Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy

R-1 Program Element (Number/Name)

Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E

PE 0605873M I Marine Corps Program Wide Supt

**Date:** February 2018

Management Support

|                                    |       |         |         |         | · '     |         |         |         |         |         |            |            |
|------------------------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------|------------|
| COST (\$ in Millions)              | Prior |         |         | FY 2019 | FY 2019 | FY 2019 |         |         |         |         | Cost To    | Total      |
| COST (\$ III WIIIIOHS)             | Years | FY 2017 | FY 2018 | Base    | oco     | Total   | FY 2020 | FY 2021 | FY 2022 | FY 2023 | Complete   | Cost       |
| Total Program Element              | 0.000 | 19.142  | 21.751  | 24.303  | -       | 24.303  | 20.267  | 20.668  | 21.070  | 21.479  | Continuing | Continuing |
| 0030: Studies & Analysis/MC        | 0.000 | 5.171   | 6.133   | 8.492   | -       | 8.492   | 4.196   | 4.285   | 4.367   | 4.456   | Continuing | Continuing |
| 0033: OT&E Support                 | 0.000 | 11.967  | 13.643  | 14.243  | -       | 14.243  | 14.480  | 14.763  | 15.049  | 15.336  | Continuing | Continuing |
| 2330: Chem Bio Consequence<br>Mgmt | 0.000 | 2.004   | 1.975   | 1.568   | -       | 1.568   | 1.591   | 1.620   | 1.654   | 1.687   | Continuing | Continuing |

## A. Mission Description and Budget Item Justification

This program element (PE) provides the analytical foundation for the Marine Corps Studies System (MCSS), including mandated Mission Area Analyses and Cost and Operational Effectiveness Analyses. The MCSS is the front end of the Marine Corps' acquisition system. This PE also supports the material acquisition process as follows: managing the Marine Corps Operational Test and Evaluations (OT&E); providing Chem Bio Consequence Management of capabilites for Weapons of Mass Destruction (WMD) incident response forces; and conducting Phase A activities to investigate potential material solutions that validate needs, program costs, business decisions, and prevent undue delays in pursuing priority requirements.

| B. Program Change Summary (\$ in Millions)            | FY 2017 | FY 2018 | <b>FY 2019 Base</b> | FY 2019 OCO | FY 2019 Total |
|---|---------|---------|---------------------|-------------|---------------|
| Previous President's Budget                           | 22.247  | 21.751  | 21.994              | -           | 21.994        |
| Current President's Budget                            | 19.142  | 21.751  | 24.303              | -           | 24.303        |
| Total Adjustments                                     | -3.105  | 0.000   | 2.309               | -           | 2.309         |
| Congressional General Reductions                      | -       | -       |                     |             |               |
| <ul> <li>Congressional Directed Reductions</li> </ul> | -       | -       |                     |             |               |
| <ul> <li>Congressional Rescissions</li> </ul>         | -       | -       |                     |             |               |
| <ul> <li>Congressional Adds</li> </ul>                | -       | -       |                     |             |               |
| <ul> <li>Congressional Directed Transfers</li> </ul>  | -       | -       |                     |             |               |
| <ul> <li>Reprogrammings</li> </ul>                    | -0.357  | 0.000   |                     |             |               |
| SBIR/STTR Transfer                                    | -0.238  | 0.000   |                     |             |               |
| Program Adjustments                                   | 0.000   | 0.000   | 2.457               | -           | 2.457         |
| <ul> <li>Rate/Misc Adjustments</li> </ul>             | 0.001   | 0.000   | -0.148              | -           | -0.148        |
| <ul> <li>Congressional General Reductions</li> </ul>  | -0.030  | -       | -                   | -           | -             |
| Adjustments   |         |         |                     |             |               |
| <ul> <li>Congressional Directed Reductions</li> </ul> | -2.481  | -       | -                   | -           | -             |
| Adjustments   |         |         |                     |             |               |
| Adjustments   |         |         |                     |             |               |

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| Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy  |  | Date: February 2018 |
|---|--|---------------------|
| Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E Management Support | R-1 Program Element (Number/Name) PE 0605873M / Marine Corps Program Wide Supt |                     |
| <u>Change Summary Explanation</u> The overall increase from FY18 to FY19 of \$2.552M can be attributed.             | ed to the expansion of wargaming activities.                                   |                     |
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PE 0605873M: *Marine Corps Program Wide Supt* Navy

| Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy |                |         |         |                 |                |                           |         |         | uary 2018 |         |                     |               |
|---|----------------|---------|---------|-----------------|----------------|---------------------------|---------|---------|-----------|---------|---------------------|---------------|
|   |                |         |         |                 |                | Project (N<br>0030 / Stud |         | ,       |           |         |                     |               |
| COST (\$ in Millions)                                   | Prior<br>Years | FY 2017 | FY 2018 | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total          | FY 2020 | FY 2021 | FY 2022   | FY 2023 | Cost To<br>Complete | Total<br>Cost |
| 0030: Studies & Analysis/MC                             | 0.000          | 5.171   | 6.133   | 8.492           | -              | 8.492                     | 4.196   | 4.285   | 4.367     | 4.456   | Continuing          | Continuing    |
| Quantity of RDT&E Articles                              |                | -       | -       | -               | -              | -                         | -       | -       | -         | -       |                     |               |

### A. Mission Description and Budget Item Justification

The Marine Corps Requirements Oversight Council (MROC), has established Operations Analysis Directorate (OAD), as the sole operations research, analytic support, and studies management program for the Marine Corps Study System (MCSS). OAD provides Senior Military Leadership with a comprehensive understanding of operations and advanced analytic and statistical support. In compliance with Executive Order #13589 OAD's major focus is achieving greater efficiency, productivity, and innovation through operations research methodologies such as: statistical analysis, multi-objective decision methods, optimization, cost analysis, and a wide range of computer-based models and combat simulations. Division analysts are credited with innovations in analysis of amphibious operations and Irregular Warfare (IW) that have expanded state-of-the-art operations research methods across DOD. OAD quantifies resource allocation decisions pertaining to weapon systems, strategic personnel, training management, and equipment acquisition.OAD provides day-to-day oversight of Marine Corps M&S policy, standards, enterprise architecture, S&T requirements, and workforce development

Efforts are guided by the Commandant's Strategic Plan, Marine Corps Operating Concepts (MOC) which provides the foundation and context for subordinate operating and functional concepts; guides analysis; wargaming scenarios and experimentation; wargaming capability development designed to examine, scope and evaluate conceptual technological and operational principles and methods; informs capability development and budget programming decisions; CD&I Force Development Strategic Plan which provides Marine Corps Combat Development Command (MCCDC)/Combat Development and Integration (CD&I) personnel framework designed to promote collaborative, cohesive, "learning organization" that can effectively prepare the Nation's expeditionary force in readiness for a complex and uncertain future envisioned by the Department of Defense, the Department of the Navy, and the Commandant, and FRAGO 2017 to support the USMC to adapt, innovate, and change to meet future threats.

Future studies support Marine Air-Ground Task Forces (MAGTF's) and Marine Expeditionary Units (MEU's) with research analysis and modeling and simulation focused on aviation, amphibious, warfighting, and ground operations enhancing the ability of the Marine Corps to increase operational, logistical and equipment efficiencies and capabilities and provide a unique, well trained, equipped and educated force.

This program element has been revised into two specialized analytical divisions: (1) External Analysis Division (EAD) - responsible for providing joint external analysis is the Marine Corps' sole representative in the joint modeling arenas. Provides deployed on site professional operations analysis support to Special Purpose MAGTFs in CENTCOM and AFRICOM. (2) Combat Development Analysis Division responsible for executing a select portfolio of studies for senior leadership, Capabilities Based Assessment (CAB) and Marine Corps Enterprise Integration Plan (MCEIP).

| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each) | FY 2017 | FY 2018 | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total |
|--|---------|---------|-----------------|----------------|------------------|
| Title: Studies & Analysis/MC   | 5.171   | 6.133   | 8.492           | 0.000          | 8.492            |

PE 0605873M: Marine Corps Program Wide Supt

Navy

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|---|--|---------|------------|--------------------------|----------------|------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy   |  |         | Date: Febr |                          |                |                  |
| Appropriation/Budget Activity 1319 / 6  | R-1 Program Element (Number/Name) PE 0605873M / Marine Corps Program Wide Supt   |         |            | umber/Nar<br>dies & Anal |                |                  |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in  | ·  | FY 2017 | FY 2018    | FY 2019<br>Base          | FY 2019<br>OCO | FY 2019<br>Total |
|   | Articles:  | -       | -          | -                        | -              |                  |
| <b>Description:</b> The Marine Corps Studies System (MCSS), the sole responsibility Directorate (OAD), Combat Development and Integration (CD&I), Marine Corps Command (MCCDC) provides research and analysis to ensure a greater unders alternatives concerning organizations, tactics, doctrine, policies, force plans, str. weapon selection, systems' programs and resource allocation. Through the MC approves, commences, manages and distributes the resultant analytical product selected by the Studies Requirements Review Board (SRRB) and approved by and Integration (CD&I) and is targeted to a particular audience that understands mission requirements and the need for comprehensive analyses that meets the Goals, supports and protects forces in theater, and utilizes funds efficiently. Recomprehensive and integrated analyses aligned to Senior Leadership's requirements. | Combat Development standing of issues and ategies, procedures, intelligence, SS, the Marine Corps nominates, its. Efforts are evaluated and the CG, Combat Development current and future USMC Commandant's Strategic esearch conducted produces |         |            |                          |                |                  |
| FY 2018 Plans: - Continue and complete all efforts not completed in FY17.   |  |         |            |                          |                |                  |
| - Initiate: Modeling Simulation and Analytical Support Toolkit (MSAT) Phase V.  |  |         |            |                          |                |                  |
| - Initiate: Phase II and Phase III prior year efforts in areas of concentrated Man Information and Networks; Plans, Policy, and Operations; Infrastructure and Re and Assessments; Capability Integration; Research, Development and Acquisiti Development; Wargaming, and Weapons Systems and Space Based Capabilitic analyses required to fully integrate Marine Corps concepts and requirements be including doctrine, organization, training, materiel, leadership and education, pet to ensure the Marine Corps is properly organized, trained and equipped under cenvironments.   |  |         |            |                          |                |                  |
| - Complete: Modeling Simulation and Analytical Support Toolkit (MSAT) Phase   | e IV. Phase I of FY17 Studies.   |         |            |                          |                |                  |
| FY 2019 Base Plans: - Continue all efforts not completed in FY18.   |  |         |            |                          |                |                  |

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| Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy   |   |  |         |                 |                |                  |  |  |
|---|---|--|---------|-----------------|----------------|------------------|--|--|
| Appropriation/Budget Activity 1319 / 6  |   | R-1 Program Element (Number/Name) PE 0605873M I Marine Corps Program Wide Supt |         |                 | ne)<br>ysis/MC |                  |  |  |
| B. Accomplishments/Planned Programs (\$ in Millions, Article C  | ·   | FY 2017  | FY 2018 | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total |  |  |
| - Initiate: Modeling Simulation and Analytical Support Toolkit (MSA) prior year efforts and new studies in areas of concentrated Manpow and Networks; Plans, Policy, and Operations; Infrastructure and Re Assessments; Capability Integration; Research, Development and A Wargaming, and Weapons Systems and Space Based Capabilities - Complete: Phase II and Phase III studies initiated in prior year. M Toolkit (MSAT) Phase V. | rer/Personnel; Intelligence, Information adiness; Resources, Programs, and Acquisition; General Concept Development; studies. |  |         |                 |                |                  |  |  |
| - Continue the expansion of wargaming capability efforts in areas or requirements and capabilities; directed cyber security support for in in the areas of modeling & simulation, network configuration, security preparation for and conduct of an Assessment of Alternatives.   |   |  |         |                 |                |                  |  |  |
| - Initiate: Wargaming capability Milestone B activities; refinement of specification; modeling and simulation prototyping efforts.  | of requirements; development of performance   |  |         |                 |                |                  |  |  |

## FY 2019 OCO Plans:

N/A

## FY 2018 to FY 2019 Increase/Decrease Statement:

The increase of \$2.359M from FY18 to FY19 can be attributed to the expansion of wargaming activities required to develop and prototype modeling and simulation capabilities and conduct analyses of concepts and principles of a data-driven wargaming capability.

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

N/A

Remarks

D. Acquisition Strategy

N/A

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**Accomplishments/Planned Programs Subtotals** 

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5.171

6.133

8.492

0.000

8.492

| Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy | Date: February 2018 |     |                                   |
|---|---------------------|-----|-----------------------------------|
| 1319/6  | ` ` '               | • ( | umber/Name)<br>dies & Analysis/MC |

#### **E. Performance Metrics**

Provide analytical documentation and support to decision makers for resolution of current and future operational and logistical issues identified by operating forces. Utilize OAD Subject Matter Experts (SME), Marine Corps University, and Naval Post Graduate School to conduct studies and analysis projects in basic and applied research and advanced technology development. Develop and maintain a current operations analysis reachback network with other government and Coalition agencies such as Center for Army Analysis, Joint Capabilities Integration and Development System (JCIDS), JIEDDO J9, Joint Trauma Analysis and Prevention of Injury in Combat (JTAPIC) program, The Technical Cooperation Program (TTCP), NATO Systems Analysis & Studies (SAS), etc.

Analysis results are employed to assist the Commandant, Assistant Commandants, Unit Commanders and the Commanding General (CG), Combat Integration Division, Marine Corps Combat Development Command (CD&I,MCCDC), Crisis Response (CR) Special Purpose Marine Air-Ground Task Forces (SPMAGTFs; CENTCOM, AFRICOM and SOUTHCOM), in addition to the Marine Expeditionary Units that are deployed around the globe and provide a continuous program of mission area analyses, formal studies, rapid response analytic efforts, and the supervision of research projects to fulfill mission. OAD provides combat analyst assessment teams for national emergencies and contingencies; is responsible for initiating, conducting or supervising all official Marine Corps studies; maintaining official Marine Corps scenarios; and participating in and reviewing the efforts of external activities such as the Office of Secretary of Defense and the Joint Staff. Baseline analysis supports Mission Capability Packages (MCPs), Investment Strategy, Joint Capability Areas (JCAs), and the Naval Strategic Plan providing the DoN assessments for future force development. Operations data and analysis support provided to USMC organizations: MCCDC, Marine Corps Intelligence Activity (MCIA), Marine Corps Warfighting Lab (MCWL), Marine Corps Central Command (MARCENT), Systems Command, Training and Education Command (TECOM). The Modeling and Simulation Analytical Toolkit (MSAT) supports analysis involving irregular warfare missions executed in a future Defense Planning Guidance scenario. These missions include information operations, offensive tactical and operational CYBER operations, foreign internal defense, special direct action arising from intelligence gathered from HUMINT and technical (SIGINT, CYBER) means.

Wargaming capability results are used to develop, assess, and refine future operating and functional concepts across the full ROMO, test current OPLANS and CONOPS; examine operational and tactical actions through repeated, multiple iterations; enable the full development of concepts through multiple opportunities for examination and evaluation; assess capability investments to inform POM development and guide capability resourcing actions; and provide education and leadership development.

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| Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy |                |         |         |                 |                |                               |         |         |         |         | Date: February 2018 |               |  |
|---|----------------|---------|---------|-----------------|----------------|-------------------------------|---------|---------|---------|---------|---------------------|---------------|--|
|   |                |         |         |                 |                | <b>Project (N</b> 0033 / OT 8 |         | ,       |         |         |                     |               |  |
| COST (\$ in Millions)                                   | Prior<br>Years | FY 2017 | FY 2018 | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total              | FY 2020 | FY 2021 | FY 2022 | FY 2023 | Cost To<br>Complete | Total<br>Cost |  |
| 0033: OT&E Support                                      | 0.000          | 11.967  | 13.643  | 14.243          | -              | 14.243                        | 14.480  | 14.763  | 15.049  | 15.336  | Continuing          | Continuing    |  |
| Quantity of RDT&E Articles                              |                | -       | -       | -               | -              | _                             | -       | -       | -       | -       |                     |               |  |

## A. Mission Description and Budget Item Justification

The Marine Corps Operational Test and Evaluation Activity (MCOTEA) supports the material acquisition process by managing the Marine Corps Operational Test (OT) programs for Acquisition Categories (ACAT) I through ACAT IV (less OT of manned aircraft) and performs other functions that may be directed by the Commandant of the Marine Corps. The primary purpose of Operational Test and Evaluation (OT&E) is to provide information to the Milestone Decision Authority (MDA) regarding the Operational Effectiveness (OE) and Operational Suitability (OS) of the system addressed at a decision point. MCOTEA must ensure that the Marines in the Operating Forces receive the very best possible equipment and support. MCOTEA must also ensure each system proposed for acquisition is tested adequately, evaluated objectively and reported independently.

Marine Corps Operational Test and Evaluation Activity (MCOTEA) is the only unit that provides the Marine Corps with required operational test and evaluation (OT&E) capability, ensuring the Marine Corps is compliant with laws and regulations, and ensuring that training and equipment are operationally effective, relevant, and suitable. Additionally, MCOTEA's early involvement, coordination, and oversight in developmental testing and evaluation of new combat and combat support systems ensures that our Marines are the best trained, and have the best equipment, with the lowest test costs for taxpayers. Finally, MCOTEA's support of rapid acquisitions ensures that Marines in the fight are supported with the newest and most advanced equipment and that the Marine Corps is compliant with regulations.

| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)   | FY 2017 | FY 2018 | FY 2019<br>Base | FY 2019<br>OCO | FY 2019<br>Total |
|--|---------|---------|-----------------|----------------|------------------|
| Title: MCOTEA  | 11.967  | 12.643  | 14.243          | 0.000          | 14.243           |
| Articles:  | -       | -       | -               | -              | -                |
| FY 2018 Plans: Continue with evaluating, quantifying and reporting on programs for the operational effectiveness, suitability and survivability of planned acquisitions to meet warfighting capabilities and will be providing Milestone Decision Authority (MDAs) to programs that are inherently governmental and a comprehensive understanding of operational risk associated with ACAT programs. |         |         |                 |                |                  |
| FY 2019 Base Plans: Continue with evaluating, quantifying and reporting on programs for the operational effectiveness, suitability and survivability of planned acquisitions to meet warfighting capabilities and will be providing Milestone Decision   |         |         |                 |                |                  |

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| Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy  |   |         |  | Date: Febr     | uary 2018        |        |
|--|---|---------|--|----------------|------------------|--------|
| 1319 / 6   | <b>1 Program Element (Number/l</b><br>3 0605873M <i>I Marine Corps Prode Supt</i> |         | Project (Number/Name)<br>0033 / OT&E Support |                |                  |        |
| B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Ea  | FY 2017   | FY 2018 | FY 2019<br>Base                              | FY 2019<br>OCO | FY 2019<br>Total |        |
| Authority (MDAs) to programs that are inherently governmental and a comprehens operational risk associated with ACAT programs.   | ive understanding of  |         |  |                |                  |        |
| FY 2019 OCO Plans:<br>N/A  |   |         |  |                |                  |        |
| FY 2018 to FY 2019 Increase/Decrease Statement: FY19's funding increase of \$1.600M, will support labor costs that were previously for branch in support of operational testing requirements.                                  | unded through the Naval Test  |         |  |                |                  |        |
| Title: Cyber Awareness Red Team Support  |   | 0.000   | 1.000  | 0.000          | 0.000            | 0.000  |
|  | Articles:   | -       | -  | -              | -                | -      |
| <b>Description:</b> This effort supports NDAA S. 1647 requirements.  |   |         |  |                |                  |        |
| FY 2018 Plans: Initiate Vulnerability Assessments and Adversarial Assessments in support of the Mayareness Red Team. Initiate efforts to train and equip the Cyber Threat Assessment Team (CTE) to meet established standards. |   |         |  |                |                  |        |
| FY 2019 Base Plans:<br>N/A   |   |         |  |                |                  |        |
| FY 2019 OCO Plans:<br>N/A  |   |         |  |                |                  |        |
| FY 2018 to FY 2019 Increase/Decrease Statement: In FY19 this effort moves to PE 0606942M project 4038.   |   |         |  |                |                  |        |
| Accomplishments/   | Planned Programs Subtotals  | 11.967  | 13.643                                       | 14.243         | 0.000            | 14.243 |

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

N/A

Remarks

# D. Acquisition Strategy

N/A

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| Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy | Date: February 2018  |  |
|---|--|--|
| Appropriation/Budget Activity 1319 / 6                  | R-1 Program Element (Number/Name) PE 0605873M / Marine Corps Program Wide Supt | Project (Number/Name)<br>0033 / OT&E Support |
| E. Performance Metrics N/A                              |  |  |
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PE 0605873M: *Marine Corps Program Wide Supt* Navy

| Exhibit R-2A, RDT&E Project Ju         | stification:   | PB 2019 N | lavy    |  |                |                  |         |  |         | Date: Febr | uary 2018           |               |
|--|----------------|-----------|---------|--|----------------|------------------|---------|--|---------|------------|---------------------|---------------|
| Appropriation/Budget Activity 1319 / 6 |                |           |         | R-1 Program Element (Number/Name) PE 0605873M / Marine Corps Program Wide Supt |                |                  |         | Project (Number/Name) 2330 / Chem Bio Consequence Mgmt |         |            |                     |               |
| COST (\$ in Millions)                  | Prior<br>Years | FY 2017   | FY 2018 | FY 2019<br>Base  | FY 2019<br>OCO | FY 2019<br>Total | FY 2020 | FY 2021  | FY 2022 | FY 2023    | Cost To<br>Complete | Total<br>Cost |
| 2330: Chem Bio Consequence<br>Mgmt     | 0.000          | 2.004     | 1.975   | 1.568  | -              | 1.568            | 1.591   | 1.620  | 1.654   | 1.687      | Continuing          | Continuing    |
| Quantity of RDT&E Articles             |                | -         | -       | -  | -              | -                | -       | -  | -       | -          |                     |               |

## A. Mission Description and Budget Item Justification

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

The Family of Incident Response Systems (FIRS) consists of equipment, systems, and services designed to provide Weapons of Mass Destruction (WMD) incident response forces the capabilities needed to effectively respond to a terrorist attack using Chemical, Biological, Radiological, Nuclear, and High-Yield Explosives (CBRNE). FIRS meets the mission requirements for the detection; mass casualty decontamination; force protection; responder inter-agency interoperability; Command, Control, Communications, Computers & Intelligence (C4I); urban search and rescue; medical and general support requirements needed by these forces to mitigate the effects of a CBRNE terrorist attack. FIRS relies primarily on Commercial Off-The-Shelf/Non-Developmental Items (COTS/NDI) equipment and systems that meet the particular mission requirements of Consequence Management (CM). Nuclear, Biological, and Chemical (NBC) systems are adopted if they meet the CM mission requirements. FIRS Research & Development effort allows the program to keep abreast of emerging technologies in the commercial sector and address operational capability gaps that cannot be met by commercial items.

| D. Accomplianmentan larmed Frograms (\$\psi\$ in \text{winnons}, Article \text{\text{dartities in Each}}                   |         |         | 1 1 2013 | 1 1 2013 | 1 1 2013 |
|--|---------|---------|----------|----------|----------|
|  | FY 2017 | FY 2018 | Base     | oco      | Total    |
| Title: FIRS: Reconnaissance Mission Area.  | 0.761   | 0.985   | 0.603    | 0.000    | 0.603    |
| Articles:  | -       | -       | -        | -        | -        |
| FY 2018 Plans:   |         |         |          |          |          |
| - Continue chemical contamination early warning research in support of technical refresh/replacement material              |         |         |          |          |          |
| solutions.   |         |         |          |          |          |
| - Initiate Common Analytical Laboratory System-Field Confirmatory Integrated System (CALS FC-IS) naval system integration. |         |         |          |          |          |
| FY 2019 Base Plans:  |         |         |          |          |          |
| - Continue chemical contamination early warning research in support of technical refresh/replacement material              |         |         |          |          |          |
| solution.  |         |         |          |          |          |
| - Continue CALS FC-IS naval system integration.  |         |         |          |          |          |
| FY 2019 OCO Plans:   |         |         |          |          |          |
| N/A  |         |         |          |          |          |
| FY 2018 to FY 2019 Increase/Decrease Statement:  |         |         |          |          |          |

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FY 2019 | FY 2019 | FY 2019

|   |   | UNCLAS   | SIFIED                 |                         |                      |                      |                 |                        |                  |
|---|---|--|------------------------|-------------------------|----------------------|----------------------|-----------------|------------------------|------------------|
| Exhibit R-2A, RDT&E Project Justification: PB 2019 N  | avy   |  |                        |                         |                      |                      | Date: Feb       | ruary 2018             |                  |
| Appropriation/Budget Activity 1319 / 6  | r/Name)<br>rogram                                     | Project (Number/Name) 2330 / Chem Bio Consequence Mgmt |                        |                         |                      |                      |                 |                        |                  |
| B. Accomplishments/Planned Programs (\$ in Millions   | Article Quant   | ities in Each  | ).                     |                         | FY 2017              | FY 2018              | FY 2019<br>Base | FY 2019<br>OCO         | FY 2019<br>Total |
| The decrease from FY18 to FY19 reflects re-phasing of development schedule.   | evelopment fun  | ds to better a   | lign with rev          | ised program            |                      |                      |                 |                        |                  |
| Title: FIRS: Force Protection Mission Area  |   |  |                        | Articles                | 1.243                | 0.990                | 0.965           | 0.000                  | 0.965            |
| FY 2018 Plans:  - Continue verification and validation testing at Dugway F employ Dismounted Reconnaissance Sets, Kits and Outl Response Force (CBIRF) in support of technical refresher- Initiate performance and durability testing for low profile explosive ordnance disposal (EOD) bomb suit integration | ts (DRSKO) set<br>s of new area m<br>self contained b | s and the Chononitoring dev                            | emical Biolo<br>rices. | gical Incident          | f                    |                      |                 |                        |                  |
| FY 2019 Base Plans:  - Continue verification and validation testing at Dugway F employ DRSKO sets and the CBIRF in support of technic - Continue performance and durability test for low profile EOD bomb suit integration.  - Initiate durability test of CBIRF's CBRN personal protect suits.               | al refreshes of reself contained b                    | new area mor<br>reathing appa                          | nitoring devi          | ces.<br>s in support of |                      |                      |                 |                        |                  |
| FY 2019 OCO Plans:<br>N/A   |   |  |                        |                         |                      |                      |                 |                        |                  |
| FY 2018 to FY 2019 Increase/Decrease Statement: The decrease from FY18 to FY19 reflects re-phasing of development schedule.   | evelopment fun  | ds to better a   | lign with rev          | ised program            |                      |                      |                 |                        |                  |
|   | Accomplis   | shments/Plar   | nned Progra            | ams Subtotal            | s 2.004              | 1.975                | 1.568           | 0.000                  | 1.568            |
| C. Other Program Funding Summary (\$ in Millions)   | FY 2019   | FY 2019  | FY 2019                |                         |                      |                      |                 | Cost To                |                  |
| Line Item PMC/2220-FIRS: Wpns & 0.000 0.8 Cmbt Vehs under \$5 million Remarks   |   | 000  | <u>Total</u><br>0.476  | <b>FY 2020</b> 0.540    | <b>FY 2021</b> 0.556 | <b>FY 2022</b> 0.000 |                 | Complete<br>Continuing |                  |

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| Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy | Date: February 2018  |  |
|---|--|--|
| Appropriation/Budget Activity<br>1319 / 6               | R-1 Program Element (Number/Name) PE 0605873M / Marine Corps Program Wide Supt | Project (Number/Name) 2330 / Chem Bio Consequence Mgmt |
| D. Acquisition Strategy<br>N/A                          |  |  |
| E. Performance Metrics<br>N/A                           |  |  |
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