Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy	Date: March 2023
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 3: *Advanced Technology Development (ATD)*	**R-1 Program Element (Number/Name)** PE 0603758N *I Navy Warfighting Exp & Demo*

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	0.000	60.878	99.020	75.898	-	75.898	78.446	84.460	84.084	85.916	Continuing	Continuing
2918: *Navy Warfighting Experiments and Demo*	0.000	48.328	76.020	75.898	-	75.898	78.446	84.460	84.084	85.916	Continuing	Continuing
9999: *Congressional Adds*	0.000	12.550	23.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	35.550

A. Mission Description and Budget Item Justification

The Office of Naval Research (ONR) and NavalX guides ongoing research and innovation operations in the pursuit of novel and decisive capabilities for our Sailors and Marines. ONR manages a broad, but priority-driven investment portfolio of near to long-term basic and applied research. This Program Element (PE) develops Science and Technology (S&T) breakthroughs to meet current operational needs, from prototyping solutions for warfighters, to Fleet experimentation and operational demonstrations including Fleet Battle Problems
(FBP), Limited Objective Experiments
(LOEs) and Fleet/Force exercises. The key aspects of this PE are divided into five areas supporting the continuum of S&T and innovation operations from discovery to delivery: (1) Naval Warfare Experimentation develops rapid prototypes and through innovation operations, provides them to the warfighter for experimentation during operational demonstrations and exercises; (2) Operations Analysis provides the Navy and Marine Corps the means to identify capability needs that can be addressed with science and technology solutions and inform future investment; (3) NavalX Swamp Works applies innovation operations to develop, demonstrate, and transition newly invented or recently discovered technologies that address emergent and enduring operational problems in an accelerated timeframe; (4) TechSolutions to include Tech Bridge industry scanning allows the ability to rapidly prototype science and technology solutions that address Fleet/Force needs submitted by Sailors and Marines within the development environment and at the deck plate level: and (5) support for the Naval Precision Strike Operations, providing the Navy capability to quickly locate, target, and strike critical targets.

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).

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

B. Program Change Summary ($ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	60.167	83.137	83.398	-	83.398
Current President's Budget	60.878	99.020	75.898	-	75.898
Total Adjustments	0.711	15.883	-7.500	-	-7.500
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-7.117			
• Congressional Rescissions	-	-			
• Congressional Adds	-	23.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.289	0.000			
• Program Adjustments	2.000	0.000	-7.500	-	-7.500
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2022	FY 2023
Project: 9999: *Congressional Adds*		
Congressional Add: *Naval tech bridges*	4.827	5.000
Congressional Add: *ONR Scout*	7.723	0.000
Congressional Add: *Small unmanned surface vessels for expeditionary forces*	0.000	5.000
Congressional Add: *Swampworks*	0.000	5.000
Congressional Add: *SCOUT experimentation campaign*	0.000	8.000
Congressional Add Subtotals for Project: 9999	12.550	23.000
Congressional Add Totals for all Projects	12.550	23.000

Change Summary Explanation

Funding: 7.500M decrease in planned program growth in favor of other priority research objectives.

Technical: No significant change.

Schedule: No significant change.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 3	R-1 Program Element (Number/Name) PE 0603758N / *Navy Warfighting Exp & D emo*	Project (Number/Name) 2918 / *Navy Warfighting Experiments and Demo*	

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
2918: *Navy Warfighting Experiments and Demo*	0.000	48.328	76.020	75.898	-	75.898	78.446	84.460	84.084	85.916	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project focuses on the application of recent technology breakthroughs to meet current operational needs from a subscale proof-of-principle into a full-scale prototypes for warfighter experimentation during laboratory and operational demonstrations, Fleet Battle Problems (FBPs), Limited Objective Experiments (LOEs) and Fleet/Force exercises.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Naval Warfare Experimentation	9.665	31.711	32.681	0.000	32.681
Articles:	-	-	-	-	-
Description: The objective of this activity is to capitalize technology breakthroughs of Government and Industry to develop and integrate components including subsystems into prototypes quickly, mature into products, and provide to the warfighter for experimentation, field experiments and/or tests in simulated or actual environments. NavalX, through the use of Navy Warfare Development Command (NWDC) Fleet Experimentation (FLEX) events, iterates throughout the innovation process to achieve optimal warfighter results. The net results are early warfighter feedback to refine and transition innovative capabilities. An example of Naval Warfare Experimentation that NavalX will execute is the Integrated Battle Problem 24 operational experiment in which ONR/NavalX partnered with Pacific Fleet to insert approximately 29 unmanned systems into a large scale fleet environment and determine their ability to address key operational problems.					
FY 2023 Plans: Conduct international experimentation in support of COMPACFLT PACIFIC DRAGON and COMSIXTHFLT, FORMIDABLE SHIELD exercises. Continue to maintain and leverage a Naval Research Enterprise (NRE) experimentation opportunities to guide prioritized concept investigations in support of fleet/force needs and strategic S&T initiatives. Investing in operational experimentation such as tests, demonstrations, and large and small scale experimentation that will address emerging operational needs. Managing a NRE experimentation plan which will guide multi-year S&T experimentation efforts in response to emerging concepts and doctrine. Conduct early Technology Readiness Level concept investigations with Fleet and Force input to establish					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 3	**R-1 Program Element (Number/Name)** PE 0603758N / *Navy Warfighting Exp & D emo*	**Project (Number/Name)** 2918 / *Navy Warfighting Experiments and Demo*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
concept potential, and inform NRE investment decisions. Leverage experimentation as an excursion to traditional programs to address additional warfighter needs and/or mitigate capability delivery risk. ***FY 2024 Base Plans:*** Manage an NRE experimentation plan which will guide multi-year S&T experimentation efforts in response to emerging concepts and doctrine. Leverage experimentation as an excursion to traditional programs to address additional warfighter needs and/or mitigate capability delivery risk. Continue to maintain and leverage Naval Research Enterprise (NRE) experimentation opportunities to guide prioritized concept investigations in support of fleet/force needs and strategic S&T initiatives. Conduct an unmanned campaign experimentation plan in support of the Unmanned Task Force. Conduct international experimentation in support of COMPACFLT PACIFIC DRAGON and COMSIXTHFLT FORMIDABLE SHIELD exercises. Invest in operational experimentation such as technology operational experimentation events that will address operational problems identified by fleet/force inputs. Conduct experimentation events such as limited technology assessments, limited objective experiments, and advance capability experiments to inform S&T investments. Conduct large scale service-level experimentation and international experimentation to assess early Technology Readiness Level concept investigations with Fleet and Force input to establish concept potential and to inform NRE investment decisions. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** There is no significant funding changes from FY 2023 to FY 2024.					
Title: Operations Analysis	3.595	4.114	3.884	0.000	3.884
Articles:	-	-	-	-	-
Description: The objective of this project is for NavalX to provide operational analysis through studies, analyses, gaming, modeling and simulation (M&S), and experimentation to identify Navy and Marine Corps capability needs that can be addressed with S&T solutions. The effort includes core analysis of Science and					

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Technology (S&T) programs, military utility/capability gaps analyses, war gaming, structured experimentation events, the articulation of the results of that analysis and war gaming, and the development of innovation strategies and messages resulting from these analyses. An example of an Operations Analysis effort would be conducting the Fast Agile Naval Technology Munitions (FANTOM) Technology Innovation Game (TIG) with the Naval Warfare Development Command and representatives from the fleet, force, and NRE to determine where application of super-cavitating torpedo technology can have the most significant, near term impact on warfighting capability which allows the NRE to more accurately focus its S&T investments. Tactical Advancement for Next Generation (TANG) solves mission focused, human-centered challenges using innovation and design thinking methods. TANG initiatives tailor the research and solution generation methods to the respective topic and scope. ***FY 2023 Plans:*** Continue to conduct new workshops, commission studies, and conduct Concept of Employment and Concept of Operations investigations. Continue TANG projects that solve mission focused, human-centered challenges using innovation and systems engineering methods for the Navy and United States Marine Corps (USMC). TANG will support discovery of trends, sharing lessons learned, and empowering the workforce to solve problems and build their agility skills by providing high-quality, low-friction training and support to equip commands with warfighter-centered fundamentals. ***FY 2024 Base Plans:*** Continue to conduct warfighter workshops to include Technology Innovation Games (TIGs), commission operations research studies, and conduct operational analysis and modeling and simulation studies related to military utility of emerging technologies. Continue TANG projects that solve mission focused, human-centered challenges using innovation and systems engineering methods for the Navy and United States Marine Corps (USMC). TANG will support discovery of trends, sharing lessons learned, and empowering the workforce to solve problems and build their agility					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
skills by providing high-quality, low-friction training and support to equip commands with warfighter centered fundamentals. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** There is no significant funding change from FY 2023 to FY 2024.					
Title: Swampworks	17.698	22.182	22.555	0.000	22.555
Articles:	-	-	-	-	-
Description: Description: The SwampWorks portfolio responds to opportunities for rapid and disruptive technologies to meet urgent warfighter needs, and addresses technology and sailor performance issues identified during experiments, exercises, and demonstrations. SwampWorks explores high-risk, disruptive, and innovative technologies and concepts that advance naval warfighter's capabilities. The program has substantial programmatic flexibility and is not limited to any set of technology areas. Ultimately, the goal is to provide a dramatic improvement for the warfighter at a rapid pace. Some of these technologies may become part of a follow-on technology development, may end up in the hands of the warfighter for Fleet/ Force experimentation, or may culminate in a significant Fleet/Force exercise that demonstrates capability that transitions into the Acquisition Program of Record (POR). The Naval Agility Cell (NavalX) group assist in TECHDEV selection within Swampworks. NavalX builds an agile, collaborative, and connected Naval network via regional Technology Bridges (Tech Bridges) to pursue high-risk, disruptive, and innovative technologies and concepts that advance naval warfighter's capabilities. Also funded in this activity is the Next System Technology Evaluation Program (NextSTEP), which promotes innovation and entrepreneurial opportunities for naval personnel and student veterans through advanced technology development and demonstration projects at naval facilities and laboratories. ***FY 2023 Plans:*** Complete development of the Quantum Gravimeter Navigation System. The remaining Science and Technology (S&T) projects that start in FY22 will be identified during FY22 as emerging warfighters needs are realized. SwampWorks projects will continue to be aligned with National Defense Strategy, OSD Modernization Priorities					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
and CNO / CMC Guidance. Apply the NavalX Innovation pipeline concept to source, curate, scan, incubate, prototype, validate, field and sustain new technologies to accelerate the discovery, development of new technologies and capabilities for naval warfighters. NavalX will continue to support discovery of trends, sharing lessons learned, and empowering the workforce to solve problems and build their agility skills by providing high-quality, low-friction training and support to equip commands with warfighter-centered fundamentals. Tech Bridge will support regional technology innovation challenges addressing critical Naval mission problems; increase participation of small- and medium-sized business in the defense industrial base; produce and deliver dual-use prototypes in partnership with the local/regional commercial sector, and support regional operational experimentation events. Tech Bridges are an ASN(RDA) initiative under NavalX and sponsored by ONR. Currently, fourteen Tech Bridges have been established across the U.S. plus one in London with the mission to promote regional/local collaborations in support of DON and national security missions. While each Tech Bridge may focus on their specific local/regional challenges and opportunities, they all work together as a Tech Bridge network to share best practices and support each other's mission. Next Strategic Technology Evaluation Program (NextSTEP) projects will focus on assessing advanced energy technologies, developing cyber-physical security for energy networks, and utilizing autonomous systems, artificial intelligence and advanced manufacturing to address operational and installation challenges in logistics, readiness, and resilience. NextSTEP (previously Energy Systems Technology Evaluation Program (ESTEP)) is a prototype viability assessment program at naval facilities that promotes adoption, scaling and deployment to the warfighter of defense and dual-use technologies with the following goals: conduct advanced technology demonstrations to evaluate emerging technologies using Navy and Marine Corps operations as test beds; evaluate and de-risk new prototype technologies to help enable their acquisition and adoption; and provide opportunities for professional development for DON personnel and student veteran interns through project participation. ***FY 2024 Base Plans:*** SwampWorks projects will continue to be aligned with National Defense Strategy, OSD Modernization Priorities and CNO / CMC Guidance. Apply the NavalX Innovation pipeline concept to source, curate, scan, incubate, prototype, validate, field and sustain new technologies to accelerate the discovery, development of new technologies and capabilities for naval warfighters.					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
NavalX will continue to support discovery of trends, sharing lessons learned, and empowering the workforce to solve problems and build their agility skills by providing high-quality, low-friction training and support to equip commands with warfighter-centered fundamentals. Tech Bridge will support regional technology innovation challenges addressing critical Naval mission problems; increase participation of small- and medium-sized business in the defense industrial base; produce and deliver dual-use prototypes in partnership with the local/regional commercial sector, and support regional operational experimentation events. Tech Bridges are an ASN(RDA) initiative under NavalX and sponsored by ONR. Currently, fourteen Tech Bridges have been established across the U.S. plus one in London with the mission to promote regional/local collaborations in support of DON and national security missions. While each Tech Bridge may focus on their specific local/regional challenges and opportunities, they all work together as a Tech Bridge network to share best practices and support each other's mission. Next Strategic Technology Evaluation Program (NextSTEP) projects will focus on assessing advanced energy technologies, developing cyber-physical security for energy networks, and utilizing autonomous systems, artificial intelligence and advanced manufacturing to address operational and installation challenges in logistics, readiness, and resilience. NextSTEP (previously Energy Systems Technology Evaluation Program (ESTEP)) is a prototype viability assessment program at naval facilities that promotes adoption, scaling and deployment to the warfighter of defense and dual-use technologies with the following goals: conduct advanced technology demonstrations to evaluate emerging technologies using Navy and Marine Corps operations as test beds; evaluate and de-risk new prototype technologies to help enable their acquisition and adoption; and provide opportunities for professional development for DON personnel and student veteran interns through project participation. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** There is no significant funding change from FY 2023 to FY 2024.					
Title: Tech Solutions	4.783	5.263	4.941	0.000	4.941
Articles:	-	-	-	-	-

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Description: TechSolutions rapidly prototypes science and technology solutions that address Fleet/Force needs submitted directly by individual Sailors at the deckplate level and individual Marines at the operational level. TechSolutions engages warfighters online and in person to learn of their technology needs then links them with science and technology experts to develop prototype solutions as quickly as possible. Sailors and Marines submit their ideas anytime/anywhere via the TechSolutions web portal. New projects are initiated annually directly from such requests and prototype technology is developed collaboratively with the warfighter for delivery to them within 12 months. Examples of technology solutions delivered this year include a novel individual light therapy device, designed by spectral engineering of LED's, to increase alertness without causing sleep or circadian disruption. The light boxes help Sailors and Marines optimize their sleep schedules in the absence of natural light, adjust to work-related sleep changes, and increase their alertness after wake-up. TechSolutions delivered to MCAS Cherry Point a government-owned game-engine-based virtual environment training solution that realistically replicates the operations, duties, and tasks of Air Traffic Control Radar Operators, alleviating on-the-job-training bottlenecks in the tower. Additionally, TechSolutions delivered multispectral concealment solutions requested by warfighters. ***FY 2023 Plans:*** TechSolutions will continue to conduct new Science and Technology (S&T) developments based on Fleet/ Force interactions and expressed warfighter needs. Developments will be undertaken to deliver rapid response solutions so warfighters can achieve mission success and perform their duties more effectively and more efficiently by leveraging new or emergent technology. ***FY 2024 Base Plans:*** TechSolutions will deliver new Science and Technology (S&T) solutions based on expressed warfighter needs received during Fleet/Force interactions. Developments will be initiated to deliver rapid response solutions so Warfighters can achieve mission success and perform their duties more effectively and more efficiently by leveraging new or emergent technology. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:***					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
There is no significant funding changes from FY 2023 to FY 2024.					
Title: Precision Strike Technology	12.587	12.750	11.837	0.000	11.837
Articles:	-	-	-	-	-
Description: Efforts in this area support Naval Precision Strike Operations, providing the Navy capability to quickly locate, target, and strike critical targets. Ongoing efforts include conducting kill-chain studies to identify and recommend engineering trades to enable weapon system interoperability and data fusion alternatives. These studies assess engineering feasibility of various kill-chain options and assess the capability provided. Classified addendum includes further program details. ***FY 2023 Plans:*** - Continue efforts in the area supporting Naval Precision Strike Operations, providing the Navy capability to quickly locate, target, and strike critical targets. Ongoing efforts include conducting kill-chain studies to identify and recommend engineering trades to enable weapon system interoperability and data fusion alternatives. These studies assess engineering feasibility of various kill-chain options and assess advanced weapon system capabilities. ***FY 2024 Base Plans:*** - Continue efforts in the area supporting Naval Precision Strike Operations, providing the Navy capability to quickly locate, target, and strike critical targets. Ongoing efforts include conducting kill-chain studies to identify and recommend engineering trades to enable weapon system interoperability and data fusion alternatives. These studies assess engineering feasibility of various kill-chain options and test and assess advanced weapon system capabilities. ***FY 2024 OCO Plans:*** N/A ***FY 2023 to FY 2024 Increase/Decrease Statement:*** No significant changes from FY 2023 to FY 2024.					
Accomplishments/Planned Programs Subtotals	48.328	76.020	75.898	0.000	75.898

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

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D. Acquisition Strategy

Not applicable.

Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy			Date: March 2023
Appropriation/Budget Activity 1319 / 3	R-1 Program Element (Number/Name) PE 0603758N / *Navy Warfighting Exp & D emo*	Project (Number/Name) 9999 / *Congressional Adds*	

COST ($ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
9999: *Congressional Adds*	0.000	12.550	23.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	35.550
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 2022	FY 2023
Congressional Add: Naval tech bridges ***FY 2022 Accomplishments:*** Conduct experiments and demonstrations supporting Naval technology bridges efforts ***FY 2023 Plans:*** Conduct experiments and demonstrations supporting Naval technology bridges efforts	4.827	5.000
Congressional Add: ONR Scout ***FY 2022 Accomplishments:*** Conduct ONR Scout experiments and demonstrations ***FY 2023 Plans:*** N/A	7.723	0.000
Congressional Add: Small unmanned surface vessels for expeditionary forces ***FY 2022 Accomplishments:*** N/A ***FY 2023 Plans:*** Conduct research supporting small unmanned surface vessels for expeditionary forces	0.000	5.000
Congressional Add: Swampworks ***FY 2022 Accomplishments:*** N/A ***FY 2023 Plans:*** Conduct Swampworks related research	0.000	5.000
Congressional Add: SCOUT experimentation campaign ***FY 2022 Accomplishments:*** N/A ***FY 2023 Plans:*** Conduct research supporting SCOUT experimentation campaign	0.000	8.000
Congressional Adds Subtotals	12.550	23.000

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C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A