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**Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy** **Date:** March 2024

<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 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	0.000	69.464	18.623	17.224	-	17.224	14.523	11.969	17.917	25.646	Continuing	Continuing
0609: <i>Aerial Target System Dev</i>	0.000	9.609	13.653	7.994	-	7.994	10.644	10.445	10.053	10.261	Continuing	Continuing
0612: <i>Surface Targets Development</i>	0.000	1.425	1.456	1.482	-	1.482	1.499	1.524	1.552	1.584	Continuing	Continuing
2159: <i>ASW TARGET</i>	0.000	0.000	3.514	7.748	-	7.748	2.380	0.000	6.312	13.801	Continuing	Continuing
9999: <i>Congressional Adds</i>	0.000	58.430	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	58.430

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

This program element funds the development of Aerial Target Systems, Sea Surface Targets and Undersea Warfare Targets, 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 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
Previous President's Budget	73.708	18.623	12.244	-	12.244
Current President's Budget	69.464	18.623	17.224	-	17.224
Total Adjustments	-4.244	0.000	4.980	-	4.980
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-2.365	0.000			
• SBIR/STTR Transfer	-1.879	0.000			
• Program Adjustments	0.000	0.000	4.980	-	4.980
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000

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

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

FY 2023	FY 2024

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<b>Exhibit R-2, RDT&amp;E Budget Item Justification:</b> PB 2025 Navy	<b>Date:</b> March 2024
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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)**

Congressional Add: *Energetic technology advancements*

Congressional Add: *Test capabilities acceleration - Subsonic aerial target*

Congressional Add: *Test capabilities acceleration - Seaborne powered target*

Congressional Add Subtotals for Project: 9999

Congressional Add Totals for all Projects

	FY 2023	FY 2024
	15.000	0.000
	28.961	0.000
	14.469	0.000
	58.430	0.000
	58.430	0.000

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy										<b>Date:</b> March 2024		
<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 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>
0609: <i>Aerial Target System Dev</i>	0.000	9.609	13.653	7.994	-	7.994	10.644	10.445	10.053	10.261	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

The Aerial Target Systems Development program designs and develops threat representative subsonic and supersonic targets and associated payloads to emulate threat weapon systems and aircraft. 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) and AQM-88 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 8, CVN-79 LPD Flight II, and LSD-41/49 (SM-6, SM-2, RAM, 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 66K feet. The GQM-163A has also demonstrated higher altitude diving threat profiles. 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-167 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-79, LHA-8, LPD Flight II, JSF, E-2D, SM-6, SM-2, RAM, and ESSM. BQM-34s are undergoing product improvement program efforts to address component obsolescence and improve current performance to meet evolving Fleet training requirements and weapon system test events. The BQM-167A is utilized by operational aviation squadrons that participate in Navy Weapon System Evaluation Program (NWSEP) at Tyndall Air Force Base, FL. NWSEP is the traditional mechanism for aviation squadrons to accomplish Training and Readiness (T&R) requirements provided by Non-Combat Expenditure Allocation (NCEA) of air-to-air weapons as part of Fleet Readiness Plans (FRP) prior to deployment.

- **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 remain relevant against emerging threats. TC provides command and control of targets to enable the safe 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 ground

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Navy **Date:** March 2024

<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>
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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 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 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 2024 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 2025 Base Plans:</b> Continue the development of GQM-163A Supersonic Sea Skimming Targets (SSST) improvements and increased capability efforts including Electronic Warfare (EW) payloads and enhanced flight performance. Complete the development of modeling and simulation for strakes. Complete development for improvement and infrastructure upgrades to accommodate increased simultaneous launches. Continue to support the development and test of other unique supersonic targets as required.</p> <p><b>FY 2025 OCO Plans:</b> N/A</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Increase of \$0.003M from FY 2024 to FY 2025 to account for inflation.</p>	0.252	0.257	0.260	0.000	0.260
	-	-	-	-	-
<p><b>Title:</b> Subsonic Targets - Development &amp; Upgrades of Subsonic aerial targets</p> <p align="right"><b>Articles:</b></p>	1.000	1.000	1.005	0.000	1.005
	-	-	-	-	-

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<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 2024 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 2025 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 2025 OCO Plans:</b> N/A</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Increase of \$0.005M from FY 2024 to FY 2025 to account for inflation.</p>					
<p><b>Title:</b> Target Augmentation and Auxiliary Systems (TA/AS)</p> <p align="right"><b>Articles:</b></p> <p><b>Description:</b> Target Augmentation and Auxiliary Systems (TA/AS) is composed of the Target Threat Simulation Program (TTSP), Target Mission Support Systems (TMSS) and Target Control System (TCS). 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 emulate threat RF seekers, radars and decoys. Funding will support the continued development of the TTSP portfolio so that the Navy can keep pace with emerging enemy threats. Provides funding for the development of Target</p>	8.357	12.396	6.729	0.000	6.729
	-	-	-	-	-

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

	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<p>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) funding improves 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 2024 Plans:</b> Complete Supersonic Kitten advanced Digital Radio Frequency Module (DRFM) and ALE-55 fiber optic towed decoy capability. Integration of the AMIE advanced DRFM into the BQM-34S and BQM-177A is planned along with possible integration into the GQM-163A. Continued development of Dual band decoy system for integration into sub 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 replacement AN/DPN-90 Radar Beacon. Complete DSQ-50A Scalar Scorer and its associated Ground Telemetry Station and the TCS Radio Frequency Subsystem (SNTC BLK 3) upgrade.</p> <p><b>FY 2025 Base Plans:</b> Continue Integration of the AMIE advanced DRFM into the BQM-34S and BQM-177A along with possible integration into the GQM-163A. Continue development of Dual band decoy system for integration into sub scale targets. 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 replacement AN/DPN-90 Radar Beacon.</p> <p><b>FY 2025 OCO Plans:</b></p>					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A					
<b><i>FY 2024 to FY 2025 Increase/Decrease Statement:</i></b> Decrease of \$5.667M from FY 2024 to FY 2025 is due to the completion of the development of Supersonic Kitten advanced Digital Frequency Module (DRFM) and ALE-55 fiber optic towed decoy capability.					
<b>Accomplishments/Planned Programs Subtotals</b>	9.609	13.653	7.994	0.000	7.994

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• WPN 2280: <i>Aerial Targets</i>	182.134	176.588	182.463	-	182.463	186.033	176.567	175.304	192.779	Continuing	Continuing

**Remarks**

**D. Acquisition Strategy**

Supersonics: The GQM-163A Supersonic Sea-Skimming Target (SSST) is an ACAT II program. The acquisition strategy includes 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 incorporated 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 initiated in FY 2020. 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 incorporate the changes into the production baseline. Development efforts for other subsonic targets will be resourced via other contracting efforts as required.

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 Proposals, but most are acquired via Firm Fixed Price IDIQ contracts.

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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>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>
0612: <i>Surface Targets Development</i>	0.000	1.425	1.456	1.482	-	1.482	1.499	1.524	1.552	1.584	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 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<b>Title:</b> Surface Targets Development	1.425	1.456	1.482	0.000	1.482
<b>Articles:</b>	-	-	-	-	-
<b>FY 2024 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 2025 Base Plans:</b> Continue to develop improvements to QST-35 target remote control system. Continue to research capability to improve control system reliability and reduce data lag when operating Portable Command and Control Unit via satellite data link. Continue to research improved methods for target control using waypoint navigation. Continue to develop improved target navigation algorithms for utilization in environments with denied access to global positioning system. Complete system test for deploying small air vehicles from remote controlled seaborne targets. Research replacement to iridium satellite control. Develop target platforms in support of long-range fires.					
<b>FY 2025 OCO Plans:</b> N/A					
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Minimal increase in funding from FY 2024 to FY 2025 to account for inflation.					
<b>Accomplishments/Planned Programs Subtotals</b>	1.425	1.456	1.482	0.000	1.482

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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>

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>			<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u>	
			<u>Base</u>	<u>OCO</u>	<u>Total</u>					<u>Complete</u>	<u>Total Cost</u>
• OPN/5429: ASW SE	11.596	11.190	12.097	-	12.097	12.443	12.694	12.947	13.219	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 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
2159: ASW TARGET	0.000	0.000	3.514	7.748	-	7.748	2.380	0.000	6.312	13.801	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

RDT&E,N Budget provides funding for multiple lines of improvement across the Navy's portfolio of reusable and expendable undersea warfare targets.

1. 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.
2. Provides funding for a Long Endurance Variant of MK 39 Mod 3 Expendable Mobile ASW Training Target (EMATT) to support 24+ hour missions. This effort supports development of Long Endurance module for the MK 39 Mod 3 EMATT. The Long Endurance module will allow the EMATT to support training of multiple aircrews in a single, coordinated extended tracking exercise and facilitate the training of multiple watch sections on surface ships and submarines in an extended tracking exercise.
3. Provides funding for a Low Frequency Variant of MK 39 Mod 3 Expendable Mobile ASW Training Target (EMATT) to support narrowband tracking requirements for USN submarines. This effort supports the development of a Low Frequency module for the MK 39 Mod 3 EMATT. The Low Frequency Variant upgrade allows EMATT to better emulate low frequency signatures of modern threat submarines.
4. Provides funding for MK 30 ASW Target Replacement. This effort supports non-recurring engineering efforts associated with the MK 30 ASW Target Replacement production and develops performance improvements and peculiar support equipment modifications to support integration of the target with existing range support equipment.

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

	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
<b>Title:</b> ASW Target Development	0.000	3.514	7.748	0.000	7.748
<b>Articles:</b>	-	-	-	-	-
<b>FY 2024 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					

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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 / <i>ASW TARGET</i>

<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025 Base</b>	<b>FY 2025 OCO</b>	<b>FY 2025 Total</b>
<p>transition of the Sprint Speed developed by BAE systems into production variant. Funds integration and final development of Low Frequency Active module into MK 39 Mod 3 EMATT variant.</p> <p><b>FY 2025 Base Plans:</b></p> <ul style="list-style-type: none"> <li>- Complete integration, validation and acceptance testing 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).</li> <li>- Initiates development of the Long Endurance Variant of MK 39 Mod 3 Expendable Mobile ASW Training Target (EMATT) to support 24+ hour missions. This effort supports the transition of the Long Endurance Variant modular section into MK 39 Mod 3 EMATT production. the Long Endurance Variant upgrade allows EMATT support training of multiple crews back-to-back and allow for training of transitioning long tracks between crews.</li> <li>- Initiates development of the Extremely Low Frequency Variant of MK 39 Mod 3 Expendable Mobile ASW Training Target (EMATT) to support narrowband tracking requirements for USN submarines. Transition the Low Frequency Variant modular section into MK 39 Mod 3 EMATT production.</li> <li>- Initiate the MK 30 ASW Target Replacement Program. Funds necessary for non-recurring engineering required for production and develops performance improvements and peculiar support equipment modifications to support integration of the target with existing range support equipment.</li> </ul> <p><b>FY 2025 OCO Plans:</b> N/A</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Increase of \$4.234M required to develop the Long Endurance and Low Frequency Modules for the MK 30 Mod 3 EMATT and funding required to support initiation of the MK 30 Heavyweight ASW Target Replacement Program.</p>					
<b>Accomplishments/Planned Programs Subtotals</b>	0.000	3.514	7.748	0.000	7.748

<b>C. Other Program Funding Summary (\$ in Millions)</b>											
<b>Line Item</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>
• WPN/3141: <i>Enter Other Funding Description.</i>	14.403	14.817	30.476	-	30.476	39.615	48.367	48.737	51.519	0.000	517.985

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy			<b>Date:</b> March 2024		
<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	

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

<u>Line Item</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u> <u>Base</u>	<u>FY 2025</u> <u>OCO</u>	<u>FY 2025</u> <u>Total</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
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**Remarks**

**D. Acquisition Strategy**

N/A

**UNCLASSIFIED**

**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Navy **Date:** March 2024

<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 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
9999: <i>Congressional Adds</i>	0.000	58.430	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	58.430
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

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 2023	FY 2024
<b>Congressional Add:</b> Energetic technology advancements  <b>FY 2023 Accomplishments:</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.  <b>FY 2024 Plans:</b> N/A	15.000	0.000
<b>Congressional Add:</b> Test capabilities acceleration - Subsonic aerial target  <b>FY 2023 Accomplishments:</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 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>FY 2024 Plans:</b> N/A	28.961	0.000
<b>Congressional Add:</b> Test capabilities acceleration - Seaborne powered target  <b>FY 2023 Accomplishments:</b> Procuring four (4) Seaborne Powered Target (SEPTAR) QST-35s to support air to surface and surface to surface weapon system testing at the Point Mugu Sea Range. QST-35s are used in conjunction with the Mobile Ship Target (MST) to emulate adversary strike group formations in support of missile seeker discrimination tests for AARGM-ER, LRASM and Maritime Strike Tomahawk OT/DT program	14.469	0.000

**UNCLASSIFIED**

<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Navy		<b>Date:</b> March 2024
<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>

<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>	<b>FY 2023</b>	<b>FY 2024</b>
events. Procured Tier 1 and Tier 2 Seaborne Target RADAR Emitters for use during air to surface and surface to surface missile test and evaluation (LRASM, HARM, AARGM, OASUW Inc II, Maritime Strike Tomahawk). Tier 1 systems will be reusable in the UHF, VHF, X and S Bands and deployed aboard the MST and QST-35s. Tier 2 are lower fidelity, expendable emitters that will be employed during live fire exercises and placed at risk of destruction.  <i>FY 2024 Plans:</i> N/A		
<b>Congressional Adds Subtotals</b>	58.430	0.000

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

N/A

**Remarks**

**D. Acquisition Strategy**

N/A