <b>Appropriation/Budget Activity</b><br>3600 / 7                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0304260F / Airborne SIGINT Enterprise | <b>Project (Number/Name)</b><br>675186 / Special Programs (Airborne SIGINT Development - Special Platforms) |                            |

Schedule Details

| Events                        | Start   |      | End     |      |
|-------------------------------|---------|------|---------|------|
|                               | Quarter | Year | Quarter | Year |
| MQ-1/9 Sensor 1 Modernization | 1       | 2015 | 4       | 2021 |
| MQ-1/9 Sensor 2 Modernization | 1       | 2015 | 4       | 2021 |
| MQ-1/9 Sensor Upgrades        | 1       | 2016 | 4       | 2021 |