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Exhibit R-2, RDT&E Budget Item Justification: PB 2015 Air Force **Date:** March 2014

| | |
|--|---|
| Appropriation/Budget Activity 3600: <i>Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P)</i> | R-1 Program Element (Number/Name) PE 0604618F <i>I Joint Direct Attack Munition</i> |
|--|---|

| COST (\$ in Millions) | Prior Years | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO # | FY 2015 Total | FY 2016 | FY 2017 | FY 2018 | FY 2019 | Cost To Complete | Total Cost |
|---------------------------------|-------------|---------|---------|--------------|---------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element | 0.000 | - | 2.500 | - | - | - | - | - | - | - | - | 2.500 |
| 674138: <i>JDAM DEVELOPMENT</i> | 0.000 | - | 2.500 | - | - | - | - | - | - | - | - | 2.500 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

MDAP/MAIS Code: 503

The FY 2015 OCO Request will be submitted at a later date.

Note

A. Mission Description and Budget Item Justification

The 5000 lb demonstration is an integration of BLU-113 warhead with an existing production tail kit, scaled if necessary from smaller or larger warhead control design, to provide accurate, precision, reliable, hard target penetration capability. The required accuracy shall be "JDAM like" as defined by the operational requirements community. The greater overall system performance will tighten dispersion capability where multiple weapons are released from the same aircraft on the same pass, and hit the same impact crater. The Blu 113 is an objective requirement in the 2002 ORD JDAM Operational Requirements Document (ORD). Weapon system will have an identical Concept of Operations (CONOPS) as existing USAF inventory for Global Positioning System-aided Inertial Navigation System (GPS- aided INS) weapons, and compatibility with aircraft Operational Flight Profile (OFFP).

This program is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P) because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

| B. Program Change Summary (\$ in Millions) | FY 2013 | FY 2014 | FY 2015 Base | FY 2015 OCO | FY 2015 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | - | 2.500 | 2.500 | - | 2.500 |
| Current President's Budget | - | 2.500 | - | - | - |
| Total Adjustments | - | - | -2.500 | - | -2.500 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | - | - | | | |
| • Other Adjustments | - | - | -2.500 | - | -2.500 |

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Change Summary Explanation

FY15 adjustment - funding transfered to proper Budget Activity 7, PE64618F

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

| | FY 2013 | FY 2014 | FY 2015 |
|---|---------|---------|---------|
| Title: JDAM | - | 2.500 | - |
| Description: The 5000 lb demonstration is an integration of the BLU-113 warhead with a guidance kit that provides accurate, reliable, tight dispersion, hard target penetration capability. JDAM accuracy expands the drill down CONOPS used by the GBU-31 (2000 lb class warhead) to a 5000 lb concept, holding harder and deeper targets at risk. This is an objective requirement of the 2001 JDAM ORD. The 5000 lb weapon expands USG capability using JDAM proven performance, identical CONOPS as existing JDAM inventory, and compatibility with aircraft Operational Flight Profile (OFP). 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. | | | |
| FY 2014 Plans: Design a BLU-113 conversion kit including BLU-113 strake assembly, BLU-113 umbilical cover, and BLU-113 wire harness extension and develop a unique Operational Flight Profile (OFP) with modified autopilot that provides JDAM like performance. | | | |
| Accomplishments/Planned Programs Subtotals | - | 2.500 | - |

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

| <u>Line Item</u> | <u>FY 2013</u> | <u>FY 2014</u> | <u>FY 2015</u> | <u>FY 2015</u> | <u>FY 2015</u> | <u>FY 2016</u> | <u>FY 2017</u> | <u>FY 2018</u> | <u>FY 2019</u> | <u>Cost To</u> | <u>Total Cost</u> |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-------------------|
| | | | <u>Base</u> | <u>OCO</u> | <u>Total</u> | | | | | <u>Complete</u> | |
| • RDT&E: BA 07: PE 0604618F: <i>JDAM Development</i> | - | - | 2.469 | - | 2.469 | - | - | - | - | - | - |

Remarks

E. Acquisition Strategy

Effort will be executed under a firm fixed price contract and will be a sole source activity.

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 2015 Air Force **Date:** March 2014

| | | |
|--|--|---|
| Appropriation/Budget Activity 3600 / 4 | R-1 Program Element (Number/Name) PE 0604618F / Joint Direct Attack Munition | Project (Number/Name) 674138 / JDAM DEVELOPMENT |
|--|--|---|

| Product Development (\$ in Millions) | | | | FY 2013 | | FY 2014 | | FY 2015 Base | | FY 2015 OCO | | FY 2015 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| Software Development and Hardware Fabrication | SS/TBD | TBD ; , | 0.000 | - | | 2.337 | Jan 2015 | - | | - | | - | - | 2.337 | - |
| Subtotal | | | 0.000 | - | | 2.337 | | - | | - | | - | - | 2.337 | - |

| Support (\$ in Millions) | | | | FY 2013 | | FY 2014 | | FY 2015 Base | | FY 2015 OCO | | FY 2015 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---------------------------------|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| Subtotal | | | - | - | | - | | - | | - | | - | - | - | - |

| Test and Evaluation (\$ in Millions) | | | | FY 2013 | | FY 2014 | | FY 2015 Base | | FY 2015 OCO | | FY 2015 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| Subtotal | | | - | - | | - | | - | | - | | - | - | - | - |

| Management Services (\$ in Millions) | | | | FY 2013 | | FY 2014 | | FY 2015 Base | | FY 2015 OCO | | FY 2015 Total | Cost To Complete | Total Cost | Target Value of Contract |
|---|------------------------|--------------------------------|-------------|---------|------------|---------|------------|--------------|------------|-------------|------------|---------------|------------------|------------|--------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | | | |
| Program Management Administration (PMA) | Various | Not specified. ; , | 0.000 | - | | 0.163 | Apr 2014 | - | | - | | - | - | 0.163 | - |
| Subtotal | | | 0.000 | - | | 0.163 | | - | | - | | - | - | 0.163 | - |

| | | | Prior Years | FY 2013 | | FY 2014 | | FY 2015 Base | | FY 2015 OCO | | FY 2015 Total | Cost To Complete | Total Cost | Target Value of Contract |
|----------------------------|--|--|-------------|---------|--|---------|--|--------------|--|-------------|--|---------------|------------------|------------|--------------------------|
| Project Cost Totals | | | 0.000 | - | | 2.500 | | - | | - | | - | - | 2.500 | - |

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2015 Air Force

Date: March 2014

Appropriation/Budget Activity
3600 / 4

R-1 Program Element (Number/Name)
PE 0604618F / Joint Direct Attack Munition

Project (Number/Name)
674138 / JDAM DEVELOPMENT



5K Demo Schedule

War-Winning Capabilities...On Time, On Cost

| Activity | FY14 | | FY15 | | | | FY16 | | | | FY17 | |
|--|------|----|---|----|-------|----|----------------------|----|----------------------|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Contracting & Technical Reviews | | | ▲ Contract Award | | ▲ PDR | | ▲ Str. Data Pkg | | ▲ Perf. Reports | | | |
| | | | ▲ SRR/Kickoff | | ▲ CDR | | ▲ TRR/Fit Test Ready | | | | | |
| Development | | | <ul style="list-style-type: none"> ■ Design ■ Wind Tunnel ■ Order Long Lead ■ Fab Test Assets ■ Environmental Qual | | | | | | | | | |
| Software Development | | | <ul style="list-style-type: none"> ■ Autopilot ■ F-15E SIL | | | | | | | | | |
| Logistics | | | <ul style="list-style-type: none"> ■ [Logistics Activities] | | | | | | | | | |
| Ground Testing | | | <ul style="list-style-type: none"> ■ F-15E | | | | | | | | | |
| | | | | | | | | | ▲ Fit Check & EMC/EM | | | |
| F-15E Fight Testing | | | <ul style="list-style-type: none"> ■ Canned, Guided Test Vehicles ■ Single Mission Data Collection & Analysis | | | | | | | | | |

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Exhibit R-4A, RDT&E Schedule Details: PB 2015 Air Force **Date:** March 2014

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|--|---|--|
| Appropriation/Budget Activity 3600 / 4 | R-1 Program Element (Number/Name) PE 0604618F / <i>Joint Direct Attack Munition</i> | Project (Number/Name) 674138 / <i>JDAM DEVELOPMENT</i> |
|--|---|--|

Schedule Details

| Events | Start | | End | |
|-----------------------------|---------|------|---------|------|
| | Quarter | Year | Quarter | Year |
| Requirements Development | 3 | 2014 | 4 | 2014 |
| Airframe Design | 2 | 2015 | 3 | 2016 |
| Hardware Fabrication | 1 | 2016 | 1 | 2016 |
| Wind Tunnel Testing | 3 | 2015 | 3 | 2015 |
| Aero Database Development | 2 | 2015 | 3 | 2016 |
| Autopilot & OFP Development | 2 | 2015 | 3 | 2016 |
| Weapons Build Up | 1 | 2016 | 1 | 2016 |
| Flight Certification | 2 | 2016 | 2 | 2016 |
| Flight Test | 2 | 2016 | 3 | 2016 |
| Quick Look Analysis Report | 4 | 2016 | 4 | 2016 |