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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Air Force **Date:** February 2018

| | |
|---|---|
| Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development | R-1 Program Element (Number/Name) PE 0301401F I Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness |
|---|---|

| COST (\$ in Millions) | Prior Years | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total | FY 2020 | FY 2021 | FY 2022 | FY 2023 | Cost To Complete | Total Cost |
|---|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element | - | 0.000 | 3.721 | 6.633 | 0.000 | 6.633 | 3.575 | 2.908 | 3.185 | 3.243 | Continuing | Continuing |
| 67A051: Space Superiority - Advanced Intelligence Systems | - | 0.000 | 3.721 | 6.633 | 0.000 | 6.633 | 3.575 | 2.908 | 3.185 | 3.243 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

This program, BA 07 PE 0301401F, project 67A051, Cross Domain Tactical OPIR Processing, is a new start.

Air Force Space and Cyber Non-Traditional Intelligence, Surveillance & Reconnaissance (ISR) for Battlespace Awareness PE 0301401F - P-40A
 Cross Domain Overhead Persistent Infrared (OPIR): Cross Domain Tactical OPIR Processing delivers a mechanism providing reach-back support for battlespace awareness functions and manages the timely transfer of newly developed tools to operational users.

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.

| B. Program Change Summary (\$ in Millions) | FY 2017 | FY 2018 | FY 2019 Base | FY 2019 OCO | FY 2019 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 0.000 | 3.721 | 6.683 | 0.000 | 6.683 |
| Current President's Budget | 0.000 | 3.721 | 6.633 | 0.000 | 6.633 |
| Total Adjustments | 0.000 | 0.000 | -0.050 | 0.000 | -0.050 |
| • 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 | 0.000 | 0.000 | | | |
| • SBIR/STTR Transfer | 0.000 | 0.000 | | | |
| • Other Adjustments | 0.000 | 0.000 | -0.050 | 0.000 | -0.050 |

C. Accomplishments/Planned Programs (\$ in Millions)

| | FY 2017 | FY 2018 | FY 2019 |
|---------------------------------|----------------|----------------|----------------|
| Title: Cross Domain OPIR | - | 2.400 | 1.350 |

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| C. Accomplishments/Planned Programs (\$ in Millions) | | FY 2017 | FY 2018 | FY 2019 |
| Description: Develop Cross Domain OPIR that delivers a mechanism to provide reach-back support for battlespace awareness functions and manages the timely transfer of newly developed tools to operational users. specifically by developing tools & tradecraft on a flexible architecture allowing easy integration. FY 2018 Plans: Develop tools & tradecraft on a flexible architecture that allows easy integration of new capabilities into air component operations by providing advanced "state of art" algorithms and tools for the warfighter. FY 2019 Plans: Continue development of tools & tradecraft on a flexible architecture that allows easy integration of new capabilities into air component operations by providing advanced "state of art" algorithms and tools for the warfighter. FY 2018 to FY 2019 Increase/Decrease Statement: Program decrease based on program requirements. | | | | |
| Title: TAC OPIR Processing Description: Develop tactical OPIR processing comprised of software development, controlled multi-level security interface that provides data access and processing services for a robust and flexible network architecture. FY 2018 Plans: Develop software for a controlled multi-level security interface. FY 2019 Plans: Develop software for a controlled multi-level security interface. FY 2018 to FY 2019 Increase/Decrease Statement: Program increased based on requirements. | | - | 1.321 | 5.283 |
| Accomplishments/Planned Programs Subtotals | | - | 3.721 | 6.633 |
| D. Other Program Funding Summary (\$ in Millions) | | | | |
| N/A | | | | |
| Remarks | | | | |
| E. Acquisition Strategy | | | | |
| All contracts funded in this program will be awarded using competitive procedures to the maximum extent possible. | | | | |

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| F. 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 2019 Air Force | | | | | | | | | | | | Date: February 2018 | | |
| Appropriation/Budget Activity 3600 / 7 | | | | | | R-1 Program Element (Number/Name) PE 0301401F / Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness | | | | Project (Number/Name) 67A051 / Space Superiority - Advanced Intelligence Systems | | | | |

| Product Development (\$ in Millions) | | | | FY 2017 | | FY 2018 | | FY 2019 Base | | FY 2019 OCO | | FY 2019 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 | |
| Cross Domain OPIR | C/CPFF | NASIC : Dayton, OH | - | 0.000 | | 2.400 | May 2018 | 1.350 | May 2019 | - | | 1.350 | Continuing | Continuing | - | |
| Tactical OPIR Processing | C/CPFF | NASIC : Dayton, OH | - | 0.000 | | 1.321 | May 2018 | 5.283 | May 2019 | - | | 5.283 | Continuing | Continuing | - | |
| Subtotal | | | - | 0.000 | | 3.721 | | 6.633 | | - | | 6.633 | Continuing | Continuing | N/A | |

| | | | Prior Years | FY 2017 | | FY 2018 | | FY 2019 Base | | FY 2019 OCO | | FY 2019 Total | | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|--|--|------------------------|----------------|--|----------------|--|-------------------------|--|------------------------|--|--------------------------|------------|-----------------------------|-----------------------|---|
| Project Cost Totals | | | - | 0.000 | | 3.721 | | 6.633 | | - | | 6.633 | Continuing | Continuing | N/A | |

Remarks

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|--|--|--|---------------------|--|--|
| Exhibit R-4, RDT&E Schedule Profile: PB 2019 Air Force | | | Date: February 2018 | | |
| Appropriation/Budget Activity 3600 / 7 | | R-1 Program Element (Number/Name) PE 0301401F / Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness | | | Project (Number/Name) 67A051 / Space Superiority - Advanced Intelligence Systems |

| | FY 2017 | | | | FY 2018 | | | | FY 2019 | | | | FY 2020 | | | | FY 2021 | | | | FY 2022 | | | | FY 2023 | | | |
|--|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|---------|---|---|---|
| | 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 |
| Cross Domain OPIR | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Algorithm Development | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tactical OPIR Processing | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hardware Purchases, Software Development | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2019 Air Force | | | Date: February 2018 |
| Appropriation/Budget Activity 3600 / 7 | R-1 Program Element (Number/Name) PE 0301401F / <i>Air Force Space and Cyber Non-Traditional ISR for Battlespace Awareness</i> | Project (Number/Name) 67A051 / <i>Space Superiority - Advanced Intelligence Systems</i> | |

Schedule Details

| Events by Sub Project | Start | | End | |
|--|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| <i>Cross Domain OPIR</i> | | | | |
| Algorithm Development | 3 | 2018 | 3 | 2023 |
| <i>Tactical OPIR Processing</i> | | | | |
| Hardware Purchases, Software Development | 3 | 2018 | 3 | 2023 |