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**Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy** **Date:** March 2023

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604258N / <i>Target Systems Development</i>
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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	19.553	73.708	18.623	-	18.623	12.244	11.435	11.573	11.804	Continuing	Continuing
0609: <i>Aerial Target System Dev</i>	0.000	10.426	12.277	13.653	-	13.653	9.494	9.920	10.028	10.228	Continuing	Continuing
0612: <i>Surface Targets Development</i>	0.000	1.404	1.431	1.456	-	1.456	1.485	1.515	1.545	1.576	Continuing	Continuing
2159: <i>ASW TARGET</i>	0.000	0.000	0.000	3.514	-	3.514	1.265	0.000	0.000	0.000	0.000	4.779
9999: <i>Congressional Adds</i>	0.000	7.723	60.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	67.723

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

This program element funds the development of Aerial Target Systems, Unmanned Aerial Vehicle targets, Sea Surface Target Systems, Target Control systems, and associated Target Mission Support Systems, Target Threat Simulation Program and Target Augmentation and Auxiliary Systems required to simulate real world threats. These capabilities are required to execute developmental/operational test and evaluation of naval combat weapon systems and to satisfy advanced fleet training requirements while ensuring the Navy continues to develop threat simulations of emerging threat requirements.

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>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Previous President's Budget	20.113	13.708	18.623	-	18.623
Current President's Budget	19.553	73.708	18.623	-	18.623
Total Adjustments	-0.560	60.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	60.000			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.560	0.000			
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000

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

**Project:** 9999: *Congressional Adds*

Congressional Add: *Lab and test range upgrades- targets*

FY 2022	FY 2023
7.723	0.000

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<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 6: RDT&amp;E Management Support</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604258N / <i>Target Systems Development</i>
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**Congressional Add Details (\$ in Millions, and Includes General Reductions)**

	<b>FY 2022</b>	<b>FY 2023</b>
Congressional Add: <i>Energetic technology advancements</i>	0.000	15.000
Congressional Add: <i>Test capabilities acceleration - Subsonic aerial target</i>	0.000	30.000
Congressional Add: <i>Test capabilities acceleration - Seaborne powered target</i>	0.000	15.000
Congressional Add Subtotals for Project: 9999	7.723	60.000
Congressional Add Totals for all Projects	7.723	60.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2024 Navy										<b>Date:</b> March 2023		
<b>Appropriation/Budget Activity</b> 1319 / 6					<b>R-1 Program Element (Number/Name)</b> PE 0604258N / <i>Target Systems Development</i>				<b>Project (Number/Name)</b> 0609 / <i>Aerial Target System Dev</i>			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
0609: <i>Aerial Target System Dev</i>	0.000	10.426	12.277	13.653	-	13.653	9.494	9.920	10.028	10.228	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

The mission of the Aerial Target Systems Development program is the design and development of threat representative subsonic and supersonic aerial targets that simulate threat weapon systems, threat aircraft or threat Unmanned Aerial Vehicles. In addition to representative air vehicles, this includes development of Target Control (TC) systems and associated Target Augmentation and Auxiliary Systems (TA/AS) which are used to replicate specific threats. Targets and auxiliary payloads are developed to support test and evaluation of combat systems required to defend fleet surface and air units in a hostile environment. As to specific hardware development, this project includes:

- **Supersonic Targets:** Portfolio includes GQM-163A Supersonic Sea-Skimming Target (SSST), AQM-37 High Diver, and Supersonic Air Launch Target (SALT) programs. Supersonic targets represent supersonic anti-ship cruise missile threats. The design and development of GQM-163A capabilities provide threat representative targets that are used in direct support of Developmental Test and Evaluation, Operational Test and Evaluation, and Live Fire Test and Evaluation of major combat weapons programs and to a lesser degree, support fleet training. Critical live-fire Test and Evaluation events are supported for AEGIS CG and DDG Mods, DDG-51 Flight III, DDG-1000, LHA-6/8, CVN-78, CVN-79 LPD Flight II, and LSD-41/49 (SM-6, SM-2, RAM, SSDS, and ESSM). The GQM-163A is a non-recoverable supersonic sea skimming aerial target, capable of speeds in excess of Mach 2.5 and cruise altitudes from 13.0 to 66 ft. The GQM-163A has also demonstrated higher altitude diving threat profiles. The GQM-173A Multi-Stage Supersonic Target (MSST) was a supersonic development effort that was terminated on September 25, 2015; however, the requirement still exists to provide a multi-stage vehicle presentation. Funding may also be used to begin development of potential future supersonic targets to keep pace with emerging threats.

- **Subsonic Targets:** Portfolio includes BQM-177A, and BQM-34S & BQM-74E subsonic target programs. The BQM-177A SSAT development primarily represents subsonic anti-ship cruise missile threats, replacing legacy BQM-74E targets with a modernized subsonic target with increased capabilities. The BQM-177A SSAT provides threat representation for developmental and operational test & evaluation events of major combat weapons systems programs and in support of fleet training events. Specifically, the BQM-177A SSAT provides critical live-fire test and evaluation events for AEGIS CG and DDG Mods, DDG-51 Flight III, CVN-78, CVN-79, LHA-8, LPD Flight II, JSF, E-2D, SM-6, SM-2, RAM, and ESSM. BQM-34s are undergoing product improvement program efforts which may increase their current performance envelope to meet evolving Fleet training requirements and weapon system test events.

- **Target Augmentation and Auxiliary Systems (TA/AS):** Includes Target Threat Simulation Program (TTSP), Target Mission Support Systems (TMSS), and Target Control (TC). The TTSP portfolio provides the payload equipment required to electronically enhance aerial targets to provide threat representative radio frequency signatures, specifically the electronic attack and threat radar emissions (active emitters). Development of threat representative simulation components is on-going and required to keep pace with evolving threats and ensure that the Navy's threat simulation capabilities maintain warfighter readiness in the current environment. TC provides command and control of targets to enable the execution of threat-representative mission profiles. The mission also includes the design, development and qualification of various TMSS projects including but not limited to: Target RF datalink hardware, ground control hardware and software, scorer transponders, scoring

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ground stations, telemetry antennas, radar and locator beacons, identification, friend or foe transponders, and associated test sets. TA/AS enables each target to be uniquely configured for specific mission profiles and provide for high fidelity simulation of foreign threats. TA/AS-configured targets are used for radar acquisition test, electronic countermeasures (jamming) evaluation, infrared measurement and testing, radar cross section evaluation, decoy-effectiveness testing, maneuver analysis, electronic warfare evaluation, warhead-effectiveness testing and evaluation of fleet tactics. Scoring capabilities include both surface and airborne scalar scoring systems.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<p><b>Title:</b> Supersonic Targets - Development &amp; Upgrades of Supersonic targets</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> Provides funding for the development of GQM-163A upgrades/evolutionary development to keep pace with evolving threat characteristics. Efforts include continued development of performance envelope characteristics to include flight termination performance, enhanced speed and distance capabilities, and multiple target launch capability. Funding will also support the development of other unique supersonic targets as required.</p> <p><b>FY 2023 Plans:</b> Continue the development of GQM-163A Supersonic Sea Skimming Targets (SSST) improvements and increased capability efforts including deployable chaff, Electronic Warfare (EW) payloads, and enhanced flight performance. Continue to develop the modeling and simulation for strakes. Continue SSST redesign and development efforts as required for improvements and infrastructure upgrades to include those required to accommodate increased simultaneous launches. Continue to support the development and test of other unique supersonic targets as required.</p> <p><b>FY 2024 Base Plans:</b> Continue the development of GQM-163A Supersonic Sea Skimming Targets (SSST) improvements and increased capability efforts including deployable chaff, Electronic Warfare (EW) payloads, and enhanced flight performance. Continue to develop the modeling and simulation for strakes. Continue SSST redesign and development efforts as required for improvements and infrastructure upgrades to include those required to accommodate increased simultaneous launches. Continue to support the development and test of other unique supersonic targets as required.</p> <p><b>FY 2024 OCO Plans:</b> N/A</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b></p>	0.247	0.252	0.257	0.000	0.257
<b>Articles:</b>	-	-	-	-	-

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<b>Appropriation/Budget Activity</b> 1319 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0604258N / <i>Target Systems Development</i>	<b>Project (Number/Name)</b> 0609 / <i>Aerial Target System Dev</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Increase of \$0.005M from FY 2023 to FY 2024 to account for inflation.					
<p><b>Title:</b> Subsonic Targets - Development &amp; Upgrades of Subsonic aerial targets</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> Provides funding for the upgrades and evolutionary development of Subsonic targets to keep pace with evolving threat characteristics. Efforts include continued development of performance envelope expansion and increased capabilities to provide realistic threat representation in support of critical live-fire Test and Evaluation events for major weapons systems and fleet combat training. Funding will also support the development of other unique subsonic target as required.</p> <p><b>FY 2023 Plans:</b> Continue engineering, manufacturing, training, logistics and test efforts of Subsonic targets. Incorporate Engineering Change Proposals, modernizations, and capability enhancements in the baseline design configuration as mission and threats evolve. Continue studies &amp; development efforts on other subsonic target alternatives.</p> <p><b>FY 2024 Base Plans:</b> Continue engineering, manufacturing, training, logistics and test efforts of Subsonic targets. Incorporate Engineering Change Proposals, modernizations, and capability enhancements in the baseline design configuration as mission and threats evolve. Continue studies &amp; development efforts on other subsonic target alternatives.</p> <p><b>FY 2024 OCO Plans:</b> N/A</p> <p><b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> No change.</p>	1.042	1.000	1.000	0.000	1.000
	-	-	-	-	-
<p><b>Title:</b> Target Augmentation and Auxiliary Systems (TA/AS)</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> The Target Threat Simulation Program (TTSP) provides the payload equipment required to electronically enhance aerial/surface targets to provide threat representative Radio Frequency signatures, specifically the Electronic Attack and Threat Radar Emissions (Active Emitters). The TTSP accomplishes this by providing a collection of modules which are integrated into individual targets in various configurations to provide the ability to simulate the RF environment. Funding will support the continued development of the TTSP portfolio</p>	9.137	11.025	12.396	0.000	12.396
	-	-	-	-	-

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**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<p>so that the Navy can keep pace with emerging enemy threats. Provides funding for the development of Target Control (TC) systems and Target Augmentation and Auxiliary Systems (TA/AS) capable of supporting Test and Evaluation (T&amp;E) and fleet training activities to ensure emerging threat simulation requirements are met. Target Control Systems (TCS) involve the improved command and control systems capable of controlling multiple targets simultaneously while delivering adequate fidelity of T&amp;E telemetry data. The TMSS program portfolio provides target control, scoring, location, and navigation of air, land and seaborne targets for fleet training and weapons systems test and evaluation. Funding also supports the design, development and qualification of TMSS including but not limited to the current and next generation TC systems, scalar scorers, scoring ground station, telemetry antennas, radar and locator beacons, identification friend or foe and associated test sets. Augmentation and auxiliary systems must be capable of augmenting targets in support of radar acquisition test, electronic countermeasures (jamming) evaluation, infrared measurement/test, radar cross section evaluation, decoy effectiveness, maneuver analysis, electronic warfare, warhead effectiveness and evaluation of fleet tactics, readiness, and training.</p> <p><b>FY 2023 Plans:</b> Continue development of more advanced emitters and electronic attack payloads to include miniaturized payloads. The Supersonic Kitten advanced Digital Radio Frequency Module for the GQM-163A integration effort and Low Rate Initial Production is planned as is SubRESS emitter upgrades. Towed Decoy integration on the BQM-177A will continue, along with beginning integration of a dual band decoy system. New antenna developments are required to meet fleet operational test scenarios as well as RDTE testing needs. Continue development and qualification of the Next Generation SNTC Ground Control Station with associated hardware and software upgrades. Continue development of the Next Generation Scoring System. Continue fielding the replacement AN/DPN-90 Radar Beacon. Complete fielding the DSQ-50A Scalar Scorer and its associated Ground Telemetry Station and continue fielding the TCS Radio Frequency Subsystem (SNTC BLK 3) upgrade hardware, both two to three year processes.</p> <p><b>FY 2024 Base Plans:</b> Complete Supersonic Kitten advanced Digital Radio Frequency Module (DRFM). Integration of the AMIE advanced DRFM into the BQM-34 and BQM-177A is planned along with possible integration into the GQM-163A. Continued development of Dual band decoy system for integration into sub and full scale targets will continue. Development of High frequency DRFM is also expected to meet future fleet needs. Continue development and qualification of the Next Generation SNTC Ground Control Station with associated hardware and software upgrades. Continue development of the Next Generation Scoring System. Continue fielding the</p>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
replacement AN/DPN-90 Radar Beacon. DSQ-50A Scalar Scorer and its associated Ground Telemetry Station and the TCS Radio Frequency Subsystem (SNTC BLK 3) upgrade hardware have been completed.					
<b>FY 2024 OCO Plans:</b> N/A					
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> Increase of \$1.371M from FY 2023 to FY 2024 for the Target Threat Simulation Payload (TTSP) to develop miniaturized TTSP payloads currently used on Supersonic and Subsonic targets. These payloads emulate threat electronic warfare signals aboard aerial targets to challenge the defending platforms electronic surveillance. The increase specifically covers miniaturization of existing emitters for use aboard the recently fielded BQM-177A - having a smaller payload section over the BQM-74E and also for new threat emitter development aboard the GQM-163A supersonic target. Future test events require dual payloads (Emitter and Jx) as required by DDG FLT III, AEGIS ACB 16, CVN-78 and DDG-1000 weapon defense systems.					
<b>Accomplishments/Planned Programs Subtotals</b>	10.426	12.277	13.653	0.000	13.653

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• WPN 2280: <i>Aerial Targets</i>	141.446	182.134	176.588	-	176.588	178.839	182.323	185.840	189.557	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

Supersonics: The GQM-163A Supersonic Sea-Skimming Target (SSST) is an ACAT II program. The acquisition strategy includes the development of Quad Launch, design efforts for integration of new Radome and Radar Altimeter, Electronic Warfare (EW) systems and other Engineering Change Proposals as required to emulate emerging threat systems. These development efforts will continue to be rolled into the production baseline. Production efforts are expected to continue at higher quantities in order to meet projected MDAP T&E requirements. The acquisition strategy includes the Supersonic Air Launch Target (SALT) modification, an Abbreviated Acquisition Program (AAP). Additionally, development of alternative supersonic targets is being explored.

Subsonics: The Subsonic Aerial Target (SSAT) program is an ACAT-IV program. The Low Rate Initial Production (LRIP) 3 contract was awarded in 3rd Quarter of FY 2019 with Full Rate Production (FRP) Contracts to follow. Full Operational Capability (FOC) was declared in 2022. Engineering Change Proposals will be contracted as required via IDIQ contract vehicles to keep pace with emerging threat systems and changes rolled into the production baseline. Development efforts for other subsonic targets will be resourced via other contracting efforts as required.

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<b>Appropriation/Budget Activity</b> 1319 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0604258N / <i>Target Systems Developme nt</i>	<b>Project (Number/Name)</b> 0609 / <i>Aerial Target System Dev</i>

Target Augmentation and Auxiliary Systems (TA/AS): Includes Target Threat Simulation Program (TTSP) and Target Mission Support Systems (TMSS). The acquisition strategy for these components vary depending on industry responses to government issued Requests for Information, but most are acquired via Firm Fixed Price IDIQ contracts.

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<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>	<b>FY 2025</b>	<b>FY 2026</b>	<b>FY 2027</b>	<b>FY 2028</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
0612: <i>Surface Targets Development</i>	0.000	1.404	1.431	1.456	-	1.456	1.485	1.515	1.545	1.576	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

This project develops seaborne targets and their related target augmentation systems in support of air-to-surface and surface-to-surface weapons test and evaluation and fleet training.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
<b>Title:</b> Surface Targets Development	1.404	1.431	1.456	0.000	1.456
<b>Articles:</b>	-	-	-	-	-
<b>FY 2023 Plans:</b> Review emerging threats and developing weapon systems and analyze requirements for new targets or improvements/alterations to existing targets. Monitor developments in Command and Control and support developments for System for Naval Target Control (SNTC) applicable to Seaborne Targets. Develop improvements to SeaCAN nodes to incorporate new commercial components to improve performance and reliability. Research improvements to Portable Command and Control Unit (PCCU) graphical user interface based upon user input. Develop improvements to target swarm formation control. Develop new augmentation systems for towed targets to support test and evaluation of new weapon systems.					
<b>FY 2024 Base Plans:</b> Develop improvements to QST-35 target remote control system. Research capability to improve control system reliability and reduce data lag when operating Portable Command and Control Unit via satellite data link. Research improved methods for target control using waypoint navigation. Develop improved target navigation algorithms for utilization in environments with denied access to global positioning system. Test modified local controller-area network system on Fast Attack Craft Target to be compatible with control of target swarms. Test system for deploying small air vehicles from remote-controlled seaborne targets.					
<b>FY 2024 OCO Plans:</b> N/A					
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b>					

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<b>Appropriation/Budget Activity</b> 1319 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0604258N / <i>Target Systems Development</i>	<b>Project (Number/Name)</b> 0612 / <i>Surface Targets Development</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024 Base</b>	<b>FY 2024 OCO</b>	<b>FY 2024 Total</b>
Minimal increase in funding from FY 2023 to FY 2024 to account for inflation.					
<b>Accomplishments/Planned Programs Subtotals</b>	1.404	1.431	1.456	0.000	1.456

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPN/5429: ASW SE	14.757	11.596	11.190	-	11.190	12.191	12.444	12.695	12.948	Continuing	Continuing

**Remarks**  
Other Program Funding reflects OPN/5429 funds directly associated with Project 0612, not the total value of the OPN Line Item.

**D. Acquisition Strategy**  
Not applicable.

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<b>Appropriation/Budget Activity</b> 1319 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0604258N / <i>Target Systems Development</i>	<b>Project (Number/Name)</b> 2159 / ASW TARGET
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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
2159: ASW TARGET	0.000	0.000	0.000	3.514	-	3.514	1.265	0.000	0.000	0.000	0.000	4.779
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

RDT&E,N Budget provides funding for sprint speed and frequency expansion to improve performance capability for the MK 39 Mod 3 Expendable Mobile ASW Training Target (EMATT). This effort supports the transition of the Sprint Speed and Low Frequency Improvement into MK 39 Mod 3 EMATT production and starts to investigate Continuous Active Sonar (CAS) capability to provide better detection performance and provide operators with a continuous track. Sprint Speed and Frequency Expansion upgrade allows EMATT to more closely represent submarine tactics for evasion and will make it compatible with new ASW sensors like the FFG Constellation Class Variable Depth Sonar.

**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
<b>Title:</b> ASW Target Development	0.000	0.000	3.514	0.000	3.514
<b>Articles:</b>	-	-	-	-	-
<b>FY 2023 Plans:</b> N/A					
<b>FY 2024 Base Plans:</b> Funds integration of MK 39 EMATT sprint speed and low frequency expansion efforts to improve performance capability for the Mk39 Mod 3 Expendable Mobile ASW Training Target (EMATT). This effort supports the transition of the Sprint Speed developed by BAE systems into production variant. Funds integration and final development of Low Frequency module into MK 39 Mod 3 EMATT variant.					
<b>FY 2024 OCO Plans:</b> N/A					
<b>FY 2023 to FY 2024 Increase/Decrease Statement:</b> No funding was budgeted in FY 2023 for this tasking. FY 2024 increase is to complete transition of SBIR Phase 2.5 developed technology into the production baseline.					
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	0.000	3.514	0.000	3.514

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

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604258N / <i>Target Systems Development</i>	Project (Number/Name) 2159 / ASW TARGET

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

**D. Acquisition Strategy**  
N/A

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<b>Appropriation/Budget Activity</b> 1319 / 6	<b>R-1 Program Element (Number/Name)</b> PE 0604258N / <i>Target Systems Development</i>	<b>Project (Number/Name)</b> 9999 / <i>Congressional Adds</i>
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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: <i>Congressional Adds</i>	0.000	7.723	60.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	67.723
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

FY 2022 Congressional Add C781: Lab and test range upgrades- targets  
 FY 2023 Congressional Add C900: Energetic technology acceleration  
 FY 2023 Congressional Add C914: Test capabilities acceleration - Subsonic aerial targets  
 FY 2023 Congressional Add C915: Test capabilities acceleration - Seaborne powered target

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

	FY 2022	FY 2023
<b>Congressional Add:</b> Lab and test range upgrades- targets  <b>FY 2022 Accomplishments:</b> Provide support to the development and test asset procurement of the Supersonic Kitten (SSK) miniaturized electronic attack payload for use in the GQM-163A Supersonic Target.  <b>FY 2023 Plans:</b> N/A	7.723	0.000
<b>Congressional Add:</b> Energetic technology advancements  <b>FY 2022 Accomplishments:</b> N/A  <b>FY 2023 Plans:</b> Develop and qualify a new MK 70 Solid Rocket Motor (SRM) for the GQM-163A Supersonic Target and other DoD programs. Establish a government owned Production Using Salvaged Hardware (PUSH) Technical Data Package (TDP) for development, production and sustainment. Build and test prototype MK 70 PUSH SRMs. Establish new manufacturing processes and capacity to meet technical requirements and SRM operational demand.	0.000	15.000
<b>Congressional Add:</b> Test capabilities acceleration - Subsonic aerial target  <b>FY 2022 Accomplishments:</b> N/A  <b>FY 2023 Plans:</b> Procure additional fifteen (15) BQM-177A Subsonic Aerial Targets in both Lots 4 & 5, respectively, in support of Operational Test events supporting DDG Flight III Test and Evaluation Master Plan (TEMP) 1984, Capstone Air Warfare Ship Self Defense (AW SSD) TEMP 1714 and CVN 78 GERALD R. FORD CLASS TEMP 1610. Additionally, build back inventory to support future testing in support of CVN 79, LPD Flight	0.000	30.000

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<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2022</b>	<b>FY 2023</b>
II and LHA 8 test campaigns and procure the necessary Peculiar Test/Support Equipment required for both the BQM-177A and the BQM-34S subsonic targets systems.		
<b>Congressional Add:</b> Test capabilities acceleration - Seaborne powered target	0.000	15.000
<b>FY 2022 Accomplishments:</b> N/A		
<b>FY 2023 Plans:</b> Develop documentation to support the procurement of Seaborne Powered Target (SEPTAR) QST-35s to support air-to-surface and surface-to-surface weapon system testing at the Point Mugu Sea Range. Procure Tier 1 and Tier 2 Seaborne Target Radar Emitters for use during air-to-surface and surface-to-surface missile test and evaluation.		
<b>Congressional Adds Subtotals</b>	7.723	60.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A