Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 5: System

PE 0605450A I Joint Air-to-Ground Missile (JAGM)

Date: May 2017

Development & Demonstration (SDD)

Appropriation/Budget Activity

| COST (\$ in Millions) | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost |
|---|----------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|---------------|
| Total Program Element | - | 79.897 | 42.972 | 34.626 | - | 34.626 | 11.900 | 3.000 | 2.000 | 0.000 | 0.000 | 174.395 |
| JA6: Joint Air-To-Ground Missile (JAGM) | - | 79.897 | 42.972 | 34.626 | - | 34.626 | 11.900 | 3.000 | 2.000 | 0.000 | 0.000 | 174.395 |

A. Mission Description and Budget Item Justification

The Joint Air-to-Ground Missile (JAGM) program is an Army led, Acquisition Category (ACAT) 1C Major Defense Acquisition Program (MDAP) with joint interest with the U.S. Marine Corps (USMC) and U.S. Navy. The JAGM is the next generation of aviation-launched, fire and forget missiles to replace the HELLFIRE Laser and Longbow radar missiles. JAGM will be used by joint service aircraft for destruction of high value stationary, moving, and relocatable land and maritime targets from standoff range in day, night, adverse weather, and obscured battlefield conditions.

FY2018 Base dollars in the amount of \$34.626 million support the completion of the Engineering and Manufacturing Development phase, to include: Apache integration; system developmental testing; and a Limited User Test. Funding also supports post-Milestone C developmental, integrated, and operational testing working toward an FY2019 Initial Operational Test and Evaluation.

| B. Program Change Summary (\$ in Millions) | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---------|---------|--------------|-------------|---------------|
| Previous President's Budget | 83.054 | 42.972 | 8.526 | - | 8.526 |
| Current President's Budget | 79.897 | 42.972 | 34.626 | - | 34.626 |
| Total Adjustments | -3.157 | 0.000 | 26.100 | - | 26.100 |
| Congressional General Reductions | - | - | | | |
| Congressional Directed Reductions | - | - | | | |
| Congressional Rescissions | - | - | | | |
| Congressional Adds | - | - | | | |
| Congressional Directed Transfers | - | - | | | |
| Reprogrammings | - | - | | | |
| SBIR/STTR Transfer | -3.157 | - | | | |
| Adjustments to Budget Years | 0.000 | 0.000 | 26.100 | - | 26.100 |

Change Summary Explanation

Since PB17, the JAGM EMD schedule has changed due to hardware delays caused by low production yield and other manufacturing related issues, along with a delay in awarding the Apache integration effort on the Boeing IDIQ contract. The program now includes a Limited User Test (LUT) (replacing the previously scheduled Initial Operational Test and Evaluation (IOT&E)) in second quarter FY 2018. The LUT will inform the Milestone C decision, scheduled in third quarter FY 2018. The IOT&E is now scheduled for second quarter FY 2019, in lieu of the previously scheduled Follow-on Test and Evaluation. These changes have no impact on the current EMD plan to complete all 48 missile flight tests prior to February 2018, in support of Milestone C.

PE 0605450A: Joint Air-to-Ground Missile (JAGM)

Army

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| Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army | | Date: May 2017 |
|---|--|----------------|
| Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 5: System Development & Demonstration (SDD) | R-1 Program Element (Number/Name) PE 0605450A / Joint Air-to-Ground Missile (JAGM) | |
| The FY 2018 \$26.100 million funding increase is to address the abo | ve schedule changes. | |
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PE 0605450A: *Joint Air-to-Ground Missile (JAGM)* Army

| Exhibit R-2A, RDT&E Project Ju | stification | : FY 2018 A | ırmy | | | | | | | Date: May | 2017 | |
|---|-----------------|----------------|------------------|---------|---------|---------|---------|---|---------------|-----------|-------|---------|
| Appropriation/Budget Activity 2040 / 5 | | , , , | | | | | | umber/Name) Air-To-Ground Missile (JAGM) | | | | |
| COST (\$ in Millions) | FY 2018 Base | FY 2018 OCO | FY 2018 Total | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Cost To Complete | Total Cost | | | |
| JA6: Joint Air-To-Ground Missile (JAGM) | - | 79.897 | 42.972 | 34.626 | - | 34.626 | 11.900 | 3.000 | 2.000 | 0.000 | 0.000 | 174.395 |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

A. Mission Description and Budget Item Justification

B Accomplishments/Planned Programs (\$ in Millions)

The Joint Air-to-Ground Missile (JAGM) program is an Army led, Acquisition Category (ACAT) 1C Major Defense Acquisition Program (MDAP) with joint interest with the U.S. Marine Corps (USMC) and U.S. Navy. The JAGM is the next generation of aviation-launched, fire and forget missiles to replace the HELLFIRE Laser and Longbow radar missiles. JAGM will be used by joint service aircraft for destruction of high value stationary, moving, and relocatable land and maritime targets from standoff range in day, night, adverse weather, and obscured battlefield conditions.

FY2018 Base dollars in the amount of \$34.626 million support the completion of the Engineering and Manufacturing Development phase, to include: Apache integration; system developmental testing; and a Limited User Test. Funding also supports post-Milestone C developmental, integrated, and operational testing working toward an FY2019 Initial Operational Test and Evaluation.

| B. Accomplishments/Flaimed Frograms (\$\pi\$ in \text{willions}) | F 1 2016 | FY 2017 | FT 2018 |
|---|----------|---------|---------|
| Title: Engineering and Manufacturing Development (EMD) Contract | 26.340 | 10.581 | - |
| Description: The JAGM prime contractor will conduct qualification of the production line and deliver missiles to support Developmental and Limited User Testing (LUT). The prime contractor will support government-led activities to qualify the JAGM on the AH-64 Apache. | | | |
| FY 2016 Accomplishments: The JAGM prime contractor established subcontracts, procured hardware and initiated production of the JAGM missile on a pilot production line. Prime contractor supported government-led System Critical Design Review (CDR), initial Production Readiness Review (iPRR), System Test Readiness Review (TRR) and Production Qualification Testing (PQT) and integration on AH-64 Apache. | | | |
| FY 2017 Plans: The JAGM prime contractor develops, integrates and delivers tactical AURs for integrated test and evaluation on the Apache platform and supports Initial Operational Test and Evaluation (IOT&E). The prime contractor will also deliver hardware for safety tests and Explosive Ordnance Disposal (EOD) classroom system trainers. | | | |
| Title: System Critical Design Review (CDR) | 5.522 | - | - |

PE 0605450A: Joint Air-to-Ground Missile (JAGM)

Army

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R-1 Line #138

EV 2016 EV 2017

EV 2019

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|---|--|----------------|--|---------|---------|--|--|
| Exhibit R-2A, RDT&E Project Justification: FY 2018 Army | | | Date: M | ay 2017 | | | |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605450A I Joint Air-to-Ground Missile (JAGM) | | Project (Number/Name) JA6 I Joint Air-To-Ground Missile (JAGI | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2016 | FY 2017 | FY 2018 | | |
| Description: System CDR occurs in the EMD phase. Assess the JAC Ensures that each item in the product baseline has been captured in | | itions. | | | | | |
| FY 2016 Accomplishments: See next page | | | | | | | |
| The JAGM Product Office, with Independent Review Team oversight, contractor design compliance to all performance requirements, includ reliability, and cyber security. | | | | | | | |
| Title: Engineering and Manufacturing Development (EMD) Qualificati | on of JAGM and Apache Integration | | 35.859 | 21.529 | 7.73 | | |
| Description: The Government will conduct developmental testing and Apache AH-64 aircraft. | d qualification of the JAGM system, including integratio | n onto | | | | | |
| FY 2016 Accomplishments: The JAGM Product Office and Other Government Agencies (OGAs) of Live Fire Test and Evaluation (T&E) requirements; seeker performance and hardware in the loop; completed missile flight tests from both gro (UAV) launched resulting in 7 out of 7 successful missile test shots, Sairworthiness and interface verification, and supported other platform process. | ce through captive flight tests including countermeasure und launched and Army MQ-1C Unmanned Aerial Vehi Safety of Flight, platform integration laboratory testing fo | es cle r | | | | | |
| FY 2017 Plans: The JAGM Product Office and OGAs will continue developmental T&I tests for Live Fire T&E requirements; Initial Operational Test and Eva to demonstrate compatibility is maintained with legacy systems; and a Evaluation, Milestone C and Full Materiel Release. | luation (IOT&E); Aircraft and missile regression flight te | sts | | | | | |
| FY 2018 Plans: The JAGM Product Office and OGAs will continue Developmental and prime contractor. The data will support System Evaluation, Milestone | | the | | | | | |
| Title: Systems Engineering and Milestone (MS) C Preparation | | | 12.176 | 10.862 | 6.37 | | |
| Description: The JAGM Product Office will complete all documentation FY 2017 MS C decision and exercise EMD Contract LRIP options. | on, conduct evaluations, reviews and analyses to supp | ort a | | | | | |

PE 0605450A: *Joint Air-to-Ground Missile (JAGM)* Army

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| | UNCLASSIFIED | | | | | |
|--|--|--|----------|---------|--|--|
| Exhibit R-2A, RDT&E Project Justification: FY 2018 Army | | Date: | May 2017 | | | |
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605450A / Joint Air-to-Ground Missile (JAGM) | Project (Number/Name) JA6 I Joint Air-To-Ground Missile (JAGM) | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2016 | FY 2017 | FY 2018 | | |
| FY 2016 Accomplishments: The JAGM Product Office developed documents, conducted review contract options, and conducted systems engineering to support of | • • • | nd | | | | |
| FY 2017 Plans: The JAGM Product Office takes delivery of missile and system trai engineering (Lethality, Safety, Qualification, Airworthiness, Logistic Product Office will continue to coordinate and staff all acquisition dAR 70-1 guidance. | cs Demonstration, IOT&E and Full Materiel Release). JAG | | | | | |
| FY 2018 Plans: The program continues document development, government testin | ng and systems engineering in support of a MS C decision | | | | | |
| Title: Full Rate Production (FRP) Decision Preparation | | - | - | 2.50 | | |
| Description: The JAGM Product Office will confirm that JAGM is o | operable, safe to operate and logistically supportable. | | | | | |
| FY 2018 Plans: The JAGM Product will develop all FRP documentation, conduct re a FRP decision. | eview and perform analyses, and government testing to su | pport | | | | |
| Title: Post Milestone C Developmental, Integrated, and Operational | al Testing | - | - | 10.52 | | |
| Description: The JAGM Product Office will demonstrate JAGM Op | perational Suitability and Effectiveness with AH-64. | | | | | |
| FY 2018 Plans: The JAGM Product Office and Other Government Agencies will co JAGM Pilot Vehicle Interface (PVI) through captive carry and JAGI launch tests for Safety Release and Airworthiness Release, and Ai support other platform integration. | M flight tests, regression flight tests, environmental and gro | | | | | |
| Title: Apache AH-64 and JAGM Software Integration | | - | - | 7.50 | | |
| Description: Provides full JAGM capability on E-model Apaches. | | | | | | |
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PE 0605450A: *Joint Air-to-Ground Missile (JAGM)* Army

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| evelop and provide Pilot-Vehicle interface (PVI) capability that is required f | R-1 Program Element (Number/Name) PE 0605450A / Joint Air-to-Ground Missile (JAGM) | Project (Number/ JA6 / Joint Air-To- | , | le (JAGM) |
|--|--|---|---------|-----------|
| B. Accomplishments/Planned Programs (\$ in Millions) Develop and provide Pilot-Vehicle interface (PVI) capability that is re- | onlined for seamless IAGM integration on the Anache | FY 2016 | FY 2017 | FY 2018 |
| platform. | equired for seamless show integration on the Apache | | | |

Accomplishments/Planned Programs Subtotals

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

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army

| C. Other Program Funding Summa | ıry (ə in ivillii | <u>ons)</u> | | | | | | | | | |
|--------------------------------|-------------------|-------------|-------------|------------|--------------|---------|---------|---------|---------|-----------------|-------------------|
| | | | FY 2018 | FY 2018 | FY 2018 | | | | | Cost To | |
| <u>Line Item</u> | FY 2016 | FY 2017 | Base | <u>000</u> | <u>Total</u> | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Complete | Total Cost |
| • BLIN 005 (C70302A): | 27.738 | 101.851 | 178.432 | - | 178.432 | 253.118 | 211.806 | 292.770 | 186.931 | 3,438.200 | 4,690.846 |
| Joint Air-To-Ground Missile | | | | | | | | | | | |
| (JAGM) Procurement | | | | | | | | | | | |
| • 0605450N: <i>Navy</i> | 25.640 | 17.880 | 14.791 | - | 14.791 | 6.969 | 0.124 | 0.150 | 0.153 | 0.000 | 65.707 |
| JAGM Missile RDT&E | | | | | | | | | | | |
| • 0206138M: <i>Navy JAGM</i> | - | 26.200 | 26.126 | - | 26.126 | 24.267 | 24.262 | 49.713 | 50.708 | 1,303.300 | 1,504.576 |
| Missile Procurement | | | | | | | | | | | |

Remarks

On Exhibit R-2A, Section B, under the two planned activities 1) Engineering and Manufacturing Development (EMD) Contract and Engineering and 2) Manufacturing Development (EMD) Qualification of JAGM and Apache Integration, the program office initially planned to conduct an Initial Operational Test & Evaluation (IOT&E) with FY 2017 RDT&E funding. As a result of hardware delays, the program office will now execute a Limited User Test (LUT) in 2018. The delay in contract award between Boeing and the Apache Project Office prevented the completion of a platform software update required to support IOT&E, which would provide the Pilot-Vehicle Interface (PVI) capability required for seamless JAGM integration with the Apache platform. The approved Milestone B Test & Evaluation Master Plan (TEMP) specified that the program manager, in agreement with the Army Test and Evaluation Command (ATEC), could transition the IOT&E to a LUT, if required; and convert the planned and funded Follow-On Test and Evaluation (FOT&E) event in FY 2019 to an IOT&E to support Full Materiel Release (FMR) and Full Rate Production (FRP) decisions. These changes have no impact on the missile design, production timelines, Initial Operating Capability (IOC) date, Low Rate Initial Production (LRIP), or any key program event. The same quantity of missiles will be available for each event with no schedule impact to milestones. Additionally, these funds will support integration with other platforms, as required.

On 17 March 2017, the Under Secretary of Defense for Acquisition, Technology, and Logistics (USD(AT&L)) delegated Milestone Decision Authority (MDA) to the Secretary of the Army. Accordingly, the Acquisition Category (ACAT) designation for JAGM is now ACAT 1C.

D. Acquisition Strategy

Army

The JAGM EMD acquisition approach outlines the plan to complete developmental testing to qualify the All Up Round (AUR) and the contractor production line, and to integrate JAGM on the U.S. Army AH-64 Apache. Advance Procurement of long lead items (HELLFIRE Romeo back ends and Guidance Section subsystems) occurs

PE 0605450A: Joint Air-to-Ground Missile (JAGM)

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R-1 Line #138

Date: May 2017

42.972

34.626

79.897

| Exhibit R-2A, RDT&E Project Justification: FY 2018 A | rmy | Date: May 2017 |
|--|--|--|
| Appropriation/Budget Activity 2040 / 5 | R-1 Program Element (Number/Name) PE 0605450A I Joint Air-to-Ground Missile (JAGM) | Project (Number/Name) JA6 I Joint Air-To-Ground Missile (JAGM) |
| in FY 2016 - FY 2017. This long lead procurement is nee Capability (IOC). | eded to facilitate Low Rate Initial Production (LRIP) I and II, which i | s necessary to achieve Initial Operational |
| E. Performance Metrics | | |
| N/A | | |
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PE 0605450A: *Joint Air-to-Ground Missile (JAGM)* Army

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Army

Date: May 2017

Appropriation/Budget Activity

2040 / 5

R-1 Program Element (Number/Name)
PE 0605450A I Joint Air-to-Ground Missile
(JAGM)

Project (Number/Name)JA6 *I Joint Air-To-Ground Missile (JAGM)*

| Management Service | es (\$ in M | illions) | | FY 2 | FY 2016 Award Cost Date | | FY 2017 | | FY 2018 Base | | 2018 CO | FY 2018 Total | | | |
|-----------------------------------|------------------------------|-----------------------------------|----------------|--------|--------------------------|--------|---------------|--------|-----------------|------|---------------|------------------|---------------------|---------------|--------------------------------|
| Cost Category Item | Contract Method & Type | Performing Activity & Location | Prior Years | Cost | | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To Complete | Total Cost | Target Value of Contract |
| System Eng/ Project Management | C/LH | Various : Performers | 51.455 | 12.176 | Oct 2015 | 10.862 | Oct 2016 | 12.230 | Oct 2017 | - | | 12.230 | 0.000 | 86.723 | 0.000 |
| | | Subtotal | 51.455 | 12.176 | | 10.862 | | 12.230 | | - | | 12.230 | 0.000 | 86.723 | 0.000 |

| Product Developmen | ıt (\$ in M | illions) | | FY 2 | 2016 | FY 2 | 2017 | | 2018 ise | | 2018 CO | FY 2018 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 Development Prime Contract | C/FFP | TD : Prime Contract | 371.319 | - | | - | | - | | - | | - | 0.000 | 371.319 | 0.000 |
| Rocket Motor Insensitive Munition (IM) Qualification | C/CPFF | Defense Ordnance Technology Consortium (DOTC) : Picatinny Arsenal, NJ | 32.434 | 7.297 | Jun 2016 | - | | - | | - | | - | 0.000 | 39.731 | 0.000 |
| Electro-Mechanical Control Actuator System (EMCAS) | C/CPFF | Defense Ordnance Technology Consortium (DOTC) : Picatinny Arsenal, NJ | 4.033 | - | | - | | - | | - | | - | 0.000 | 4.033 | 0.000 |
| Integrated Warhead | C/CPFF | Defense Ordnance Technology Consortium (DOTC) : Picatinny Arsenal, NJ | 2.982 | - | | - | | - | | - | | - | 0.000 | 2.982 | 0.000 |
| EMD Long Lead Contract (Backends) | SS/FFP | Lockheed Martin : Orlando, FL | 8.082 | - | | - | | - | | - | | - | 0.000 | 8.082 | 0.000 |
| Development Engineering | C/LH | Various : Performers | 21.648 | - | | - | | - | | - | | - | 0.000 | 21.648 | 0.000 |
| EMD Prime Contract | C/FPIF | Lockheed Martin : Orlando, Florida | 45.317 | 19.043 | Apr 2016 | 10.581 | Sep 2017 | - | | - | | - | 0.000 | 74.941 | 0.000 |
| Apache Indefinite Delivery/ Indefinite Quantity (IDIQ) Contract | C/CPFF | Boeing Company : Mesa, AZ | 1.100 | 6.800 | Mar 2016 | - | | 7.500 | Apr 2018 | - | | 7.500 | 0.000 | 15.400 | 0.000 |
| | | Subtotal | 486.915 | 33.140 | | 10.581 | | 7.500 | | - | | 7.500 | 0.000 | 538.136 | 0.000 |

PE 0605450A: *Joint Air-to-Ground Missile (JAGM)* Army

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Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Army

Appropriation/Budget Activity
2040 / 5

R-1 Program Element (Number/Name)
PE 0605450A / Joint Air-to-Ground Missile
(JAGM)

PROJECT (Number/Name)
JA6 / Joint Air-To-Ground Missile (JAGM)

| Product Development (\$ in Mi | llions) | | FY | 2016 | FY: | 2017 | | 2018 ase | | 2018 CO | FY 2018 Total | | | |
|---|-----------------------------------|----------------|------|---------------|------|---------------|------|---------------|------|---------------|------------------|---------|---------------|--------------------------------|
| Contract Method Cost Category Item & Type | Performing Activity & Location | Prior Years | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Cost To | Total Cost | Target Value of Contract |

Remarks

As a result of hardware delays, the JAGM Milestone C incurred a delay from 4QFY 2017 to 3QFY 2018. Given the FPI(F) contract type, Lockheed Martin will be responsible for all overrun contract costs associated with the EMD Prime Contract. As a result of negotiations, the period of performance was extended from 31 July 2017 to 31 July 2018.

(C / FFP) - Competitive/Firm Fixed Price

(C / CPFF) - Competitive/Cost-Plus Fixed Fee

(C / LH) - Competitive/Labor Hour

(SS / FFP) - Sole Source/Firm Fixed Price

(C / FPIF) - Competitive/Fixed Price Incentive (Firm Target)

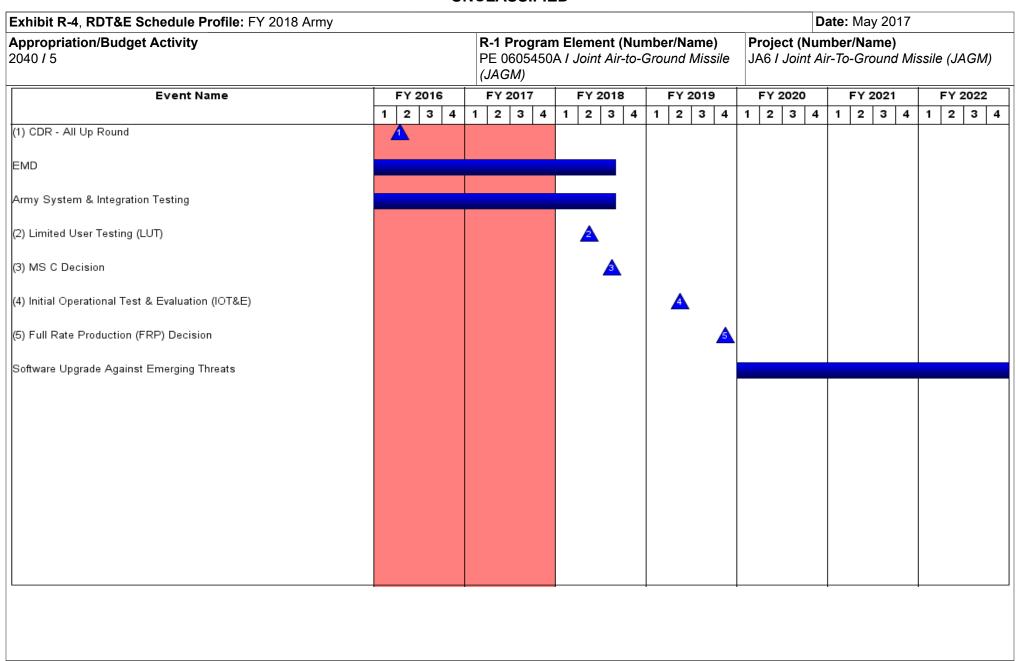
| Test and Evaluation (\$ in Millions) | | FY 2016 FY 2017 | | FY 2018 Base | | FY 2018 OCO | | FY 2018 Total | | | | | | | |
|--------------------------------------|------------------------------|-----------------------------------|----------------|-----------------|---------------|----------------|---------------|------------------|---------------|------|---------------|--------|---------------------|---------------|--------------------------------|
| 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 |
| Other Gov Agencies | C/LH | Various : Performers | 46.278 | 34.581 | Nov 2016 | 21.529 | Nov 2017 | 14.896 | Nov 2018 | - | | 14.896 | 0.000 | 117.284 | 0.000 |
| | | Subtotal | 46.278 | 34.581 | | 21.529 | | 14.896 | | - | | 14.896 | 0.000 | 117.284 | 0.000 |
| | | | | | | | | | | | | | | | Target |

| | Prior Years | FY 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total | Cost To | Total Cost | Target Value of Contract |
|---------------------|----------------|---------|---------|-----------------|----------------|------------------|---------|---------------|--------------------------------|
| Project Cost Totals | 584.648 | 79.897 | 42.972 | 34.626 | - | 34.626 | 0.000 | 742.143 | - |

Remarks

PE 0605450A: *Joint Air-to-Ground Missile (JAGM)* Army

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PE 0605450A: *Joint Air-to-Ground Missile (JAGM)* Army

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| Exhibit R-4A, RDT&E Schedule Details: FY 2018 Army | Date: May 2017 | | |
|--|----------------|-----|---|
| , | , , , | • \ | umber/Name) Air-To-Ground Missile (JAGM) |

Schedule Details

| | Sta | End | | |
|---|---------|------|---------|------|
| Events | Quarter | Year | Quarter | Year |
| CDR - All Up Round | 2 | 2016 | 2 | 2016 |
| EMD | 4 | 2015 | 3 | 2018 |
| Army System & Integration Testing | 4 | 2015 | 3 | 2018 |
| Limited User Testing (LUT) | 2 | 2018 | 2 | 2018 |
| MS C Decision | 3 | 2018 | 3 | 2018 |
| Initial Operational Test & Evaluation (IOT&E) | 2 | 2019 | 2 | 2019 |
| Full Rate Production (FRP) Decision | 4 | 2019 | 4 | 2019 |
| Software Upgrade Against Emerging Threats | 1 | 2020 | 4 | 2039 |