

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy Date: February 2015

| Appropriation/Budget Activity                                                                |             |         |         |              | R-1 Program Element (Number/Name)                       |               |         |         |         |         |                  |            |
|----------------------------------------------------------------------------------------------|-------------|---------|---------|--------------|---------------------------------------------------------|---------------|---------|---------|---------|---------|------------------|------------|
| 1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development |             |         |         |              | PE 0305234N I (U)SMALL (LEVEL 0) TACTICAL UAS (STUASLO) |               |         |         |         |         |                  |            |
| COST (\$ in Millions)                                                                        | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO                                             | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
| Total Program Element                                                                        | 59.476      | 5.033   | 4.813   | 4.647        | -                                                       | 4.647         | 5.276   | 5.266   | 5.258   | 5.365   | Continuing       | Continuing |
| 3192: RQ-21 BLACKJACK                                                                        | 59.476      | 5.033   | 4.813   | 4.647        | -                                                       | 4.647         | 5.276   | 5.266   | 5.258   | 5.365   | Continuing       | Continuing |

## A. Mission Description and Budget Item Justification

The RQ-21A BLACKJACK (formerly known as The Small Tactical Unmanned Aircraft System (STUAS)) is a combined United States Navy (USN) and United States Marine Corps (USMC) program that provides persistent maritime and land-based tactical Intelligence, Surveillance, and Reconnaissance/Target Acquisition support for tactical level maneuver decisions and unit level force defense/force protection for Naval amphibious assault ships (multi-ship classes) and Navy and Marine land forces. This system will support Naval Missions such as building the Recognized Maritime Picture, Maritime Security Operations, Maritime Interdiction Operations, and provide support for Naval Units operating from sea/shore in Overseas Contingency Operations. This submission is the USNs portion of the program and has been coordinated with the USMC budget submission PE 0305239M (RQ-21A).

The RQ-21A BLACKJACK system will continue to evolve and upgrade capabilities to satisfy capabilities shortfalls, new requirements, and reliability, maintainability and safety issues. Upgraded capabilities may include Navy Command and Control integration, Weapons Integration, Heavy Fuel Engine, Laser Designator, Frequency Agile Communications Relay, Digital Common Data Link, and cyclic refresh of the Electro-Optical/Infrared camera. RQ-21A BLACKJACK will also continue to expand its shipboard capability across new ship classes.

This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it includes development efforts to upgrade systems that have been fielded or have received approval for full-rate production and anticipate funding in the current or subsequent fiscal year.

| <b>B. Program Change Summary (\$ in Millions)</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b> | <b>FY 2016 Total</b> |
|---------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget                       | 5.013          | 4.813          | 4.992               | -                  | 4.992                |
| Current President's Budget                        | 5.033          | 4.813          | 4.647               | -                  | 4.647                |
| Total Adjustments                                 | 0.020          | -              | -0.345              | -                  | -0.345               |
| • Congressional General Reductions                | -              | -              |                     |                    |                      |
| • Congressional Directed Reductions               | -              | -              |                     |                    |                      |
| • Congressional Rescissions                       | -              | -              |                     |                    |                      |
| • Congressional Adds                              | -              | -              |                     |                    |                      |
| • Congressional Directed Transfers                | -              | -              |                     |                    |                      |
| • Reprogrammings                                  | 0.020          | -              |                     |                    |                      |
| • SBIR/STTR Transfer                              | -              | -              |                     |                    |                      |
| • Program Adjustments                             | -              | -              | -                   | -                  | -                    |
| • Rate/Misc Adjustments                           | -              | -              | -0.345              | -                  | -0.345               |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                              | Date: February 2015 |
| Appropriation/Budget Activity<br>1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development                                                                                                                                                                                                                                                                                                                                                                                                                         | R-1 Program Element (Number/Name)<br>PE 0305234N I (U)SMALL (LEVEL 0) TACTICAL UAS (STUASL0) |                     |
| <u>Change Summary Explanation</u><br>The FY 2016 funding request was reduced by \$308 thousand to account for the availability of prior year execution balances.<br><br>Schedule: Due to ship availability, Initial Operational Test and Evaluation (IOT&E) has been extended through 4QFY14; thereby extending correction of deficiencies and shifting the IOT&E final report into 1QFY15. Decrease in funding from FY15 to FY16 reflect rephasing of development funds to better align with revised program development schedule.<br>Technical: N/A |                                                                                              |                     |

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|---------------------------------------------------------|-------------|---------|---------|--------------|-------------------------------------------------------------------------------------------------|---------------|---------|---------|-------------------------------------------------|---------------------|------------------|------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy |             |         |         |              |                                                                                                 |               |         |         |                                                 | Date: February 2015 |                  |            |
| Appropriation/Budget Activity<br>1319 / 7               |             |         |         |              | R-1 Program Element (Number/Name)<br>PE 0305234N / (U)SMALL (LEVEL 0)<br>TACTICAL UAS (STUASL0) |               |         |         | Project (Number/Name)<br>3192 / RQ-21 BLACKJACK |                     |                  |            |
| COST (\$ in Millions)                                   | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO                                                                                     | FY 2016 Total | FY 2017 | FY 2018 | FY 2019                                         | FY 2020             | Cost To Complete | Total Cost |
| 3192: RQ-21 BLACKJACK                                   | 59.476      | 5.033   | 4.813   | 4.647        | -                                                                                               | 4.647         | 5.276   | 5.266   | 5.258                                           | 5.365               | Continuing       | Continuing |
| Quantity of RDT&E Articles                              |             | -       | -       | -            | -                                                                                               | -             | -       | -       | -                                               | -                   |                  |            |

**A. Mission Description and Budget Item Justification**

The RQ-21A BLACKJACK (formerly known as The Small Tactical Unmanned Aircraft System (STUAS)) is a combined United States Navy (USN) and United States Marine Corps (USMC) program that provides persistent maritime and land-based tactical Intelligence, Surveillance, and Reconnaissance/Target Acquisition support for tactical level maneuver decisions and unit level force defense/force protection for Naval amphibious assault ships (multi-ship classes) and Navy and Marine land forces. This system will support Naval Missions such as building the Recognized Maritime Picture, Maritime Security Operations, Maritime Interdiction Operations, and provide support for Naval Units operating from sea/shore in Overseas Contingency Operations. This submission is the USNs portion of the program and has been coordinated with the USMC budget submission PE 0305239M (RQ-21A).

The RQ-21A BLACKJACK system will continue to evolve and upgrade capabilities to satisfy capabilities shortfalls, new requirements, and reliability, maintainability and safety issues. Upgraded capabilities may include Navy Command and Control integration, Weapons Integration, Heavy Fuel Engine, Laser Designator, Frequency Agile Communications Relay, Digital Common Data Link, and cyclic refresh of the Electro-Optical/Infrared camera. RQ-21A BLACKJACK will also continue to expand its shipboard capability across new ship classes.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

|                                                                                                                                                                                                                                                                                                                                                                                          | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016 Base</b> | <b>FY 2016 OCO</b> | <b>FY 2016 Total</b> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|---------------------|--------------------|----------------------|
| <b>Title:</b> Upgrade Efforts                                                                                                                                                                                                                                                                                                                                                            | 1.520          | 1.700          | 1.673               | -                  | 1.673                |
| <b>Articles:</b>                                                                                                                                                                                                                                                                                                                                                                         | -              | -              | -                   | -                  | -                    |
| <b>Description:</b> Provide Upgrade Efforts                                                                                                                                                                                                                                                                                                                                              |                |                |                     |                    |                      |
| <b>FY 2014 Accomplishments:</b><br>Corrected deficiencies found during Initial Operational Test and Evaluation (IOT&E) testing. Performed beyond line of sight demonstration. Completed documentation for United States Marine Corps (USMC) Initial Operating Capability. Successfully completed Operational Test Readiness Review. Delivered USMC Low Rate Initial Production 1 System. |                |                |                     |                    |                      |
| <b>FY 2015 Plans:</b><br>RQ-21A Blackjack will complete ship based IOT&E and continue correction of deficiencies. The program will continue software engineering and development for block software updates and begin development and                                                                                                                                                    |                |                |                     |                    |                      |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                 |                                                 | Date: February 2015 |                 |                |                  |
| Appropriation/Budget Activity<br>1319 / 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | R-1 Program Element (Number/Name)<br>PE 0305234N / (U)SMALL (LEVEL 0)<br>TACTICAL UAS (STUASLO) | Project (Number/Name)<br>3192 / RQ-21 BLACKJACK |                     |                 |                |                  |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                 | FY 2014                                         | FY 2015             | FY 2016<br>Base | FY 2016<br>OCO | FY 2016<br>Total |
| integration of an advanced heavy fuel engine and fuselage upgrades to extend the maximum gross takeoff weight.<br><b>FY 2016 Base Plans:</b><br>RQ-21A Blackjack will continue correction of deficiencies based on the final FY15 Initial Operational Test and Evaluation (IOT&E) Report. The program will continue advanced heavy fuel engine integration and testing. Other upgrades include the cyclic refresh of the Electro-Optical/Infrared camera, associated turret system, communications relay package, and automated identification system.<br><b>FY 2016 OCO Plans:</b><br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                 |                                                 |                     |                 |                |                  |
| <b>Title:</b> Engineering and Technical Services<br><br><b>Articles:</b><br><br><b>Description:</b> Provides for the Government Engineering Technical Support, Logistics Support, Test and Evaluation, other Government Support, Contractor Support Services, Program Management Support, Program related travel in support of the upgrade/payload efforts.<br><br><b>FY 2014 Accomplishments:</b><br>Provided for the Government Engineering Technical Support, Logistics Support, Test and Evaluation, Other Government Support, Contractor Support Services, Program Management Support, Program related travel in support of IOT&E and the upgrade/payload efforts.<br><br><b>FY 2015 Plans:</b><br>Will provide support for Government Engineering Technical Support, Logistics Support, Test and Evaluation, other Government support, Contractor Support Services, Program Management Support, and program related travel in support of upgrades and correction of deficiencies.<br><br><b>FY 2016 Base Plans:</b><br>FY16 will continue FY15 support for Government Engineering Technical Support, Logistics Support, Test and Evaluation, Other Government Support, Contract Support Services, Program Management Support, and program related travel in support of correction of deficiencies and upgrade efforts.<br><br><b>FY 2016 OCO Plans:</b><br>N/A |                                                                                                 | 3.513<br>-                                      | 3.113<br>-          | 2.974<br>-      | -<br>-         | 2.974<br>-       |
| Accomplishments/Planned Programs Subtotals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                 | 5.033                                           | 4.813               | 4.647           | -              | 4.647            |

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|---------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2016 Navy |                                                                                                 |                                                 | Date: February 2015 |
| Appropriation/Budget Activity<br>1319 / 7               | R-1 Program Element (Number/Name)<br>PE 0305234N / (U)SMALL (LEVEL 0)<br>TACTICAL UAS (STUASL0) | Project (Number/Name)<br>3192 / RQ-21 BLACKJACK |                     |

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

| Line Item                                           | FY 2014 | FY 2015 | FY 2016<br>Base | FY 2016<br>OCO | FY 2016<br>Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To<br>Complete | Total Cost |
|-----------------------------------------------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|------------|
| • RDTEN/0305239M:<br>STUAS/RQ-21A                   | 11.122  | 8.192   | 6.435           | -              | 6.435            | 9.608   | 9.393   | 8.853   | 9.035   | Continuing          | Continuing |
| • PMC/473700: STUAS/RQ-21A                          | 66.007  | 69.315  | 84.916          | -              | 84.916           | 84.034  | 78.779  | 76.675  | 83.332  | Continuing          | Continuing |
| • PMC/7000: STUAS/RQ-21A<br>Spares and Repair Parts | 4.950   | 5.093   | 4.111           | -              | 4.111            | 5.869   | 5.760   | 5.454   | 5.567   | Continuing          | Continuing |
| • APN/0444: STUAS/RQ-21A.                           | -       | 55.000  | 3.450           | 55.000         | 58.450           | -       | 1.950   | -       | -       | Continuing          | Continuing |

## Remarks

## D. Acquisition Strategy

The program office has utilized a competitive acquisition approach for award of the Engineering and Manufacturing Development effort to field a capability that meets threshold requirements. Low Rate Initial Production test article was utilized to successfully complete Initial Operational Test and Evaluation (IOT&E) and achieve Initial Operational Capability. Future upgrades and development shall be competitively sourced or procured via Government Laboratories with Insitu, the prime contractor, performing integration efforts as required.

## E. Performance Metrics

Attainment of Full Rate Production (FRP), correction of deficiencies from the IOT&E report, and attainment of USMC and USN Full Operational Capability (FOC) in accordance with the approved schedule.

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|---------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------|--------------------|----------------|-------------------|--------------------------------------------------------------------------------------------------------|-------------------|---------------------|-------------------|--------------------|--------------------------------------------------------|----------------------|----------------------------|-------------------|---------------------------------|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2016 Navy</b>                     |                                   |                                           |                    |                |                   |                                                                                                        |                   |                     |                   |                    |                                                        |                      | <b>Date:</b> February 2015 |                   |                                 |
| <b>Appropriation/Budget Activity</b><br>1319 / 7                                      |                                   |                                           |                    |                |                   | <b>R-1 Program Element (Number/Name)</b><br>PE 0305234N / (U)SMALL (LEVEL 0)<br>TACTICAL UAS (STUASL0) |                   |                     |                   |                    | <b>Project (Number/Name)</b><br>3192 / RQ-21 BLACKJACK |                      |                            |                   |                                 |
| <b>Product Development (\$ in Millions)</b>                                           |                                   |                                           |                    | <b>FY 2014</b> |                   | <b>FY 2015</b>                                                                                         |                   | <b>FY 2016 Base</b> |                   | <b>FY 2016 OCO</b> |                                                        | <b>FY 2016 Total</b> |                            |                   |                                 |
| <b>Cost Category Item</b>                                                             | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>Prior Years</b> | <b>Cost</b>    | <b>Award Date</b> | <b>Cost</b>                                                                                            | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>        | <b>Award Date</b>                                      | <b>Cost</b>          | <b>Cost To Complete</b>    | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| Upgrade Efforts/Correction of Deficiencies                                            | C/BOA                             | Insitu, Inc : Bingen, WA                  | 0.000              | 1.520          | Jan 2014          | 1.200                                                                                                  | Jan 2015          | 1.093               | Jan 2016          | -                  |                                                        | 1.093                | Continuing                 | Continuing        | Continuing                      |
| Mission Training Device                                                               | MIPR                              | JTC/SIL : Redstone Arsenal, AL            | 2.136              | -              |                   | 0.500                                                                                                  | Mar 2015          | 0.580               | Mar 2016          | -                  |                                                        | 0.580                | -                          | 3.216             | 3.216                           |
| Prior year cost no longer funded in the FYDP                                          | Various                           | Various : Various                         | 26.989             | -              |                   | -                                                                                                      |                   | -                   |                   | -                  |                                                        | -                    | -                          | 26.989            | 26.989                          |
| <b>Subtotal</b>                                                                       |                                   |                                           | 29.125             | 1.520          |                   | 1.700                                                                                                  |                   | 1.673               |                   | -                  |                                                        | 1.673                | -                          | -                 | -                               |
| <b>Remarks</b><br>Product development corresponds to R-2A Upgrade Efforts.            |                                   |                                           |                    |                |                   |                                                                                                        |                   |                     |                   |                    |                                                        |                      |                            |                   |                                 |
| <b>Support (\$ in Millions)</b>                                                       |                                   |                                           |                    | <b>FY 2014</b> |                   | <b>FY 2015</b>                                                                                         |                   | <b>FY 2016 Base</b> |                   | <b>FY 2016 OCO</b> |                                                        | <b>FY 2016 Total</b> |                            |                   |                                 |
| <b>Cost Category Item</b>                                                             | <b>Contract Method &amp; Type</b> | <b>Performing Activity &amp; Location</b> | <b>Prior Years</b> | <b>Cost</b>    | <b>Award Date</b> | <b>Cost</b>                                                                                            | <b>Award Date</b> | <b>Cost</b>         | <b>Award Date</b> | <b>Cost</b>        | <b>Award Date</b>                                      | <b>Cost</b>          | <b>Cost To Complete</b>    | <b>Total Cost</b> | <b>Target Value of Contract</b> |
| Integrated Logistics Support                                                          | WR                                | NAWC-AD : Patuxent River, MD              | 4.034              | 0.487          | Dec 2013          | 0.315                                                                                                  | Dec 2014          | -                   |                   | -                  |                                                        | -                    | Continuing                 | Continuing        | Continuing                      |
| Training Support                                                                      | WR                                | NAWC-TSD : Orlando, FL                    | 2.886              | 0.420          | Dec 2013          | 0.440                                                                                                  | Dec 2014          | 0.440               | Dec 2015          | -                  |                                                        | 0.440                | Continuing                 | Continuing        | Continuing                      |
| Software Engineering Support                                                          | WR                                | NAWC-WD : China Lake, CA                  | 5.970              | 1.200          | Dec 2013          | 1.200                                                                                                  | Dec 2014          | 1.200               | Dec 2015          | -                  |                                                        | 1.200                | Continuing                 | Continuing        | Continuing                      |
| Government Engineering Support                                                        | WR                                | NAWC-AD : Patuxent River, MD              | 10.529             | 0.610          | Dec 2013          | 0.451                                                                                                  | Dec 2014          | 0.392               | Dec 2015          | -                  |                                                        | 0.392                | Continuing                 | Continuing        | Continuing                      |
| <b>Subtotal</b>                                                                       |                                   |                                           | 23.419             | 2.717          |                   | 2.406                                                                                                  |                   | 2.032               |                   | -                  |                                                        | 2.032                | -                          | -                 | -                               |
| <b>Remarks</b><br>Support is included within R-2A Engineering and Technical Services. |                                   |                                           |                    |                |                   |                                                                                                        |                   |                     |                   |                    |                                                        |                      |                            |                   |                                 |

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|-------------------------------------------------------------------|--|--|--|--|--|--------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------|--|----------------------------|--|--|--|
| <b>Exhibit R-3, RDT&amp;E Project Cost Analysis: PB 2016 Navy</b> |  |  |  |  |  |                                                                                                        |  |  |  |                                                        |  | <b>Date:</b> February 2015 |  |  |  |
| <b>Appropriation/Budget Activity</b><br>1319 / 7                  |  |  |  |  |  | <b>R-1 Program Element (Number/Name)</b><br>PE 0305234N / (U)SMALL (LEVEL 0)<br>TACTICAL UAS (STUASL0) |  |  |  | <b>Project (Number/Name)</b><br>3192 / RQ-21 BLACKJACK |  |                            |  |  |  |

| <b>Test and Evaluation (\$ in Millions)</b> |                                           |                                               |                        | <b>FY 2014</b> |                       | <b>FY 2015</b> |                       | <b>FY 2016<br/>Base</b> |                       | <b>FY 2016<br/>OCO</b> |                       | <b>FY 2016<br/>Total</b> |                             |                       |                                         |
|---------------------------------------------|-------------------------------------------|-----------------------------------------------|------------------------|----------------|-----------------------|----------------|-----------------------|-------------------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------------|-----------------------|-----------------------------------------|
| <b>Cost Category Item</b>                   | <b>Contract<br/>Method<br/>&amp; Type</b> | <b>Performing<br/>Activity &amp; Location</b> | <b>Prior<br/>Years</b> | <b>Cost</b>    | <b>Award<br/>Date</b> | <b>Cost</b>    | <b>Award<br/>Date</b> | <b>Cost</b>             | <b>Award<br/>Date</b> | <b>Cost</b>            | <b>Award<br/>Date</b> | <b>Cost</b>              | <b>Cost To<br/>Complete</b> | <b>Total<br/>Cost</b> | <b>Target<br/>Value of<br/>Contract</b> |
| Developmental Test & Evaluation             | C/CPFF                                    | OPTEVFOR :<br>Norfolk, VA                     | 2.353                  | 0.175          | Jul 2014              | 0.296          | Jan 2015              | 0.385                   | Jan 2016              | -                      |                       | 0.385                    | Continuing                  | Continuing            | Continuing                              |
| Operational Test & Evaluation               | WR                                        | OPTEVFOR :<br>Norfolk, VA                     | 0.000                  | 0.135          | Mar 2014              | -              |                       | 0.135                   | Dec 2015              | -                      |                       | 0.135                    | Continuing                  | Continuing            | Continuing                              |
| <b>Subtotal</b>                             |                                           |                                               | 2.353                  | 0.310          |                       | 0.296          |                       | 0.520                   |                       | -                      |                       | 0.520                    | -                           | -                     | -                                       |

**Remarks**  
Test and Evaluation is included within R-2A Engineering and Technical Services.

| <b>Management Services (\$ in Millions)</b> |                                           |                                               |                        | <b>FY 2014</b> |                       | <b>FY 2015</b> |                       | <b>FY 2016<br/>Base</b> |                       | <b>FY 2016<br/>OCO</b> |                       | <b>FY 2016<br/>Total</b> |                             |                       |                                         |
|---------------------------------------------|-------------------------------------------|-----------------------------------------------|------------------------|----------------|-----------------------|----------------|-----------------------|-------------------------|-----------------------|------------------------|-----------------------|--------------------------|-----------------------------|-----------------------|-----------------------------------------|
| <b>Cost Category Item</b>                   | <b>Contract<br/>Method<br/>&amp; Type</b> | <b>Performing<br/>Activity &amp; Location</b> | <b>Prior<br/>Years</b> | <b>Cost</b>    | <b>Award<br/>Date</b> | <b>Cost</b>    | <b>Award<br/>Date</b> | <b>Cost</b>             | <b>Award<br/>Date</b> | <b>Cost</b>            | <b>Award<br/>Date</b> | <b>Cost</b>              | <b>Cost To<br/>Complete</b> | <b>Total<br/>Cost</b> | <b>Target<br/>Value of<br/>Contract</b> |
| Contractor Engineering Support              | MIPR                                      | DTIC : FT. Belvoir,<br>VA                     | 2.120                  | 0.236          | Jan 2014              | 0.225          | Mar 2015              | 0.225                   | Mar 2016              | -                      |                       | 0.225                    | Continuing                  | Continuing            | Continuing                              |
| Program Management Support                  | C/CPFF                                    | Ausley : Patuxent<br>River, MD                | 2.299                  | 0.050          | Dec 2013              | -              |                       | -                       |                       | -                      |                       | -                        | Continuing                  | Continuing            | Continuing                              |
| Program Management Support                  | C/CPFF                                    | Bowhead : Patuxent<br>River, MD               | 0.000                  | 0.150          | Feb 2014              | 0.138          | Dec 2014              | 0.149                   | Feb 2016              | -                      |                       | 0.149                    | Continuing                  | Continuing            | Continuing                              |
| Travel                                      | WR                                        | Various : Various                             | 0.160                  | 0.050          | Nov 2013              | 0.048          | Nov 2014              | 0.048                   | Nov 2015              | -                      |                       | 0.048                    | Continuing                  | Continuing            | Continuing                              |
| <b>Subtotal</b>                             |                                           |                                               | 4.579                  | 0.486          |                       | 0.411          |                       | 0.422                   |                       | -                      |                       | 0.422                    | -                           | -                     | -                                       |

**Remarks**  
Management Services is included within R-2A Engineering and Technical Services.

|                            |  |  | <b>Prior<br/>Years</b> | <b>FY 2014</b> | <b>FY 2015</b> | <b>FY 2016<br/>Base</b> | <b>FY 2016<br/>OCO</b> | <b>FY 2016<br/>Total</b> | <b>Cost To<br/>Complete</b> | <b>Total<br/>Cost</b> | <b>Target<br/>Value of<br/>Contract</b> |
|----------------------------|--|--|------------------------|----------------|----------------|-------------------------|------------------------|--------------------------|-----------------------------|-----------------------|-----------------------------------------|
| <b>Project Cost Totals</b> |  |  | 59.476                 | 5.033          | 4.813          | 4.647                   | -                      | 4.647                    | -                           | -                     | -                                       |

**Remarks**

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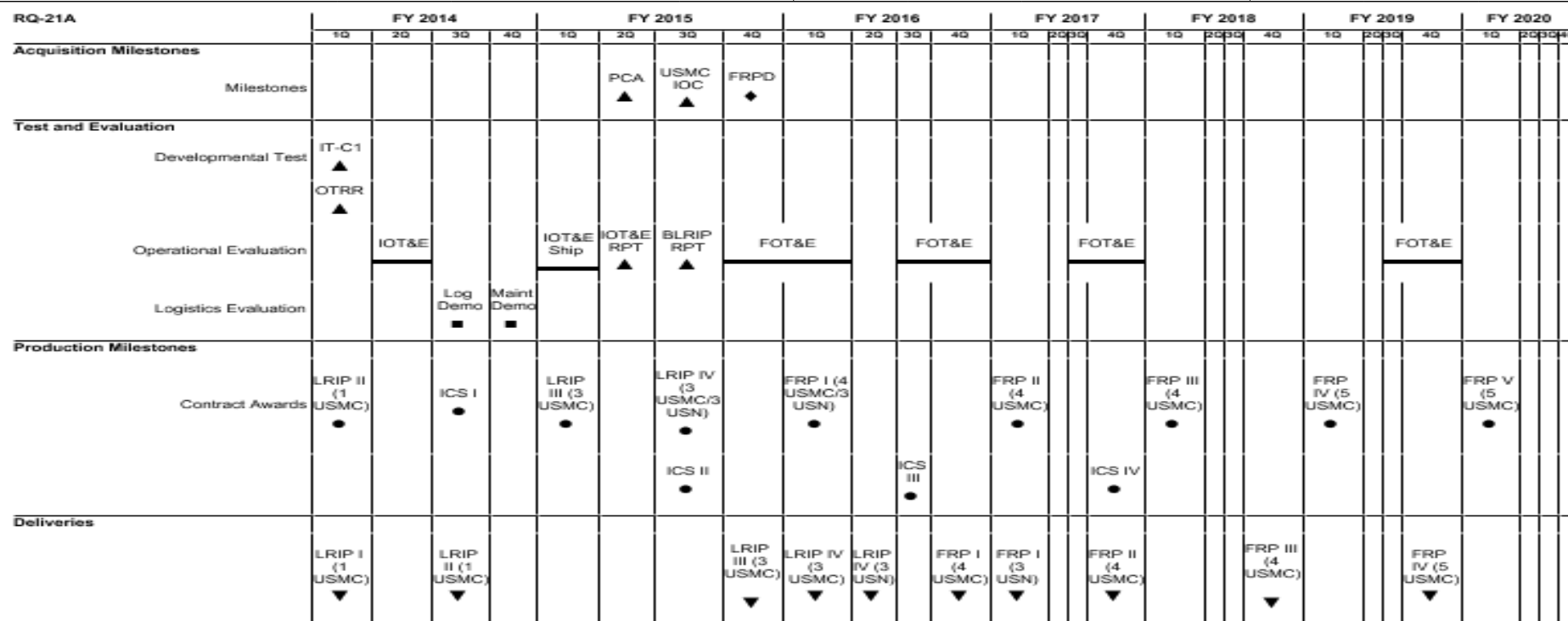
Exhibit R-4, RDT&E Schedule Profile: PB 2016 Navy

Date: February 2015

Appropriation/Budget Activity  
1319 / 7

R-1 Program Element (Number/Name)  
PE 0305234N / (U)SMALL (LEVEL 0)  
TACTICAL UAS (STUASL0)

Project (Number/Name)  
3192 / RQ-21 BLACKJACK



2016PB - 0305234N - 3192

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|                                                               |                                                                                                        |                                                        |                            |
|---------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------|
| <b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2016 Navy |                                                                                                        |                                                        | <b>Date:</b> February 2015 |
| <b>Appropriation/Budget Activity</b><br>1319 / 7              | <b>R-1 Program Element (Number/Name)</b><br>PE 0305234N / (U)SMALL (LEVEL 0)<br>TACTICAL UAS (STUASL0) | <b>Project (Number/Name)</b><br>3192 / RQ-21 BLACKJACK |                            |

**Schedule Details**

| Events by Sub Project                                                                           | Start   |      | End     |      |
|-------------------------------------------------------------------------------------------------|---------|------|---------|------|
|                                                                                                 | Quarter | Year | Quarter | Year |
| <b>RQ-21A</b>                                                                                   |         |      |         |      |
| Acquisition Milestones: Milestones: USMC Initial Operational Capability (IOC)                   | 3       | 2015 | 3       | 2015 |
| Acquisition Milestones: Milestones: Physical Configuration Audit                                | 2       | 2015 | 2       | 2015 |
| Acquisition Milestones: Milestones: Full-Rate Production Decision                               | 4       | 2015 | 4       | 2015 |
| Test and Evaluation: Developmental Test: Initial Testing - C1                                   | 1       | 2014 | 1       | 2014 |
| Test and Evaluation: Developmental Test: Operational Test Readiness Review                      | 1       | 2014 | 1       | 2014 |
| Test and Evaluation: Operational Evaluation: Initial Operational Test & Evaluation (IOT&E)      | 2       | 2014 | 2       | 2014 |
| Test and Evaluation: Operational Evaluation: IOT&E Report                                       | 2       | 2015 | 2       | 2015 |
| Test and Evaluation: Operational Evaluation: Initial Operational Test & Evaluation (IOT&E) Ship | 1       | 2015 | 1       | 2015 |
| Test and Evaluation: Operational Evaluation: Beyond LRIP Report (BLRIP)                         | 3       | 2015 | 3       | 2015 |
| Test and Evaluation: Operational Evaluation: Follow-on Test and Evaluation 1                    | 4       | 2015 | 1       | 2016 |
| Test and Evaluation: Operational Evaluation: Follow-on Test and Evaluation 2                    | 3       | 2016 | 4       | 2016 |
| Test and Evaluation: Operational Evaluation: Follow-on Test and Evaluation 3                    | 3       | 2017 | 4       | 2017 |
| Test and Evaluation: Operational Evaluation: Follow-on Test and Evaluation 4                    | 3       | 2019 | 4       | 2019 |
| Test and Evaluation: Logistics Evaluation: Logistics Demonstration                              | 3       | 2014 | 3       | 2014 |
| Test and Evaluation: Logistics Evaluation: Maintenance Demonstration                            | 4       | 2014 | 4       | 2014 |
| Production Milestones: Contract Awards: LRIP Lot 2                                              | 1       | 2014 | 1       | 2014 |
| Production Milestones: Contract Awards: LRIP Lot 3                                              | 1       | 2015 | 1       | 2015 |
| Production Milestones: Contract Awards: LRIP Lot 4                                              | 3       | 2015 | 3       | 2015 |
| Production Milestones: Contract Awards: Full-Rate Production Contract Award 1                   | 1       | 2016 | 1       | 2016 |
| Production Milestones: Contract Awards: Full-Rate Production Contract Award 2                   | 1       | 2017 | 1       | 2017 |

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|                                                                               |  |                                                                                                 |                     |                                                 |      |
|-------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------|------|
| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Navy                            |  |                                                                                                 | Date: February 2015 |                                                 |      |
| Appropriation/Budget Activity<br>1319 / 7                                     |  | R-1 Program Element (Number/Name)<br>PE 0305234N / (U)SMALL (LEVEL 0)<br>TACTICAL UAS (STUASL0) |                     | Project (Number/Name)<br>3192 / RQ-21 BLACKJACK |      |
|                                                                               |  | Start                                                                                           |                     | End                                             |      |
| Events by Sub Project                                                         |  | Quarter                                                                                         | Year                | Quarter                                         | Year |
| Production Milestones: Contract Awards: Full-Rate Production Contract Award 3 |  | 1                                                                                               | 2018                | 1                                               | 2018 |
| Production Milestones: Contract Awards: Full-Rate Production Contract Award 4 |  | 1                                                                                               | 2019                | 1                                               | 2019 |
| Production Milestones: Contract Awards: Full-Rate Production Contract Award 5 |  | 1                                                                                               | 2020                | 1                                               | 2020 |
| Production Milestones: Contract Awards: ICS Contract Award 1                  |  | 3                                                                                               | 2014                | 3                                               | 2014 |
| Production Milestones: Contract Awards: ICS Contract Award 2                  |  | 3                                                                                               | 2015                | 3                                               | 2015 |
| Production Milestones: Contract Awards: ICS Option Award 1                    |  | 3                                                                                               | 2016                | 3                                               | 2016 |
| Production Milestones: Contract Awards: ICS Option Award 2                    |  | 4                                                                                               | 2017                | 4                                               | 2017 |
| Deliveries: LRIP Lot 1                                                        |  | 1                                                                                               | 2014                | 1                                               | 2014 |
| Deliveries: LRIP Lot 2                                                        |  | 3                                                                                               | 2014                | 3                                               | 2014 |
| Deliveries: LRIP Lot 3                                                        |  | 4                                                                                               | 2015                | 4                                               | 2015 |
| Deliveries: LRIP Lot 4 USMC                                                   |  | 1                                                                                               | 2016                | 1                                               | 2016 |
| Deliveries: LRIP Lot 4 USN                                                    |  | 2                                                                                               | 2016                | 2                                               | 2016 |
| Deliveries: FRP Lot 1 USMC                                                    |  | 4                                                                                               | 2016                | 4                                               | 2016 |
| Deliveries: FRP Lot 1 USN                                                     |  | 1                                                                                               | 2017                | 1                                               | 2017 |
| Deliveries: FRP Lot 2                                                         |  | 4                                                                                               | 2017                | 4                                               | 2017 |
| Deliveries: FRP Lot 3                                                         |  | 4                                                                                               | 2018                | 4                                               | 2018 |
| Deliveries: FRP Lot 4                                                         |  | 4                                                                                               | 2019                | 4                                               | 2019 |