| Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Office of the Secretary Of Defense | Date: March 2024 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support* | **R-1 Program Element (Number/Name)**<br>PE 0605142D8Z / *Systems Engineering* |

| COST ($ in Millions) | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Program Element | 373.949 | 37.174 | 39.949 | 24.669 | - | 24.669 | 23.487 | 23.781 | 24.295 | 24.783 | Continuing | Continuing |
| 142: *Systems Engineering* | 343.274 | 16.812 | 22.179 | 20.538 | - | 20.538 | 20.138 | 20.736 | 21.188 | 21.614 | Continuing | Continuing |
| 842: *Mission Engineering* | 20.759 | 11.939 | 13.073 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | Continuing | Continuing |
| 144: *Program Engagement and Independent Assessments* | 9.916 | 8.423 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | Continuing | Continuing |
| 152: *Engineering Architectures* | 0.000 | 0.000 | 4.697 | 4.131 | - | 4.131 | 3.349 | 3.045 | 3.107 | 3.169 | Continuing | Continuing |

**Note**

New Start (Y/N): No

In FY 2025, the Under Secretary of Defense for Research & Engineering (USD(R&E)) will realign funding from Project Code 842 to Mission Engineering and Integration (ME&I) Program Element 0603142D8Z, Project Code 123 to fund the Office of Mission Integration (MI). This new funding structure, which separates funding for MI from funding for the Office of Systems Engineering and Architecture (SE&A), will better reflect the organizational structure of the Office of the Under Secretary of Defense for Research and Engineering.

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

This Program establishes dedicated funding to carry out the duties as described in 10 U.S.C 133a and the Department of Defense Directive 5137.02, “Under Secretary of Defense for Research and Engineering (USD(R&E)),” dated July 15, 2020. In addition, the Program supports the National Defense Strategy and enables the Department to defend the homeland; deter strategic attacks against the United States, Allies, and partners; deter aggression; and build a resilient Joint Force and defense ecosystem.

This funding directly supports Major Defense Acquisition Programs in accordance with the National Defense Strategy and in support of the critical technology areas advanced by the Under Secretary of Defense for Research & Engineering. Furthermore, it supports the implementation of Department initiatives and advances the development and adoption of emerging technologies with speed and agility in the areas of interoperability, digital engineering, software engineering, model-based systems engineering, specialty engineering, value engineering, modular open systems approaches (MOSA), and standardization.

| Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Office of the Secretary Of Defense | Date: March 2024 |
|---|---|
| **Appropriation/Budget Activity**<br>0400: *Research, Development, Test & Evaluation, Defense-Wide* / BA 6: *RDT&E Management Support* | **R-1 Program Element (Number/Name)**<br>PE 0605142D8Z / *Systems Engineering* |

| B. Program Change Summary ($ in Millions) | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total |
|---|---|---|---|---|---|
| Previous President's Budget | 38.585 | 39.949 | 37.648 | - | 37.648 |
| Current President's Budget | 37.174 | 39.949 | 24.669 | - | 24.669 |
| Total Adjustments | -1.411 | 0.000 | -12.979 | - | -12.979 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -1.407 | - | | | |
| • Program Realignments | - | - | -12.780 | - | -12.780 |
| • Cancelled Account | -0.004 | - | - | - | - |
| • Program Adjustment | - | - | -0.199 | - | -0.199 |

**Change Summary Explanation**

FY 2023 change in Current President's Budget from Previous President's Budget is due to SBIR/STTR (-$1.408 million) and Cancelled Accounts (-$0.004 million) reductions.

The FY 2025 funding reduction is composed of a realignment of $12.780 million from Project Code 842 to Mission Engineering and Integration (ME&I) Program Element 0603142D8Z, Project Code 123 to fund the Office of Mission Integration (MI). This funding structure will better reflect the organizational structure of the Office of the Under Secretary of Defense for Research and Engineering (OUSD(R&E)).

A reduction of $0.249 million was applied to DoD overall funding reductions, which were spread to mitigate impact. A funding increase of $0.05 million is for Economic Assumptions. Overall net reduction of $0.199 million applied.

| Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense | | | Date: March 2024 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 6 | R-1 Program Element (Number/Name)<br>PE 0605142D8Z / *Systems Engineering* | Project (Number/Name)<br>142 / *Systems Engineering* | |

| COST ($ in Millions) | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 142: *Systems Engineering* | 343.274 | 16.812 | 22.179 | 20.538 | - | 20.538 | 20.138 | 20.736 | 21.188 | 21.614 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

The Systems Engineering project provides resources to develop and promote advanced engineering principles, techniques, and practices across the Department of Defense, connects and strengthens the technical community, develops the engineering and technical workforce, advances and manages standards, and provides technical expertise for independent engineering assessments to advance the development and adoption of emerging technologies with speed and agility. On behalf of the Under Secretary of Defense for Research and Engineering (USD(R&E)), this project executes the following activities:

• Supports USD(R&E)'s initiatives to modernize the Department of Defense's systems and software engineering practices to include the use of modular open systems approaches (MOSA) and advanced systems engineering techniques to build systems capable of seamlessly incorporating new technologies to respond to emerging threats.
• Implements digital engineering, modeling, and simulations to allow the Department of Defense to rapidly field and implement innovative technologies for the Joint warfighter.
• Supports the adoption of modern Agile/DevSecOps (Development, Security, and Operations) software practices and improves cross-organizational collaboration to modernize Department of Defense software processes, capability, and expertise.
• Continues to support execution of the approved DoD Software Science & Technology Strategy through completion and execution of the Software S&T Implementation Plan. Supports collaboration and management activities through the DoD Software Modernization Senior Steering Group in coordination with the Office of the Under Secretary of Defense for Acquisition and Sustainment (OUSD(A&S)), DoD Chief Digital and Artificial Intelligence Office (CDAO), DoD Chief Information Officer (CIO), and the Services.
• Improves delivery of advanced capability to warfighters by modernizing reliability and maintainability, manufacturing and quality, system safety, human systems integration, and value engineering practices.
• Identifies, develops, manages, and provides access to standardization processes and products for the defense community to promote interoperability, reduce cost, and sustain readiness.
• Leads production of policy, guidance, and workforce development initiatives for the Department of Defense engineering and technical workforce.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|---|---|---|
| ***Title:*** Systems Engineering | 16.812 | 22.179 | 20.538 |
| ***Description:*** The Systems Engineering project supports and improves the OUSD(R&E)'s efforts in digital engineering, MOSA, software modernization, and standardization management. In addition, the funds facilitate the identification of workforce challenges and allow OUSD(R&E) to champion initiatives to ensure the Department of Defense maintains its advantage in warfighter readiness in a rapidly evolving technological environment. | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense | | Date: March 2024 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 6 | **R-1 Program Element (Number/Name)**<br>PE 0605142D8Z / *Systems Engineering* | **Project (Number/Name)**<br>142 / *Systems Engineering* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|---|---|---|
| ***FY 2024 Plans:***<br>• Support building a resilient Joint Force and defense ecosystem by: engaging with technology demonstration efforts to develop next-generation data analytics and rapid prototypes; collaborating within the Office of the Secretary of Defense to address Development Test, Evaluation, and Assessment digital transformation needs; and executing prototyping efforts in the area of application programming interfaces (APIs) to modernize DoD's approach to interoperability.<br>• Support model-based systems engineering (MBSE) to enable faster adoption and deployment of the 14 critical technology areas in the National Defense Science and Technology Strategy and the DoD Software Science and Technology Strategy.<br>• Promote the adoption of operational imperatives for open system standards and architectures for unmanned air systems (UASs) and position, navigation, and timing (PNT) as directed by the National Defense Strategy and the 2020 Joint Requirements Oversight Council (JROC) Modular Open Systems Approach (MOSA) memo.<br>• Serve as Lead Standardization Activity for Department of Defense systems engineering specifications and standards, modular and open systems standards and specifications (MOSS), and modeling and simulation standards and methodologies.<br>• Create combat efficiencies by reducing failure modes, hazards, and defects early and throughout the capability life cycle of weapon systems.<br>• Coordinate and oversee OUSD(R&E) efforts to support civilian harm mitigation and response (CHMR).<br>• Coordinate software engineering modernization in areas of enterprise cloud services, software factories, DevSecOps (Development, Security, and Operations), continuous delivery pipelines, and applications of artificial intelligence in the warfighting domain.<br>• Develop the engineering workforce by working with MILDEPs, Defense Acquisition University, and other DoD Agencies to deploy training credentials in needed technical skill areas. Address those technical skills needed to transition technology into usable capabilities. Continue leading the DoD Digital Talent Management Forum and supporting collaboration across the Office of the Secretary of Defense (OSD) and the Services to expand the software engineering work role definition for enhanced workforce management as directed by the Deputy Secretary of Defense.<br>• Provide engineering staff support to OUSD(R&E)'s critical technical reviews and independent technical risk assessments.<br>• Serve as the Defense Standardization Executive, coordinating standards activities with the DoD community and the Defense Standardization Program Office.<br>• Update the Digital Engineering Strategy and publish the Modeling and Simulation Strategy in support of the National Defense Science and Technology Strategy. | | | |
| ***FY 2025 Plans:***<br>• Continue to support building a resilient Joint Force and defense ecosystem through: engaging with technology demonstration efforts to develop next-generation data analytics and rapid prototypes; collaborating within OSD to address Development Test, Evaluation, and Assessment digital transformation needs; and executing prototyping efforts in the area of application programming interfaces (APIs) to modernize DoD's approach to interoperability. | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense | | Date: March 2024 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 6 | **R-1 Program Element (Number/Name)**<br>PE 0605142D8Z / *Systems Engineering* | **Project (Number/Name)**<br>142 / *Systems Engineering* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|---|---|---|
| • Continue to support model-based systems engineering (MBSE) to enable faster adoption and deployment of the 14 critical technology areas in the National Defense Science and Technology Strategy and the DoD Software Science and Technology Strategy.<br>• Continue to serve further Department of Defense efforts as Lead Standardization Activity for systems engineering specifications and standards, modular and open systems standards and specifications (MOSS), and modeling and simulation standards and methodologies.<br>• Develop additional combat efficiencies by reducing failure modes, hazards, and defects early and throughout the capability life cycle of weapon systems.<br>• Continue coordinating software engineering modernization in areas of enterprise cloud services, software factories, DevSecOps (Development, Security, and Operations), continuous delivery pipelines, and applications of artificial intelligence in the warfighting domain.<br>• Continue to support the Department of Defense in its efforts to advance its digital engineering (DE) and modeling and simulation (M&S) efforts in support of the National Defense Science and Technology Strategy.<br>• Continue to oversee OUSD(R&E) efforts to support civilian harm mitigation and response (CHMR).<br>• Continue to work with MILDEPs, Defense Acquisition University, and other DoD Agencies to deploy training credentials in needed technical skill areas.<br>• Continue leading the DoD Digital Talent Management Forum and supporting collaboration across OSD and the Services to define the software engineering work roles for enhanced workforce management as directed by the Deputy Secretary of Defense.<br>• Provide engineering staff support to OUSD(R&E)'s critical technical reviews and independent technical risk assessments.<br>• Serve as the Defense Standardization Executive, coordinating standards activities with the DoD community and the Defense Standardization Program Office.<br>***FY 2024 to FY 2025 Increase/Decrease Statement:***<br>The decrease of -$1.476 million in FY 2025 is due to anticipation that in FY 2024 significant progress will have been made toward strengthening and championing engineering and innovation efforts across the DoD. | | | |
| **Accomplishments/Planned Programs Subtotals** | 16.812 | 22.179 | 20.538 |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

| Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense | | | Date: March 2024 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 6 | R-1 Program Element (Number/Name)<br>PE 0605142D8Z / *Systems Engineering* | Project (Number/Name)<br>842 / *Mission Engineering* | |

| COST ($ in Millions) | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 842: *Mission Engineering* | 20.759 | 11.939 | 13.073 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

**Note**

In FY 2025, the Under Secretary of Defense for Research & Engineering (USD(R&E)) will realign funding from Project Code 842 to Mission Engineering and Integration (ME&I) Program Element 0603142D8Z, Project Code 123 to fund the Office of Mission Integration (MI). This new funding structure, which separates funding for MI from funding for the Office of Systems Engineering and Architecture (SE&A), will better reflect the organizational structure of the Office of the Under Secretary of Defense for Research and Engineering. FY 2025 funding from Program Element 0603142D8Z, Project Code 123 will exist as a continuation of FY 2024 efforts, which Program Element 0605142D8Z, Project Code 842 would have previously funded. To supplement those efforts, additional funding will be realigned to Program Element 0603142D8Z, Project Code 123 from the Trusted & Assured Microelectronics Program Element 0605294D8Z to support deepened analysis of recommended technologies that eliminate or disrupt adversary kill chains or deliver superior Blue Force kill chains.

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

The Mission Engineering project activities include the following functions:

• Carry out responsibilities described in the National Defense Authorization Act for FY 2017, Section 855 titled Mission Integration Management (MIM) and supports the National Defense Strategy goals of developing new joint warfighting concepts and modernization of emerging capabilities to achieve a more lethal force.

• Achieve full operational capability of the mission engineering framework that was built in FY 2021 to instantiate the technical element of MIM and identify and promulgate best practices for mission-focused analyses and studies.

• Ensure the DoD applies engineering rigor to both operational and technical analysis of future capabilities to enable the DoD leaders to make informed investment decisions and deliver technologies and capabilities to close mission gaps in response to new threats.

• Execute multiple mission engineering studies in support of the National Defense Strategy modernization areas to identify technology solutions, advise on development of requirements, and develop Government Reference Architectures (GRA) for new joint warfighting capabilities, which are a key enterprise document that will be used to guide development of capabilities that are required for warfighters to carry out operational and tactical missions against our adversaries.

• In coordination with the Joint Staff, the Office of the Secretary's Office for Cost Assessment & Program Evaluation (OSD(CAPE)), the Under Secretary for Acquisition & Sustainment (USD(A&S)), Combatant Commands, Services, and other stakeholders, provide engineering analysis and studies at the campaign, mission, and engagement levels to support the prioritization and development of the Department’s technology modernization and prototyping roadmaps.

• Continue the development of the technical infrastructure and analysis tools for engineering studies and data mining as well as modeling and simulation analytic tools to support this effort.

• Support the analysis of as is operational and technical architectures of current joint capabilities and further support the development of to be GRAs of future required capabilities to align investment opportunities with emerging technological developments.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|---|---|---|
| ***Title:*** Mission Integration | 11.939 | 13.073 | - |

| Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense | | Date: March 2024 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 6 | **R-1 Program Element (Number/Name)**<br>PE 0605142D8Z / *Systems Engineering* | **Project (Number/Name)**<br>842 / *Mission Engineering* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|---|---|---|
| ***FY 2024 Plans:***<br>Continued execution of the Strategic Thrusts identified within the FY 2023 Plans above with continued expansion of scope of Mission Integration Management activities that both implement the National Defense Authorization Act for FY 2017 Section 855 and support the National Defense goals of developing new joint warfighting concepts and modernizing capabilities to achieve a more lethal force.<br>***FY 2024 to FY 2025 Increase/Decrease Statement:***<br>In FY 2025, funding will be realigned from the Mission Engineering project to Mission Engineering and Integration (ME&I) Program Element 0603142D8Z, Project Code 123 to fund the Office of Mission Integration. Funding and efforts that would have previously been done in this Program Element and project code will continue under Program Element 0603142D8Z, project code 123. | | | |
| **Accomplishments/Planned Programs Subtotals** | 11.939 | 13.073 | - |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A

| Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense | | | Date: March 2024 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 6 | R-1 Program Element (Number/Name)<br>PE 0605142D8Z / *Systems Engineering* | Project (Number/Name)<br>144 / *Program Engagement and Independent Assessments* | |

| COST ($ in Millions) | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 144: *Program Engagement and Independent Assessments* | 9.916 | 8.423 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | - | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

Program Engagement and Independent Assessments program activities include the following functions:
• Conducts and approves Independent Technical Risk Assessments (ITRAs) on Acquisition Category (ACAT)-1D Major Defense Acquisition Programs (MDAPs). Reviews and approves ITRAs on select high priority ACAT 1B/1C MDAPs.
• Conceive plans and conducts Preliminary and Critical Design Review Assessments of MDAPs under the Office of the Secretary of Defense (OSD) purview.
• Pursuant to U.S.C. 10 Sec 2366 requirements, provides basis for critical technology and manufacturing process determinations and certifications of MDAPs under OSD purview.
• Satisfies U.S.C. 10 Sec 2448a requirements by providing risk assessments to support the development of cost, schedule, and performance targets.
• Support acceleration of USD(R&E)'s critical technology initiatives in accordance with the National Defense Strategy.
• Conduct other technical reviews as requested, such as Nunn-McCurdy certification reviews, Non-Advocate Reviews, focused technical assessments, and software readiness reviews to identify and mitigate program risk.
• Oversee Service and other Component organizations' implementation of engineering initiatives and approve or conduct independent assessments.
• Guide Service and other component organizations in the development planning process to ensure proposed MDAP programs are executable within acceptable levels of risk.
• Provide Systems Engineering support to MDAPs. Review the systems engineering plans (SEPs) and activities for MDAPs.
• Monitor and advise the Under Secretary of Defense for Research & Engineering (USD(R&E)) and the Under Secretary of Defense for Acquisition & Sustainment USD(A&S) on technical and engineering aspects of MDAPs and select alternate acquisition pathway programs to ensure they are adequate to support fielding and the achievement of cost, schedule and performance goals to include readiness, i.e. producibility, reliability, maintainability, sustainment, and other considerations.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|---|---|---|
| ***Title:*** Development Test Evaluation and Assessments | 8.423 | - | - |
| **Accomplishments/Planned Programs Subtotals** | 8.423 | - | - |

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

N/A

**Remarks**

| Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense | | Date: March 2024 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 6 | **R-1 Program Element (Number/Name)**<br>PE 0605142D8Z / *Systems Engineering* | **Project (Number/Name)**<br>144 / *Program Engagement and Independent Assessments* |

**D. Acquisition Strategy**

N/A

| Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense | | | Date: March 2024 |
|---|---|---|---|
| Appropriation/Budget Activity<br>0400 / 6 | R-1 Program Element (Number/Name)<br>PE 0605142D8Z / *Systems Engineering* | Project (Number/Name)<br>152 / *Engineering Architectures* | |

| COST ($ in Millions) | Prior Years | FY 2023 | FY 2024 | FY 2025 Base | FY 2025 OCO | FY 2025 Total | FY 2026 | FY 2027 | FY 2028 | FY 2029 | Cost To Complete | Total Cost |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 152: *Engineering Architectures* | 0.000 | 0.000 | 4.697 | 4.131 | - | 4.131 | 3.349 | 3.045 | 3.107 | 3.169 | Continuing | Continuing |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | |

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

The Engineering Architectures project advances efforts in system-of-systems architecture for the Department of Defense. The project will support the development of an enterprise-wide strategy to integrate existing and future systems to improve the Department's technological advantage in joint, multidomain operations.

Systems Engineering & Architectures (SE&A) develops policy, guidance, and training to enable rigorous engineering and the accelerated delivery of affordable, innovative, and operationally relevant mission capabilities for U.S. all-domain dominance in an environment with scarce resources, near-peer threats, and continual, rapid, and complex technological change. On behalf of the Under Secretary of Defense for Research & Engineering, this project executes the following activities:

• Supports acquisition programs in the development and execution of system-of-systems engineering and architectures to enable accelerated delivery of innovative mission capabilities.
• Supports the development of enterprise system-of-systems engineering architecture guidance to facilitate improved interoperability in acquisition programs.
• Develops a workforce capable of fielding and sustaining enterprise system-of-systems engineering and architectures.

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|---|---|---|
| ***Title:*** Engineering Architectures | - | 4.697 | 4.131 |
| ***Description:*** The Engineering Architectures project supports and improves OUSD(R&E)'s efforts in Nuclear Command, Control, and Communications (NC3) and Combined Joint All-Domain Command and Control (CJADC2) as they progress through the acquisition life cycle. In addition, the funds support the development of policy and guidance for modular open systems approach (MOSA). | | | |
| ***FY 2024 Plans:***<br>• Develop the annual NC3 Technology Development Plan that provides an inventory of NC3-related R&D efforts and provides analysis on how the efforts address NC3 gaps.<br>• Provide NC3 systems engineering and architecture assistance to the Under Secretary of Defense for Acquisition and Sustainment (USD(A&S)) and CDR USSTRATCOM.<br>• Provide NC3 systems engineering and architecture assistance to Combined Joint All-Domain Command and Control (CJADC2).<br>• Collaborate with Joint Staff to develop a handbook for the adoption of Artificial Intelligence in CJADC2. | | | |
| ***FY 2025 Plans:***<br>• Update the annual Nuclear Command, Control, and Communications (NC3) Technology Development Plan to reflect changes in NC3-related research and development (R&D) efforts and how they address NC3 gaps. | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2025 Office of the Secretary Of Defense | | Date: March 2024 |
|---|---|---|
| **Appropriation/Budget Activity**<br>0400 / 6 | **R-1 Program Element (Number/Name)**<br>PE 0605142D8Z / *Systems Engineering* | **Project (Number/Name)**<br>152 / *Engineering Architectures* |

| B. Accomplishments/Planned Programs ($ in Millions) | FY 2023 | FY 2024 | FY 2025 |
|---|---|---|---|
| • Continue to provide NC3 systems engineering and architecture assistance to USD(A&S) and CDR USSTRATCOM.<br>• Continue to provide NC3 systems engineering and architecture assistance to CJADC2.<br>***FY 2024 to FY 2025 Increase/Decrease Statement:***<br>There is no significant change between FY 2024 and FY 2025. | | | |
| **Accomplishments/Planned Programs Subtotals** | - | 4.697 | 4.131 |

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A