| Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy | Date: April 2022 |
|---|---|
| **Appropriation/Budget Activity**<br>1319: *Research, Development, Test & Evaluation, Navy I* BA 3: *Advanced Technology Development (ATD)* | **R-1 Program Element (Number/Name)**<br>PE 0603680N *I Manufacturing Technology Program* |

| COST ($ in Millions) | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 0.000 | 58.437 | 77.236 | 60.704 | - | 60.704 | 61.843 | 63.115 | 64.403 | 65.691 | Continuing | Continuing |
| 1050: *Manufacturing Tech* | 0.000 | 58.437 | 57.236 | 60.704 | - | 60.704 | 61.843 | 63.115 | 64.403 | 65.691 | Continuing | Continuing |
| 9999: *Congressional Adds* | 0.000 | 0.000 | 20.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 20.000 |

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

The Office of Naval Research's (ONR) mission is to foster scientific research for the advancement of naval power. This work does not stop at the laboratory. Delivery of breakthrough capability often requires new technologies in manufacturing and supply chains of national security. The Manufacturing Technology (ManTech) Program is intended to improve the productivity and responsiveness of the U.S. defense industrial base by funding the development, optimization, and transition of enabling manufacturing technologies to key naval suppliers. In general, investments transition emerging Science and Technology (S&T) results to acquisition programs; improve industrial capabilities in production, maintenance, repair and industrial base responsiveness; and advance manufacturing technology to reduce cost, improve performance, and responsiveness. Currently, the ManTech Program is focused on affordability improvements for specific key acquisition platforms as defined in the Navy ManTech Investment Strategy. Key platforms currently targeted include: VIRGINIA Class Submarine (VCS)/COLUMBIA Class submarine (CLB); DDG 51 Class destroyer; CVN 78 Class carrier; FFG 62 Class frigate, and F-35 Lightning II aircraft. Office of Naval Research (ONR) ManTech helps these Navy programs achieve their respective affordability goals by transitioning developed manufacturing technology which, when implemented, results in needed cost reduction or cost avoidance. In addition to addressing affordability for key naval platforms, ManTech also addresses manufacturing technology to aid in capability acceleration to the fleet.

Today's Sailors and Marines are enabled by naval Science and Technology (S&T). Since 1946, the Office of Naval Research (ONR) has fostered scientific research related to the maintenance of maritime superiority and national defense. ONR manages the Department of the Navy's (DON) portfolio of naval Basic and Applied research, and Advanced Technology Development investments to ensure naval forces can effectively deter conflict, but when called upon, fight, win and come home safe. Current investments hedge against uncertainty, providing solutions to commanders today, and options for the future. The Naval S&T budget supports higher guidance defined by the National Defense Strategy, and responds to requirements identified by the Secretary of the Navy through research priorities set by the Chief of Naval Research, coordinated across the Naval Research Enterprise (NRE), and outlined in the Naval R&D Framework.

This Program Element (PE) funds Advanced Technology Development (ATD) that includes development of subsystems and components and efforts to integrate subsystems and components into system prototypes for field experiments and/or tests in a simulated environment. Efforts in this PE generally have Technology Readiness Levels TRL) of 4 (component and/or breadboard validation in laboratory environment.), 5 (component and/or breadboard validation in relevant environment.), or 6 (system/subsystem model or prototype demonstration in a relevant environment).

Due to the number of efforts in this Program Element (PE), the programs described herein are representative of the work included in this PE.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy | Date: April 2022 |
|---|---|
| **Appropriation/Budget Activity**<br>1319: *Research, Development, Test & Evaluation, Navy I* BA 3: *Advanced Technology Development (ATD)* | **R-1 Program Element (Number/Name)**<br>PE 0603680N *I Manufacturing Technology Program* |

| B. Program Change Summary ($ in Millions) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 59.861 | 57.236 | 0.000 | - | 0.000 |
| Current President's Budget | 58.437 | 77.236 | 60.704 | - | 60.704 |
| Total Adjustments | -1.424 | 20.000 | 60.704 | - | 60.704 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | 20.000 | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -1.424 | 0.000 | | | |
| • Rate/Misc Adjustments | 0.000 | 0.000 | 0.000 | - | 0.000 |
| • Adjustments to Budget Year | - | - | 60.704 | - | 60.704 |

| Congressional Add Details ($ in Millions, and Includes General Reductions) | FY 2021 | FY 2022 |
|---|---|---|
| **Project:** 9999: *Congressional Adds* | | |
| Congressional Add: *Energetics processing* | 0.000 | 5.000 |
| Congressional Add: *Chemical reactor and crystallizer technology* | 0.000 | 15.000 |
| Congressional Add Subtotals for Project: 9999 | 0.000 | 20.000 |
| Congressional Add Totals for all Projects | 0.000 | 20.000 |

**Change Summary Explanation**

Funding: no significant change

Technical: Not applicable

Schedule: Not applicable

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FY 2023 funding increase reflects the fact that the FY 2022 President’s Budget request did not include out-year funding.

| Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy | | | Date: April 2022 |
|---|---|---|---|
| Appropriation/Budget Activity<br>1319 / 3 | R-1 Program Element (Number/Name)<br>PE 0603680N / *Manufacturing Technology Program* | Project (Number/Name)<br>1050 / *Manufacturing Tech* | |

| COST ($ in Millions) | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1050: *Manufacturing Tech* | 0.000 | 58.437 | 57.236 | 60.704 | - | 60.704 | 61.843 | 63.115 | 64.403 | 65.691 | Continuing | Continuing |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |

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

The Office of Naval Research's (ONR) mission is to foster scientific research for the advancement of naval power. This work does not stop at the laboratory. Delivery of breakthrough capability often requires new technologies in manufacturing and supply chains of national security. The Manufacturing Technology (ManTech) Program is intended to improve the productivity and responsiveness of the U.S. defense industrial base by funding the development, optimization, and transition of enabling manufacturing technologies to key naval suppliers. In general, investments transition emerging Science and Technology (S&T) results to acquisition programs; improve industrial capabilities in production, maintenance, repair and industrial base responsiveness; and advance manufacturing technology to reduce cost, improve performance, and responsiveness. Currently, the ManTech Program is focused on affordability improvements for specific key acquisition platforms as defined in the Navy ManTech Investment Strategy. Key platforms currently targeted include: VIRGINIA Class submarine (VCS)/COLUMBIA Class submarine (CLB), DDG 51 Class destroyer, CVN 78 Class carrier, FFG 62 Class frigate, and F-35 Lightning II aircraft. Through its affordability efforts, ManTech helps these Navy programs achieve their respective affordability goals by transitioning developed manufacturing technology which, when implemented, results in needed cost reduction or cost avoidance. In addition to addressing affordability for key naval platforms, ManTech also addresses manufacturing technology to aid in capability acceleration to the fleet.

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|---|---|---|---|---|
| ***Title:*** Composites Processing and Fabrication | 7.730 | 7.932 | 7.877 | 0.000 | 7.877 |
| ***Articles:*** | - | - | - | - | - |
| ***Description:*** The primary technical goal of the Composites Processing and Fabrication activity is improving weapon systems affordability, enhancing weapon system effectiveness and improving reliability/warfighter readiness through the increased utilization of composite materials and structures. This is being achieved through the development, maturation, and transition of affordable and robust manufacturing, assembly, and repair processes that fully exploit the benefits of composite materials. Concentration is on affordability for the following platforms: VIRGINIA Class submarine (VCS)/COLUMBIA Class submarine (CLB), DDG 51 Class destroyer, CVN 78 Class carrier, FFG 62 Class frigate, and F-35 Lightning II aircraft. In addition to addressing affordability for key naval platforms, ManTech also addresses manufacturing technology to aid in capability acceleration to the fleet.<br><br>Composites processing and fabrication technology areas include but are not limited to fiber-reinforced polymeric (organic) resin composites; ceramic-matrix, metal-matrix, and carbon-carbon composites; composite internal stiffening core materials such as foam, ceramic, balsa wood, polymeric or metallic honeycomb, or other | | | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy | | Date: April 2022 |
|---|---|---|
| **Appropriation/Budget Activity**<br>1319 / 3 | **R-1 Program Element (Number/Name)**<br>PE 0603680N / *Manufacturing Technology Program* | **Project (Number/Name)**<br>1050 / *Manufacturing Tech* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|---|---|---|---|---|
| materials; composite external stiffening concepts such as hat and blade stiffeners and methodologies to manufacture them; materials for radomes and other electrical applications; composite manufacturing and similar processes and related equipment technology; and adhesives, adhesive bonding, and related technologies (i.e., surface preparation techniques), as well as mechanical fastening, and other methodologies for joining composites to other composites or metals, and similar assembly technologies.<br><br>***FY 2022 Plans:***<br>- Continue to develop and transition composites manufacturing technology improvements that result in cost reduction for key affordability platforms: VCS/CLB, DDG 51, CVN 78, FFG(X), and F-35.<br><br>- Continue to develop and transition composites manufacturing technology improvements that accelerate capability to the fleet. Areas of concentration include (1) transparencies for the F-35 Lightning II aircraft, (2) submarine coatings, (3) flares, and (4) High Energy Laser (HEL) weapon systems.<br>***FY 2023 Base Plans:***<br>- Continue to develop and transition composites manufacturing technology improvements that result in cost reduction for key affordability platforms: VCS/CLB, DDG 51, CVN 78, FFG 62 (formerly FFG(X)), and F-35.<br><br>- Continue to develop and transition composites manufacturing technology improvements that accelerate capability to the fleet. Areas of FY23 concentration include (1) SWARM/unmanned/autonomous vehicle production, (2) advanced submarine fabrication technology, (3) fleet sustainment technology (ships/aircraft), (4) hypersonics production, and (5) other ONR manufacturing acceleration efforts.<br>***FY 2023 OCO Plans:***<br>N/A<br>***FY 2022 to FY 2023 Increase/Decrease Statement:***<br>There is no significant funding change from FY 2022 to FY 2023. | | | | | |
| ***Title:*** Electronics Processing and Fabrication | 11.596 | 11.898 | 11.816 | 0.000 | 11.816 |
| ***Articles:*** | - | - | - | - | - |
| ***Description:*** The primary technical goal of the Electronics Processing and Fabrication activity is improving electronic weapon systems affordability by developing and transitioning affordable, robust manufacturing processes and capabilities for electronics critical to defense applications over their full life-cycle. Efforts create new and improved electronics/electro-optics manufacturing processes for transition to the production floor. | | | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy | | Date: April 2022 |
|---|---|---|
| **Appropriation/Budget Activity**<br>1319 / 3 | **R-1 Program Element (Number/Name)**<br>PE 0603680N / *Manufacturing Technology Program* | **Project (Number/Name)**<br>1050 / *Manufacturing Tech* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|---|---|---|---|---|
| Emphasis is on affordability for the following platforms: VIRGINIA Class submarine (VCS)/COLUMBIA Class submarine (CLB), DDG 51 Class destroyer, CVN 78 Class carrier, FFG 62 Class frigate, and F-35 Lightning II aircraft. In addition to addressing affordability for key naval platforms, ManTech also addresses manufacturing technology to aid in capability acceleration to the fleet.<br><br>Electronics processing and fabrication technology areas include but are not limited to Electronics manufacturing technology (materials, devices, circuits, modules, subsystems); semiconductor devices/vacuum electronics/ passive components; compound semiconductors/wide bandgap semiconductors; low-cost, high-throughput manufacturing and assembly techniques; nanoelectronics; electronics packaging technologies (including tamper proof and non-hermetic approaches); optics manufacturing technology (materials devices, circuits, modules, subsystems); optical interconnects; fiber optics and photonics; technologies for electronics and electro-optics testing and evaluation; optical imaging for manufacturing operations; and High Energy Laser (HEL)/directed energy weapons.<br><br>***FY 2022 Plans:***<br>- Continue to develop and transition electronics and electro-optics manufacturing technology improvements that result in cost reduction for key affordability platforms: VCS/CLB, DDG 51, CVN 78, FFG(X), and F-35.<br><br>- Continue to develop and transition electronics and electro-optics manufacturing technology improvements that accelerate capability to the fleet. Areas of concentration include (1) High Energy Lasers (HEL) weapon systems, (2) Surface Electronic Warfare Improvement Program (SEWIP) for FFG(X) and Large Surface Combatant, and (3) unmanned vehicles.<br>***FY 2023 Base Plans:***<br>- Continue to develop and transition electronics and electro-optics manufacturing technology improvements that result in cost reduction for key affordability platforms: VCS/CLB, DDG 51, CVN 78, FFG 62 (formerly FFG(X)), and F-35.<br><br>- Continue to develop and transition electronics and electro-optics manufacturing technology improvements that accelerate capability to the fleet. Areas of concentration include (1) SWARM/unmanned/autonomous vehicle production, (2) High Energy Laser (HEL) weapon systems/directed energy, (3) fleet sustainment technology (ships/aircraft), and (4) other ONR manufacturing acceleration efforts.<br>***FY 2023 OCO Plans:*** | | | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy | | Date: April 2022 |
|---|---|---|
| **Appropriation/Budget Activity**<br>1319 / 3 | **R-1 Program Element (Number/Name)**<br>PE 0603680N / *Manufacturing Technology Program* | **Project (Number/Name)**<br>1050 / *Manufacturing Tech* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|---|---|---|---|---|
| N/A<br><br>***FY 2022 to FY 2023 Increase/Decrease Statement:***<br>There is no significant funding change from FY 2022 to FY 2023. | | | | | |
| ***Title:*** Metals Processing and Fabrication | 11.596 | 11.898 | 11.816 | 0.000 | 11.816 |
| ***Articles:*** | - | - | - | - | - |
| ***Description:*** The primary technical goal of the Metals Processing and Fabrication activity is to develop affordable, robust manufacturing and repair processes/capabilities for metals and special materials critical to Navy weapon system applications. Emphasis is on affordability for the following platforms: VIRGINIA Class submarine (VCS)/COLUMBIA Class submarine (CLB), DDG 51 Class destroyer, CVN 78 Class carrier, FFG 62 Class frigate, and F-35 Lightning II aircraft. In addition to addressing affordability for key naval platforms, ManTech also addresses manufacturing technology to aid in capability acceleration to the fleet.<br><br>This activity also includes the development, optimization, and transition of repair technology for the repair, overhaul, and sustainment of key navy systems. Metals processing and fabrication technology areas include but are not limited to: processing methods; metals additive manufacturing; metallic materials-based systems; casting; joining techniques; machining; surface and heat treatments; coating/cladding; assembly; metal/non-metals interfaces issues; and inspection and compliance verification.<br><br>***FY 2022 Plans:***<br>- Continue to develop and transition metals manufacturing technology improvements that result in cost reduction for key affordability platforms: VCS/CLB, DDG 51, CVN 78, FFG(X), and F-35.<br><br>- Continue to develop and transition metals manufacturing technology improvements that accelerate capability to the fleet. Areas of concentration include (1) High Energy Lasers (HEL) weapon systems and (2) unmanned vehicles.<br><br>- Continue Repair Technology (RepTech) Thrust to develop, optimize, and transition repair technology for key naval platforms at depots and logistics centers.<br><br>***FY 2023 Base Plans:***<br>- Continue to develop and transition metals manufacturing technology improvements that result in cost reduction for key affordability platforms: VCS/CLB, DDG 51, CVN 78, FFG 62 (formerly FFG(X)), and F-35. | | | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy | | Date: April 2022 |
|---|---|---|
| **Appropriation/Budget Activity**<br>1319 / 3 | **R-1 Program Element (Number/Name)**<br>PE 0603680N / *Manufacturing Technology Program* | **Project (Number/Name)**<br>1050 / *Manufacturing Tech* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|---|---|---|---|---|
| - Continue to develop and transition metals manufacturing technology improvements that accelerate capability to the fleet. Areas of concentration include (1) SWARM/unmanned/autonomous vehicle production, (2) advanced submarine fabrication technology, (3) fleet sustainment technology (ships/aircraft), and (4) other ONR manufacturing acceleration efforts.<br><br>- Continue Repair Technology (RepTech) Thrust to develop, optimize, and transition repair technology for key naval platforms at depots and logistics centers.<br><br>***FY 2023 OCO Plans:***<br>N/A<br><br>***FY 2022 to FY 2023 Increase/Decrease Statement:***<br>There is no significant funding change from FY 2022 to FY 2023. | | | | | |
| ***Title:*** Manufacturing Enterprise/Other | 27.515 | 25.508 | 29.195 | 0.000 | 29.195 |
| ***Articles:*** | - | - | - | - | - |
| ***Description:*** The Manufacturing Enterprise/Other activity includes: (1) efforts targeted towards improving, in general, the manufacturing enterprise for the production of key naval platforms (both shipbuilding and aircraft); (2) energetics efforts; (3) naval research enterprise and laboratory support for key projects; and (4) technical program support. Manufacturing Enterprise addresses the development, optimization, and transition of manufacturing enterprise technology to key naval platform suppliers. Emphasis is on affordability for the following shipbuilding platforms: VIRGINIA Class submarine (VCS)/COLUMBIA Class submarine (CLB), DDG 51 Class destroyer, CVN 78 Class carrier, FFG 62 Class frigate, and F-35 Lightening II aircraft. In addition to addressing affordability for key naval platforms, ManTech also addresses manufacturing technology to aid in capability acceleration to the fleet.<br><br>Manufacturing enterprise technology areas include, but are not limited to design for easier production/design for manufacturability; development of build/assembly strategies; modeling and simulation technologies; model-based tools and approaches to optimize ease of production; intelligent manufacturing planning and factory execution; elimination of inefficiencies in design optimization, material usage, labor utilization, work flow, etc.; supply chain procedures and improvements (such as network centric manufacturing capabilities to facilitate resilient and adaptable supply chains); development of more efficient structural fabrication product lines; streamlining of outfitting operations; prediction and reduction of welding distortion; advanced automation and | | | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy | | Date: April 2022 |
|---|---|---|
| **Appropriation/Budget Activity**<br>1319 / 3 | **R-1 Program Element (Number/Name)**<br>PE 0603680N / *Manufacturing Technology Program* | **Project (Number/Name)**<br>1050 / *Manufacturing Tech* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|---|---|---|---|---|
| robotics for manufacturing; advanced data analytics, artificial intelligence and machine learning for production environments; and inspection technologies such as digital radiography and ultrasonic technologies. Energetics efforts concentrate on developing energetics solutions to ensure the availability of safe, affordable, and quality energetics products largely in support of Program Executive Office (PEO) Integrated Warfare Systems (IWS).<br><br>***FY 2022 Plans:***<br>- Continue at a reduced level to develop and transition advanced manufacturing enterprise technology improvements that result in cost reduction for key affordability platforms: VCS/CLB, DDG 51, CVN 78, FFG(X), and F-35.<br><br>- Continue to develop and transition advanced manufacturing enterprise technology improvements that accelerate capability to the fleet. An area of concentration includes manufacturing improvements for unmanned vehicles.<br><br>- Continue to develop and transition energetics manufacturing technology improvements that result in cost reduction for Naval Systems.<br><br>- Continue to develop and transition energetics manufacturing technology improvements that accelerate capability to the fleet. An area of concentration includes manufacturing improvements for flares and energetics.<br>***FY 2023 Base Plans:***<br>- Continue, at an increased level, to develop and transition advanced manufacturing enterprise technology improvements that result in cost reduction for key affordability platforms: VCS/CLB, DDG 51, CVN 78, FFG 62 (formerly FFG(X)), and F-35.<br><br>- Continue to develop and transition advanced manufacturing enterprise technology improvements that accelerate capability to the fleet. Areas of concentration include (1) SWARM/unmanned/autonomous vehicle production, and (2) fleet sustainment technology (ships/aircraft).<br><br>- Continue to develop and transition energetics manufacturing technology improvements that result in cost reduction for Naval Systems. | | | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy | | Date: April 2022 |
|---|---|---|
| **Appropriation/Budget Activity**<br>1319 / 3 | **R-1 Program Element (Number/Name)**<br>PE 0603680N / *Manufacturing Technology Program* | **Project (Number/Name)**<br>1050 / *Manufacturing Tech* |

| B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each) | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total |
|---|---|---|---|---|---|
| - Continue to develop and transition energetics manufacturing technology improvements that accelerate capability to the fleet. An area of concentration includes energetics production improvement.<br>***FY 2023 OCO Plans:***<br>N/A<br>***FY 2022 to FY 2023 Increase/Decrease Statement:***<br>The funding increase from FY 2022 to FY 2023 is due to increased investment and associated research in manufacturing enterprise technology improvements supporting platform affordability initiatives. | | | | | |
| **Accomplishments/Planned Programs Subtotals** | 58.437 | 57.236 | 60.704 | 0.000 | 60.704 |

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

N/A

**Remarks**

**D. Acquisition Strategy**

Efforts are focused on affordability improvements (both acquisition and life-cycle) for specific key acquisition platforms as defined in the Navy ManTech Investment Strategy. Currently, the majority of Navy ManTech efforts are focused on affordability improvements for: VIRGINIA Class submarine (VCS)/COLUMBIA Class submarine (CLB), DDG 51 Class destroyer, CVN 78 Class carrier, FFG 62 Class frigate, and F-35 Lightning II aircraft. A smaller portion of ManTech's budget (approximately 20%) is directed towards capability acceleration -- manufacturing acceleration of key technologies to enable transition of these technologies to the fleet more quickly.

| Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy | | | Date: April 2022 |
|---|---|---|---|
| Appropriation/Budget Activity<br>1319 / 3 | R-1 Program Element (Number/Name)<br>PE 0603680N / *Manufacturing Technology Program* | Project (Number/Name)<br>9999 / *Congressional Adds* | |

| COST ($ in Millions) | Prior Years | FY 2021 | FY 2022 | FY 2023 Base | FY 2023 OCO | FY 2023 Total | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9999: *Congressional Adds* | 0.000 | 0.000 | 20.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 20.000 |
| Quantity of RDT&E Articles | | - | - | - | - | - | - | - | - | - | | |

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

Congressional Interest Items not included in other Projects

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2021 | FY 2022 |
|---|---|---|
| ***Congressional Add:*** Energetics processing<br>***FY 2021 Accomplishments:*** N/A<br>***FY 2022 Plans:*** Conduct energetics processing advanced technology development | 0.000 | 5.000 |
| ***Congressional Add:*** Chemical reactor and crystallizer technology<br>***FY 2021 Accomplishments:*** N/A<br>***FY 2022 Plans:*** Conduct chemical reactor and crystallizer technology advanced technology development | 0.000 | 15.000 |
| **Congressional Adds Subtotals** | 0.000 | 20.000 |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A