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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

<b>Appropriation/Budget Activity</b> 0400: Research, Development, Test & Evaluation, Defense-Wide / BA 4: Advanced Component Development & Prototypes (ACD&P)	<b>R-1 Program Element (Number/Name)</b> PE 0603851D8Z / Environmental Security Technology Certification Program (ESTCP)
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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	718.515	120.029	117.196	136.513	-	136.513	161.427	170.647	173.261	176.743	-	-
514: Environmental Security Technology Certification Program	718.515	120.029	117.196	136.513	-	136.513	161.427	170.647	173.261	176.743	-	-

**Note**

New Start (Y/N): No

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

This program supports the Department's initiative for Building Sustainable and Long-Term Advantage.

The Environmental Security Technology Certification Program (ESTCP) demonstrates and validates promising and innovative environmental, resilience, and energy technologies that target the most urgent needs of the Department of Defense (DoD). Technologies selected are projected to provide a return on the investment through cost savings and improved efficiencies. The program responds to: (1) Congressional concern over the slow pace of remediation of environmentally polluted sites on military installations, (2) Congressional direction to conduct demonstrations specifically focused on emerging new technologies, and (3) the need to improve defense readiness by reducing the drain on the Department's operation and maintenance dollars caused by environmental restoration, waste management, and the cost of energy. Preference for demonstrations is given to technologies that have successfully completed all necessary research and development objectives, and address the highest priority DoD requirements.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	122.638	117.196	147.654	-	147.654
Current President's Budget	120.029	117.196	136.513	-	136.513
Total Adjustments	-2.609	0.000	-11.141	-	-11.141
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.609	-			
• Program Adjustment	-	-	-11.141	-	-11.141

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<b>Appropriation/Budget Activity</b> 0400: <i>Research, Development, Test &amp; Evaluation, Defense-Wide I BA 4: Advanced Component Development &amp; Prototypes (ACD&amp;P)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0603851D8Z / <i>Environmental Security Technology Certification Program (ESTCP)</i>
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**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

**Project:** 514: *Environmental Security Technology Certification Program*

Congressional Add: *PFAS remediation and disposal technology*

Congressional Add: *AFFF replacement, disposal, and cleanup technology*

Congressional Add: *PFAS on-site remediation technologies*

Congressional Add: *On-base Microgrid Resiliency*

Congressional Add Subtotals for Project: 514

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	5.000	-
	15.000	-
	15.000	-
	-	5.000
Congressional Add Subtotals for Project: 514	35.000	5.000
Congressional Add Totals for all Projects	35.000	5.000

**Change Summary Explanation**

FY 2025 increase from FY 2024 to support climate related grid vulnerability and on-base power.

FY 2025 decrease from previous President's Budget to support higher Departmental priorities.

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Office of the Secretary Of Defense										<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 0400 / 4					<b>R-1 Program Element (Number/Name)</b> PE 0603851D8Z / Environmental Security Technology Certification Program (ESTCP)				<b>Project (Number/Name)</b> 514 / Environmental Security Technology Certification Program			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>FY 2029</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
514: Environmental Security Technology Certification Program	718.515	120.029	117.196	136.513	-	136.513	161.427	170.647	173.261	176.743	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

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

The Environmental Security Technology Certification Program (ESTCP) demonstrates and validates promising and innovative environmental and energy technologies that target the DoD's most urgent needs. Technologies selected are projected to provide a return on the investment through cost savings and improved efficiencies. The program responds to: (1) Congressional concern over the slow pace of remediation of environmentally polluted sites on military installations, (2) Congressional direction to conduct demonstrations specifically focused on emerging new technologies, and (3) the need to improve defense readiness by reducing the drain on the Department's operation and maintenance dollars caused by environmental restoration, waste management, and the cost of energy. Preference for demonstrations is given to technologies that have successfully completed all necessary research and development objectives, and address the highest priority the DoD requirements.

**B. Accomplishments/Planned Programs (\$ in Millions)**

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<b>Title:</b> Environmental Technology Demonstration/Validation	31.957	31.631	30.481
<p><b>Description:</b> Funds are programmed for investments in projects that address priority DoD environmental requirements. The focus of the program is on (1) addressing emerging and recalcitrant cleanup issues, including per- and polyfluoroalkyl substances (PFAS), (2) live-site unexploded ordnance (UXO) in the underwater environment, (3) conservation and range sustainment technologies, and (4) reducing life cycle costs of the DoD weapons systems by eliminating hazardous materials. These investments directly assist the DoD with compliance with a number of regulatory requirements including the Resource Conservation &amp; Recovery Act (RCRA), the National Environmental Policy Act (NEPA), the Clean Water Act, the Clean Air Act, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the Sikes Act, the Endangered Species Act, NEPA, the National Historic Protection Act, the Archaeological Resources Protection Act, the Native American Graves Protection and Repatriation Act, and the Protection of Historic Properties 36 CFR Part 800, among others.</p> <p><b>FY 2024 Plans:</b>                      (1) Demonstration of PFAS destruction technologies for investigation-derived wastes, groundwater, and soils/solids. (2) Transition to live site testing of UXO detection, classification and localization systems. (3) Demonstrate technologies to improve efficiencies of natural and cultural resources compliance requirements. (4) Demonstrate and validate pollution prevention technologies for weapons systems and platforms including, chromium-free corrosion control coatings for aviation platforms and ship decks, reduced solvent topcoats with improved functional performance and solvent-free ultrasonic paint removal, lead-free and chromium</p>			

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>free ignitors for explosives and PFAS-free materials including firefighting formulations to further address the intent of Sec 3232 of the 2020 NDAA.</p> <p><b>FY 2025 Plans:</b>                      (1) Continue demonstration and validation of PFAS destruction technologies for investigation-derived wastes, groundwater, and soils/solids; (2) transition underwater UXO mobility prediction tools to live site conditions to assess the ability of the tools to predict UXO location changes as a result of high water currents due to hurricanes and other conditions; (3) Demonstrate advancing technology, including eDNA for rapid survey of invasive species or at-risk species to improve environmental security and reduce compliance burdens; (4) Demonstrate and/or validate pollution prevention technologies for weapons systems and platforms including sustainable PFAS-free corrosion control methods for additive manufacturing, sustainable manufacturing for large caliber gun tubes (DFARS Case 2020-D031), validate depainting alternative technologies and transition to depot use, continue to demonstrate sustainable processing methods for energetics and sustainable energetic formulations, including processing of explosives and isocyanate and lead-free propellants, and demonstrate more sustainable PFAS-free firefighting formulations (Sec 323 of 2020 NDAA).</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b>                      The FY 2024 to FY 2025 increase (\$3.2 million) are to expand demonstration of PFAS alternatives in weapons systems and platforms, including explosives; demonstrate and validate promising PFAS-free firefighting foams, PFAS cleanup, and PFAS destruction technologies that have transitioned from SERDP; adjust for increased at-sea operational costs for UXO Live site testing of munitions remediation systems; accelerate transition of new conservation, compliance and wildland fire technologies to end-users through the National Innovation Landscape Network, which focuses in key DoD geographies, including Alaska, Southern California, Sonoran Desert, Pacific Islands, and the Southeast U.S..</p>				
<p><b>Title:</b> Energy Technology Demonstration/Validation</p> <p><b>Description:</b> Funds are programmed for investments in energy and water projects that constitute the Installation Energy Test Bed Initiative. This initiative increases energy and water resilience, improves facility energy efficiency, reduces installation energy intensity, increases the use of renewable energy, and improves energy security. Emerging energy technologies offer the DoD a cost-effective opportunity to meet these requirements on its installations while reducing energy and operational costs. The test bed program exploits the Department's existing built infrastructure to evaluate energy efficiency and renewable energy technologies under the varied climatic conditions and building types the DoD manages.</p> <p><b>FY 2024 Plans:</b>                      Planned multi-year demonstrations will continue for microgrid and energy storage technologies that improve installation energy system reliability and resilience and reduce the time and cost of microgrid design and development. High efficiency building heating, ventilation, and air conditioning (HVAC) technologies demonstrations will continue to establish utility cost and air quality</p>		35.572	40.770	55.733

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>improvement performance data. Planned multi-year demonstrations will continue for water efficiency and resilience technologies and analysis. Technology transition efforts through targeted partnerships with energy services companies (ESCOs) and utilities will continue. These demonstrations address requirements for installation energy resilience stated in DoD Instruction 4170.11, and energy and water efficiency goals stated in Executive Order 14057.</p> <p><b>FY 2025 Plans:</b> Demonstrations of innovative technologies and technology transition approaches will continue to improve installation energy and water resilience, improve building system efficiency and reduce facilities' utility and operational costs in accordance with DoD Instruction 4170.11 and Executive Order 14057. Studies will be initiated to evaluate microgrid operations and sustainment requirements to ensure microgrids perform as intended throughout the system life-cycle. Demonstrations will be initiated for integrated solutions that combine facility energy demand reduction, advanced district energy systems, energy storage and load flexibility to improve building-level and system-wide efficiency and reliability. Integrated solutions provide benefit through cumulative improvements in facility and equipment efficiency that reduce whole-system life cycle costs. Solutions will vary by regional factors and projects will be selected to validate system design approaches that are tailorable to the Departments installation portfolio. The program will seek to facility teaming with key stakeholders to leverage expertise in system design and analysis, systems integration, project development and utility services.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> The FY 2024 to FY 2025 growth (\$17.3 million) will initiate new demonstrations of integrated system design solutions for whole-building retrofits that result in greater reduction in life cycle costs over current practices. Solutions will integrate building energy efficiency technologies, energy storage, and control systems that enable greater load flexibility and improved energy system reliability and resilience. Demonstrations will be conducted in different regions to evaluate system designs under various regional climate/weather conditions.</p>				
<p><b>Title:</b> Sustainable Technologies Evaluation and Demonstration Program</p> <p><b>Description:</b> The focus of the STED Program is to validate the performance of technologies and products against current mission requirements while creating awareness of their capability to cost effectively support operational readiness, resilience, and security. These technologies are widely implemented and consumed by the Department and Federal agencies. Accomplishments/plans are described for each fiscal year below. Funds are programmed for investments to identify, evaluate, and demonstrate domestic technologies that enhance the Departments mission in operational environment, while cost-effectively sustaining DoD priorities.</p> <p><b>FY 2024 Plans:</b> Continued evaluation, demonstration, and transition of multiple sustainable technologies in DoD operation. Examples include the recently qualified biobased dust suppressants, biobased corrosion inhibitors/rust removers, biobased rifle bore cleaner, biobased cleaner lubricant and preservative (CLP) for small arms. Initial demonstrations show improved operational performance, reduced</p>		2.936	3.000	3.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
<p>maintenance times, reduction in waste, environmental and health impacts. Demonstrate technologies that address high priority issues and validate performance by the warfighter in operational environments.</p> <p><b>FY 2025 Plans:</b> Increase demonstrations of technologies and products, such as biobased products using U.S. domestic agricultural materials that are cost effective, improve readiness, and supply chain security. Demonstrate emerging products and technologies, including biobased, energy efficient, recycled content, and less hazardous materials at DoD installations and Federal agency facilities to increase transition across the Federal Government.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> No change in FY 2025.</p>				
<p><b>Title:</b> Installation Climate Resilience Technology Demonstration/Validation</p> <p><b>Description:</b> Funds are programmed for investments in projects that address priority resilience needs of Department of Defense installations for the construction of resilient infrastructure, sustainment of ecosystem services critical to installations, and regionalize technology transfer to address climate extremes and natural hazard impacts on installation resilience in support of DoD's statutory requirements, including 10 USC 2285, 2391, 2802, 2815, 2864, and 42 USC 8253.</p> <p><b>FY 2024 Plans:</b> Planned multi-year demonstrations will continue for projects that focus on the impact of climate change on DoD infrastructure and DoD water supply, the analysis of the impacts of weather extremes on the DoD installations, and improvements to climate resilience of systems linking DoD installation and surrounding community infrastructure. Initiate focused investment on end-user define tools technologies in regional of high concentrations of DoD installations that are experiencing rapid ecological transformations, sea level rise or climate change.</p> <p><b>FY 2025 Plans:</b> Planned multi-year demonstrations will continue for projects for addressing the permafrost thawing on installations in Alaska, invasive species invasion in Hawaii, and wildfire risk in the arid Southwest. Continue investment of climate change on DoD buildings in coastal zones, climate impacts on the DoD water supply, and analysis of the impacts of weather extremes on the DoD installations. Accelerate technology transfer through the formal network of climate resilience testbeds called "Innovation Landscapes" will be established within key DoD geographies experiencing rapid change from weather extremes, natural hazards, and changing development. Areas with high concentrations of DoD installations including Alaska, Southern California, Sonoran Desert, Pacific Islands, Coastal California, mid-Atlantic, Gulf Coast, and the Southeast US possess unique challenges from compounded natural hazards and weather extremes on mission activities. Projects will build robust, accelerated technology transfer on installations within this network to sustain mission activities and meet environmental compliance in the face of compounded threats (i.e., hurricane and coastal development around installations, or permafrost and wildfire). These testbeds</p>		14.564	36.795	47.299

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	FY 2023	FY 2024	FY 2025
will develop resilience and adaptation metrics to improve climate readiness, and will address complex resilience and adaptation problems, such as linkages between corrosion of weapons systems and platforms with coastal construction and vegetation management. Demonstrate greenhouse gas assessment methodologies for both built infrastructure (military construction materials, construction, and lifecycles) and natural areas net sequestration.			
<b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> The FY 2024 to FY 2025 increase (\$11.8 million) will expand new sites within a national network of climate resilience testbeds called "Innovation Landscapes" within key DoD geographies experiencing rapid change from weather extremes, invasive species, natural hazards, human development, and corrosion of weapons systems and platforms.			
<b>Accomplishments/Planned Programs Subtotals</b>	85.029	112.196	136.513

	FY 2023	FY 2024
<b><i>Congressional Add:</i></b> PFAS remediation and disposal technology	5.000	-
<b><i>FY 2023 Accomplishments:</i></b> Initiated the demonstration and validation of multiple destruction technologies for PFAS in groundwater and soils/solids. In addition, several technologies were initiated that focus on remediation of PFAS in impacted matrices. These technologies will be demonstrated at multiple DoD installations throughout the United States.		
<b><i>Congressional Add:</i></b> AFFF replacement, disposal, and cleanup technology	15.000	-
<b><i>FY 2023 Accomplishments:</i></b> Demonstrated and validated five commercial PFAS-free firefighting formulations in large scale testing that met the revised military specification for land-based fuel fires, but take 1.5-2 times longer to extinguish fires relative to AFFF, and published the final report on this technology demonstration. Published new PFAS-free foam specification, MIL-PRF-32725, to enable qualification and purchase of PFAS-free foams by 1 Oct 2023 requirement. Demonstrated and validated compressed air foams as superior to aspirated foams from typical firefighting equipment. Developed and demonstrated cleaning solutions to more effectively remove AFFF PFAS from aircraft rescue and firefighting (ARFF) trucks.		
<b><i>Congressional Add:</i></b> PFAS on-site remediation technologies	15.000	-
<b><i>FY 2023 Accomplishments:</i></b> Initiated the demonstration and validation of multiple technologies for on-site remediation of PFAS in groundwater and soils/solids. These technologies will be tested at Schriever Space Force Base, Colorado and other DoD installations.		
<b><i>Congressional Add:</i></b> On-base Microgrid Resiliency	-	5.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Office of the Secretary Of Defense	<b>Date:</b> March 2024
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<b>Appropriation/Budget Activity</b> 0400 / 4	<b>R-1 Program Element (Number/Name)</b> PE 0603851D8Z / <i>Environmental Security Technology Certification Program (ESTCP)</i>	<b>Project (Number/Name)</b> 514 / <i>Environmental Security Technology Certification Program</i>
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	FY 2023	FY 2024
<b>FY 2024 Plans:</b> Expand on past projects to demonstrate and analyze the costs and benefits of long duration energy storage integrated with microgrids to meet energy system reliability requirements per DoD policy DODI 4170.11.		
<b>Congressional Adds Subtotals</b>	35.000	5.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

The ESTCP solicits proposals from all of the DoD organizations, other Federal Agencies, and the commercial sector. Projects are selected based on an annual competitive process through reviews by multi-agency panels.

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**Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Office of the Secretary Of Defense** **Date:** March 2024

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<b>Support (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Support Contract	C/IDDQ	Noblis : Reston, VA	31.551	4.000	Sep 2022	4.000		4.000		-		4.000	-	-	32.000
<b>Subtotal</b>			31.551	4.000		4.000		4.000		-		4.000	-	-	N/A

<b>Test and Evaluation (\$ in Millions)</b>				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Installation Energy and Water	C/Various	Various : Various	280.133	33.686		43.530		51.671		-		51.671	-	-	-
Environmental Restoration	C/Various	Various : Various	157.432	41.681		9.052		11.848		-		11.848	-	-	-
Munitions Response	C/Various	Various : Various	72.014	4.454		4.865		5.889		-		5.889	-	-	-
Resource Conservation and Resilience	C/Various	Various : Various	61.810	6.267		7.468		6.761		-		6.761	-	-	-
Weapons Systems and Platforms	C/Various	Various : Various	107.575	13.085		8.486		7.868		-		7.868	-	-	-
Installation Climate Resilience	C/Various	Various : Various	0.000	13.920		36.795		45.476		-		45.476	-	-	-
Sustainable Technologies Evaluation and Demonstration Program	C/Various	Various : Various	8.000	2.936		3.000		3.000		-		3.000	-	-	-
<b>Subtotal</b>			686.964	116.029		113.196		132.513		-		132.513	-	-	N/A

	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
<b>Project Cost Totals</b>	718.515	120.029	117.196	136.513	-	136.513	-	-	N/A

**Remarks**

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

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ID	Task Name	Start	Finish	2023				2024				2025	
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
1	FY 2022 In-Progress Reviews	9/1/2023	11/30/2023										
2	Develop FY 2023 Program	1/1/2023	9/30/2023										
3	FY 2023 In-Progress Reviews	2/1/2024	11/30/2024										
4	Develop FY 2024 Program	1/1/2024	9/30/2024										

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**Exhibit R-4, RDT&E Schedule Profile:** PB 2025 Office of the Secretary Of Defense **Date:** March 2024

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ID	Task Name	Start	Finish	2024				2025				2026	
				Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
1	FY 2023 In-Progress Reviews	9/1/2024	11/30/2024										
2	Develop FY 2024 Program	1/1/2024	9/30/2024										
3	FY 2024 In-Progress Reviews	2/1/2025	11/30/2025										
4	Develop FY 2025 Program	1/1/2025	9/30/2025										

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Office of the Secretary Of Defense		<b>Date:</b> March 2024
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>In Progress Reviews</i></b>				
FY 2023 In Progress Reviews	2	2024	1	2025
FY 2024 In Progress Reviews	2	2025	1	2026
<b><i>Develop Program</i></b>				
Develop FY 2024 Program	2	2024	4	2025
Develop FY 2025 Program	2	2025	4	2026