Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Navy	Date: May 2021
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 6: *RDT&E Management Support*	**R-1 Program Element (Number/Name)** PE 0604759N *I Major T&E Investment*

COST ($ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	0.000	108.129	105.195	84.617	-	84.617	-	-	-	-	-	-
2195: *T & E Investment*	0.000	86.891	85.195	84.617	-	84.617	-	-	-	-	-	-
9999: *Congressional Adds*	0.000	21.238	20.000	0.000	-	0.000	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This project corrects major deficiencies, improves Test & Evaluation (T&E) capabilities, and increases T&E support effectiveness at Navy Major Range and Test Facility Base ranges and facilities. The T&E Investment project improves, modernizes and adds new test capabilities at the following test facilities: the Naval Undersea Warfare Center Division Newport Atlantic Undersea Test and Evaluation Center, Andros Island, Bahamas; the Nanoose and Dabob ranges of the Naval Undersea Warfare Center Division Keyport, Keyport, WA; the Sea Range, Land Ranges, Target Operations, Ordnance T&E Facility, Test Wing Pacific located at the Naval Air Warfare Center Weapons Division, Point Mugu, CA and China Lake, CA; and the Atlantic Test Range, Air Combat Environment T&E Facility, Electromagnetic Environmental Effects, Air Vehicle Modification and Instrumentation facility, Test Wing Atlantic, Target Operations, and the Propulsion Systems Evaluation Facility located at the Naval Air Warfare Center Aircraft Division, Patuxent River, MD and the test and evaluation capabilities located at the Pacific Missile Range Facility, Kauai, HI.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under RESEARCH, DEVELOPMENT, TEST and EVALUATION MANAGEMENT SUPPORT because it supports efforts directed toward sustaining or modernizing installations or operations required for general research, development, test and evaluation.

B. Program Change Summary ($ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	107.348	85.195	73.510	-	73.510
Current President's Budget	108.129	105.195	84.617	-	84.617
Total Adjustments	0.781	20.000	11.107	-	11.107
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	20.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	2.000	0.000			
• SBIR/STTR Transfer	-1.219	0.000			
• Program Adjustments	0.000	0.000	11.900	-	11.900
• Rate/Misc Adjustments	0.000	0.000	-0.793	-	-0.793

Congressional Add Details ($ in Millions, and Includes General Reductions)

	FY 2020	FY 2021
Project: 9999: *Congressional Adds*		

Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Navy	Date: May 2021
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Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2020	FY 2021
Congressional Add: *Fifth Generation Radar Ground Test Upgrades*	7.723	0.000
Congressional Add: *Complex Electronic Warfare Test Equipment*	4.827	0.000
Congressional Add: *Undersea range modernization*	3.861	10.000
Congressional Add: *Naval research labratory facilities*	4.827	0.000
Congressional Add: *Integrated Sensor Effectiveness Test*	0.000	10.000
Congressional Add Subtotals for Project: 9999	21.238	20.000
Congressional Add Totals for all Projects	21.238	20.000

Change Summary Explanation

The FY2022 funding request was reduced by $1.471 million to account for the availability of prior year execution balances.

The funding increase in FY 2022 is due to the replacement of the AUTEC hydrophone tracking system, AUTEC tracking displays, development of an acoustic beamforming capability and procurement of range radio communication equipment. Increases are also due to the initiation of the fiber replacement project at NAWCWD China Lake and the initiation of telemetry collection and processing capabilities at NAWCWD and PMRF.

Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy											Date: May 2021	
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0604759N / *Major T&E Investment*				Project (Number/Name) 2195 / *T & E Investment*			
COST ($ in Millions)	**Prior Years**	**FY 2020**	**FY 2021**	**FY 2022 Base**	**FY 2022 OCO**	**FY 2022 Total**	**FY 2023**	**FY 2024**	**FY 2025**	**FY 2026**	**Cost To Complete**	**Total Cost**
2195: *T & E Investment*	0.000	86.891	85.195	84.617	-	84.617	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project corrects major deficiencies, improves Test & Evaluation (T&E) capabilities, and increases T&E support effectiveness at Navy Major Range and Test Facility Base ranges and facilities. The T&E Investment project improves, modernizes and adds new test capabilities at the following test facilities: the Naval Undersea Warfare Center Division Newport Atlantic Undersea Test and Evaluation Center (AUTEC), Andros Island, Bahamas; the Nanoose and Dabob ranges of the Naval Undersea Warfare Center Division Keyport, Keyport, WA; the Sea Range, Land Ranges, Target Operations, Ordnance T&E Facility, Test Wing Pacific located at the Naval Air Warfare Center Weapons Division, Point Mugu, CA and China Lake, CA; and the Atlantic Test Range, Air Combat Environment T&E Facility, Electromagnetic Environmental Effects, Air Vehicle Modification and Instrumentation facility, Test Wing Atlantic, Target Operations, and the Propulsion Systems Evaluation Facility located at the Naval Air Warfare Center Aircraft Division, Patuxent River, MD and the test and evaluation capabilities located at the Pacific Missile Range Facility, Kauai, HI.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: UNDERSEA RANGE INVESTMENTS	6.281	11.736	21.599	0.000	21.599
Articles:	-	-	-	-	-
Description: This effort funds the modernization, upgrades, and new test and evaluation capabilities required at the Navy's Major Range Test Facility Base undersea ranges, to include AUTEC, Andros Island, Bahamas and the Nanoose and Dabob ranges of the Naval Undersea Warfare Center Division Keyport, Keyport, WA.					
FY 2021 Plans: - Continue the minor upgrade and modernization of test capabilities at AUTEC, Nanoose and Dabob. - Continue modernization of range data management system at Nanoose and Dabob. - Complete tracking system modernization at Nanoose and Dabob. - Complete torpedo control panel modernization at Nanoose and Dabob. - Complete range telemetry and communications upgrade at Nanoose and Dabob. - Complete procurement of small range craft for unmanned underwater vehicle (UUV) work at Nanoose and Dabob. - Complete cyber security upgrades to critical range instrumentation and networks at Nanoose and Dabob. - Initiate replacement of underwater cables to hydrophone arrays at Nanoose and Dabob. - Initiate upgrade to acoustic acquisition systems and replace the acoustic signal processing systems at Nanoose and Dabob.					

Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy		Date: May 2021
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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
- Initiate replacement of the acoustic signal processing system at AUTEC. - Initiate replacement of the shore electronics interface to the hydrophone system at AUTEC. - Initiate replacement of the array structures at Nanoose and Dabob. ***FY 2022 Base Plans:*** - Continue the minor upgrade and modernization of test capabilities at AUTEC, Nanoose and Dabob. - Continue replacement of underwater cables to hydrophone arrays at Nanoose and Dabob. - Continue upgrade to acoustic acquisition systems and replace the acoustic signal processing systems at Nanoose and Dabob. - Continue replacement of the acoustic signal processing system at AUTEC. - Continue replacement of the array structures at Nanoose and Dabob. - Complete modernization of range data management system at Nanoose and Dabob. - Complete replacement of the shore electronics interface to the hydrophone system at AUTEC. - Initiate replacement of the hydrophone tracking system at AUTEC. - Initiate replacement of the tracking display system at AUTEC. - Initiate modernization of acoustic tracking and beamforming capability at Nanoose and Dabob. - Initiate replacement of radio communication system at Nanoose and Dabob. - Initiate replacement of universal winch fiber optic at Nanoose and Dabob. - Initiate real time tracking software upgrade at Nanoose and Dabob. ***FY 2022 OCO Plans:*** N/A ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The funding increase from FY 2021 to FY 2022 is due to the initiation of multiple projects including the replacement of the AUTEC hydrophone tracking system, AUTEC tracking displays, development of an acoustic beamforming capability and procurement of range radio communication equipment.					
Title: OPEN AIR RANGE INVESTMENTS	36.444	37.695	38.902	0.000	38.902
Articles:	-	-	-	-	-
Description: This effort funds the modernization and upgrades of existing capabilities and the development of new T&E capabilities required at the Navy's Major Range Test Facility Base open air ranges at the Naval Air Warfare Center Aircraft Division (NAWCAD), Patuxent River, MD, Naval Air Warfare Center Weapons Division (NAWCWD), Point Mugu, CA and China Lake, CA and Pacific Missile Range Facility (PMRF), Kauai, HI. ***FY 2021 Plans:***					

Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy		Date: May 2021
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604759N / *Major T&E Investment*	**Project (Number/Name)** 2195 / *T & E Investment*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
- Continue the minor upgrade and modernization of test capabilities at NAWCAD, NAWCWD and PMRF. - Continue procurement of Range Support Aircraft. - Continue the development of Environmental Impact Statements at NAWCAD. - Continue the development and integration of Telemetry and optics equipment on the Range Support Aircraft. - Continue the imaging radar transmitter modernization at PMRF. - Continue cyber security upgrades to critical range instrumentation and networks at NAWCWD. - Complete the development of Environmental Impact Statements at NAWCWD. - Initiate remotely operated tracking radar modernization at NAWCWD. - Initiate telemetry recorder replacement at PMRF. - Initiate telemetry processor modernization at NAWCAD. - Initiate optical tracking mount replacement at PMRF. - Initiate optical sensor modernization at PMRF. - Initiate tracking pedestal modernization at NAWCAD. - Initiate mobile radio replacement at NAWCWD. - Initiate imaging radar modernization at NAWCAD. - Initiate software modifications to increase Joint Electronic Warfare Threats (JETS) air warfare battleshaping capabilities at NAWC WD.					
FY 2022 Base Plans: - Continue the minor upgrade and modernization of test capabilities at NAWCAD, NAWCWD and PMRF. - Continue procurement of Range Support Aircraft. - Continue the development and integration of Telemetry equipment on the Range Support Aircraft. - Continue the imaging radar transmitter modernization at PMRF. - Continue optical tracking mount replacement at PMRF. - Continue tracking pedestal modernization at NAWCAD. - Continue imaging radar modernization at NAWCAD. - Continue software modifications to increase air warfare battleshaping capabilities at NAWCWD. - Continue mobile radio replacement at NAWCWD. - Complete the development of Environmental Impact Statements at NAWCAD. - Complete the integration of optics equipment on the Range Support Aircraft. - Complete cyber security upgrades to critical range instrumentation and networks at NAWCWD. - Complete remotely operated tracking radar modernization at NAWCWD. - Complete telemetry recorder replacement at PMRF. - Complete telemetry processor modernization at NAWCAD.					

Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy		Date: May 2021
Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604759N / *Major T&E Investment*	**Project (Number/Name)** 2195 / *T & E Investment*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
- Complete optical sensor modernization at PMRF. - Initiate and complete phase 1 fiber replacement at NAWCWD South Range. - Initiate upgrades to telemetry collection and processing capabilities at NAWCWD. - Initiate upgrades to telemetry collection and processing capabilities at PMRF. ***FY 2022 OCO Plans:*** N/A ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The funding increase from FY 2021 to FY 2022 is due to the initiation of the fiber replacement project at NAWCWD China Lake and the initiation of telemetry collection and processing capabilities at NAWCWD and PMRF.					
Title: TEST FACILITIES INVESTMENTS	44.166	35.764	24.116	0.000	24.116
Articles:	-	-	-	-	-
Description: This effort funds the modernization and upgrades of existing capabilities and the development of new Test & Evaluation capabilities required at the Navy's Major Range Test Facility Base ground test facilities at NAWCAD, Patuxent River, MD, and NAWCWD, Point Mugu, CA and China Lake, CA. ***FY 2021 Plans:*** - Continue the minor upgrade and modernization of test capabilities at NAWCAD and NAWCWD and the upgrade to general instrumentation and equipment. - Complete the test cell performance improvement at NAWCAD. This effort will upgrade Propulsion Systems Evaluation Facility turbine engine test cell to provide uniform temperature and pressure intake airflow and improve dynamometer performance. - Continue the modernization of the insensitive munitions test arena at NAWCWD. Tasks include renovating and modernizing the control room, refurbishing the test pads and cable paths to the test arena and replacing associated cabling between the test pad and control room at the Ordnance test facility. - Complete the implementation of a free standing chamber NAWCAD. This will allow an increased through put of testing by allowing limited anechoic testing in spaces that were not designed to be anechoic. - Initiate ordnance test arena at NAWC WD by replacing conduits, cabling, firing control system and data collection system. - Initiate helicopter drive system upgrade by aligning test stand and replacing loading and instrumentation at NAWCAD.					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Modeling and Simulation: - Continue multi-site and multi-domain modeling and simulation test bed design. Integrate virtualized representations of high-priority Navy systems including Littoral Combat Ship, P-8A and MQ-4C Triton into complex digital battle space and National Cyber Range. Implement virtualization and integration methodology for use in DON Modeling & Simulation/Live Virtual Constructive (LVC) Environment. Implement enterprise toolbox to integrate diverse models into prototype laboratory environment. - Continue common modeling and simulation tool design effort. Implement and test architecture interface to integrate emerging Threat Intelligence products with hardware representations. Threat Intelligence models will include the Integrated Threat Analysis Simulation Environment. - Continue advanced immersive visualization of battlespace and red/blue interactions. Demonstrate immersive visualization model suite, which added complex Electronic Warfare (EW) effects, to evaluate the level of improvement over the traditional tools. Analyze visualization areas still requiring refinement and develop implementation plan. - Continue update of Naval model and simulation environment to implement improved electronic warfare modeling effect and interactions. Test and analyze the fidelity and accuracy of the Electronic Warfare (EW) interactions that are available because of the improvements to the modeling environment. Testing will include virtual and hardware-in-the-loop labs and ranges to create a coherent Live Virtual Constructive (LVC) EW evaluation environment. - Continue update to Family Of Simulation models to account for offensive and defensive cyber effects in the battlespace. Integrate Automated Intelligence and Machine Learning models with the Next Generation Threat System environment then assess the improvements available to both test and training.					
FY 2022 Base Plans: - Continue the minor upgrade and modernization of test capabilities at NAWCAD and NAWCWD and the upgrade to general instrumentation and equipment. - Continue the modernization of the insensitive munitions test arena at NAWCWD. Tasks include renovating and modernizing the control room, refurbishing the test pads and cable paths to the test arena and replacing associated cabling between the test pad and control room at the Ordnance test facility. - Continue ordnance test arena at NAWCWD by replacing conduits, cabling, firing control system and data collection system. - Complete helicopter drive system upgrade by aligning test stand and replacing loading and instrumentation at NAWCAD. - Initiate modernization of environmental test chambers at NAWCWD. - Initiate modernization of the electromagnetic radiation test area at NAWCAD.					

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Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604759N / *Major T&E Investment*	**Project (Number/Name)** 2195 / *T & E Investment*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
- Initiate development of direct drive electromagnetic pulse test capability at NAWCAD. - Initiate development of an integrated fire control test environment at NAWCAD. Modeling and Simulation: - Continue multi-domain testbed improvements and integration using best practices, open interfaces and ensure persistent connectivity to enhance integrated Live Virtual Constructive (LVC) capability across Department of the Navy test and evaluation labs, facilities and ranges. - Continue update of Naval modeling and simulation environment to implement improved electronic warfare modeling effects, propagation and interactions. Improve fidelity and accuracy of the Electronic Warfare (EW) interactions and environmental effects (including Radio Frequency, Electro-Optical and Infrared (RF/EO/IR) . Testing will include virtual and hardware-in-the-loop facilities and ranges to create coherent Live, Virtual, and Constructive (LVC) EW evaluation environments. - Continue to develop architecture to integrate emerging threat intelligence products for both classified software, virtual and low-cost hardware representations. Task will improve and integrate Integrated Threat Analysis Simulation Environment (ITASE) to meet Navy requirements. Task will integrate classified mixed hardware / software threat emulations into a real-time LVC environment. Threat will be available through innovative repository/cloud solutions. - Continue updates to Family of Simulation models to account for offensive and defensive cyber effects in the battlespace. Integrate automated intelligence and machine learning models with the Next Generation Threat System (NGTS) environment then assess the improvements available to both test and training. - Complete advanced immersive visualization of battlespace and red/blue interactions. Demonstrate immersive visualization model suite, which added complex Electronic Warfare (EW) effects, to evaluate the level of improvement over the traditional tools. Analyze visualization areas still requiring refinement and develop implementation plan. - Initiate development of high fidelity blue-on-red and red-on-blue jamming technique models and simulations including blue-on-blue EMI that are realistic and observed across all systems. Provide a means to test and train in degraded and denied environments for Communications, Global Positioning System (GPS), Link, and Radar modes.					

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B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
- Initiate integration of multi-domain reference interoperability emulators, low fidelity capability assessment tools and battlespace suites in labs and testbeds designed to allow platforms to assess performance early in system development. - Initiate developing scalable and reusable M&S environments for experimenting and testing with new concepts and warfighting capabilities across Doctrine, Organization, Training, Materiel, Leadership, Personnel and Facilities (DOTMLPF) spectrum. Task includes development of M&S capabilities in order to support T&E requirements associated with subsurface environment capabilities, undersea sensors, data fusion capabilities, and measuring the effectiveness of Counter-Intelligence Surveillance, Reconnaissance and Targeting (C-ISRT), Cyber and Electronic Warfare effects in near real time supporting Electromagnetic Maneuver Warfare (EMW) and Integrated Fires (IF) (e.g., Military Deception/Operational Deception (MILDEC/OPDEC), Computer Network Attack (CNA), Computer Network Exploitation (CNE), and active / passive Electronic Attack (EA). - Initiate development of Next Generation M&S Space capability for users across the Test and Evaluation labs, facilities and ranges including LVC, Analysis, Tactics, Techniques and Procedures (TTP) planning, Testing, Training, and Fleet Design activities. - Initiate enhancement of modeling behaviors (e.g. evasion rules and environment data from blue and red torpedoes) to support assessment of autonomous behaviors in a warfighting environment, improve decision making via mining of simulation / LVC big datasets, uncover hidden patterns, reveal trends, and understand SoS interactions. - Initiate advanced improvements of intelligent models to realistically represent the Battlespace as well as analyze and assess Modeling and Simulation (M&S) environments. Simulate intelligent enemy agent tactics to provide realistic OPFOR for T&E. ***FY 2022 OCO Plans:*** N/A ***FY 2021 to FY 2022 Increase/Decrease Statement:*** The funding decrease from FY 2021 to FY 2022 is due to reduced requirements in the Modeling and Simulation portfolio after several years at a high investment level.					
Accomplishments/Planned Programs Subtotals	86.891	85.195	84.617	0.000	84.617

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Appropriation/Budget Activity 1319 / 6	**R-1 Program Element (Number/Name)** PE 0604759N / *Major T&E Investment*	**Project (Number/Name)** 2195 / *T & E Investment*

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not Applicable.

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Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0604759N / *Major T&E Investment*				Project (Number/Name) 9999 / *Congressional Adds*			
COST ($ in Millions)	**Prior Years**	**FY 2020**	**FY 2021**	**FY 2022 Base**	**FY 2022 OCO**	**FY 2022 Total**	**FY 2023**	**FY 2024**	**FY 2025**	**FY 2026**	**Cost To Complete**	**Total Cost**
9999: *Congressional Adds*	0.000	21.238	20.000	0.000	-	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Congressional Add

B. Accomplishments/Planned Programs ($ in Millions)	FY 2020	FY 2021
Congressional Add: Fifth Generation Radar Ground Test Upgrades ***FY 2020 Accomplishments:*** N/A ***FY 2021 Plans:*** N/A	7.723	0.000
Congressional Add: Complex Electronic Warfare Test Equipment ***FY 2020 Accomplishments:*** N/A ***FY 2021 Plans:*** N/A	4.827	0.000
Congressional Add: Undersea range modernization ***FY 2020 Accomplishments:*** N/A ***FY 2021 Plans:*** Initiate and complete efforts to support Undersea ranges. Modernize the systems and equipment at the Undersea Ranges.	3.861	10.000
Congressional Add: Naval research labratory facilities ***FY 2020 Accomplishments:*** N/A ***FY 2021 Plans:*** N/A	4.827	0.000
Congressional Add: Integrated Sensor Effectiveness Test ***FY 2020 Accomplishments:*** N/A ***FY 2021 Plans:*** Initiate engineering and management efforts for the Integrated Sensor Effectiveness Test requirements. Support Electronic Warfare Integrated Reprogramming Database (EWIRDB) Software Operational, Maintenance, and Enhancement Support on the Automated Virtual Information Production Support System (AVIPSS). Modernize the data gathering systems and equipment at the ranges.	0.000	10.000
Congressional Adds Subtotals	21.238	20.000

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C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

Not required for Congressional Adds