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Exhibit R-2, RDT&E Budget Item Justification: PB 2017 Air Force **Date:** February 2016

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| Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development</i> | R-1 Program Element (Number/Name) PE 0207249F / <i>Precision Attack Systems Procurement</i> |
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| 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 | - | 0.835 | 1.105 | 0.649 | 0.000 | 0.649 | 1.124 | 1.146 | 1.167 | 1.189 | Continuing | Continuing |
| 675347: <i>Advanced Targeting Pod</i> | - | 0.835 | 1.105 | 0.649 | 0.000 | 0.649 | 1.124 | 1.146 | 1.167 | 1.189 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

Advanced Targeting Pods (ATPs) provide long-range target acquisition and expanded weapon delivery envelopes for greater aircraft survivability. ATPs feature an infrared (IR) sensor, charged coupled device television (CCD-TV), laser designator, eye-safe laser, laser spot tracker, infrared marker, and real-time video data link for connectivity with ground forces. As non-developmental items, the majority of improvements to ATPs are the result of investments made by industry Internal Research and Development (IRAD). In addition to operational flight program (OFP) development, this funding provides for the development and integration of capabilities which are either above the capabilities of the industrial base or that require accelerated development timelines in order to meet operational requirements. It also includes program management support, technical analysis, studies and assessments necessary to support the development and integration of future capabilities. Data-linking is one such area where there is an identified gap between industrial capabilities and operational requirements. Additional development efforts will be structured to support the documented ATP requirements as well as urgent operational needs (UONs) as they become known.

The FY 2017 funding request was reduced by \$0.459 million to account for the availability of prior year execution balances.

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 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|---------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 1.081 | 1.105 | 1.114 | 0.000 | 1.114 |
| Current President's Budget | 0.835 | 1.105 | 0.649 | 0.000 | 0.649 |
| Total Adjustments | -0.246 | 0.000 | -0.465 | 0.000 | -0.465 |
| • 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 | -0.209 | 0.000 | | | |
| • SBIR/STTR Transfer | -0.037 | 0.000 | | | |
| • Other Adjustments | 0.000 | 0.000 | -0.465 | 0.000 | -0.465 |

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Change Summary Explanation

FY15: -\$209K for higher Air Force priorities

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

| | FY 2015 | FY 2016 | FY 2017 Base | FY 2017 OCO | FY 2017 Total |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|--------------|-------------|---------------|
| Title: Advanced Targeting Pod - Sensor Enhancement (ATP-SE) Requirements | 0.835 | 1.105 | 0.649 | 0.000 | 0.649 |
| Description: ATP-SE technology improvements, requirements definition (studies, analysis and assessments). | | | | | |
| FY 2015 Accomplishments: Accomplished ATP-SE technology improvements, requirements definition, studies, analysis and assessments. | | | | | |
| FY 2016 Plans: Accomplish further ATP-SE technology improvements, requirements definition, studies, analysis and assessments. | | | | | |
| FY 2017 Base Plans: Accomplish further ATP-SE technology improvements, requirements definition, studies, analysis and assessments. | | | | | |
| FY 2017 OCO Plans: N/A | | | | | |
| Accomplishments/Planned Programs Subtotals | | | | | |
| | 0.835 | 1.105 | 0.649 | 0.000 | 0.649 |

D. Other Program Funding Summary (\$ in Millions)

| <u>Line Item</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017 Base</u> | <u>FY 2017 OCO</u> | <u>FY 2017 Total</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>FY 2020</u> | <u>FY 2021</u> | <u>Cost To Complete</u> | <u>Total Cost</u> |
|-------------------------------------------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| • APAF: BA07: LINE ITEM# OTHACF: PE 0207249F, <i>Precision Attack Systems</i> | 21.036 | 16.543 | 17.653 | 0.000 | 17.653 | 17.897 | 18.100 | 18.425 | 0.000 | Continuing | Continuing |

Remarks

E. Acquisition Strategy

Funds will primarily be executed for studies, analysis and definition for the purpose of identifying improved capability and maintenance mods requirements. Contracting strategy is dependent on market research results. Prior efforts have been accomplished by the prime contractors as well as industry partners.

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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 2017 Air Force | | | | | | | | | | | | Date: February 2016 | | | |
| Appropriation/Budget Activity 3600 / 7 | | | | R-1 Program Element (Number/Name) PE 0207249F / Precision Attack Systems Procurement | | | | | Project (Number/Name) 675347 / Advanced Targeting Pod | | | | | | |
| 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 |
| Technology Improvement, Tech Analysis, Studies & Assessments | C/FFP | Multiple : Various | - | 0.835 | Feb 2015 | 1.105 | Feb 2016 | 0.649 | Feb 2017 | 0.000 | | 0.649 | Continuing | Continuing | - |
| Subtotal | | | - | 0.835 | | 1.105 | | 0.649 | | 0.000 | | 0.649 | - | - | - |
| 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 |
| Subtotal | | | - | - | | - | | - | | - | | - | - | - | - |
| Project Cost Totals | | | - | 0.835 | | 1.105 | | 0.649 | | 0.000 | | 0.649 | - | - | - |
| Remarks | | | | | | | | | | | | | | | |

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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 0207249F / <i>Precision Attack Systems Procurement</i> | Project (Number/Name) 675347 / <i>Advanced Targeting Pod</i> |

| | 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 |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Sniper ATP-SE Digital Video | [REDACTED] | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Future ATP-SE Enhancements | [REDACTED] | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4A, RDT&E Schedule Details: PB 2017 Air Force | | Date: February 2016 |
| Appropriation/Budget Activity 3600 / 7 | R-1 Program Element (Number/Name) PE 0207249F / <i>Precision Attack Systems Procurement</i> | Project (Number/Name) 675347 / <i>Advanced Targeting Pod</i> |

Schedule Details

| Events | Start | | End | |
|-----------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Sniper ATP-SE Digital Video | 1 | 2015 | 3 | 2015 |
| Future ATP-SE Enhancements | 2 | 2015 | 4 | 2020 |