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

Date: May 2017

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 7:

PE 0207452F *I DCAPES*

Operational Systems Development

| 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 | 186.286 | 12.909 | 14.979 | 17.382 | 0.000 | 17.382 | 14.171 | 11.090 | 4.000 | 3.409 | 49.100 | 313.326 |
| 674801: DCAPES INC 2B | 0.000 | 12.014 | 14.979 | 17.382 | 0.000 | 17.382 | 14.171 | 11.090 | 4.000 | 3.409 | 49.100 | 126.145 |
| 674802: DCAPES Increment 2A | 186.286 | 0.895 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 187.181 |

Program MDAP/MAIS Code: 500

A. Mission Description and Budget Item Justification

The mission of Deliberate and Crisis Action Planning and Execution Segments (DCAPES) is to support Joint and Air Force Adaptive Planning and Execution (APEX) needs by enabling the warfighter to rapidly respond to a Combatant Commander's (COCOM's) force requirements through the development, management, presentation, and execution of scalable packages of manpower and equipment comprising our Aerospace Expeditionary Forces (AEF). Provide real-time command, control, planning, and execution information supporting the United States Air Force (USAF) manpower, personnel, operations and logistics force presentation and execution processes while providing a single integrated data environment to project aerospace power anywhere in world. DCAPES enables force projection C2 to all missions requiring USAF presence regardless of mission type (contingency, humanitarian, disaster relief, etc.).

DCAPES funding will be executed against capabilities packaged into agile development projects for multiple incremental deliveries based on the warfighter's priorities. Additionally, funding will be used to cover downward directed federal mandates.

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 2016 | FY 2017 | FY 2018 Base | FY 2018 OCO | FY 2018 Total |
|---|---------|---------|--------------|-------------|---------------|
| Previous President's Budget | 16.723 | 14.979 | 13.761 | 0.000 | 13.761 |
| Current President's Budget | 12.909 | 14.979 | 17.382 | 0.000 | 17.382 |
| Total Adjustments | -3.814 | 0.000 | 3.621 | 0.000 | 3.621 |
| 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 | -3.227 | 0.000 | | | |
| SBIR/STTR Transfer | -0.587 | 0.000 | | | |
| Other Adjustments | 0.000 | 0.000 | 3.621 | 0.000 | 3.621 |

PE 0207452F: DCAPES

| Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Air Force | | Date: May 2017 |
|--|--|----------------|
| Appropriation/Budget Activity 8600: Research, Development, Test & Evaluation, Air Force I BA 7: Operational Systems Development | R-1 Program Element (Number/Name) PE 0207452F I DCAPES | |
| Change Summary Explanation FY2016: Funding was reprogrammed to support higher Air Force FY2018: Funding was increased in order to support Joint Informat | | ite. |
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PE 0207452F: *DCAPES* Air Force

| Exhibit R-2A, RDT&E Project Ju | Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force | | | | | | | | | | | | | |
|--|--|---------|---------|-----------------|----------------|------------------|---------|---------|---------|-------------------------------|---------------------|---------------|--|--|
| Appropriation/Budget Activity 3600 / 7 | | | | | , , , , , , | | | | | Number/Name) DCAPES INC 2B | | | | |
| 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 | | |
| 674801: DCAPES INC 2B | 0.000 | 12.014 | 14.979 | 17.382 | 0.000 | 17.382 | 14.171 | 11.090 | 4.000 | 3.409 | 49.100 | 126.145 | | |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | | | |

A. Mission Description and Budget Item Justification

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

DCAPES Increment 2B provides capabilities that enable the Air Force to posture trained and equipped forces, organized in effects-based operational capability packages, to deliver effective aerospace capabilities to the Joint warfighter. Furthermore, it includes the migration of the application from four regionally fielded strategic server enclaves fielded on the Global Command and Control System – Air Force to a virtualized platform in Defense Information Systems Agency Defense Enterprise Computing Centers. Additional technical requirements planned for Increment 2B include enabling the system to support Public Key Infrastructure and Public Key enabling as well as elimination of Social Security Account Numbers as the primary key for identifying Air Force military and civilian members by replacing it with the Electronic Data Interchange Personal Identifier.

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.

| D. Addeniphentient of turned i regianie (\$\psi\$ in immens) | 1 1 2010 | 1 1 2017 | 1 1 2010 |
|---|----------|----------|----------|
| Title: DCAPES INCREMENT 2B | 12.014 | 14.979 | 17.382 |
| Description: DCAPES Increment 2B includes Infrastructure Support, Business Intelligence, and the development of multiple War Fighter Capabilities; the Program will begin execution of War Fighter Capabilities 1-3 during the FY17 President's Budget, War Fighter Capability 4 during the FY18 President's Budget, War Fighter Capability 5 during the FY19 President's Budget, War Fighter Capability 6 during the FY20 President's Budget. | | | |
| FY 2016 Accomplishments: - Continued efforts for Clinger Cohen Act compliance documentation required for Milestone B approval - Began Increment 2B Risk Reduction Activities: Completed Proof of Concept for Infrastructure Re-hosting platform Began the Feature Driven Planning for new Warfighter Requirements | | | |
| FY 2017 Plans: - Complete Increment 2 Milestone B - Begin Joint Information Environment (JIE) Data Center Optimization Initiative (DCOI)/Legacy Re-Host mandate - Continue Infrastructure and Integration builds - Begin development of War Fighter Capabilities 1-3: Capability 1: Eliminate Social Security Number from DCAPES and replace with the Department of Defense Electronic Data Interface Personnel Identifier (EDIPI) | | | |

PE 0207452F: DCAPES

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Page 3 of 18 R-1 Line #206

FY 2016 | FY 2017 | FY 2018

| Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Fo | orce | | Date: N | /lay 2017 | |
|---|---|---|---------|-----------|---------|
| Appropriation/Budget Activity 3600 / 7 | ct (Number/I 01 / DCAPES | , | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2016 | FY 2017 | FY 2018 |
| Capability 2: DCAPES and Global Force Management-Date | • | | | | |
| Capability 3: Enhanced Contingency-Rotational Air Expedi | tionary Force Scheduling Tool Interface (ECAST) | | | | |

FY 2018 Plans:

- Will complete Joint Information Environment (JIE) Migration Data Center Optimization Initiative (DCOI)/Legacy Re-Host mandate
- Will continue maintaining builds for infrastructure
- Will continue development of War Fighter Capabilities 1-3
- Will begin development of War Fighter Capability 4:
- -- Capability 4: Provides users the capability to build, manage, and maintain Manpower & Equipment Force Packaging (MEFPAK)

| Accomplishments/Planned Programs Subtotals | |
|--|--|
| and maintain Manpower & Equipment Force Fackaging (MEFFAK) | |

12.014 14.979 17.382

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

| | | - | FY 2018 | FY 2018 | FY 2018 | | | | | Cost To | |
|-------------------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|-------------|----------|
| Line Item | FY 2016 | FY 2017 | Base | OCO | <u>Total</u> | FY 2019 | FY 2020 | FY 2021 | FY 2022 | Complete To | tal Cost |
| • N/A: <i>N/A</i> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | - | - |

Remarks

D. Acquisition Strategy

The DCAPES program successfully awarded the DCAPES Development Task Order for a one-year Base Period and four one-year Option Periods using the NETCENTS 2 Application Services Small Business Indefinite delivery Indefinite Quantity (IDIQ) contract. The period of performance started on 6 April 2015 and ends on 5 April 2020, given all option years are exercised.

DCAPES is an Evolutionary Acquisition Program using an incremental development approach (DoDI 5000.02 Model 3) to develop capabilities over several increments. To support the rapid development and delivery of capabilities, DCAPES will transition from a waterfall approach used in Increment 2A to a hybrid agile acquisition strategy in which capabilities are incrementally delivered in time-phased stages based on warfighter priorities and adoption of key architecture and technology requirements as a trade-off for accelerated delivery and risk reduction.

The DCAPES Program Management Office (PMO) will utilize a mix of agreements (Service Level Agreements and Memorandums) with DCAPES interface partners. A Service Level Agreement is in place with the Capabilities Integration Environment (AFLCMC/HNIZ) to conduct software development and testing. Memorandums of Agreement with Joint Interoperability Test Command, Air Force Operational Test and Evaluation Command, and the 46th Test Squadron are in place and outline the test support required before fielding the system.

The DCAPES Increment 2B requirements have been packaged into multiple discreet capabilities which will be developed in multiple smaller increments. Each capability will be developed using several builds and with one or more fieldings to satisfy the approved requirements within each package.

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R-1 Line #206

| xhibit R-2A, RDT&E Project Justification: FY 2018 Ai | r Force | Date: May 2017 |
|--|--|---|
| ppropriation/Budget Activity 600 / 7 | R-1 Program Element (Number/Name) PE 0207452F / DCAPES | Project (Number/Name) 674801 / DCAPES INC 2B |
| . Performance Metrics | | |
| | Book for information on how Air Force resources are applied and contribute to our mission. | how those resources are contributing to Air |
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PE 0207452F: *DCAPES* Air Force

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

Date: May 2017

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

Project (Number/Name)

3600 *l* 7 PE 0207452F *l* DCAPES 674801 *l* DCAPES INC 2B

| Product Developmen | oduct Development (\$ 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 | Total Cost | Target Value of Contract |
| DCAPES Increment 2B - Risk Reduction | Various | Various : Various | 0.000 | 2.164 | Aug 2016 | 2.226 | Feb 2017 | 0.000 | | 0.000 | | 0.000 | 0.000 | 4.390 | 3.090 |
| DCAPES Increment 2B/ Prime Contract | C/Various | Array Information Technology, Inc. : Greenbelt, MD | 0.000 | 2.955 | Apr 2016 | 5.305 | Apr 2017 | 11.435 | Apr 2018 | 0.000 | | 11.435 | 40.991 | 60.686 | 40.991 |
| DCAPES Infrastructure/ Integration | C/CPFF | DATUM Software Inc. : John Creek, GA | 0.000 | 0.911 | Feb 2016 | 0.930 | Feb 2017 | 0.958 | Feb 2018 | 0.000 | | 0.958 | 5.152 | 7.951 | 5.152 |
| DCAPES Architecture Documentation Development | C/FFP | Copper River IT : Anchorage, AK | 0.000 | 0.330 | Aug 2016 | 0.619 | Aug 2017 | 0.629 | Aug 2018 | 0.000 | | 0.629 | 3.756 | 5.334 | 13.756 |
| DCAPES DCOI Migration | MIPR | DISA : Pensacola, FL | 0.000 | 1.155 | Apr 2016 | 1.796 | Apr 2017 | 0.735 | Apr 2018 | 0.000 | | 0.735 | 13.230 | 16.916 | 13.230 |
| | | Subtotal | 0.000 | 7.515 | | 10.876 | | 13.757 | | 0.000 | | 13.757 | 63.129 | 95.277 | 76.219 |

| Support (\$ in Millions | s) | | | FY 2 | 2016 | FY 2 | 2017 | | 2018 ise | FY 2 | 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 |
| DCAPES HIB Integration Contract Support | C/FFP | TM Capture Services, LLC : Dayton, OH | 0.000 | 1.684 | Apr 2016 | 0.676 | Apr 2017 | 0.700 | Apr 2018 | 0.000 | | 0.700 | 3.225 | 6.285 | 3.225 |
| DCAPES Cost Analysis Contract Support | C/CPFF | BTAS, Inc. : Beavercreek, OH | 0.000 | 0.399 | Oct 2016 | 0.327 | May 2017 | 0.332 | May 2018 | 0.000 | | 0.332 | 1.908 | 2.966 | 1.908 |
| DCAPES Engineering Contract Support | C/CPFF | Oasis Systems, LLC : Lexington, MA | 0.000 | 0.510 | Apr 2016 | 1.218 | Apr 2017 | 1.021 | Apr 2018 | 0.000 | | 1.021 | 5.392 | 8.141 | 5.392 |
| DCAPES FFRDC Engineering | SS/CPFF | Mitre : Bedford, MA | 0.000 | 0.371 | Oct 2016 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.371 | 0.371 |
| DCAPES Requirement Elaboration Contract Support | C/FFP | Certified Tech. Expert : Montgomery, AL | 0.000 | 0.002 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.002 | 0.002 |
| DCAPES Contract System Integration/Tech Support | MIPR | AFLCMC/HNIZ CIE : MAFB-Gunter Annex, AL | 0.000 | 0.325 | Sep 2016 | 0.430 | Sep 2017 | 0.443 | Sep 2018 | 0.000 | | 0.443 | 2.051 | 3.249 | 2.051 |

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Air Force

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| Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force | | | Date: May 2017 |
|---|--|---|-------------------------------|
| Appropriation/Budget Activity 3600 / 7 | R-1 Program Element (Number/Name) PE 0207452F / DCAPES | , | lumber/Name) DCAPES INC 2B |

| Support (\$ in Million | s) | | | FY 2 | 2016 | FY 2 | 2017 | FY 2 Ba | 2018 ise | FY 2 | | 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 |
| DCAPES Development Environment HW | C/Various | Various : Various | 0.000 | 0.848 | Aug 2016 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.800 | 1.648 | 0.800 |
| DCAPES Licenses (Software/Hardware) | C/Various | Various : Various | 0.000 | 0.073 | Feb 2016 | 0.536 | Feb 2017 | 0.341 | Feb 2018 | 0.000 | | 0.341 | 1.580 | 2.530 | 1.580 |
| DCAPES Government Purchase Card | Reqn | Various : Various | 0.000 | 0.000 | | 0.012 | Aug 2017 | 0.012 | Aug 2018 | 0.000 | | 0.012 | 0.057 | 0.081 | 0.057 |
| | | Subtotal | 0.000 | 4.212 | | 3.199 | | 2.849 | | 0.000 | | 2.849 | 15.013 | 25.273 | 15.386 |

| Test and Evaluation | (\$ in Milli | ons) | | FY 2 | FY 2018 FY 201 FY 2016 FY 2017 Base 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 |
| DCAPES Development Test and Evaluation | MIPR | 46 Test Sqdn : Eglin AFB, FL | 0.000 | 0.030 | Jan 2016 | 0.533 | Jan 2017 | 0.338 | Jan 2018 | 0.000 | | 0.338 | 1.562 | 2.463 | 1.562 |
| DCAPES Interoperability Testing and Evaluation | MIPR | DISA JITC : Huachuca, AZ | 0.000 | 0.000 | Oct 2015 | 0.093 | Oct 2016 | 0.159 | Oct 2017 | 0.000 | | 0.159 | 0.737 | 0.989 | 0.737 |
| DCAPES User Test Support | Various | Various : Various | 0.000 | 0.222 | Sep 2016 | 0.213 | Sep 2017 | 0.218 | Sep 2018 | 0.000 | | 0.218 | 1.010 | 1.663 | 1.010 |
| | | Subtotal | 0.000 | 0.252 | | 0.839 | | 0.715 | | 0.000 | | 0.715 | 3.309 | 5.115 | 3.309 |

| Management Service | es (\$ in M | illions) | | FY 2 | 2016 | FY 2 | 2017 | | 2018 ase | FY 2 | | 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 |
| DCAPES Travel | Reqn | Various : Various | 0.000 | 0.017 | Sep 2016 | 0.030 | Sep 2017 | 0.030 | Sep 2018 | 0.000 | | 0.030 | 0.158 | 0.235 | 0.158 |
| DCAPES Business Integration Support | Various | Various : Various | 0.000 | 0.018 | Sep 2016 | 0.035 | Sep 2017 | 0.031 | Sep 2018 | 0.000 | | 0.031 | 0.161 | 0.245 | 0.161 |
| | | Subtotal | 0.000 | 0.035 | | 0.065 | | 0.061 | | 0.000 | | 0.061 | 0.319 | 0.480 | 0.319 |

PE 0207452F: *DCAPES* Air Force

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| Exhibit R-3, RDT&E Project Cost Analysis: FY 2 | 018 Air Fo | orce | | | | | | | | Date: | May 2017 | 7 | | |
|--|----------------|--------|---------------------|--|---|---------------------|---------|-------|----------|------------------|--------------------------------|---------------|--------------------------------|--|
| Appropriation/Budget Activity 3600 / 7 | | | | | • | lement (N DCAPES | umber/l | Name) | | • | (Number/Name) DCAPES INC 2B | | | |
| | Prior Years | FY 2 | 016 | | | | | | 018 O | FY 2018 Total | Cost To Complete | Total Cost | Target Value of Contract | |
| Project Cost Totals | | 14.979 | 14.979 17.382 0.000 | | | | | | 81.770 | 126.145 | - | | | |

Remarks

PE 0207452F: *DCAPES*

| khibit R-4, RDT&E Schedule Profile: FY 2018 A | ir Force | | | | | | | Dat | e: May 2 | 2017 | | |
|---|--------------------|---------|--|-------------------|----------|------|------|-----|-------------------|------|---------------|-----|
| opropriation/Budget Activity 00 / 7 | | F | R-1 Program Eleme PE 0207452F / DCA | ent (Numb NPES | er/Name) | | | | er/Nam PES INC | | | |
| | FY 2016 1 2 3 4 | FY 2017 | FY 2018 4 1 2 3 4 | FY 20 | 19 F | FY 2 | 2020 | | 2021 | | FY 202 2 3 | 2 4 |
| DCAPES Increment 2B | | | | | | | | | | | | |
| MS B Preparation | | | | | | | | | | | | |
| MS B Decision (April 2017) | | | | | | | | | | | | |
| Increment 2B FDD | | | | | | | | | | | | Ī |
| Increment 2B FD | | | | | | | | | | | | |
| Joint Information Environment (JIE) Migration (Infrastructure Re-host) | | | | | | | | | | | | |
| Capability 1 Electronic Data Interface Personnel Identifier (EDIPI) | | | | | | | | | | | | |
| Capability 2 Global Force Management Interoperability (GFM-DI) | | | | | | | | | | | | |
| Capability 3 Enhanced Contingency- Rotational Air Expeditionary Force Scheduling Tool Interface (ECAST) | | ı | | | | | | | | | | |
| Capability 4 Manpower & Equipment Force Packaging (MEFPAK) | | | | | | | | | | | | |
| Capability 5 Logistics Factor File | | | | | | | | | | | | |
| Capability 6 Force Availability Analysis | | | | | | | | | | | | |
| DCAPES Future Modifications | | | | | | | | | | | | |

PE 0207452F: *DCAPES* Air Force

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| Exhibit R-4A, RDT&E Schedule Details: FY 2018 Air Force | | | Date: May 2017 |
|---|-----------------------------------|-------------------|----------------|
| Appropriation/Budget Activity | R-1 Program Element (Number/Name) | Project (N | umber/Name) |
| 3600 / 7 | PE 0207452F <i>I DCAPES</i> | 674801 <i>I D</i> | OCAPES INC 2B |

Schedule Details

| | Sta | art | Er | ıd |
|--|---------|------|---------|------|
| Events | Quarter | Year | Quarter | Year |
| DCAPES Increment 2B | 1 | 2016 | 4 | 2021 |
| MS B Preparation | 1 | 2016 | 3 | 2017 |
| MS B Decision (April 2017) | 3 | 2017 | 3 | 2017 |
| Increment 2B FDD | 3 | 2022 | 3 | 2022 |
| Increment 2B FD | 4 | 2022 | 4 | 2022 |
| Joint Information Environment (JIE) Migration (Infrastructure Re-host) | 3 | 2016 | 2 | 2018 |
| Capability 1 Electronic Data Interface Personnel Identifier (EDIPI) | 3 | 2017 | 1 | 2022 |
| Capability 2 Global Force Management Interoperability (GFM-DI) | 3 | 2017 | 3 | 2019 |
| Capability 3 Enhanced Contingency-Rotational Air Expeditionary Force Scheduling Tool Interface (ECAST) | 4 | 2017 | 3 | 2018 |
| Capability 4 Manpower & Equipment Force Packaging (MEFPAK) | 3 | 2018 | 2 | 2021 |
| Capability 5 Logistics Factor File | 4 | 2019 | 1 | 2020 |
| Capability 6 Force Availability Analysis | 1 | 2020 | 2 | 2021 |
| DCAPES Future Modifications | 1 | 2022 | 4 | 2022 |

PE 0207452F: *DCAPES*

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| Exhibit R-2A, RDT&E Project Ju | stification: | FY 2018 A | ir Force | | | | | | | Date: May 2017 | | | |
|--|----------------|-----------|----------|-----------------|--------------------------------|------------------|------------------|---------|-------------------------------------|----------------|---------------------|---------------|--|
| Appropriation/Budget Activity 3600 / 7 | | | | | R-1 Progra PE 020745 | | t (Number/ ES | | Number/Name) DCAPES Increment 2A | | | | |
| 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 | |
| 674802: DCAPES Increment 2A | 186.286 | 0.895 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 187.181 | |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | | |

A. Mission Description and Budget Item Justification

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

FY 2016

0.000

FY 2017

0.000

DCAPES Increment 2A delivered Air Force functional specific capabilities as well as technical changes necessary for the Air Force to migrate from a directly connected architectural relationship with the Joint Operations Planning and Execution System (JOPES) to one utilizing data services across the Wide Area Network (WAN). This 'Loose Coupling' solution enabled DCAPES to be interoperable with JOPES and at the same time significantly reduced interoperability costs.

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. Accomplishments/Planned Programs (\$ in Millions) | FY 2016 | FY 2017 | FY 2018 |
|---|---------|---------|---------|
| Title: DCAPES Increment 2A (Loose Coupling) | 0.895 | 0.000 | 0.000 |
| Description: Increment 2A includes Loose Coupling between Deliberate and Crisis Action Planning and Execution Segment (DCAPES) and Joint Operational Planning and Execution System (JOPES), Infrastructure Support, and Business Intelligence. Increment 2A also includes requirements definition, prototyping, development, testing, interoperability, sustainment, and service oriented architecture transition. | | | |
| FY 2016 Accomplishments: - Completed FDD activities and entered FD - Completed v5.0.0.2 (JOPES Outbound) - Completed Increment 2A Requirements | | | |
| FY 2017 Plans: N/A | | | |
| FY 2018 Plans: N/A | | | |
| Accomplishments/Planned Programs Subtotals | 0.895 | 0.000 | 0.000 |

PE 0207452F: DCAPES

Air Force

Line Item

• N/A: N/A

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FY 2018

OCO

0.000

FY 2018

Base

0.000

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FY 2018

Total

0.000

FY 2019

0.000

FY 2021

0.000

FY 2020

0.000

Cost To

FY 2022 Complete Total Cost

0.000

| Exhibit R-2A, RDT&E Project Justification: FY 2018 Air Force | | | Date: May 2017 |
|--|-----------------------------|-------------------|---------------------|
| Appropriation/Budget Activity | | | umber/Name) |
| 3600 / 7 | PE 0207452F <i>I DCAPES</i> | 674802 <i>I D</i> | OCAPES Increment 2A |

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

<u>FY 2018</u> <u>FY 2018</u> <u>FY 2018</u> <u>FY 2018</u> <u>Cost To</u>

<u>Line Item</u> <u>FY 2016</u> <u>FY 2017</u> <u>Base</u> <u>OCO</u> <u>Total</u> <u>FY 2019</u> <u>FY 2020</u> <u>FY 2021</u> <u>FY 2022</u> <u>Complete</u> <u>Total Cost</u>

Remarks

D. Acquisition Strategy

Increment 2A used the Waterfall approach to develop functional capabilities and maintain interoperability with JOPES. The DCAPES program successfully awarded the DCAPES Development Task Order using the NETCENTS 2 Application Services Small Business Indefinite delivery Indefinite Quantity (IDIQ) contract. This task order was used to close out Increment 2A.

The DCAPES Program Management Office (PMO) utilized a mix of agreements (Service Level Agreements and Memorandums) with DCAPES interface partners.

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.

PE 0207452F: DCAPES

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

Date: May 2017

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

3600 *l* 7 PE 0207452F *l* DCAPES 674802 *l* DCAPES Increment 2A

| Product Developmen | nt (\$ in Mi | illions) | | FY 2 | 2016 | FY 2 | 017 | FY 2 Ba | | FY 2 | | 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 |
| DCAPES Increment 2A SW DEV/FOE - HIB-1342) | SS/ Various | Computer Science Corp. : Falls Church, VA | 91.707 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 91.707 | 91.707 |
| DCAPES SW DEV New Prime Contract (Increment 2A HIB-1670) | C/Various | Array Information Technology, Inc. : Greenbelt, MD | 0.913 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.913 | 0.913 |
| DCAPES Risk Reduction | Various | Various : Various | 0.000 | 0.895 | Mar 2016 | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.895 | 0.895 |
| DCAPES Infrastructure / Integration (HIB-1470) | C/CPFF | DATUM Software Inc. : John Creek, GA | 3.000 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 3.000 | 3.000 |
| DCAPES BI Tools / Tech Refresh (HIB-1373) | C/CPFF | Array IT : Greenbelt, MD | 7.581 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 7.581 | 7.581 |
| DCAPES Architecture Documentation Development (HIB-1367) | C/FFP | Copper River IT : Anchorage, AK | 4.148 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 4.148 | 4.148 |
| LOGFAC S/W Development (HIB-1372) | C/FFP | Harris IT services Corp. : Dulles, VA | 18.374 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 18.374 | 18.374 |
| LOGFAC Architecture Documentation Development (HIB-1367) | C/FFP | Cooper River IT : Anchorage, AK | 1.035 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 1.035 | 1.035 |
| | | Subtotal | 126.758 | 0.895 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 127.653 | 127.653 |

| Support (\$ in Millions | s) | | | FY 2 | 2016 | FY 2 | 2017 | FY 2 Ba | 2018 ise | FY 2 | 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 | Total Cost | Target Value of Contract |
| DCAPES Contract Acquisition (HIB-1340)/ Logistic Functional Support (HIB-1343) | C/CPFF | OASIS Systems Inc : Lexington, MA | 6.462 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 6.462 | 6.462 |
| DCAPES HIB INTEGRATION CONTRACT SUPPORT (HIB-1705) | C/Various | TM Capture Services, LLC : Dayton, OH | 5.944 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 5.944 | 5.944 |

PE 0207452F: *DCAPES*

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Air Force **Date:** May 2017

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

3600 / 7 PE 0207452F *I DCAPE*S 674802 Î DCAPES Increment 2A

| Support (\$ in Millions | s) | | | FY 2 | FY 2018 FY 2016 FY 2017 Base | | | | | | | | | | |
|--|------------------------------|---|----------------|-------|---------------------------------|-------|---------------|-------|---------------|-------|---------------|-------|---------|---------------|--------------------------------|
| 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 | Total Cost | Target Value of Contract |
| DCAPES Contract Cost Analysis Support (HIB-1366) | C/CPFF | Tecolote Research, Inc. : Goleta, CA | 3.577 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 3.577 | 3.577 |
| DCAPES Contract Engineering Support (HIB-1380) | C/CPFF | Jacobs Technology, Inc : Lincoln, MA | 3.798 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 3.798 | 3.798 |
| DCAPES FFRDC (Engineering - HIB-1368) | SS/CPFF | Mitre : Bedford, MA | 6.249 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 6.249 | 6.249 |
| DCAPES Contract Requirement Elaboration Support (HIB-1671) | C/FFP | Certified Tech. Expert : Montgomery, AL | 3.014 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 3.014 | 3.014 |
| DCAPES Contract System Security-Information Assurance (HIB-1377) | C/CPFF | Centech Group : Falls Church, VA | 2.458 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 2.458 | 2.458 |
| DCAPES Contract Sys Integration/Tech Support (CIE - HIB-1376) | Various | Various : Various | 6.462 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 6.462 | 6.462 |
| DCAPES Licenses Software/Hardware (HIB-1377) | C/Various | Various : Various | 1.180 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 1.180 | 1.180 |
| DCAPES SIPRNET Comm. Line-Information Assurance (HIB-1330) | MIPR | Various : Various | 0.647 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.647 | 0.647 |
| DCAPES GOVERNMENT PURCHASE CARD (HIB-1371/1706) | Various | Various : Various | 0.015 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.015 | 0.015 |
| LOGFAC Contract Acquisition (HIB-1340) / Logistics Support (HIB-1343) | C/CPFF | Oasis Systems Inc. : Lexington, KY | 0.343 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.343 | 0.343 |
| LOGFAC Contract Cost Analysis Support (HIB-1366) | C/CPFF | Tecolote Research Inc : Goleta, CA | 0.396 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.396 | 0.396 |

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

Date: May 2017

Appropriation/Budget Activity R-1 Program Element (Number/Name) Project (Number/Name)

3600 I 7 PE 0207452F I DCAPES 674802 Î DCAPES Increment 2A

| Support (\$ in Million | s) | | | FY 2 | 2016 | FY 2 | 2017 | FY 2 Ba | | FY 2 | | 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 |
| LOGFAC Contract Engineering Support (HIB-1380) | C/CPFF | Jacobs Technology Inc : Lincoln, MA | 0.419 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.419 | 0.419 |
| LOGFAC Contract Requirement Elaboration Support (HIB-1671) | C/FFP | Certified Technical Experts : Montgomery, AL | 0.335 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.335 | 0.335 |
| LOGFAC Contract Systems Security / IA Support (HIB-1377) | C/CPFF | Centech Group Inc : Falls Church, VA | 0.426 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.426 | 0.426 |
| LOGFAC FFRDC (HIB-1368) | SS/CPFF | MITRE : Bedford, MA | 0.685 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.685 | 0.685 |
| | | Subtotal | 42.410 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 42.410 | 42.410 |

| Test and Evaluation (| (\$ in Milli | ons) | | FY 2 | 2016 | FY 2 | 2017 | FY 2 Ba | 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 | Total Cost | Target Value of Contract |
| DCAPES Development Test and Evaluation (HIB-1369) | MIPR | 46 Test Sqdn : Eglin AFB, FL | 6.736 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 6.736 | 6.736 |
| DCAPES Operational Test and Evaluation (HIB-1369) | Various | 605 Test Sqdn : Hurlburt Field, FL | 0.700 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.700 | 0.700 |
| DCAPES Interoperability Testing and Evaluation (HIB-1369) | MIPR | DISA JITC : Ft Hauchuca, AZ | 3.669 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 3.669 | 3.669 |
| DCAPES User Test Support (HIB-1341) | Various | Various : Various | 2.367 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 2.367 | 2.367 |
| LOGFAC Development Test and Evaluation (HIB-1374) | MIPR | 46 Test Sqdn : Eglin AFB, FL | 2.238 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 2.238 | 2.238 |
| LOGFAC Operational Test and Evaluation (HIB-1374) | Various | 605 Test Sqdn : Hurlburt Field, FL | 0.236 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.236 | 0.236 |

PE 0207452F: *DCAPES* Air Force

| Exhibit R-3, RDT&E | Project C | ost Analysis: FY 2 | .018 Air F | orce | | | , | | | | | Date: | May 2017 | 7 | | | | | |
|---|------------------------------|---|----------------|-------|---------------|-------|--------------------------------------|--------------------|---------------|-------|---------------|------------------|-----------------------------------|---------------|--------------------------------|--|--|--|--|
| Appropriation/Budge 3600 / 7 | et Activity | 1 | | | | | gram El o 7452F <i>I E</i> | ement (N DCAPES | umber/N | ame) | _ | • | umber/Name) CAPES Increment 2A | | | | | | |
| Test and Evaluation | (\$ in Milli | ons) | | FY 2 | 2016 | FY 2 | 2017 | FY 2 Ba | | FY 2 | | 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 | | | | |
| LOGFAC Interoperability Testing and Evaluation (HIB-1374) | MIPR | DISA JICT : Ft Hauchuca, AZ | 0.837 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.837 | 0.837 | | | | |
| LOGFAC User Test Support (HIB-1341) | Various | Various : Various | 0.335 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 0.335 | 0.33 | | | | |
| | | Subtotal | 17.118 | 0.000 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 17.118 | 17.118 | | | | |
| Management Service | es (\$ in M | illions) | | FY 2 | 2016 | FY 2 | 2017 | FY 2 Ba | | FY 2 | | FY 2018 Total | | | | | | | |
| Cost Category Item | Contract Method & Type | Performing Activity & Location Subtotal | 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 2 | 016 | FY 2 | 2017 | FY 2 Ba | | FY 2 | | FY 2018 Total | Cost To Complete | Total Cost | Target Value of Contract | | | | |
| | | Project Cost Totals | 186.286 | 0.895 | | 0.000 | | 0.000 | | 0.000 | | 0.000 | 0.000 | 187.181 | - | | | | |

Remarks

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| xhibit R-4, RDT&E Schedule Profile: FY 2018 | Air F | orce | | | | | | | | | | | | | | | | | | | | Dat | e: M | 1ay 2 | 2017 | 7 | | |
|--|-------|------|------|---|---|----|------|---|---|---|-------|---|---|------|------|---|---|----|-----|--|---|-----|------------------|-------|------|----|-----|----|
| ppropriation/Budget Activity 600 / 7 | | | | | | | | | | | | | | | | | | | | t (Number/Name) 2 I DCAPES Increment 2A | | | | | | | | |
| | | FY | 2010 | 6 | | FY | 2017 | 7 | | F | Y 201 | 8 | | FY 2 | 2019 | | | FY | 202 | 0 | | FY | 202 ⁻ | 1 | | FY | 202 | 22 |
| | 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 | 2 3 | 4 |
| DCAPES Increment 2A (Nov 16) | | | | | | , | , | | | | ' | | | , | | | | | | | | | | , | , | | | |
| v5.0.0.2 (JOPES Outbound - Loose Coupling Complete) Fielding (Nov 15) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Full Deployment Decision (FDD) (Oct 15) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Full Deployment (FD) (Oct 15) | | | | | | | | | | | | | | | | | | | | | | | | | | | | _ |

PE 0207452F: *DCAPES* Air Force

| Exhibit R-4A, RDT&E Schedule Details: FY 2018 Air Force | | | Date: May 2017 |
|---|-----------------------------------|-------------------|---------------------|
| Appropriation/Budget Activity | R-1 Program Element (Number/Name) | Project (N | umber/Name) |
| 3600 <i>I</i> 7 | PE 0207452F <i>I DCAPES</i> | 674802 <i>I D</i> | OCAPES Increment 2A |

Schedule Details

| | St | art | E | nd |
|---|---------|------|---------|------|
| Events | Quarter | Year | Quarter | Year |
| DCAPES Increment 2A (Nov 16) | 1 | 2016 | 1 | 2016 |
| v5.0.0.2 (JOPES Outbound - Loose Coupling Complete) Fielding (Nov 15) | 1 | 2016 | 1 | 2016 |
| Full Deployment Decision (FDD) (Oct 15) | 1 | 2016 | 1 | 2016 |
| Full Deployment (FD) (Oct 15) | 1 | 2016 | 1 | 2016 |

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