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|---|--|--|--|--|--|---|--|------------------------------|--|
| Exhibit R-2, RDT&E BUDGET ITEM JUSTIFICATION | | | | | | | | DATE February 1999 | |
| APPROPRIATION/BUDGET ACTIVITY | | | | | | R-1 ITEM NOMENCLATURE | | | |
| RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7 | | | | | | Tactical Unmanned Aerial Vehicles (TUAV) PE 0305204D8Z | | | |

| COST (IN MILLIONS) | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | Cost to Complete | Total Cost |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| Total PE Cost | 53.871 | * | * | * | * | * | * | * | * | * |
| Total Project Cost/No. and Subtotal Cost Tactical Control System (TCS)/P802 | 42.013 | * | * | * | * | * | * | * | * | * |
| Total Project Cost/No. and Subtotal Cost Common Systems Development (CSD)/P803 | 11.858 | * | * | * | * | * | * | * | * | * |
| Quantity of RDT&E Articles | | | | | | | | | | |

* Per FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the TUAV funds for FY00-05 were transferred to the Navy (PE 0305204N).

A. Mission Description and Budget Item Justification

Brief Description of Element: The non-lethal tactical UAV systems for DoD provide warfighters with a dedicated capability for day/night aerial reconnaissance, surveillance and target acquisition (RSTA); intelligence; communications/data relay; electronic warfare; weather data collection to support combat operations; minefield detection; and nuclear, biological and chemical reconnaissance in limited adverse weather. Tactical UAVs provide ground and naval commanders with near-real-time reconnaissance capability for sustained, deep RSTA support, and combat assessment (CA). UAV support to the maneuver battalions and brigades incorporates downsized, portable equipment that is capable of rapid deployment, easy to operate and maintain with minimum manpower and training requirements, and capable of launch and recovery in a constrained operating environment. The shipboard capability supports the Naval Task Forces. UAVs are intended for deployment in environments where immediate feedback is necessary and manned aircraft are unavailable or excessive risk makes the use of manned aircraft undesirable. Current Hunter UAV assets support training and UAV commonality and interoperability efforts. Scaleability requirements are captured in the Tactical Control System (TCS) to meet users' operational needs at multiple echelons. The Outrider Tactical UAV (TUAV) Advanced Concept Technology Demonstration (ACTD) provided a single UAV that moves towards meeting Joint Services tactical UAV requirements. The TUAV endurance objective is to provide four hours flying time on station at a distance of up to 200 kilometers. The baseline

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payload is electro-optical/infra-red (EO/IR). Growth payloads will expand TUAV RSTA capabilities. The basic ACTD includes risk mitigation efforts of a UAV Common Automatic Recovery System (UCARS).

The Outrider ACTD program demonstrated Joint Services (Army, Navy, and Marine Corps) tactical UAV requirements culminating in each Service's Military Utility Assessment. Low Rate Initial Production (LRIP) and Operational Test and Evaluation (OT&E) addresses the ground based and shipboard operations of tactical UAVs. In addition, efforts are underway to develop a common TCS to provide an interoperable capability for control of the spectrum of present and future tactical UAV air vehicles and payloads utilized by the military services for RSTA and CA. TCS will interface with the High Altitude Endurance (HAE) UAV systems and multiple C4I systems. TCS is structured to develop concepts of operation in conjunction with warfighters, to transform the operational concepts into a technical architecture with technical performance parameters, to demonstrate key capabilities through a rapid prototyping and demonstration effort, and to conduct supporting analyses, simulations, and trade studies leading to production in FY99. The Systems Integration Laboratory (SIL) is an integral part of the TCS development. The SIL allows the integration and simulation of air vehicles, payloads, and system upgrades prior to actual flight. Integration of software and hardware within this controlled laboratory environment reduces the cost of test and evaluation and the risks associated with actual flight test. The Common Systems Development (CSD) provides for system interoperability and commonality among UAVs. Efforts such as open architecture, payload development, joint logistics, and simulation and modeling continue to ensure reduced life cycle costs, improved supportability, and the exploitation of technological advancement having UAV application. This program is categorized as Budget Activity 7 because it provides for development of technologies and capabilities in support of operational system development.

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| COST (IN MILLIONS) | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | Cost to Complete | Total Cost |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| Total PE Cost | 53.871 | * | * | * | * | * | * | * | * | * |
| Total Project Cost/No. and Subtotal Cost Tactical Control System (TCS)/P802 | 42.013 | * | * | * | * | * | * | * | * | * |
| Quantity of RDT&E Articles | | | | | | | | | | |

* Per FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the TUAV funds for FY00-05 were transferred to the Navy (PE 0305204N).

A. Mission Description and Budget Item Justification

Brief Description of Element: The Tactical Control System (TCS) provides interoperability and commonality for mission planning, command, control, communications, and data dissemination for the current and future family of tactical and Medium Altitude Endurance (MAE) Unmanned Aerial Vehicles (UAVs). It provides a full range of scaleable UAV capability from passive receipt of air vehicle and payload data to full air vehicle command and control. TCS functionality supports the joint warfighter with a common core operation environment to receive, process, and disseminate UAV air vehicle and payload data from two or more different UAV types for reconnaissance, surveillance, and combat assessment. TCS also has an objective capability to receive and disseminate payload information from the Global Hawk and DarkStar endurance UAVs. TCS supports seamless integration into the existing C4I architecture and interfaces with other manned and unmanned reconnaissance platforms and intelligence systems providing information superiority through cross cueing. TCS maximizes the use of Commercial and Government off-the-shelf (COTs and GOTs) hardware and software whenever possible. TCS software will be interoperable and operate on existing service computer platforms and compliant with the ASD(C3I) Joint Technical Architecture (JTA), Distributed Common Ground System (DCGS), Common Imagery Ground/Surface Station (CIGSS), and the United States Imagery Standards, and Defense Information Infrastructure/Common Operating Environment (DII-COE). The UAV Joint Technology Center and Systems Integration Laboratory (JTC/SIL) supports the assessment of system integration readiness prior to actual flight testing. The JTC/SIL provides for hardware-in-the-loop tests of payloads, air vehicles (A/V), ground system components, and joint interoperable interface and UAV Concept of Operations (CONOPS) evaluations using the Multiple UAV Simulation Environment (MUSE) in Advanced Warfighting Exercises (AWEs). The NATO Industrial

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Advisory Group, Project 35, has undertaken a study to define a common interoperable NATO UAV ground control system architecture. Current plans include an interoperable demonstration with a German UAV.

Programs Accomplishments and Plans: (\$ in millions)

FY 1998 Accomplishments: (\$42.013)

- Continued prototype demonstrations of land and sea-based TCS including mission planning, air vehicle, and payload control of Predator and TUAV (\$8.373)
- Continued TCS evolutionary development, engineering and integration efforts to include demonstration of scaleability, portability, mission planning and C4I integration, and select a Systems Integration contractor (\$15.620)
- Continued documentation of system requirements (\$2.120)
- Continued JTC/SIL rapid prototyping, simulation and modeling, systems integration and interoperability and test including establishment of a development baseline (\$6.000)
- Continued participation in joint warfighting experiments and Service exercises for refinement of CONOPS: FLTEX 98, Division XXI experiments, etc. (Contingent on funding from Services: \$0.000)
- Acquired Predator AV and additional supporting assets (\$8.000)
- Selected Logicon Corporation for Flight Route and Payload Planning Software for integration into TCS (\$0.900)
- Awarded LRIP System Design, Test and Integration (SDTI) contract (\$1.000)
- Conducted MS II review

*** Per FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the TUAV funds for FY00-05 were transferred to the Navy (PE 0305204N).**

Acquisition Strategy: The TCS design and development effort completed its Program Definition and Risk Reduction phase (Phase I) at the end of FY98; Engineering and Manufacturing Development (EMD) phase (Phase II) begins in September 1998. A major effort during the EMD phase will be the integration of government furnished TCS hardware and software components by a Systems Design, Test and Integration (SDTI) contractor for four Low Rate Initial Production (LRIP) systems. The SDTI contract will be a full and open competitive procurement

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with a planned award date of 4Q FY98. Options for Full Rate Production (Phase III) of additional TCS systems will be included in the basic SDTI contract. The scheduled Initial Operational Capability (IOC) of the TCS is 2Q FY00; Full Operational Capability (FOC) is 2Q FY01. IOC will be achieved after each service has fielded one production representative system with interim Integrated Logistics Support (ILS) (training, spares, technical publications, support equipment) in place and testing (developmental and operational) completed. FOC will be achieved when full attainment of capability is provided by in-place maintenance and repair support, software support, test equipment and spares and systems are effectively employed and operated by the service's hosting unit or force.

B. Program Change Summary

| | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>Total Cost</u> |
|-----------------------------|----------------|----------------|----------------|----------------|-------------------|
| Previous President's Budget | 40.7 | * | * | * | * |
| Net Change | <u>1.3</u> | | | | |
| President's Budget Request | 42.0 | * | * | * | * |

* Per FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the TUAV funds for FY00-05 were transferred to the Navy (PE 0305204N).

Change Summary Explanation:

- Funding: The change in funding is a result of internal realignments within the DARP.
- Schedule: N/A
- Technical: N/A

C. Other Program Funding Summary Cost

N/A

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D. Schedule Profile

Fiscal Year actual and planned events by quarter

| | <u>FY 1998</u> | | | | <u>FY 1999</u> | | | | <u>FY 2000</u> | | | | <u>FY 2001</u> | | | |
|---|----------------|-------|-------|---|----------------|---|---|---|----------------|---|---|---|----------------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Acquisition Milestones | | | | | | | | | | | | | | | | |
| MS II | | | | X | | | | | | | | | | | | |
| Engineering Milestones | | | | | | | | | | | | | | | | |
| SIL (System Integration/Test) | _____ | | | | | | | | | | | | | | | |
| MAE/TUAV Interoperability | _____ | | | | | | | | | | | | | | | |
| Other Program Events | | | | | | | | | | | | | | | | |
| TCS Capability for Predator/Outrider | | | | | | | | | | | | | | | | |
| Receive Payload Data | X | X | | | | | | | | | | | | | | |
| Mission Plan | | X | _____ | X | | | | | | | | | | | | |
| <u>Tactical Control System (TCS)</u> | | | | | | | | | | | | | | | | |
| AV Control | | X | _____ | X | | | | | | | | | | | | |
| C4I Integration | X | _____ | | | | | | | | | | | | | | |
| Demos | X | _____ | | | | | | X | | | | | | | | |

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| COST (IN MILLIONS) | FY 1998 | FY 1999 | FY 2000 | FY 2001 | FY 2002 | FY 2003 | FY 2004 | FY 2005 | Cost to Complete | Total Cost |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------------|-------------------|
| Total PE Cost | 53.871 | * | * | * | * | * | * | * | * | * |
| Total Project Cost/No. and Subtotal Cost CSD/P803 | 11.858 | * | * | * | * | * | * | * | * | * |
| Quantity of RDT&E Articles | | | | | | | | | | |

* Per FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the TUAV funds for FY00-05 were transferred to the Navy (PE 0305204N).

Brief Description of Element: Common Systems Development (CSD) pursues the RDT&E and production of systems common to the tactical family of UAVs (Pioneer, Outrider, Predator), including growth payloads and subsystems; performs user demonstrations of emerging UAV technologies; manages UAV joint international programs; and provides cross-functional support in the areas of logistics, simulation, test, and operations research. CSD supports testing, common system integration, and subsystems development for UAVs, including the UAV Common Automatic Recovery System (UCARS) and Modular Integrated Avionics Group (MIAG); and supports initiatives to reduce life cycle costs, improve supportability, and exploit commercial and Non Developmental Item (NDI) technology having UAV applications. CSD also provides user demonstration, integration, test, and qualification of JROC-prioritized growth payloads such as communication/data relay, electronic warfare, laser designator, and chemical/biological reconnaissance; demonstrates alternative UAV technologies and concepts, including Vertical Take Off and Landing (VTOL) and Multifunction Self-Aligned Gate (MIAG) active array antennas; provides small UAV capabilities in response to unique warfighter requirements. CSD's International program efforts include cooperation R&D arrangements with major NATO and non-NATO allies, and providing day-to-day management and policy oversight regarding UAV export control and foreign military sales.

Programs Accomplishments and Plans: (\$ in millions)

FY 1998 Accomplishments: (\$11.858)

- Conducted Congressionally-directed research of Multi-function Self-Aligned Gate (MSAG) active array antenna (\$3.795)
- Continued Congressionally directed flight demonstration of VTOL UAV technology (\$1.921)

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- Initiated Congressionally directed Stopped-Rotor/Reaction Drive/High Speed VTOL UAV Concept Technology Demonstration (\$6.142)

*** Per FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the TUAV funds for FY00-05 were transferred to the Navy (PE 0305204N).**

Acquisition Strategy:

The CSD promotes the maximum use of common and interoperable hardware, software, and non-developmental items (NDI) technology in an effort to support Joint Service UAV operations, streamline maintenance/support, and reduce life cycle cost. It exploits technology advancements that have UAV application through integration and demonstrations.

| B. <u>Program Change Summary</u> | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>FY 2001</u> | <u>Total Cost</u> |
|---|-----------------------|-----------------------|-----------------------|-----------------------|--------------------------|
| Previous President's Budget | 11.5 | * | * | * | * |
| Net Change | <u>.4</u> | | | | |
| President's Budget Request | 11.9 | * | * | * | * |

* Per FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the TUAV funds for FY00-05 were transferred to the Navy (PE 0305204N).

Change Summary Explanation:

- Funding: The change from previous funding is a result of internal realignments within the DARP.
- Schedule: N/A
- Technical: N/A

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C. Other Program Funding Summary Cost

N/A

* Per FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the TUAV funds for FY00-05 were transferred to the Navy (PE 0305204N).

D. Schedule Profile

Fiscal Year actual and planned events by quarter

| | <u>FY 1998</u> | | | | <u>FY 1999</u> | | | | <u>FY 2000</u> | | | | <u>FY 2001</u> | | | |
|---|----------------|---|---|-----|----------------|---|---|---|----------------|---|---|---|----------------|---|---|---|
| | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Engineering Milestones | | | | | | | | | | | | | | | | |
| UCARS Baselined | | | | X | | | | | | | | | | | | |
| T&E Milestones | | | | | | | | | | | | | | | | |
| UCARS Systems Qualification | | | | X | | | | | | | | | | | | |
| VTOL Flight Test | | | | X-X | | | | | | | | | | | | |
| Pioneer/ MIAG Demonstration | | | | X | | | | | | | | | | | | |
| MIAG Production Qualification | | | | X | ----- | | | | | | | | | | X | |
| MSAG Active Array Antenna Flight Demo | | | | X | | | | | | | | | | | | |
| Contract Milestones | | | | | | | | | | | | | | | | |
| VTOL Demonstration Contract Awards | | | | X | | | | | | | | | | | X | |
| VTOL Advanced Technology Contract Award | | | | | | | | | | | | | | | X | |
| - UCARS/MIAG Upgrade Award | | | | | | | | | | | | | | | | |

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| Exhibit R-3 Cost Analysis (page 1) | | | | | | | | | | DATE February 1999 | | |
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| APPROPRIATION/BUDGET ACTIVITY | | | | PROGRAM ELEMENT | | | | | | PROJECT NAME AND NUMBER | | |
| RDT&E, DEFENSE-WIDE/BUDGET ACTIVITY 7 | | | | PE 0305204D8Z | | | | | | Tactical Unmanned Aerial Vehicles (TUAV)/P802 | | |
| Cost Categories (Tailor to WBS, or System/Item Requirements) | Contract Method & Type | Performing Activity & Location | Total PY Cost | 1999 Cost* | 1999 Award Date | 2000 Cost * | 2000 Award Date | 2001 Cost * | 2001 Award Date | Cost to Complete * | Total Cost * | Target Value of Contract |
| Primary Hardware Development | | | 3.378 | | | | | | | | | |
| Ancillary Hardware Development | | | 4.593 | | | | | | | | | |
| Systems Engineering | | | 3.736 | | | | | | | | | |
| Licenses | | | | | | | | | | | | |
| Tooling | | | | | | | | | | | | |
| GFE | | | | | | | | | | | | |
| Award Fees | | | | | | | | | | | | |
| Subtotal Product Development | | | 11.707 | | | | | | | | | |
| Remarks | | | | | | | | | | | | |
| Ancillary Hardware Development includes C4I and Data Link Interfaces. | | | | | | | | | | | | |
| Development Support | | | | | | | | | | | | |
| Software Development | | | 4.563 | | | | | | | | | |
| Training/Integrated Logistics Support | | | 1.159 | | | | | | | | | |
| Technical Data/Configuration Management | | | .751 | | | | | | | | | |
| GFE | | | | | | | | | | | | |
| Subtotal Support | | | 6.473 | | | | | | | | | |
| Remarks | | | | | | | | | | | | |

Exhibit R-3, Project Cost Analysis
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| Exhibit R-3 Cost Analysis (page 2) | | | | | | | | | | DATE February 1999 | | |
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| APPROPRIATION/BUDGET ACTIVITY | | | | PROGRAM ELEMENT | | | | | | PROJECT NAME AND NUMBER | | |
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| Cost Categories (Tailor to WBS, or System/Item Requirements) | Contract Method & Type | Performing Activity & Location | Total PY Cost | 1999 Cost* | 1999 Award Date | 2000 Cost * | 2000 Award Date | 2001 Cost * | 2001 Award Date | Cost to Complete * | Total Cost * | Target Value of Contract |
| Development Test & Evaluation | | | 4.970 | | | | | | | | | |
| Operational Test & Evaluation | | | | | | | | | | | | |
| Subtotal T&E | | | 4.970 | | | | | | | | | |
| Remarks | | | | | | | | | | | | |
| Contractor Engineering Support | | | | | | | | | | | | |
| Systems Integrator | CPAF | | .500 | | | | | | | | | |
| Alliant Techsystems | CPFF | Hopkins, MN | | | | | | | | | | |
| Labor | | | .959 | | | | | | | | | |
| Material | | | .191 | | | | | | | | | |
| Award Fees | | | .123 | | | | | | | | | |
| General Atomics | CPFF | San Diego, CA | | | | | | | | | | |
| Labor | | | 2.016 | | | | | | | | | |
| Material | | | .075 | | | | | | | | | |
| Award Fee | | | .151 | | | | | | | | | |
| Logicon | CPFF | San Pedro, CA | | | | | | | | | | |
| Labor | | | .300 | | | | | | | | | |
| Program Management Personnel | | | 4.195 | | | | | | | | | |
| Travel | | | .825 | | | | | | | | | |
| Overhead | | | 1.193 | | | | | | | | | |
| Other | | | 8.335 | | | | | | | | | |
| Subtotal Management | | | 18.863 | | | | | | | | | |
| Remarks Overhead includes PEO CU support. Other includes early UAV development efforts and MUSE support. | | | | | | | | | | | | |
| Total Cost | | | 42.013 | | | | | | | | | |
| Remarks * Per FY 1999 Appropriations Act, the funds for FY 99 were transferred to the Services/Defense Agencies in various PEs; per the Program Decision Memorandum (PDM), the TUAV funds for FY00-05 were transferred to the Navy (PE 0305204N). | | | | | | | | | | | | |

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