| EXHIBIT R-2, RDT&E Budget Item Justification | | | | | | DATE: | |
|--|------------------|------------------|---------------|---------|---------|---------|---------|
| | | | | | | Februar | y 2006 |
| APPROPRIATION/BUDGET ACTIVITY | R-1 ITEM NOMEN | CLATURE | | | | | |
| RESEARCH DEVELOPMENT TEST & EVALUATION, NAVY / | 0305205N Endurar | nce Unmanned Aei | rial Vehicles | | | | |
| COST (\$ in Millions) | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 |
| Total PE Cost | 64.045 | 0.000 | 26.357 | 118.964 | 251.780 | 240.494 | 124.989 |
| 3061 Global Hawk Maritime Demonstration | 24.700 | | | | | | |
| 4020 BAMS UAV | 39.345 | 0.000 | 26.357 | 118.964 | 251.780 | 240.494 | 124.989 |
| | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

This program element provides for the development of High Altitude Endurance (HAE) Unmanned Aerial Vehicle (UAV) Systems for DoD that provide warfighters with the dedicated capability for Broad Area Maritime Surveillance (BAMS) as standoff persistent, Intelligence, Surveillance and Reconnaissance (ISR) asset. This program includes:

Broad Area Maritime Surveillance (BAMS) UAV. Along with the Multi-mission Maritime Aircraft (MMA), the BAMS UAV is integral in recapitalizing the Navy's airborne ISR force. BAMS UAV will provide a persistent maritime ISR capability that will play a significant role in the Sea Shield and FORCEnet pillars of Sea Power 21. In its Sea Shield role, BAMS UAV's on-station persistence enables unmatched awareness of the maritime battlespace by sustaining the maritime common operational picture for Surface Warfare (SUW) and Global War On Terrorism (GWOT). The system will serve as a Fleet Response Plan enabler while acting as a trip wire for surge forces.

BAMS UAV will be an endurance-class UAV that will operate from land-based sites around the world. Because BAMS UAV and the MMA/P-3 have related, complementary missions, it is intended that BAMS UAV be an adjunct to the P-3 community to enhance manpower, training and maintenance efficiencies. Systems of up to 5-6 air vehicles at each operating location provide persistence by being airborne 24 hours a day, 7 days a week out to on-station ranges of 2,000 nautical miles. Worldwide access will be achieved by providing coverage over nearly all the world's high-density sea-lanes, littorals, and areas of national interest from its operating locations.

BAMS UAV sensor capabilities will include active imaging radar, passive optical imaging, and limited signals collection. Additionally it will have a communications relay capability linking dispersed forces in the theater of operation and serving as a communications node in the Navy's FORCEnet strategy. The BAMS UAV will contribute to providing the Fleet Commander a common operational tactical picture of the battlespace day and night. It will queue other Navy assets for further situational investigation and/or attack, and after attack, will provide battle damage assessment. Data analysis will occur in real-time at shore installations via satellite reach back. Further exploitation can be conducted at shore-based exploitation sites or aboard CVNs / LHDs.

Global Hawk Maritime Demonstration (GHMD) Program. As part of a transformational initiative begun in the fall of 2001, the Navy is procuring two Global Hawk UAVs from the Air Force to support Naval ISR concepts of operation and tactics, training and techniques development; Fleet exercises and familiarization; and cultural acclimation. The program, known as the GHMD Program, participated in the TRIDENT WARRIOR 05 Fleet exercise in December 05.

Capitalizing on an existing production line, the Navy, in February 2003, contracted through the Air Force Global Hawk Program Office for the purchase of two Global Hawk air vehicles, one mission control element (MCE), two launch and recovery elements (LREs), and related support equipment from Northrop Grumman. Baseline sensors include electro-optical, infrared, and synthetic aperture radar. The Navy Global Hawks are identical to the Air Force's except for the inclusion of radar software modifications with inverse synthetic aperture radar (ISAR) and maritime moving target indicator (MMTI) modes that provide limited capabilities in a maritime environment, and LR-100 hardware modules that provide direction-sensing capability of radar emitting targets. GHMD assets will be based at Patuxent River, MD.

Note: \$14.5M in FY 2005 BAMS UAV funds will be used to forward finance FY2006 efforts.

R-1 SHOPPING LIST - Item No. 203

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 1 of 13)

CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | | DATE: | |
|---|------------------|----------------|---------|---------|---------------|------------|---------|---------|
| | | | | | | | Februa | ry 2006 |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMI | ENT NUMBER AND | NAME | | PROJECT NUMBE | R AND NAME | | |
| RDT&E, N / BA-7 | k Maritime Demoi | nstration | | | | | | |
| COST (\$ in Millions) | FY2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | |
| 3061 Global Hawk Maritime Demonstration | 24.700 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| RDT&E Articles Qty | | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Global Hawk Maritime Demonstration (GHMD) Program. As part of a transformational initiative begun in the fall of 2001, the Navy is procuring two Global Hawk UAVs from the Air Force to support Naval ISR concepts of operation and tactics, training and techniques development; Fleet exercises and familiarization; and cultural acclimation. The program, known as the GHMD Program, participated in the TRIDENT WARRIOR 05 Fleet exercise in December 05.

Capitalizing on an existing production line, the Navy, in February 2003, contracted through the Air Force Global Hawk Program Office for the purchase of two Global Hawk air vehicles, one mission control element (MCE), two launch and recovery elements (LREs), and related support equipment from Northrop Grumman. Baseline sensors include electro-optical, infrared, and synthetic aperture radar. The Navy Global Hawks are identical to the Air Force's except for the inclusion of radar software modifications with inverse synthetic aperture radar (ISAR) and maritime moving target indicator (MMTI) modes that provide limited capabilities in a maritime environment, and LR-100 hardware modules that provide direction-sensing capability of radar emitting targets. GHMD assets will be based at Patuxent River, MD.

R-1 SHOPPING LIST - Item No.

203

CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justificat | ion | DATE | |
|--|--|--|---------------|
| PROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMENT NUMBER AND NAME | PROJECT NUMBER AND NAME | February 2006 |
| DT&E, N / BA-7 | 0305205N Endurance Unmanned Aerial Vehicles | 3061 Global Hawk Maritime Demonstration | an. |
| Accomplishments/Planned Program | 000320314 Eliadranec Offinantica Actial Vertices | 5001 Global Flawk Mahaline Bellionshalic | |
| | FY 05 | FY 06 FY 07 | · |
| Accomplishments/Effort/Subtotal Cost | 24.700 | 0.000 0.000 | |
| RDT&E Articles Quantity | | 0.000 | |
| | | | |
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CLASSIFICATION:

| XHIBIT R-2a, RDT&E Project Justification | | | | DATE: | 5 1 0000 |
|--|--|----------|----------------------------|--------------------|-----------------|
| PPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMENT NUMBER AND NAME | | PROJECT NUMBER AND | NAMF | February 2006 |
| RDT&E, N / BA-7 | 0305205N Endurance Unmanned Aerial Vehicle | 9 | 3061 Global Hawk Mari | | |
| (S) (AL), (Y) (S) (S) | 000020014 Endurance Official Med Action Veriloid | <u> </u> | ooo i Global i lawk iviali | anno Bomonottation | |
| C. PROGRAM CHANGE SUMMARY: | | | | | |
| Funding: | FY 05 | FY 06 | FY 07 | | |
| Previous President's Budget | 0.000 | 0.000 | | | |
| Current President's Budget | 24.700 | 0.000 | 0.000 | | |
| Total Adjustments | 24.700 | 0.000 | 0.000 | | |
| Summary of Adjustments | | | | | |
| Congressional Reductions | | | | | |
| Congressional Rescissions | | | | | |
| Congressional Undistributed Reductions | | | | | |
| Congressional Increases | | | | | |
| Economic Assumptions | | | | | |
| Miscellaneous | 24.700 | | | | |
| Subtotal | 24.700 | 0.000 | 0.000 | | |
| Schedule: | | | | | |
| Not Applicable | | | | | |
| пот Арріісавіе | | | | | |
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| Technical: | | | | | |
| Not Applicable | | | | | |
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CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | | DATE: | | |
|---|-------------|---------------|-----------------|---------|---|---------|---------|----------|---------|
| | | | | | | | | Februa | ry 2006 |
| APPROPRIATION/BUDGET ACTIVITY | | LEMENT NUMI | | | PROJECT NUMBER AND NAME | | | | |
| RDT&E, N / BA-7 | 0305205N En | durance Unmar | nned Aerial Vel | nicles | 3061 Global Hawk Maritime Demonstration | | | | |
| D. OTHER PROGRAM FUNDING SUMMARY: | | | | | | | | To | Total |
| Line Item No. & Name | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | Complete | Cost |
| Not Applicable | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| E. ACQUISITION STRATEGY: | | | | | | | | | |
| Not Applicable | | | | | | | | | |
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CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | | | DATE: | |
|---|------------------|------------------|--------------|---------|---------------|------------|---------|---------|
| | | | | | | | Februa | ry 2006 |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEME | ENT NUMBER AND | NAME | | PROJECT NUMBE | R AND NAME | | |
| RDT&E, N / BA-7 | 0305205N Endurar | nce Unmanned Aer | ial Vehicles | | 4020 BAMS UAV | | | |
| COST (\$ in Millions) | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | |
| 4020 BAMS UAV | 39.345 | 0.000 | 26.357 | 118.964 | 251.780 | 240.494 | 124.989 | |
| RDT&E Articles Qty | | | | | | | | |

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

Broad Area Maritime Surveillance (BAMS) UAV. Along with the Multi-mission Maritime Aircraft (MMA), the BAMS UAV is integral in recapitalizing the Navy's airborne intelligence, surveillance, and reconnaissance (ISR) force. BAMS UAV will provide a persistent maritime ISR capability that will play a significant role in the Sea Shield and FORCEnet pillars of Sea Power 21. In its Sea Shield role, BAMS UAV's on-station persistence enables unmatched awareness of the maritime battlespace by sustaining the maritime common operational tactical picture for Surface Warfare (SUW) and Global War On Terrorism (GWOT). The system will serve as a Fleet Response Plan enabler while acting as a trip wire for surge forces.

BAMS UAV will be an endurance-class UAV that will operate from land-based sites around the world. Because BAMS UAV and the MMA/P-3 have related, complementary missions, it is intended that BAMS UAV be an adjunct to the P-3 community to enhance manpower, training and maintenance efficiencies. Systems of up to 5-6 air vehicles at each operating location provide persistence by being airborne 24 hours a day, 7 days a week out to on-station ranges of 2,000 nautical miles. Worldwide access will be achieved by providing coverage over nearly all the world's high-density sea-lanes, littorals, and areas of national interest from its operating locations.

BAMS UAV sensor capabilities will include active imaging radar, passive optical imaging, and limited signals collection. Additionally it will have a communications relay capability linking dispersed forces in the theater of operation and serving as a communications node in the Navy's FORCEnet strategy. The BAMS UAV will contribute to providing the Fleet Commander a common operational tactical picture of the battlespace day and night. It will queue other Navy assets for further situational investigation and/or attack, and after attack, will provide battle damage assessment. Data analysis will occur in real-time at shore installations via satellite reach back. Further exploitation can be conducted at shore-based exploitation sites or aboard CVNs / LHDs.

The program is in a pre-Milestone B phase over FY05-07 that will address technical risk reduction. Milestone B is planned for late FY07 and, based on a competitive system integrator selection process, the System Development and Demonstration (SDD) phase will begin in FY08. Low rate initial production is planned for FY11, with deliveries supporting an initial operational capability (IOC) in FY13.

The BAMS UAV ORD was signed by the CNO 17 May 2004. The BAMS requirements are being updated through the Joint Capabilities Integration and Development System (JCIDS) process. Two mission needs statement (MNS) support the requirement; 1) BAMS and Littoral Armed ISR MNS, and 2) Long Endurance, Reconnaissance, Surveillance and Target Acquisition (RSTA) Capability MNS.

The BAMS UAV will be an evolutionary based acquisition and will use a competitive acquisition strategy. The program will be conducting pre-systems acquisition activities prior to MS B. These activities will consist of documentation development, demonstrations, and study contracts. FY 2005 funding is being used to forward finance FY 2006 requirements.

R-1 SHOPPING LIST - Item No. 203

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 6 of 13)

CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justificat | | DATE: | | |
|--|--|----------------------------------|--------------------------|--------|
| | | | February | y 2006 |
| PROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMENT NUMBER AND NAME | PROJECT NUMBER AND N | AME | |
| T&E, N / BA-7 | 0305205N Endurance Unmanned Aerial Vehicles | 4020 BAMS UAV | | |
| Accomplishments/Planned Program | | | | |
| in the second se | | | | |
| | FY 05 | FY 06 | FY 07 | |
| Accomplishments/Effort/Subtotal Cost | 12.019 | | 7.018 | |
| RDT&E Articles Quantity | | | | |
| | V air vehicle and sensor performance data. Contracts will b | | | |
| industry contracts are being used to obtain on | v all verilcle and sensor performance data. Contracts will b | e used to support the demonstrat | ons and fisk reductions. | |
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| | | | | |
| | FY 05 | FY 06 | FY 07 | |
| Accomplishments/Effort/Subtotal Cost | FY 05 9.776 | FY 06 | FY 07 5.503 | |
| Accomplishments/Effort/Subtotal Cost RDT&E Articles Quantity | | FY 06 | | |
| | | FY 06 | | |
| RDT&E Articles Quantity | 9.776 | FY 06 | | |
| | 9.776 | FY 06 | | |
| RDT&E Articles Quantity | 9.776 | FY 06 | | |
| RDT&E Articles Quantity | 9.776 | FY 06 | | |
| RDT&E Articles Quantity | 9.776 | FY 06 | | |
| RDT&E Articles Quantity | 9.776 | FY 06 | | |
| RDT&E Articles Quantity | 9.776 | FY 06 | | |
| RDT&E Articles Quantity | 9.776 | FY 06 | | |
| RDT&E Articles Quantity | 9.776 | FY 06 | | |
| RDT&E Articles Quantity | ement Support and Travel. | FY 06 | | |
| RDT&E Articles Quantity | 9.776 | FY 06 | | |
| RDT&E Articles Quantity | ement Support and Travel. | | 5.503 | |
| RDT&E Articles Quantity Contractor Support Services, Program Manage | ement Support and Travel. | | 5.503 FY 07 | |

systems trade studies; solicitation activities; development of milestone and acquisition-related documentation; capability refinement and open systems architecture development; metric development and tracking; affordability assessments and cost analyses; test and evaluation planning, demonstrations using surrogate and UAV platforms; logistics supportability analyses and environmental planning; development of manpower and basing assessments; risk reduction and risk management; system integration and interoperability planning; systems engineering and technology maturity reviews; program protection planning, corrosion prevention planning, anti-tamper provisioning planning, and Joint and International Cooperation.

R-1 SHOPPING LIST - Item No. 203

UNCLASSIFIED

Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 7 of 13)

CLASSIFICATION:

| EXHIBIT R-2a, RDT&E Project Justification | | | | | DATE: | |
|---|-----------------------------------|----------------------|-------------|-------------------------|----------------|---------------|
| · | | | | | | February 2006 |
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM ELEMENT NUM | BER AND NAME | | PROJECT NUMBER | AND NAME | |
| RDT&E, N / BA-7 | 0305205N Endurance Unma | nned Aerial Vehicles | 3 | 4020 BAMS UAV | | |
| C. PROGRAM CHANGE SUMMARY: | | | | | | |
| Funding: | | FY 05 | FY 06 | FY 07 | | |
| Previous President's Budget | | 85.799 | 0.000 | 29.339 | | |
| Current President's Budget | | 39.345 | 0.000 | 26.357 | | |
| Total Adjustments | | -46.454 | 0.000 | -2.982 | | |
| Summary of Adjustments | | | | | | |
| Congressional Reductions | | | | | | |
| Congressional Rescissions | | -31.700 | | | | |
| Congressional Undistributed Redu | ctions | -0.073 | | | | |
| Congressional Increases | | | | | | |
| Economic Assumptions | | | | 0.148 | | |
| Miscellaneous | | -14.681 | | -3.130 | | |
| Subtotal | | -46.454 | 0.000 | -2.982 | | |
| | | | | | | |
| Schedule: | | | | | | |
| | | | | | | |
| Minor schedule updates from PB06. Due t | o program restructuring, procurem | ent of engineering d | levelopment | models will not be init | iated in FY08. | |
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| Technical: | | | | | | |
| Not Applicable | | | | | | |
| Not Applicable | | | | | | |
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CLASSIFICATION:

| EXHIBIT R-2a, RDT&E | Project Justification | | | | | | | DATE: | | | | |
|----------------------|-----------------------|-------------|---|----------------|---------|-------------|---------|---------|---------------|-------|--|--|
| | | | | | | | | | February 2006 | | | |
| APPROPRIATION/BUDGET | T ACTIVITY | PROGRAM E | PROGRAM ELEMENT NUMBER AND NAME PROJECT NUMBER AND NA | | | | | | | | | |
| RDT&E, N / | BA-7 | 0305205N En | durance Unma | nned Aerial Ve | hicles | 4020 BAMS U | AV | | | | | |
| D OTHER BROCK | AM FUNDING SUMMARY: | | | | | | | | | | | |
| D. OTHER PROGRA | AW FONDING SOWWART. | | | | | | | | To | Total | | |
| Line Item No. & Na | <u>ame</u> | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | Complete | Cost | | |
| APN 044200 BAMS | UAV | | | | | | | 304.236 | | | | |
| APN Initial Spares: | 060510 BAMS UAV | | | | | | | 6.654 | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

E. ACQUISITION STRATEGY:

The BAMS UAV Program will develop and field a persistent maritime ISR capability. Commercial of-the-shelf (COTS) technology will be utilized to the greatest extent possible for all segments of the BAMS UAV system (i.e., air vehicle, ground segment and payloads).

The BAMS UAV will be an evolutionary based acquisition. The program is in a pre-Milestone B phase over FY05-07 that will address technical risk reduction. Milestone B is planned for late FY07 and, based on a competitive system integrator selection process, the System Development and Demonstration (SDD) phase will begin in FY08. Low rate initial production is planned for FY11, with deliveries supporting an initial operational capability (IOC) in FY13.

CLASSIFICATION:

| | | | | | | | | | DATE: | | | | |
|--------------------------------|----------|------------|---|--------|--------|-------|---------------|-------------------------|-------|-------|--------------|--------|--------------|
| Exhibit R-3 Cost Analysis (pag | ge 1) | | | | | | | | DATE. | | February 200 | 06 | |
| APPROPRIATION/BUDGET ACTIV | ΊΤΥ | | PROGRAM E | LEMENT | | | PROJECT N | PROJECT NUMBER AND NAME | | | | | |
| RDT&E, N / BA-7 | | | 0305205N Endurance Unmanned Aerial Vehicles | | | | 4020 BAMS UAV | | | | | | |
| Cost Categories | Contract | Performing | • | Total | | FY 05 | | FY 06 | | FY 07 | | | |
| | | Activity & | | PY s | FY 05 | Award | FY 06 | Award | FY 07 | Award | Cost to | Total | Target Value |
| | & Type | Location | | Cost | Cost | Date | Cost | Date | Cost | Date | Complete | Cost | of Contract |
| Primary Hardware Development | | | | | | | | | | | | 0.000 |) |
| Ancillary Hardware Development | | | | | | | | | | | | 0.000 |) |
| Aircraft Integration | | | | | | | | | | | | 0.000 | , |
| Ship Integration | | | | | | | | | | | | 0.000 |) |
| Ship Suitability | | | | | | | | | | | | 0.000 |) |
| Systems Engineering | | | | | | | | | | | | 0.000 | , |
| Studies & Analysis | Various | Various | | | 12.019 | 08/05 | | | 7.018 | 11/06 | 0.000 | 19.037 | , |
| Licenses | | | | | | | | | | | | 0.000 |) |
| Tooling | | | | | | | | | | | | 0.000 | , |
| GFE | | | | | | | | | | | | 0.000 |) |
| Award Fees | | | | | | | | | | | | 0.000 | , |
| Subtotal Product Development | | | | 0.000 | 12.019 | | 0.00 | 0 | 7.018 | | 0.000 | 19.037 | , |
| | | | • | • | | | | | | | | | |
| Remarks: | | | | | | | | | | | | | |

| Development Support/Demo's | Various | Various | | 3.191 | 02/05 | | 2.268 | 11/06 | | 5.459 | |
|------------------------------|---------|---------|-------|-------|-------|-------|-------|-------|------------|------------|--|
| Software Development | | | | | | | | | | 0.000 | |
| Integrated Logistics Support | Various | Various | 2.196 | 1.739 | 12/04 | | 1.245 | 11/06 | Continuing | Continuing | |
| Configuration Management | | | | | | | | | | 0.000 | |
| Technical Data | | | | | | | | | | 0.000 | |
| Studies & Analyses | Various | Various | | 3.424 | 02/05 | | 3.655 | 11/06 | Continuing | Continuing | |
| GFE | | | | | | | | | | 0.000 | |
| Award Fees | | | | | | | | | | 0.000 | |
| Subtotal Support | | | 2.196 | 8.354 | • | 0.000 | 7.168 | • | Continuing | Continuing | |

Remarks:.

R-1 SHOPPING LIST - Item No. 203

UNCLASSIFIED

CLASSIFICATION:

| | | | | | | | | | DATE: | | | | |
|---------------------------------|----------|--------------|---------------|--------------|----------------|--------|---------------|-----------|--------|-------|--------------|------------|--------------|
| Exhibit R-3 Cost Analysis (pag | ge 2) | | | | | | | | | | February 200 |)6 | |
| APPROPRIATION/BUDGET ACTIV | /ITY | | PROGRAM E | LEMENT | | | PROJECT N | JMBER AND | O NAME | | | | |
| RDT&E, N / BA-7 | | | 0305205N En | durance Unma | nned Aerial Ve | hicles | 4020 BAMS UAV | | | | | | |
| Cost Categories | Contract | Performing | | Total | | FY 05 | | FY 06 | | FY 07 | | | |
| | Method | Activity & | | PY s | FY 05 | Award | FY 06 | Award | FY 07 | Award | Cost to | Total | Target Value |
| | & Type | Location | | Cost | Cost | Date | Cost | Date | Cost | Date | Complete | Cost | of Contract |
| Developmental Test & Evaluation | | | | | | | | | | | Continuing | | |
| Operational Test & Evaluation | | | | | | | | | | | Continuing | Continuing | j |
| Live Fire Test & Evaluation | | | | | | | | | | | | 0.000 |) |
| Test Assets | | | | | | | | | | | | 0.000 |) |
| Tooling | | | | | | | | | | | | 0.000 |) |
| GFE | | | | | | | | | | | | 0.000 |) |
| Award Fees | | | | | | | | | | | | 0.000 |) |
| Subtotal T&E | | | | 0.000 | 0.000 | | 0.000 |) | 0.000 |) | Continuing | Continuing | J |
| | | | | | | | | | | | | | |
| Contractor Engineering Support | Various | Various | | 0.512 | 0.822 | 12/04 | | | 0.972 | 11/06 | Continuing | Continuing | , |
| Government Engineering Support | WX | Various | | 12.523 | 9.196 | 12/04 | | | 6.668 | 11/06 | Continuing | Continuing | ı |
| Program Management Support | Various | Various | | 4.500 | 8.804 | 02/05 | | | 4.456 | 11/06 | Continuing | Continuing | , |
| Travel | TO | NAVAIR-HQ, I | Pax River, MD | 0.075 | 0.150 | 10/04 | | | 0.075 | 10/06 | Continuing | Continuing | J . |
| Transportation | | | | | | | | | | | | 0.000 |) |
| SBIR Assessment | | | | | | | | | | | | 0.000 |) |
| Subtotal Management | | | | 17.610 | 18.972 | | 0.000 |) | 12.17 | | Continuing | Continuing | , l |
| Remarks: | | | | | | | | | | | | | |
| Total Cost | | | | 19.806 | 39.345 | | 0.000 | | 26.357 | 7 | Continuing | Continuing | j |
| Remarks: | | | | | | | | | | | | | |

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| EXHIBIT R4, Schedu | | | | | | | | | | | | | | | | | | | | | | | | | DATE Fe | brua | y 20 | 06 |
|-----------------------------------|------|---|---|--------------|------|--------|---|----------|-------|-------|---|------|-------------------------|-----|---|---------------|---|-----|------|---|-----|------|--------|--------------|-------------------|--------------|------------|------|
| APPROPRIATION/BUDGET ACTIVITY | | | | | | | | | | | | | | | | | ROJECT NUMBER AND NAME | | | | | | | | | | | |
| RDT&E, N / BA-7 | | | | | | | 0305205N Endurance Unmanned Aerial Vehicles | | | | | | | | | 4020 BAMS UAV | | | | | | | | | | | | |
| Fiscal Year | 2005 | | | | 2006 | | | 2007 | | | | 2008 | | | • | 2009 | | | 2010 | | | 2011 | | | | | | |
| | 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 | 3 | 4 |
| | | | | | | | | | | | | MS B | | | | | | | | | | | | | | | | MS C |
| Acquisition Milestones | | | | | | | | | | | | Δ | | | | | | | | | | | | | | | | |
| Systems Engineering Activities | | | | | Pre- | Systen | ns Acq | uisitior | Activ | ities | | | | Α | | | | Λ | | | | | | | | | | |
| | | | | | | | | | | | | | | SRR | | | | PDR | | | CDR | | | | | | | |
| Contracting Various Activities | | | | A | | | | | | | | | Δ | | | | | | | | | | | | | | | |
| | | | | BAA award | | | | | | | | | SDD contrac award | | | | | | | | | | | | | | | |
| Test & Evaluation Activities | | | | | | | | | | | | | | | | | Integrated SIL & Flight Test Combined 0 | | | | | | ed CT/ | d CT/ DT/ OT | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | 07 | Г-В1 (О. | A) | |
| System Deliveries | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

CLASSIFICATION:

| Exhibit R-4a, Schedule Detail | DATE: February 2006 | | | | | | | |
|---|----------------------------|----------------|---------------|---------|---------|---------|---------|--|
| APPROPRIATION/BUDGET ACTIVITY | PROGRAM E | JMBER AND NAME | | | | | | |
| RDT&E, N / BA-7 | 0305205N En | durance Unmai | 4020 BAMS UAV | | | | | |
| Schedule Profile | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | FY 2010 | FY 2011 | |
| Milestone B (MS B) | | | 4Q | | | | | |
| Milestone C (MS C) | | | | | | | 4Q | |
| Pre-Systems Acquisition Activities | 3Q-4Q | 1Q-4Q | 1Q-4Q | | | | | |
| Systems Requirements Review (SRR) Preliminary Design Review (PDR) | | | | 2Q | 2Q | | | |
| Critical Design Review (CDR) | | | | | | 1Q | | |
| Various Contract (BAA/ SDD) | 4Q | 1Q-4Q | 1Q-4Q | 1Q | | | | |
| Combined CT/DT/OT | | | | 4Q | 1Q-4Q | 1Q-4Q | 1Q-4Q | |
| OT-B1 (OA) | | | | | | | 2Q | |
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R-1 SHOPPING LIST - Item No. 203 Exhibit R-2, RDTEN Budget Item Justification (Exhibit R-2, page 13 of 13)