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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Navy **Date:** May 2021

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support</i>					R-1 Program Element (Number/Name) PE 0604258N / <i>Target Systems Development</i>							
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	11.734	10.095	12.113	-	12.113	-	-	-	-	-	-
0609: <i>Aerial Target System Dev</i>	0.000	7.744	8.716	10.703	-	10.703	-	-	-	-	-	-
0612: <i>Surface Targets Development</i>	0.000	1.300	1.379	1.410	-	1.410	-	-	-	-	-	-
2159: <i>ASW TARGET</i>	0.000	2.690	0.000	0.000	-	0.000	-	-	-	-	-	-

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. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	12.027	10.224	15.198	-	15.198
Current President's Budget	11.734	10.095	12.113	-	12.113
Total Adjustments	-0.293	-0.129	-3.085	-	-3.085
• Congressional General Reductions	-	-0.129			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.293	0.000			
• Program Adjustments	0.000	0.000	-1.970	-	-1.970
• Rate/Misc Adjustments	0.000	0.000	-1.115	-	-1.115

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<u>Change Summary Explanation</u> Project 0609. The Aerial Targets System Development FY 2022 funding request reflect the following adjustments since the previous President's Budget submission: decrease of \$1.970M to account for the availability of prior year execution balances, and decrease of \$1.111M for support reductions for a total overall reduction of \$3.081M. Project 0612. The Surface Target Development FY 2022 funding request was reduced by \$0.004M to account for miscellaneous adjustments.		

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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 0604258N / <i>Target Systems Development</i>				Project (Number/Name) 0609 / <i>Aerial Target System Dev</i>			
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
0609: <i>Aerial Target System Dev</i>	0.000	7.744	8.716	10.703	-	10.703	-	-	-	-	-	-
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), GQM-173A Multi-Stage Supersonic Target (MSST), and AQM-37 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, DDG-1000, LHA-6, CVN-78, LCS, 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. MSST was a supersonic development effort that was terminated on September 25, 2015. Once the contract termination costs have been determined by DCMA, funds may be required to cover settlement costs. However, the requirement still exists to provide a multi-stage vehicle presentation. New supersonic target development efforts include a replacement target for AQM-37.

- **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, SM-6, SM-2, RAM, and ESSM. BQM-34s are undergoing product improvement program efforts to increase their current performance envelope to meet evolving Fleet training requirements and weapon system test events.

- **Target Threat Simulation Program (TTSP), Target Mission Support Systems (TMSS), and Target Control and Target Augmentation and Auxiliary Systems (TC/TA/AS) development:** 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 ground stations, telemetry antennas, radar and locator beacons, identification, friend or foe transponders, and associated test sets. TA/AS enables each target to be

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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. TA/AS scoring capabilities include both surface and airborne scalar scoring systems.

Funding supports the development of increased capabilities to existing target platforms to modify the flight characteristics to be more aligned to threat anti-ship cruise missile performance. In addition to the design and development of target hardware and software, funding also supports studies performed by a University Affiliated Research Center (UARC) to specify and verify needed target performance for future target development. For the design and validation of targets under development, the UARC will provide engineering studies in areas such as structures, controls, guidance, and propulsion. For those hardware and software items presently under development by commercial vendors, the UARC will provide oversight and validation of vendor design and development approach.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>Title: Supersonic Targets - Development & Upgrades of Supersonic targets</p> <p align="right">Articles:</p> <p>Description: 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, and the close out of the GQM-173 Multi-Stage Supersonic Target development effort.</p> <p>FY 2021 Plans: 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 incorporating the Chaff kit onto the GQM-163A and conduct HERO testing on the prototype system. 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>FY 2022 Base Plans: 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</p>	0.237	0.242	0.247	0.000	0.247
	-	-	-	-	-

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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
<p>accommodate increased simultaneous launches. Continue to support the development and test of other unique supersonic targets as required.</p> <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$0.005M from FY 2021 to FY 2022 accounts for potential future Supersonic development efforts and inflation.</p>					
<p>Title: Subsonic Targets - Development & Upgrades of subsonic aerial targets with increased capabilities</p> <p align="right">Articles:</p> <p>Description: A Subsonic Aerial Target (SSAT) replacement air vehicle, for the currently fielded BQM-74E target no longer in production, is required. The BQM-177A is a modernized subsonic target with increased capabilities providing realistic threat representation in support of critical live-fire Test and Evaluation events for major weapons systems and Fleet combat training. The target features increased capabilities to include higher speed, longer range, lower cruise altitudes and greater maneuverability. Other subsonic target alternatives are being explored.</p> <p>FY 2021 Plans: Continue site activations and required shipboard suitability testing in preparation of FOC. Continue engineering, manufacturing, training, logistics and test efforts of the BQM-177A SSAT. Incorporate Engineering Change Proposals and modernizations in the baseline design configuration as mission and threats evolve. Continue studies & development efforts on other subsonic target alternatives.</p> <p>FY 2022 Base Plans: Complete site activations and required shipboard suitability testing in preparation of FOC. Continue engineering, manufacturing, training, logistics and test efforts of the BQM-177A SSAT. Incorporate Engineering Change Proposals and modernizations in the baseline design configuration as mission and threats evolve. Continue studies & development efforts on other subsonic target alternatives.</p> <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>	0.890	1.040	1.042	0.000	1.042
	-	-	-	-	-

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604258N / <i>Target Systems Development</i>	Project (Number/Name) 0609 / <i>Aerial Target System Dev</i>					
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Increase of \$0.002M from FY 2021 to FY 2022 accounts for potential future Subsonic development efforts and inflation.							
Title: Target Threat Simulation Program (TTSP), Target Mission Support Systems (TMSS), Target Control (TC) and Target Augmentation and Auxiliary Systems (TA/AS)			6.617	7.434	9.414	0.000	9.414
			-	-	-	-	-
Articles:							
Description: 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. TTSP equipment in various configurations is certified for carriage in aerial/surface targets. Funding supports the continued development of the TTSP portfolio so that the Navy can keep pace with emerging enemy threats. Funding is provided for the development of Target Control (TC) systems and Target Augmentation and Auxiliary Systems (TA/AS) capable of supporting Test and Evaluation (T&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&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.							
FY 2021 Plans:							
Continue development, prototyping and integration of threat electronic attack & active emitter simulators to ensure the Fleet meets emerging threat requirements. Begin development of miniaturized electronic payloads. Continue development and qualification of the SNTC BLK 4 Ground Control Station with associated hardware and software upgrades. Continue development of the DSQ-50B Vector Scorer. Continue fielding the replacement AN/DPN-90 Radar Beacon. Continue fielding the DSQ-50A Scalar Scorer and its associated							

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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
<p>Ground Telemetry Station and continue fielding the TCS Radio Frequency Subsystem (SNTC BLK 3) upgrade hardware, both two to three year processes.</p> <p>FY 2022 Base Plans: Continue development of more advanced emitters and electronic attack 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 occur, 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 SNTC BLK 4 Ground Control Station with associated hardware and software upgrades. Continue development of the DSQ-50B Vector Scorer. Continue fielding the replacement AN/DPN-90 Radar Beacon. Continue 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>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$1.980M from FY 2021 to FY 2022 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.</p>					
Accomplishments/Planned Programs Subtotals	7.744	8.716	10.703	0.000	10.703

C. Other Program Funding Summary (\$ in Millions)										
Line Item	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
• WPN 2280: <i>Aerial Targets</i>	150.561	168.261	150.339	-	150.339	-	-	-	-	-
Remarks										

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D. Acquisition Strategy

Supersonics: The GQM-163A Supersonic Sea-Skimming Target (SSST) is an Acquisition Category II program. The acquisition strategy includes the continued 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. 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 FY19 with Full Rate Production (FRP) Contracts to follow. 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.

Target Threat Simulation Program (TTSP), Target Mission Support Systems (TMSS), Target Control, and Target Augmentation and Auxiliary Systems: 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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Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0604258N / <i>Target Systems Development</i>				Project (Number/Name) 0612 / <i>Surface Targets Development</i>			
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
0612: <i>Surface Targets Development</i>	0.000	1.300	1.379	1.410	-	1.410	-	-	-	-	-	-
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)

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Surface Targets Development	1.300	1.379	1.410	0.000	1.410
Articles:	-	-	-	-	-
FY 2021 Plans:					
Research extension and integration of swarm remote control capabilities to other powered seaborne targets including Fast Attack Craft Target (FACT) and QST-35. Develop refinements to swarm remote control system based upon feedback from Fleet end users and target operators. Research potential manufacturing of seaborne targets from materials with lower environmental impact. Integrate marine traffic awareness/Automatic Identification System (AIS) capability into Portable Command and Control Unit (PCCU). Research replacement low-cost stationary floating target for crew-served weapons training. Research improved system for over-the-horizon command and control for Seaborne Targets. Develop and test replacement human-representative training target for use on seaborne targets. Research command and control interface for next-generation Mobile Ship Target.					
FY 2022 Base Plans:					
Develop new antenna arrays to support fixed and portable SeaCAN application. Investigate satellite short data burst capability for command and control of all surface target platforms. Research increased positional accuracy of powered and towed targets. Research cyber vulnerability of seaborne target systems and develop improvements. Develop a small air vehicles target deployment system from remote controlled targets. Investigate Ethernet command and control of targets from remote locations. Research internet cloud capability for hosting Portable Command and Control Units (PCCU) applications and security patch updates. Research					

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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
scoring capability for multi-arrayed target flotillas supporting over-the-horizon large area weapons. Test operational functionality of enhanced portability PCCU controllers in shipboard applications. FY 2022 OCO Plans: N/A FY 2021 to FY 2022 Increase/Decrease Statement: Project 0612 Surface Targets Development FY2022 funding request increased slightly above inflation due to increased weapon system Test and Evaluation and Fleet training requirements.					
Accomplishments/Planned Programs Subtotals	1.300	1.379	1.410	0.000	1.410

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• OPN/5429: ASW SE	6.869	10.851	18.500	-	18.500	-	-	-	-	-	-

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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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0604258N / <i>Target Systems Development</i>	Project (Number/Name) 2159 / ASW TARGET
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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
2159: ASW TARGET	0.000	2.690	0.000	0.000	-	0.000	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

This project is a new start in FY 2020.

A. Mission Description and Budget Item Justification

RDT&E,N Budget provides funding for Small Business Innovation Research (SBIR) Phase 2.5 for sprint speed and frequency expansion to improve performance capability for the Mk39 Mod 3 Expendable Mobile ASW Training Target (EMATT). This effort supports the transition of the Sprint Speed and Low Frequency Improvement Phase 2.5 efforts 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 LCS ASW mission package.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: New Accomplishment/Planned Program Entry	2.690	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2021 Plans: N/A					
FY 2022 Base Plans: N/A					
FY 2022 OCO Plans: N/A					
Accomplishments/Planned Programs Subtotals	2.690	0.000	0.000	0.000	0.000

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

N/A

Remarks

D. Acquisition Strategy

N/A