Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced PE 1206438F I Space Control Technology

Date: February 2019

Component Development & Prototypes (ACD&P)

| , , , , , , , , , , , , , , , , , , , | -71(| / | | | | | | | | | | |
|---|----------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|---------------|
| COST (\$ in Millions) | Prior Years | FY 2018 | FY 2019 | FY 2020 Base | FY 2020 OCO | FY 2020 Total | FY 2021 | FY 2022 | FY 2023 | FY 2024 | Cost To Complete | Total Cost |
| Total Program Element | - | 44.139 | 91.646 | 64.231 | 0.000 | 64.231 | 75.200 | 77.539 | 100.995 | 51.963 | Continuing | Continuing |
| 642611: Technology Insertion Planning and Analysis | - | 44.139 | 91.646 | 64.231 | 0.000 | 64.231 | 75.200 | 77.539 | 100.995 | 51.963 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

Note

In FY 2020 and beyond, PE 1206438F, Space Control Technology, Project 642611, Technology Insertion Planning and Analysis, Experimentation Platforms efforts are transferred to PE 1206427F, Space Systems Prototype Transitions, Project 645601, in order to better align funding with related efforts.

A. Mission Description and Budget Item Justification

This project supports a range of activities including systems engineering, technology planning, development, demonstrations and prototyping, and testing, as well as modeling, simulations and exercises to support development and maturation of tactics and procedures for a responsive and resilient Space Control mission area. This includes technology development and prototyping for Defensive Counterspace (DCS) and Offensive Counterspace (OCS) and the necessary systems engineering for the warfighter to effectively employ such systems.

Specifically supported are DCS and Space Situational Awareness (SSA) activities which include developing threat warning payloads for monitoring, detecting, identifying, tracking, assessing, verifying, categorizing, and characterizing objects and events in space. Additionally, this activity supports the development of payload prototypes and space defense force packages for protecting U.S. space systems, resources, and operations from enemy attempts to negate, interfere, or destroy them.

Specific OCS activities include disruption, denial, or degradation (and associated Electronic Support) of adversary space systems which may be used for purposes hostile to U.S. national security interests. Rapid Reaction Capabilities in response to immediate warfighter needs in the Space Control mission area are developed within this program.

Space acquisition must respond with speed and agility to emerging adversary threats. Space & Missile Systems Center (SMC) is transforming the organization and implementation of space acquisition to an enterprise approach, maximizing innovation and resiliency, leveraging international, commercial, and mission partnerships, and managing program/project priorities according to an integrated unclassified/classified enterprise space architecture. Expanding the appropriate acquisition authorities and contract mechanisms to deliver capability sooner, SMC will strategically execute experimentation, prototyping, risk reduction, and other efforts to develop new or repurpose capabilities.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver SCT weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 1206392F and 1206398F.

PE 1206438F: Space Control Technology

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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force **Date:** February 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced PE 1206438F I Space Control Technology Component Development & Prototypes (ACD&P)

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

This effort 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 2018 | FY 2019 | FY 2020 Base | FY 2020 OCO | FY 2020 Total |
|---|---------|---------|--------------|-------------|---------------|
| Previous President's Budget | 7.842 | 92.118 | 82.252 | 0.000 | 82.252 |
| Current President's Budget | 44.139 | 91.646 | 64.231 | 0.000 | 64.231 |
| Total Adjustments | 36.297 | -0.472 | -18.021 | 0.000 | -18.021 |
| Congressional General Reductions | 0.000 | -0.472 | | | |
| Congressional Directed Reductions | 0.000 | 0.000 | | | |
| Congressional Rescissions | 0.000 | 0.000 | | | |
| Congressional Adds | 30.000 | 0.000 | | | |
| Congressional Directed Transfers | 0.000 | 0.000 | | | |
| Reprogrammings | 0.000 | 0.000 | | | |
| SBIR/STTR Transfer | -1.503 | 0.000 | | | |
| Other Adjustments | 7.800 | 0.000 | -18.021 | 0.000 | -18.021 |

Change Summary Explanation

FY 2018: \$30.000M Congressional increase for Space Defense Force Packaging; \$7.8M OCO funding

FY 2020: \$18.021M decrease for Experimentation Platforms transfer to dedicated PE 1206427F, Space Systems Prototype Transitions.

| C. Accomplishments/Planned Programs (\$ in Millions) | FY 2018 | FY 2019 | FY 2020 |
|---|---------|---------|---------|
| Title: Rapid Reaction Branch | 15.642 | 25.656 | 21.612 |
| Description: Develops advanced capabilities for rapid prototyping and integration into space control programs of record and, if requested, to warfighter Urgent Operational Needs (UONs) and Joint Urgent Operational Needs (JUONs). Conducts prototyping, demonstration, testing, and rapid transition of technology and techniques to space control systems. | | | |
| FY 2019 Plans: Develop, test, and field enhancements for a fielded prototype-capability in USCENTCOM. Test and field second increment of operationalized prototype for USINDOPACOM. Field prototype capability to fulfill emergent USAFRICOM requirement. Develop and test enhancements to two prototypes that were transitioned to a program-of-record in FY 2017. Complete integration and test | | | |

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|---|--|---------|--------------|---------|
| Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force | | Date: F | ebruary 2019 |) |
| Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P) | R-1 Program Element (Number/Name) PE 1206438F / Space Control Technology | , | | |
| C. Accomplishments/Planned Programs (\$ in Millions) | | FY 2018 | FY 2019 | FY 2020 |
| of a technology prototype for a program-of-record. Continue program office supinclude, but are not limited to studies, technical analysis, prototyping, etc. | pport and other related support activities that may | | | |
| FY 2019 OCO supports pre-planned product improvements and version upgrad locations in support of Operation Inherent Resolve | des of advanced capabilities deployed to two | | | |
| FY 2020 Plans: Develop, test, train, field, transition and sustain advanced rapid reaction capabilities multiple Combatant Commands. Conduct initial technical development and systems and technologies in preparation for operational requirements. Develop activities within the Space Control Technology portfolio. Integrate and evaluate information assurance constructs and controls into developmental platforms to activities, at CONUS & OCONUS locations, to verify system performance in the reaction capabilities in response to evolving threats and operator feedback. Rasituational awareness necessary to operate in the contested space domain. Aconffice support, studies, technical analysis, experimentation, prototyping, etc. | d integration activities against relevant threat and test advanced prototypes in support of relevant GRA Increment 4 technologies. Integrate expedite fielding. Execute field development & test experies operational environment. Enhance fielded rapid apidly respond to implement system resiliency and | | | |
| FY 2019 to FY 2020 Increase/Decrease Statement: FY 2020 decreased compared to FY 2019 by \$4.044M. Justification for this de | crease is described in the plans above. | | | |
| Title: Experimentation Platforms & Defense Force Packaging | | 28.497 | 65.990 | 42.619 |
| Description: This effort will acquire, outfit and operate microsat busses with the technologies, flight testing payloads or subsystems, and validating Tactics, Technologies, flight testing payloads or subsystems, and validating Tactics, Technologies, flight testing payloads are supported throughout all phases of a future space conflict. It also supports a range of activities developing, prototyping, and fielding a family resilience payloads supporting threat warning and protection options for National payloads will be integrated with enterprise command and control capabilities for prototype demonstrations will be performed to demonstrate sensor/payload capacities. Systems Engineering will enable the integration, interoperability systems and capabilities amongst each other and amongst these new systems | chniques, and Procedures (TTPs) to ensure the against an adaptive and thinking adversary. illy of on-board and near-board, modular al Security Space High-Value satellites. These r tasking, reporting, and response. On-orbit pabilities for high-value satellite force packaging and compatibility of new space control technology | | | |
| FY 2019 Plans: Acquire two non-developmental microsat satellites to be flown on a Long Durati Test Program mission or other ridesharing opportunity. Procure and/or integrate busses and/or operational assets. Plan and execute microsat on-orbit flight exp | e experimental payloads or sensors on microsat | | | |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force | | Date: F | ebruary 2019 | ı |
|--|---|---------|--------------|---------|
| Appropriation/Budget Activity 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced Component Development & Prototypes (ACD&P) | R-1 Program Element (Number/Name) PE 1206438F / Space Control Technology | | | |
| C. Accomplishments/Planned Programs (\$ in Millions) | | FY 2018 | FY 2019 | FY 2020 |
| payload/sensor data; and evaluate the military utility of coalition air, land, sea threats/scenarios in order to prioritize current and future capability gaps and v | | | | |
| Initiate development of selected sensor/response payloads (from mod/sim an threat warning and response payloads for high-value satellites. Initiate protot trades and build-out in support space control C2 and space range requirement value satellite bus requirements for force packaging on-ramps. | ype and operations ground infrastructure design | | | |
| Define enterprise interfaces and standards with System-of-Systems Model-Badetermine critical paths and nodes, timing requirements, risks, and opportunit to ensure system performance in contested space and cyber domains. Continuativities that may include, but are not limited to studies, technical analysis, page 15. | ies. Define developmental and operational test plans nue program office support and other related support | | | |
| FY 2020 Plans: Continue development of selected sensor/response payloads (from mod/sim threat warning and response payloads for high-value satellites. Continue pro trades and build-out in support space control C2 and space range requirement value satellite bus requirements for force packaging on-ramps. | totype and operations ground infrastructure design | | | |
| Create and mature systems engineering models for space control scenarios a interconnected virtual representation of the SY enterprise. Exercise those mo requirements, risks, and opportunities. | | | | |
| Define various systems engineering functions, tools, procedures, and best praaffordable space systems. Perform systems engineering support tasks. Perform technology needs identification, prioritization, and solution development. Rapisituational awareness necessary to operate in the contested space domain. Office support, studies, technical analysis, experimentation, prototyping, etc. | rm maturation and transition of new technology, and dly respond to implement system resiliency and | | | |
| FY 2019 to FY 2020 Increase/Decrease Statement: FY 2020 decreased compared to FY 2019 by \$23.371M. Justification for this an \$18.021M transfer to PE 1206427F. | decrease is described in the plans above, including | | | |
| | Accomplishments/Planned Programs Subtotals | 44.139 | 91.646 | 64.23 |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force | | Date: February 2019 |
|--|--|---------------------|
| Appropriation/Budget Activity | R-1 Program Element (Number/Name) | |
| 3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced | PE 1206438F I Space Control Technology | |
| Component Development & Prototypes (ACD&P) | | |
| D. Other Program Funding Summary (\$ in Millions) | | |

N/A

Remarks

E. Acquisition Strategy

All contracts funded in this program element will be awarded using competitive procedures to the maximum extent possible. SCT program consists of numerous small projects. Space Defense Force Packaging and Experimentation Platforms initiative consists of several interrelated activities that require close coordination and integration, which may reduce the opportunities for independent competitive contracting actions.

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 A | ۱ir |
|--|-----|
| Force performance goals and most importantly, how they contribute to our mission. | |

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Air Force

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| Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Air Force | | | Date: February 2019 |
|---|---|-----|--|
| · · · · · · · · · · · · · · · · · · · | , | , , | umber/Name) Technology Insertion Planning and |

| Product Developmen | nt (\$ in Mi | Ilions) | | FY 2 | 2018 | FY 2 | 2019 | FY 2 Ba | | FY 2 | | FY 2020 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 |
| SCT Counterspace Technology Prototyping/ Rapid Reaction Development | Various | Various : Various | , | 6.605 | Jan 2018 | 22.888 | Jan 2019 | 20.092 | Oct 2019 | - | | 20.092 | Continuing | Continuing | - |
| SCT Technical Mission Analysis | RO | Aerospace : El Segundo, CA | - | 0.730 | Oct 2017 | - | | - | | - | | - | Continuing | Continuing | - |
| SCT Foundational Architecture | C/FFP | TBD : El Segundo, CA | - | - | | 8.804 | Feb 2019 | 8.319 | Oct 2019 | - | | 8.319 | Continuing | Continuing | - |
| SCT Experimentation Platforms Sensors | C/CPIF | Various : Various, CA | - | - | | 5.900 | Jan 2019 | - | | - | | - | Continuing | Continuing | - |
| SCT Experimentation Platforms Microsat Buses | C/FFP | Various : Various, CA | - | - | | 10.800 | Jan 2019 | - | | - | | - | Continuing | Continuing | - |
| SCT Modeling & Sim; Payload Analysis and Alternatives | C/Various | Various : Various, CA | - | 13.000 | Dec 2018 | 12.043 | May 2019 | 6.500 | Oct 2019 | - | | 6.500 | Continuing | Continuing | - |
| SCT OCO Funding P3I | Various | Various : Various | - | 7.800 | Jul 2018 | 1.100 | Jan 2019 | - | | - | | - | Continuing | Continuing | - |
| SCT Sensor Prototype Development | C/Various | Various : Various, CA | - | 15.497 | Jan 2019 | 23.320 | Feb 2019 | 24.300 | Oct 2019 | - | | 24.300 | Continuing | Continuing | - |
| SCT Ground Infrastructure | Various | Various : Various, CA | - | - | | 0.500 | Oct 2018 | 2.500 | Oct 2019 | - | | 2.500 | Continuing | Continuing | - |
| SCT High-Value Satellite Bus Requirements | Various | Various : Various, CA | - | - | | 1.500 | Feb 2019 | 1.000 | Oct 2019 | - | | 1.000 | Continuing | Continuing | - |
| | | Subtotal | - | 43.632 | | 86.855 | | 62.711 | | - | | 62.711 | Continuing | Continuing | N/A |

Remarks

N/A

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| Exhibit R-3, RDT&E | Project C | ost Analysis: PB 2 | 2020 Air F | orce | | | | | | | | Date: | February | / 2019 | |
|---|------------------------------|---|----------------|--------|---------------|--------|-------------------------|------------|---------------|------|---------------|-------------------------------------|------------|---------------|--------------------------------|
| Appropriation/Budg 3600 / 4 | et Activity | 1 | | | | | ogram Ele 16438F / S | | | | _ | t (Numbe i I Technoi s | | rtion Plan | ning and |
| Support (\$ in Million | ns) | | | FY 2 | 2018 | FY: | 2019 | | 2020 ase | | 2020 CO | FY 2020 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 |
| Civilian Reimbursable Budget Authority | Various | Space and Missile Systems Center : El Segundo, CA | - | - | | 0.180 | Oct 2018 | - | | - | | - | Continuing | Continuing | - |
| | _ | Subtotal | - | - | | 0.180 | | - | | - | | - | Continuing | Continuing | N/A |
| Management Servic | es (\$ in M | illions) | | FY 2 | 2018 | FY: | 2019 | | 2020 ase | | 2020 CO | FY 2020 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 |
| A&AS | Various | Various : Various, CA | - | 0.507 | Jan 2018 | 3.311 | Feb 2019 | 1.520 | Jan 2020 | - | | 1.520 | Continuing | Continuing | - |
| FFRDC | Various | Various : Various, CA | - | - | | 1.000 | Oct 2018 | - | | - | | - | Continuing | Continuing | - |
| Other Support | Various | Various : Various, CA | - | - | | 0.300 | Oct 2018 | - | | - | | - | Continuing | Continuing | - |
| | <u>'</u> | Subtotal | - | 0.507 | | 4.611 | | 1.520 | | - | | 1.520 | Continuing | Continuing | N/A |
| | | | Prior Years | FY 2 | 2018 | FY: | 2019 | FY 2 Ba | 2020 ase | | 2020 CO | FY 2020 Total | Cost To | Total Cost | Target Value of Contract |
| | | Project Cost Totals | - | 44.139 | | 91.646 | | 64.231 | | - | | 64.231 | Continuing | Continuing | N/A |

Remarks

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Air Force

| khibit R-4, RDT&E Schedule Profile: PB 2020 A | ir Fo | rce | | | | | | | | | | | | | | | | | | D | ate: I | -et | ruar | y 20 |)19 | |
|--|-------|-----|---|-------|-----|-------|---|---|------|---|---|---|------|-----------------|------------|-------|-------|---|---------------|---|----------------|-----|------|------|-------|-------|
| propriation/Budget Activity 00 / 4 | | | | | | | | | | | | | | ber/N / Tec/ | | | 64 | | 11 <i>Ì</i> 7 | | nber/ hnolo | | | rtio | n Pla | nninç |
| | | Y 2 | | | _ | 201 | _ | | FY 2 | | | | Y 20 | | | | Y 202 | _ | | | Y 202 | | | | Y 20 | |
| RRB | 1 | 2 | 3 | 4 1 | 1 2 | 2 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 4 | <u>ا</u> ا | 1 : | 2 3 | 4 | l 1 | | 2 3 | | 4 | 1 | 2 3 | 4 |
| Rapid Prototyping | _ | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signal Processing Lab Gov't Reference Architecture (GRA) Dev Inc 3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signal Processing Lab GRA (dev) Increment 4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signal Processing Lab GRA (dev) Increment 5 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Signal Processing Lab GRA (dev) Increment 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Counterspace Systems Developmental Test (plan/execute/report) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capability Integration (Lab) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capability tests (execute/report) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ongoing capability DT planning/execution | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Experimentation Platforms & Defense Force Packaging | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Award SE&I Contract | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Enterprise Systems Engineering | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Microsat Satellite Bus Procurement | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sensor Procurement | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flight Experiments and Prototype Ops | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Military Utility Assessment | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Database of Architectural Elements | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Modeling & Simulation; Payload Analysis and Alternatives | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Exhibit R-4, RDT&E Schedule Profile: PB 2020 A | ir Fo | rce | | | | | | | | | | | | | | | | | | | | Dat | e: Fe | bru | ary : | 2019 | 9 | |
|--|-------|-------|-----|---|----|----|----|---|---|----|-----|---------------|---|----|-----|----|---|-----|-----|---------------|---|-----|-------|-------|--------|------|------|---|
| Appropriation/Budget Activity 8600 / 4 | | | | | | | | | | | | mbe trol 7 | | | | 64 | | ÌΤε | | er/Na olog | | | ion F | Planr | ning (| | | |
| | F | FY 20 | 18 | | FΥ | 20 | 19 | | | FY | 202 | 0 | | FY | 202 | 21 | | FY | 202 | 2 | | FY | 2023 | | | FY 2 | 2024 | |
| | 1 | 2 3 | 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 |
| Sensor Prototype Development | | | · | | | | | | | | | | | | | | | · | · | | | | | | | | | |
| Ground Infrastructure | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCT High-Value Satellite Bus Requirements Definition | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Air Force

| Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force | | | Date: February 2019 |
|---|---|-------|---|
| Appropriation/Budget Activity 3600 / 4 | 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | - 3 (| umber/Name) echnology Insertion Planning and |

Schedule Details

| | Start | | End | |
|--|---------|------|---------|------|
| Events by Sub Project | Quarter | Year | Quarter | Year |
| RRB | | | | |
| Rapid Prototyping | 1 | 2018 | 4 | 2024 |
| Signal Processing Lab Gov't Reference Architecture (GRA) Dev Inc 3 | 1 | 2018 | 2 | 2019 |
| Signal Processing Lab GRA (dev) Increment 4 | 1 | 2019 | 4 | 2021 |
| Signal Processing Lab GRA (dev) Increment 5 | 3 | 2021 | 2 | 2024 |
| Signal Processing Lab GRA (dev) Increment 6 | 1 | 2024 | 4 | 2024 |
| Counterspace Systems Developmental Test (plan/execute/report) | 1 | 2018 | 3 | 2018 |
| Capability Integration (Lab) | 1 | 2018 | 4 | 2023 |
| Capability tests (execute/report) | 1 | 2018 | 4 | 2023 |
| Ongoing capability DT planning/execution | 1 | 2018 | 4 | 2023 |
| Experimentation Platforms & Defense Force Packaging | | | | |
| Award SE&I Contract | 2 | 2019 | 2 | 2019 |
| Enterprise Systems Engineering | 1 | 2020 | 4 | 2020 |
| Microsat Satellite Bus Procurement | 1 | 2019 | 1 | 2020 |
| Sensor Procurement | 1 | 2019 | 1 | 2020 |
| Flight Experiments and Prototype Ops | 2 | 2019 | 4 | 2020 |
| Military Utility Assessment | 1 | 2019 | 4 | 2020 |
| Database of Architectural Elements | 1 | 2019 | 4 | 2020 |
| Modeling & Simulation; Payload Analysis and Alternatives | 1 | 2019 | 4 | 2022 |
| Sensor Prototype Development | 2 | 2018 | 4 | 2021 |
| Ground Infrastructure | 2 | 2018 | 4 | 2022 |
| SCT High-Value Satellite Bus Requirements Definition | 2 | 2019 | 4 | 2021 |

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