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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 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0605518N / <i>CONVENTIONAL PROMPT STRIKE (CPS)</i>
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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
Total Program Element	0.000	0.000	766.637	1,373.521	-	1,373.521	-	-	-	-	-	-
3334: <i>Conventional Prompt Strike (CPS)</i>	0.000	0.000	766.637	1,373.521	-	1,373.521	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Conventional Prompt Strike (CPS) warfighting capability will enable precise and timely strike capabilities in contested environments across multiple platforms. In coordination with the Army, the Navy CPS Program is designing a common All Up Round (AUR) comprised of a Common Hypersonic Glide Body (C-HGB) and a 34.5" two-stage booster. Independently, the Navy CPS Program is also performing design efforts relating to Navy-unique functions such as launch, weapon control, and Navy platform modifications. Development efforts under this program element lead to a weapon system capability that: (1) is non-ballistic over the majority of the flight path; (2) controls stage drop; (3) provides positive control and precision accuracy from launch to impact; (4) provides adequate cross-range/maneuverability to avoid over-flight issues; (5) provides prompt lethal effects on targets; and (6) is man-safe and deployable for surface and submerged platforms.

B. Program Change Summary (\$ in Millions)

	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	766.637	1,373.521	-	1,373.521
Total Adjustments	0.000	766.637	1,373.521	-	1,373.521
• Congressional General Reductions	-	-1.000			
• Congressional Directed Reductions	-	-245.738			
• Congressional Rescissions	-	-			
• Congressional Adds	-	5.000			
• Congressional Directed Transfers	-	1,008.375			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-150.000	-	-150.000
• Rate/Misc Adjustments	0.000	0.000	-3.846	-	-3.846

Change Summary Explanation

In FY 2021, this funding was transferred from Program Element 0604659N Precisions Strike Weapons Development Program.

Section B. does not accurately reflect the entirety of the PB21 to PB22 adjustments due to the Program Element change during the department's internal budget submittal. The CPS PB21 budget was approved with an FY22 budget request of \$1,305.70M. During the department's annual internal budget review process, downward rate adjustments for Department of Navy (DON) Total Force Manpower and NWCF in the amount of \$8.33M were applied to the FY22 budget request. Additionally, the budget request was adjusted to include a \$230.00M increase to expand the industrial base capacity for the recent addition of CPS capability

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1319: *Research, Development, Test & Evaluation, Navy / BA 4: Advanced Component Development & Prototypes (ACD&P)*

R-1 Program Element (Number/Name)
PE 0605518N / *CONVENTIONAL PROMPT STRIKE (CPS)*

on ZUMWALT Class destroyers beginning in FY 2025. The Line Item change was then directed by the FY21 appropriation bill, transferring \$1,527.37M from PE 0604659N to PE 0605518N. An additional rate adjustment decrease of \$3.85M and a \$150M reduction to the industrial base capacity expansion adjustment, resulted in a total FY22 program increase of \$67.820M from PB21 to PB22.

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Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0605518N / <i>CONVENTIONAL PROMPT STRIKE (CPS)</i>				Project (Number/Name) 3334 / <i>Conventional Prompt Strike (CPS)</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
3334: <i>Conventional Prompt Strike (CPS)</i>	0.000	0.000	766.637	1,373.521	-	1,373.521	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Conventional Prompt Strike (CPS) Weapon System will deliver a hypersonic conventional offensive strike capability through a depressed boost-glide trajectory to prosecute deep- inland, time-critical, soft and medium-hardened targets in contested environments. The Navy CPS Weapon System will enhance U.S. conventional power projection through longer range, shorter time of flight, and higher survivability against enemy defenses compared to current capabilities. The Navy CPS weapon system or major elements of the weapon system will be deployed onboard multiple launch platforms. The CPS program is a joint effort between services. Specifically, the Navy and Army are collaborating to design and deliver a common AUR in accordance with an inter-service Memorandum of Agreement. The Navy is responsible for design and development of the Common Hypersonic Glide Body (C-HGB) and 34.5" Booster, and integration of the C-HGB with the 34.5" Booster to create a common All Up Round (AUR). The Army is responsible for procurement of the Navy-designed C-HGB. To enable weapon system integration to meet Navy mission requirements, near-term design, development, and experimentation will be required for boosters, thermal protection systems, navigation, guidance and control systems, enhancements, payload modules, weapon control systems and interfaces to existing fire control systems, support equipment, and launcher systems. Component & subsystem technology maturity will be demonstrated and risk reduction accomplished through ground-based testing, in-air and underwater launch testing, and flight tests. Furthermore, with each platform deployment, risk continues to be reduced for weapon subsystems and components until prototyping efforts culminate in an initial operational Virginia- Class submarine weapon system capability. The program will capitalize on commonality between platform implementations.

CPS supports the National Defense Strategy by supporting modernization initiatives for hypersonic technologies and enabling a more lethal force the CPS program plan: (1) Provide rapid delivery of capability through multiple acquisition increments and configurations; and (2) Provide flexibility to allow for additional capability phases as the weapon system and warfighter requirements evolve. In order to meet current Top Level Requirements (TLR) and future warfighter needs the program has developed a Technical Insertion (TI) strategy that enables the program to rapidly deliver and incorporate new technology as it matures during pre-determined insertion points.

The FY 2022 budget exhibit provides new cost categories from previous fiscal year budget submissions. These categories reflect how the CPS Program Office currently structures its major contracts and manages major efforts while providing higher fidelity financial data for each work performer. Budget exhibit data is based on annual task planning efforts to evaluative current and future year budget requirements. This cost data is continuously updated based on actual execution data and negotiations with prime contractors.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Weapon System Integration	0.000	123.071	247.182	0.000	247.182
Articles:	-	-	-	-	-

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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>Description: The Weapon Systems Integration category accommodates all efforts associated with systems engineering, logistics, technical insertion capabilities and program management support.</p> <p>FY 2021 Plans:</p> <ul style="list-style-type: none"> -Supported the development, logistics, and facilities management of the CPS AUR and Navy CPS weapon system. -Continued to support systems engineering efforts for the assured performance, accuracy, integration, and compatibility of the CPS system and related auxiliary systems by establishing system-level requirements, defining interfaces between subsystems and facilities, and initiating policy/design tenets to ensure overall system performance and interoperability. -Continued to develop and field a classified digital infrastructure across industry and government sites to enable coordination, rapid development, and communications across multiple locations. -Continued to develop and perform analysis using Modeling and Simulation suites to understand the CPS Weapon System capabilities and gaps across various domains including lethality, survivability, performance envelope, and CONOPS. -Developed and began to execute Safety Management Plans, cybersecurity plans, and quality assurance assessments. -Continued advanced research and development efforts that support future Technical Insertion (TI) of capabilities such as enhanced warhead, advanced communication, alternative navigation, and terminal sensor technology. Details are available at a higher classification level. <p>FY 2022 Base Plans:</p> <ul style="list-style-type: none"> -Continue the development, transportation, logistics, and facilities management, including facilities construction, for the CPS AUR and Navy CPS deployed systems. -Continue to support systems engineering efforts for the assured performance, accuracy, integration, and compatibility of the CPS system and related auxiliary systems by establishing system-level requirements, 					

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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>defining interfaces between subsystems and facilities, and initiating policy/design tenets to ensure overall system performance and interoperability.</p> <p>-Continued to develop and perform analysis using Modeling and Simulation suites to understand the CPS Weapon System capabilities and gaps across various domains including lethality, survivability, performance envelope, and CONOPS.</p> <p>-Upgrade the weapon control system to include establishing system and sub- system level requirements, and initiating policy and program level design tenets to ensure overall system performance and interoperability. Continue defining and refining with Prime and all Subcontractors the interfaces between AUR, Canister, and Launch platform.</p> <p>-Continued advanced research and development efforts that support future Technical Insertion (TI) of capabilities such as enhanced warhead, advanced communication, alternative navigation, and terminal sensor technology. Details are available at a higher classification level.</p> <p>-Continue development of enhanced warhead design and producability to enable CPS to hold harder targets at risk in accordance with STRATCOM and OPNAV requirements. Details are available at a higher classification level.</p> <p>-Expand industrial base capacity to prepare for the increased AUR production need of 24 AURs per year by FY 2025 associated with adding hypersonic capability on ZUMWALT Class destroyers and Army 2nd and 3rd battery. This one-time investment will also add a dedicated production line for Advanced Payload Module (APM). Additionally, it enables the Prime Contractor and sub- tier suppliers to add additional tooling; casting pits; and dedicated machines for solid rocket motor production; add proper tooling, test equipment, electrical ground/ mechanical ground support equipment at Integration, Assembly, Test, and Checkout facilities; establish dedicated production lines at manufacturing facilities; expand capacity for nose fairing, release assembly, payload adapter, and interstage sections; obtain additional, qualified secondary sources of supply; and expand workforce hiring/training.</p> <p>-Complete fielding and maintain a classified digital infrastructure across industry and government sites to enable coordination, rapid development, and communications across multiple locations.</p>					

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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>-Continue to develop and perform analysis using Modeling and Simulation suites to understand the CPS Weapon System capabilities and gaps across various domains including lethality, survivability, performance envelope, and CONOPS.</p> <p>-Continue to execute Safety Management Plans, cybersecurity plans and quality assurance assessments, and related testing.</p> <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY 2022 increase of \$124.111 is due to an industrial base capacity expansion to prepare for the increased AUR production need associated with adding hypersonic capability on ZUMWALT Class destroyers (\$80M). Additionally, FY 2022 funding will support systems engineering efforts and upgrades to the weapon control systems for Advanced Capability development efforts that have been shifted from previous years (\$39.3M). These capabilities support the program's Top Level Requirements and improve lethality for the glide body, as well as improving survivability. Additionally, FY22 funding will support quality assurance assessments and testing to ensure the performance of delivered products meets technical requirements. These efforts include Design Engineering, Reliability Availability and Maintainability, Tests, Configuration Management, Supplier Management, and control of measuring equipment and standards (\$4.811M).</p>					
<p>Title: Flight Subsystem</p> <p align="right">Articles:</p> <p>Description: The Flight Subsystem category accommodates all efforts associated with the Missile Body and C-HGB (design, development, fabrication, test and transition to production); development and test of navigation, guidance, and control flight software; Thermal Protection System (TPS) efforts; and Insensitive Munitions testing.</p> <p>FY 2021 Plans: -Designed, developed, fabricated, and tested the Blk 1 C-HGB, featuring a new C-HGB Autonomous Flight Termination System (AFTS) and new thermal batteries and complementary power control avionics.</p> <p>-Developed and refined technical data packages to transition production of prototype Blk 1 C-HGB and associated knowledge to industry partners.</p>	0.000	304.866	545.373	0.000	545.373
	-	-	-	-	-

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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>-The program continued to identify and procure C-HGB hardware necessary to yield three Blk 1 C-HGBs, including one Dedicated Test Article (DTA) and the necessary avionics for one Sandia Hardware-in-the-Loop (HWIL) and one Sandia software test rack with sufficient sparing strategy to obtain these quantities.</p> <p>-Complete the preliminary design of the TI-22 AUR.</p> <p>-Design, develop, fabricate, and test four full Electrical Ground Support Equipment (EGSE) and three Mechanical Ground Support Equipment (MGSE) Blk 1 compatible systems, which are portable, for use as electrical and mechanical checkout testers for Blk 1 C-HGBs.</p> <p>-Completed the technology development booster to be integrated into the FY 2022 JFC-1 test asset.</p> <p>-Completed build, delivery and test of multiple low- to high- fidelity configurations of canisterized AURs to demonstrate missile safety and capability. These tests are necessary to support an FY 2023 deployment for the Army and maintain current schedule to deploy on a navy platform in FY 2025.</p> <p>-Developed the navigation, guidance, and control software including the development of requirements and performance metrics, hardware integration & test, verification & validation testing, and HWIL simulation support.</p> <p>-Procured supporting flight hardware components, including GPS and Small Reentry Inertial Measurement Unit.</p> <p>-Designed, developed, fabricated, and tested common HWILs for flight software development, verification, and validation at Lockheed Martin, Sandia National Laboratories, and Charles Stark Draper Laboratory.</p> <p>-Designed, developed, fabricated, and tested a Modal Test Vehicle (All-Up Round) to determine bending modes and natural frequencies of the AUR to validate models and feed guidance and control algorithm development.</p> <p>-Designed, developed, fabricated, and tested a Missile Integration Laboratory Test Line for electrical, communication, and software integration testing between the missile body and Blk 1 C-HGB.</p> <p>-Developed and fabricated pathfinder engineering units, Insensitive Munition/Hazard Classification (IM/HC) and Basic Safety Series test units, and integration laboratories to facilitate system development and knowledge gain across the Government National Team and Industry partners.</p>					

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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>-Continue to support the Thermal Protection System (TPS) efforts including the fabrication of fiberglass and flight worthy Carbon-Carbon aeroshells to support IM/HC testing and flight experiments.</p> <p>-Began the procurements of Long Lead Time Material (LLTM) to support the development and processing of TPS material for JFC-2 and JFC-3.</p> <p><i>FY 2022 Base Plans:</i></p> <p>-Continue to Mature Navigation, Guidance, and Control flight software from JFC-1 to JFC-2 transitioning from Pad Launch to ground- based platform launch.</p> <p>-Continue AUR integration testing with Weapons Control Systems.</p> <p>-Continue Government National Team efforts to design, develop, fabricate, and test C-HGB and missile body flight articles for Joint Flight Campaign 2, 3, 4, and 5. Efforts are focused on the development and integration of individual missile components including the C-HGB and the missile body, and overall integration of the missile into a single system.</p> <p>-Design, develop, fabrication, and testing of Inert Test Vehicles (ITVs) to support In-Air Launch (IAL) Testing.</p> <p>-Design, develop, fabrication, and testing of a TI-22 All-Up Round Simulator (AURSIM) for Box Launcher integration testing.</p> <p>- LLTM procurements to support AURSIMs for Zumwalt integration testing and ITVs for Underwater Launch (UWL) Testing.</p> <p>-Execute Solid Rocket Motor Static Fire testing, wind tunnel testing, and vacuum chamber testing to validate models and fully characterize performance envelope.</p> <p>-Continue support of flight system software including the development of requirements and performance metrics, hardware integration & test, verification & validation testing, and hardware-in-the-loop simulation support for Blk 1 maturation, and early development for TI-24.</p>					

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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
-Continue Thermal Protection System (TPS) efforts including the development of flight-worthy Carbon-Carbon TPS units to support flight experiments.					
-Continue the development of fiberglass engineering unit and carbon-carbon TPS aero-shells to support IM/HC testing.					
-Continue analytical support for thermo-structural, computational fluid dynamics, roll prescription analysis, modeling & simulation, and flight worthiness analysis, as well as a Design of Experiments to gain a physics-based understanding on constituent TPS materials and processing to select cost-effective materials with reduced processing times.					
-Continue to build, deliver, and test multiple low- to high- fidelity configurations of canisterized AURs to demonstrate missile safety and capability. Execute IM/HC testing for First Stage Solid Rocket Motor Fast Cook-off, C-HGB Fast Cook-off, Net Explosive Weight Quantity Distance, Sympathetic Reaction, and Horizontal Drop testing.					
-Procure multiple canisterized AUR configuration assets to accommodate additional missile safety tests. These tests are necessary to support an FY 2023 prototype deployment for the Army and maintain FY 2025 fielding for the Navy.					
FY 2022 OCO Plans: N/A					
FY 2021 to FY 2022 Increase/Decrease Statement: FY 2022 increase of \$240.507M due to a ramp-up in hardware deliveries to provide Inert Test Vehicles (ITVs) in support of IAL Testing and UWL Testing (\$7.700M), as well as All-Up Round Simulators (AURSIMS) in support of Box Launcher and ZUMWALT Class integration testing (\$6.100M). FY 2022 includes efforts being performed by the Prime contractor including the maturation of flight software from Pad Launch to ground-based Platform Launch capability; the execution of the Technology Insertion (TI) plan, including support for the completion of the TI-22 All-up Round (AUR) final design and commencement of requirements and architecture definition for the TI-24 design; Insensitive Munitions/Hazard Classification testing; Solid Rocket Motor Static Fires and Vacuum chamber testing; the establishment of a second test line for missile integration testing to support design configurations for development and deployment; and the physical build in various stages of completion of					

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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
JFC-2/3/4/5 (\$219.400M). Additionally, Critical C-HGB TPS material characterization efforts will continue with the arrival of long lead materials for testing and analysis and determinations of flight worthiness (\$7.307M).					
<p>Title: Platform Integration</p> <p align="right">Articles:</p> <p>Description: The Platform Integration category accommodates all non-recurring engineering (NRE) efforts associated with CPS payload hosting on SSN Platforms. The DDG 1000 program office is funding NRE efforts with CPS payload hosting on ZUMWALT. This encompasses all effort required to develop and test a launcher system including: modification of and maintaining the IAL Test Facility; conducting in air launcher testing; construction and outfitting of UWL Test Facility to facilitate testing planned in FY 2025; design, develop and test Pier Side Support equipment to on-load and off-load Advanced Payload Modules (APM), All Up Rounds + Canisters (AUR+C) and fired/expended canisters; and host platform system modifications that relate to platform systems and platform integration. This encompasses all effort required to develop and test a weapon control system including: development of prototype hardware and software in support of range based test launches, software and hardware to support mission planning (on- and off-board), and hardware and software to ensure host platform system modifications are made to accommodate CPS requirements. Provides oversight and coordination of WSI efforts that relate to platform systems and platform integration.</p> <p>FY 2021 Plans:</p> <ul style="list-style-type: none"> - Continued to support Non-Recurring Engineering (NRE) efforts required to modify the Block V VIRGINIA Class design to support CPS payload hosting. FY 2021 efforts focused on arrangement reviews, design readiness reviews, the development and submission of specification change proposals, and the development and submission of diagram changes for the VIRGINIA Payload Module. -Initiated construction and outfitting efforts for the Underwater Launch (UWL) Test Facility at NSWC Crane. Utilizing 10 USC 2353 authority, design and construction of the test facility & the launch pit began in early FY 2021 to support critical underwater testing slated for early FY 2025. The test facility construction and outfitting efforts were secured in December 2020 and deferred to FY 2022 and later. -Completed the modification of the IAL Test Facility at The Naval Air Warfare Center Weapons Division (NAWCWD) China Lake for CPS specific needs. FY 2021 efforts included the refurbishment of the Test Missile Tube, design and fabrication of the Launch Test Vehicles, reconfiguration of the control and data acquisition system, procurement and configuration of the simplified air eject system, design and fabrication of the crossflow 	0.000	262.818	500.121	0.000	500.121
	-	-	-	-	-

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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>simulator, design and fabrication of the simplified capsule and APM, and testing of the prototype air eject system.</p> <p>-Designed and developed the Weapon Control System. Delivered prototype hardware and software for integration testing in support of JFC-1 test launch.</p> <p>-Developed algorithms for trajectory generation and the Mission Data Load generator for use in CPS Mission Planning both at geographic combatant commanders, through integration into the Theater Mission Planning System, and onboard platforms as part of the Weapon Control System. Performed requirements refinement, CPS Mission Planning System Requirements Review, and software design, development, and integration. This effort is directly tied to the development of the Weapon Control System listed in the Weapon System Integration (WSI) cost category.</p> <p>-Continue design and development the CPS launcher system, including ejector, canister, closure, and APM.</p> <p>-Manufacturing of long lead material including the APM Upper Support Plate.</p> <p>-Delivered a prototype ejector and canister to the in air launch test site and conduct an initial ejector testing.</p> <p>-Continued to design and develop Pier Side Support Equipment to be used at specified deployment sites to on-load and off-load Advance Payload Modules (APM), All Up Round + Canister (AUR+C), and fired/expended canisters.</p> <p>-Continued to support the initiation and continuation of design, development, and component-level testing for other critical technologies that advance the CPS weapon system toward the eventual accomplishment of the full Navy weapon system requirement on a submerged platform, including the continued refinement of the platform systems design, weapon control maturation and advance payload module (APM) development.</p> <p>FY 2022 Base Plans:</p> <p>-Continue Non-recurring Engineering (NRE) efforts required to modify the Block V VIRGINIA Class design to support CPS payload hosting, the integration of CPS.</p>					

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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
-Resume construction of Underwater Launch Test Facility and outfitting that was deferred from FY21. Facility will be constructed by NAVFAC under 10 USC 2353 authority.					
-Continue design and development of the Weapon Control System.					
-Deliver prototype hardware and software in support of further testing. Evolution of weapon control capabilities supports all platform deployments.					
-Continue Developed algorithms for trajectory generation and the Mission Data Load generator for use in CPS Mission Planning. Both at geographic combatant commanders, through integration into the Theater Mission Planning Center and onboard platforms as part of the Weapon Control System. Performed requirements refinement, CPS Mission Planning System Requirements Review, and software design, development, and integration. This effort is directly tied to the development of the Weapon Control System listed in the Weapon System Integration (WSI) cost category.					
-Continue design and development of the CPS launcher system, including ejector, canister, closure, and Advanced Payload Module (APM). Continue manufacture of material for all elements of the system. Deliver prototype launcher components to in air launch test site and conduct further testing in support of system deployment.					
-Continue design and development and proceed to fabrication of pier side support equipment.					
FY 2022 OCO Plans: N/A					
FY 2021 to FY 2022 Increase/Decrease Statement: Increase of \$237.303M due to the deferral of Underwater Launch (UWL) Test Facility efforts from FY21 to FY22, including UWL construction (\$65.573M) and UWL Test Facility outfitting efforts (\$43.085M); the integration of the CPS Mission Planning capability into the Theater Mission Planning Center (\$8.646M); design and development of the CPS launcher system, including ejector, canister, closure, and Advanced Payload Module (APM), and delivery of prototype launcher components to the in air launch test site; and the conduct of testing in support of deployment on ZUMWALT Class by 2025 and VIRGINIA Class by 2028 (\$118.107M). VIRGINIA Class					

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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
Interface definition efforts are increasing as CPS Weapon System engineering provides more detailed design data (\$1.892M).					
<p>Title: Test & Evaluation</p> <p align="right">Articles:</p> <p>Description: The Testing & Evaluation category provides system level test plans and execution, support for efforts to enhance lethality predictions, development of test execution plans for JFC-2 and JFC-3 and execution of sounding rocket tests in support of advanced capability development. The Test and Evaluation category additionally supports in-air launcher test execution demonstrating platform integration of AUR Canister, APM and Weapon Control System capabilities.</p> <p>FY 2021 Plans:</p> <ul style="list-style-type: none"> -Continued efforts to establish a comprehensive Integration and Test Program that addresses all CPS test activities for component-level, subsystem-level, system-level, interface, integration, environmental, safety, security/cyber, logistics, and flight tests. -Began early launcher tests began in FY 2021 at the IAL test site to support technology development required to meet the operational demonstration schedule for the first rapid prototyping phase of the CPS weapon system Middle Tier Acquisition strategy. -Continued to support test and evaluation efforts for JFC-1, scheduled for Q1 FY 2022. Test Planning Review (TPR) will be completed in FY 2021 upon the determination that all test articles are sufficiently mature to commence detailed test planning (e.g. safety plan, data collection requirements, data management plan, performance predictions, data analysis plan). Execution Readiness Review (XRR) will commence in FY 2021 to evaluate planned test procedures, mission viewing plan, communications plan, data collection plan, data management plan, analysis plan, and go-no go criteria. -Increased sustained terminal area collection capability through the procurement and build-out of data collection hardware including broad open ocean items, vessels & ship support, telemetry sensing data collection equipment along the flight trajectory, radar, and sensor systems to support terminal area data collection and analysis that will enhance lethality predictions. 	0.000	51.772	80.845	0.000	80.845
	-	-	-	-	-

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy		Date: May 2021
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0605518N / <i>CONVENTIONAL PROMPT STRIKE (CPS)</i>	Project (Number/Name) 3334 / <i>Conventional Prompt Strike (CPS)</i>

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>-Continued to support initial requirements and initial test execution planning review for JFC-2 and JFC-3; and test planning, integration efforts, and execution of sounding rockets test in support of advance capability development</p> <p>-Commenced full-scale in-air launch testing at NAWCWD China Lake. FY 2021 in-air launcher testing activities included demonstrating AUR Canister capabilities.</p> <p>FY 2022 Base Plans:</p> <p>-JFC-1 and JFC-2 flight tests will be executed. Test and evaluation (T&E) efforts will support launch operations & test planning to include test equipment, assembly tooling and handling hardware, relevant subcomponent and ground testing and pathfinder and field activity support. Upon test completion, support data collection and analysis. JFC-1, which will be held in Q1 FY2022, will be the first flight test of the integrated AUR (CHGB and 34.5" missile booster). JFC-2, which will be held in Q4 FY 2022, will test the integrated AUR stack and capture performance data of an expanded flight envelope, as well as demonstrate the entire Army system.</p> <p>-Resume launcher tests at the IAL test site to support technology development required to meet the operational demonstration schedule for the first rapid prototyping phase of the CPS weapon system Middle Tier Acquisition strategy.</p> <p>-Support further flight tests and evaluation, including test planning and reviews in support of JFC-3, JFC-4, and JFC-5. Two years in advance of the test event, T&E program will begin requirements phase, followed by initial & detailed planning phase, an execution readiness review, and finally a mission readiness review to ensure aspects of the test are ready to support commencement of test count down.</p> <p>-Continue to increase sustained terminal area collection capability through the procurement and build-out of data collection hardware including broad open ocean items, vessels & ship support, telemetry data collection equipment, radar, and sensor systems to support terminal area data collection and analysis that will enhance lethality predictions.</p> <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement:</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy			Date: May 2021		
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0605518N / CONVENTIONAL PROMPT STRIKE (CPS)	Project (Number/Name) 3334 / Conventional Prompt Strike (CPS)			
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 \$29.073M in FY 2022 due to increased number of test events requiring T&E support efforts. In FY 2022, near-term test events including JFC-1 (\$8.873M), JFC-2 (\$18.300M), JFC-3 (\$1.500M), and JFC-4 (0.400M) have increased efforts in test planning and execution readiness preparation efforts.					
Title: Congressional Add: Neutron radiographic inspection of cartridge and propellant					
	0.000	5.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2021 Plans: Congressional Add for Neutron radiographic inspection of cartridge and propellant. Funding was realigned to NAVAIR as they were the intended recipient of the Congressional Add.					
FY 2022 Base Plans: N/A					
FY 2022 OCO Plans: N/A					
FY 2021 to FY 2022 Increase/Decrease Statement: Congressional add only for FY 2021.					
Title: SBIR					
	0.000	19.110	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2021 Plans: Amount being realigned within Navy in support of SBIR.					
FY 2022 Base Plans: N/A					
FY 2022 OCO Plans: N/A					
FY 2021 to FY 2022 Increase/Decrease Statement: SBIR reduction only in FY 2021.					
Accomplishments/Planned Programs Subtotals					
	0.000	766.637	1,373.521	0.000	1,373.521
C. Other Program Funding Summary (\$ in Millions) N/A					

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy		Date: May 2021
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0605518N / CONVENTIONAL PROMPT STRIKE (CPS)	Project (Number/Name) 3334 / Conventional Prompt Strike (CPS)

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

Remarks

D. Acquisition Strategy

The CPS program is utilizing a phased Middle Tier Acquisition (MTA) approach, as authorized by Section 804 of the Fiscal Year (FY) 2016 National Defense Authorization Act (NDAA) and amended in FY 2017 NDAA (codified at 10 U.S.C. sub sec 2302 note). The CPS acquisition will consist of Phase 1: Rapid Prototyping and Phase 2: Rapid Fielding. The rapid prototyping path of Middle Tier Acquisition provides for the use of innovative technologies to rapidly develop fieldable prototypes to demonstrate new capabilities and meet emerging military needs. Following this guidance, the CPS Rapid Prototyping Phase will demonstrate a hypersonic cold gas launched missile prototype capability. In FY 2021, as part of the Rapid Prototyping Phase, the CPS program will develop the initial prototype missile and launch system. In FY 2022, the CPS program will continue development and commence testing of the missile and launch system to support FY 2023 Army prototype deployment, and Navy platform deployment in FY25 and FY28. Additionally, in FY 2022 CPS will incrementally fund seven All-Up-Rounds by procuring long lead material, with the remainder of the procurements, assembly, integration, and test occurring in FY 2023 and FY 2024. The Navy is updating its Service Cost Position and will provide a report to Congress in Q4 of FY 2021. This estimate will inform the prototype cost and the program's funding requirements. CAPE will also conclude an Independent Cost Estimate in Q4 of FY 2021 for submission to Congress.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy												Date: May 2021			
Appropriation/Budget Activity 1319 / 4				R-1 Program Element (Number/Name) PE 0605518N / CONVENTIONAL PROMPT STRIKE (CPS)				Project (Number/Name) 3334 / Conventional Prompt Strike (CPS)							
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Flight Subsystem	MIPR	US States Army Combat Capabilities Development Com : Picatinny Arsenal, NJ	0.000	0.000		22.660	Oct 2020	0.000		-		0.000	-	-	-
Flight Subsystem	MIPR	US Army Combat Capabilities Aviation & Missile Cen : Huntsville, AL	0.000	0.000		0.163	Oct 2020	13.137	Nov 2021	-		13.137	-	-	-
Flight Subsystem	SS/CPFF	Draper : Boston, MA	0.000	0.000		14.551	Oct 2020	1.784	Nov 2021	-		1.784	-	-	-
Flight Subsystem	C/BA	GSA : Arlington, VA	0.000	0.000		0.180	Oct 2020	0.000		-		0.000	-	-	-
Flight Subsystem	MIPR	Lawrence Livermore National Laboratory : Livermore, CA	0.000	0.000		2.990	Oct 2020	2.030	Dec 2021	-		2.030	-	-	-
Flight Subsystem	SS/CIPIF	Lockheed Martin Corporation : Denver, CO	0.000	0.000		226.361	Oct 2020	459.609	Oct 2021	-		459.609	-	-	-
Flight Subsystem	MIPR	National Security Agency : Not Specified	0.000	0.000		0.138	Oct 2020	0.000		-		0.000	-	-	-
Flight Subsystem	MIPR	Sandia National Laboratory : Albuquerque, NM	0.000	0.000		33.310	Oct 2020	24.184	Dec 2021	-		24.184	-	-	-
Flight Subsystem	MIPR	US Army Space and Missile Defense Command (SMDC) : Redstone Arsenal, AL	0.000	0.000		0.032	Oct 2020	0.036	Oct 2021	-		0.036	-	-	-
Flight Subsystem	MIPR	US Air Force Research Laboratory (USAFRL) : Wright-Patterson Air Force Base, OH	0.000	0.000		0.000		0.134	Oct 2021	-		0.134	-	-	-
Flight Subsystem	C/BA	Dynetics : Hunstville, AL	0.000	0.000		0.000		31.961	Jan 2022	-		31.961	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
1319 / 4				PE 0605518N / CONVENTIONAL PROMPT STRIKE (CPS)					3334 / Conventional Prompt Strike (CPS)						
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Flight Subsystem	C/BA	Southern Research : Not Specified	0.000	0.000		0.000		6.067	Oct 2021	-		6.067	-	-	-
Platform Integration	SS/CPIF	Lockheed Martin Corporation : Denver, CO	0.000	0.000		155.058	Oct 2020	273.164	Jan 2022	-		273.164	-	-	-
Platform Integration	WR	NAVAIR (PMA 281) : Patuxent River, MD	0.000	0.000		12.309	Oct 2020	20.955	Oct 2021	-		20.955	-	-	-
Test and Evaluation	MIPR	Yuma Proving Ground (YPG) : Yuma, AZ	0.000	0.000		0.242	Oct 2020	0.000		-		0.000	-	-	-
Weapon System Integration	MIPR	Air Force Life Cycle Management Center (USAFLECMC) : Wright-Patterson Air Force Base, OH	0.000	0.000		0.145	Oct 2020	0.000		-		0.000	-	-	-
Weapon System Integration	SS/CPFF	DRAPER : Boston, MA	0.000	0.000		8.436	Oct 2020	15.349	Nov 2021	-		15.349	-	-	-
Weapon System Integration	C/CPFF	John Hopkins University/Applied Physics Laboratory : Laurel, MD	0.000	0.000		2.109	Oct 2020	3.541	Oct 2021	-		3.541	-	-	-
Weapon System Integration	MIPR	Lawrence Livermore National Laboratory : Livermore, CA	0.000	0.000		0.786	Oct 2020	3.121	Jan 2022	-		3.121	-	-	-
Weapon System Integration	MIPR	Sandia National Laboratory : Albuquerque, NM	0.000	0.000		4.070	Oct 2020	16.163	Dec 2021	-		16.163	-	-	-
Weapon System Integration	C/CPFF	Lockheed Martin HEAT : Denver, CO	0.000	0.000		0.000		3.775	Jan 2022	-		3.775	-	-	-
Subtotal			0.000	0.000		483.540		875.010		-		875.010	-	-	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy												Date: May 2021			
Appropriation/Budget Activity 1319 / 4				R-1 Program Element (Number/Name) PE 0605518N / CONVENTIONAL PROMPT STRIKE (CPS)					Project (Number/Name) 3334 / Conventional Prompt Strike (CPS)						
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Flight Subsystem	C/CPFF	John Hopkins University/Applied Physics Laboratory : Laurel, MD	0.000	0.000		0.826	Oct 2020	1.590	Oct 2021	-		1.590	-	-	-
Flight Subsystem	WR	NSWC, Crane Division : Crane, IN	0.000	0.000		2.866	Oct 2020	2.563	Oct 2021	-		2.563	-	-	-
Flight Subsystem	WR	NSWC, Dahlgren Division : Dahlgren, VA	0.000	0.000		0.737	Oct 2020	2.178	Oct 2021	-		2.178	-	-	-
Platform Integration	C/CPFF	John Hopkins University/Applied Physics Laboratory : Laurel, MD	0.000	0.000		1.967	Oct 2020	4.003	Oct 2021	-		4.003	-	-	-
Platform Integration	WR	NSWC, Crane Division : Crane, IN	0.000	0.000		11.054	Oct 2020	11.092	Oct 2021	-		11.092	-	-	-
Platform Integration	WR	NSWC, Dahlgren Division : Dahlgren, VA	0.000	0.000		1.426	Oct 2020	1.877	Oct 2021	-		1.877	-	-	-
Platform Integration	WR	NSWC, Indian Head Division : Indian Head, MD	0.000	0.000		0.546	Oct 2020	0.540	Oct 2021	-		0.540	-	-	-
Platform Integration	WR	NUWC, Newport Division : Newport, RI	0.000	0.000		9.837	Oct 2020	15.040	Oct 2021	-		15.040	-	-	-
Platform Integration	Various	PMS 425 : Washington DC	0.000	0.000		5.188	Oct 2020	2.600	Oct 2021	-		2.600	-	-	-
Platform Integration	Various	PMS392 : Washington DC	0.000	0.000		0.100	Oct 2020	0.000	Oct 2021	-		0.000	-	-	-
Platform Integration	Various	PMS450 : Washington DC	0.000	0.000		15.306	Oct 2020	11.000	Oct 2021	-		11.000	-	-	-
Platform Integration	MIPR	Sandia National Laboratory : Albuquerque, NM	0.000	0.000		0.736	Oct 2020	1.127	Dec 2021	-		1.127	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy **Date:** May 2021

Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0605518N / <i>CONVENTIONAL PROMPT STRIKE (CPS)</i>	Project (Number/Name) 3334 / <i>Conventional Prompt Strike (CPS)</i>
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Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Platform Integration	C/CPFF	BAE : Washington DC	0.000	0.000		0.040	Oct 2020	0.206	Oct 2021	-		0.206	-	-	-
Test and Evaluation	WR	NUWC, Newport Division : Newport, RI	0.000	0.000		0.271	Oct 2020	0.554	Oct 2021	-		0.554	-	-	-
Test and Evaluation	MIPR	US Army Space and Missile Defense Command (SMDC) : Redstone Arsenal, AL	0.000	0.000		0.000		0.511	Oct 2021	-		0.511	-	-	-
Test and Evaluation	MIPR	Vandenberg AFB, 30th SW : Vandenberg Air Force Base, CA	0.000	0.000		0.116	Oct 2020	0.000		-		0.000	-	-	-
Weapon System Integration	C/CPFF	BAE SYSTEMS : Falls Church, VA	0.000	0.000		0.253	Oct 2020	0.508	Oct 2021	-		0.508	-	-	-
Weapon System Integration	MIPR	CECOM : Aberdeen Proving Ground, MD	0.000	0.000		0.401	Oct 2020	3.558	Oct 2021	-		3.558	-	-	-
Weapon System Integration	C/CPFF	Emcube : Alexandria, VA	0.000	0.000		0.000		1.000	Oct 2021	-		1.000	-	-	-
Weapon System Integration	C/CPFF	JHU/APL : Laurel, MD	0.000	0.000		5.883	Oct 2020	6.616	Nov 2021	-		6.616	-	-	-
Weapon System Integration	MIPR	Lawrence Livermore National Laboratory : Livermore, CA	0.000	0.000		1.756	Oct 2020	2.456	Jan 2022	-		2.456	-	-	-
Weapon System Integration	SS/CPIF	Lockheed Martin Corporation : Denver, CO	0.000	0.000		44.343	Oct 2020	119.120	Jan 2022	-		119.120	-	-	-
Weapon System Integration	MIPR	NIWCATL : Charleston, SC	0.000	0.000		0.056	Oct 2020	0.000		-		0.000	-	-	-
Weapon System Integration	WR	NSWC, Crane Division : Crane, IN	0.000	0.000		16.540	Oct 2020	29.382	Nov 2021	-		29.382	-	-	-

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Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Weapon System Integration	WR	NSWC, Dahlgren Division : Dahlgren, VA	0.000	0.000		0.053	Oct 2020	0.241	Jan 2022	-		0.241	-	-	-
Weapon System Integration	WR	NSWC, Indian Head Division : Indian Head, MD	0.000	0.000		1.138	Oct 2020	1.153	Nov 2021	-		1.153	-	-	-
Weapon System Integration	WR	NUWC, Newport Division : Newport, RI	0.000	0.000		0.861	Oct 2020	1.856	Nov 2021	-		1.856	-	-	-
Weapon System Integration	C/CPFF	Penn State University / Applied Research Laboratory : Penn State, PA	0.000	0.000		0.826	Oct 2020	0.784	Oct 2021	-		0.784	-	-	-
Weapon System Integration	Various	SPCIO : Washington DC	0.000	0.000		0.750	Oct 2020	0.450	Mar 2022	-		0.450	-	-	-
Weapon System Integration	C/CPFF	Techpride : Blacksburg, VA	0.000	0.000		0.058	Oct 2020	0.058	Oct 2021	-		0.058	-	-	-
Subtotal			0.000	0.000		123.934		222.063		-		222.063	-	-	N/A

Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Platform Integration	C/CPFF	BAE : Falls Church, VA	0.000	0.000		0.449	Oct 2020	0.465	Oct 2021	-		0.465	-	-	-
Platform Integration	SS/IDIQ	Jacobs : Dallas, TX	0.000	0.000		0.833	Oct 2020	1.700	Nov 2021	-		1.700	-	-	-
Platform Integration	WR	Naval Air Warfare Center Weapons Division (China L : China Lake, CA	0.000	0.000		40.109	Oct 2020	83.192	Oct 2021	-		83.192	-	-	-
Platform Integration	WR	NAVFAC : Crane, IN	0.000	0.000		7.587	Oct 2020	73.160	Oct 2021	-		73.160	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
1319 / 4				PE 0605518N / CONVENTIONAL PROMPT STRIKE (CPS)				3334 / Conventional Prompt Strike (CPS)							
Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Platform Integration	WR	NSWC, Crane Division : Crane, IN	0.000	0.000		0.273	Oct 2020	0.000		-		0.000	-	-	-
Test and Evaluation	MIPR	45th Space Wing : Patrick Air Force Base, FL	0.000	0.000		0.000		4.398	Oct 2021	-		4.398	-	-	-
Test and Evaluation	MIPR	Arnold Engineering Development Complex (AEDC) : Arnold Air Force Base, TN	0.000	0.000		1.199	Oct 2020	0.000		-		0.000	-	-	-
Test and Evaluation	WR	Naval Air Force, US Pacific (COMNAVAIRPAC) : San Diego, CA	0.000	0.000		0.164	Oct 2020	0.000		-		0.000	-	-	-
Test and Evaluation	C/CPFF	Hana : Honolulu, HI	0.000	0.000		0.345	Oct 2020	0.564	Feb 2022	-		0.564	-	-	-
Test and Evaluation	C/CPFF	JHU/APL : Laurel, MD	0.000	0.000		1.697	Oct 2020	3.703	Oct 2021	-		3.703	-	-	-
Test and Evaluation	MIPR	Lawrence Livermore National Laboratory : Livermore, CA	0.000	0.000		2.997	Oct 2020	7.017	Oct 2021	-		7.017	-	-	-
Test and Evaluation	SS/CPIF	Lockheed Martin Corporation : Denver, CO	0.000	0.000		11.846	Oct 2020	15.921	Oct 2021	-		15.921	-	-	-
Test and Evaluation	MIPR	NASA Goddard Space Flight Center Wallops Flight Fa : Greenbelt, MD	0.000	0.000		1.369	Oct 2020	1.684	Oct 2021	-		1.684	-	-	-
Test and Evaluation	Various	NAVAIR COMMAND : Patuxent River, MD	0.000	0.000		1.576	Oct 2020	0.000		-		0.000	-	-	-
Test and Evaluation	WR	Naval Air Warfare Center Weapons Division (China L) : China Lake, CA	0.000	0.000		0.000		0.187	Oct 2021	-		0.187	-	-	-

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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test and Evaluation	Sub Allot	NOTU : Cape Canaveral, FL	0.000	0.000		0.121	Oct 2020	0.000		-		0.000	-	-	-
Test and Evaluation	WR	NSWC, Carderock Division : Carderock, MD	0.000	0.000		0.695	Oct 2020	0.000		-		0.000	-	-	-
Test and Evaluation	WR	NSWC, Crane Division : Crane, IN	0.000	0.000		1.240	Oct 2020	3.252	Oct 2021	-		3.252	-	-	-
Test and Evaluation	WR	NSWC, Dahlgren Division : Dahlgren, VA	0.000	0.000		4.375	Oct 2020	22.655	Dec 2021	-		22.655	-	-	-
Test and Evaluation	MIPR	Pacific Missile Range Facility : Hawaii	0.000	0.000		4.976	Oct 2020	0.000		-		0.000	-	-	-
Test and Evaluation	MIPR	Sandia National Laboratory : Albuquerque, NM	0.000	0.000		9.401	Oct 2020	16.269	Oct 2021	-		16.269	-	-	-
Test and Evaluation	WR	Surface Combat Systems Center Wallops (SCSC) : Wallops Island, VA	0.000	0.000		0.142	Oct 2020	0.388	Oct 2021	-		0.388	-	-	-
Test and Evaluation	Various	various : range : Not Specified	0.000	0.000		9.000	Oct 2020	3.742	Oct 2021	-		3.742	-	-	-
Weapon System Integration	MIPR	Missile and Space Intelligence Center (MSIC) : Redstone Arsenal, AL	0.000	0.000		0.420	Oct 2020	0.608	Oct 2021	-		0.608	-	-	-
Weapon System Integration	MIPR	National Air and Space Intelligence Center : Wright-Patterson Air Force Base, OH	0.000	0.000		0.000		0.404	Oct 2021	-		0.404	-	-	-
Weapon System Integration	MIPR	National Ground Intelligence Center (NGIC) : Charlottesville, VA	0.000	0.000		0.000		0.134	Oct 2021	-		0.134	-	-	-

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy **Date:** May 2021

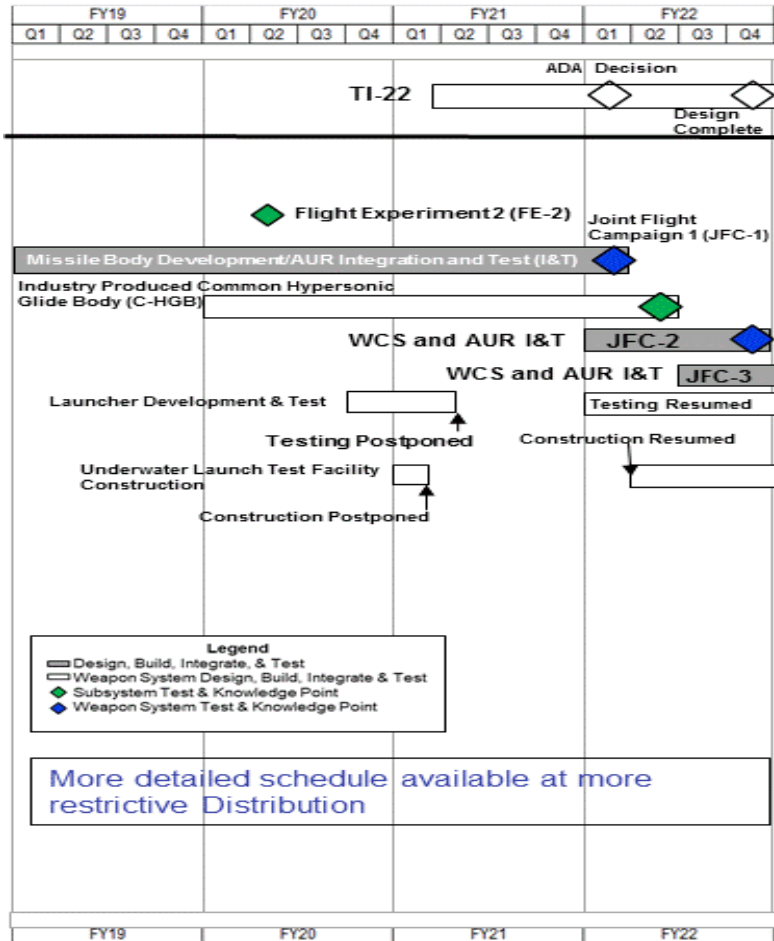
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0605518N / <i>CONVENTIONAL PROMPT STRIKE (CPS)</i>	Project (Number/Name) 3334 / <i>Conventional Prompt Strike (CPS)</i>
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Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Weapon System Integration	WR	NSWC, Carderock Division : Carderock, MD	0.000	0.000		0.039	Oct 2020	0.319	Oct 2021	-		0.319	-	-	-
Weapon System Integration	WR	NSWC, Dahlgren Division : Dahlgren, VA	0.000	0.000		4.522	Oct 2020	8.415	Dec 2021	-		8.415	-	-	-
Subtotal			0.000	0.000		105.375		248.177		-		248.177	-	-	N/A

Management Services (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Flight Subsystem	C/CPFF	Peraton : Herndon, VA	0.000	0.000		0.052	Oct 2020	0.100	Oct 2021	-		0.100	-	-	-
Weapon System Integration	C/CPFF	EMCUBE : Alexandria, VA	0.000	0.000		0.160	Oct 2020	0.000		-		0.000	-	-	-
Weapon System Integration	C/CPFF	JHU/APL : Laurel, MD	0.000	0.000		2.009	Oct 2020	1.225	Oct 2021	-		1.225	-	-	-
Weapon System Integration	SS/CPIF	Lockheed Martin Corporation : Denver, CO	0.000	0.000		14.028	Oct 2020	15.182	Feb 2022	-		15.182	-	-	-
Weapon System Integration	WR	NSWC, Crane Division : Crane, IN	0.000	0.000		9.809	Oct 2020	6.263	Oct 2021	-		6.263	-	-	-
Weapon System Integration	C/CPFF	Delta Resources, INC (VTG) : Chantilly, VA	0.000	0.000		3.620	Oct 2020	5.501	Mar 2022	-		5.501	-	-	-
Congressional Add: Neutron radiographic inspection of cartridge and propellant	Sub Allot	NAVAIR : Patuxent River, MD	0.000	0.000		5.000	Jul 2021	0.000		-		0.000	-	-	-
SBIR	Various	various : various	0.000	0.000		19.110	Jul 2021	0.000		-		0.000	-	-	-
Subtotal			0.000	0.000		53.788		28.271		-		28.271	-	-	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Navy		Date: May 2021
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0605518N / <i>CONVENTIONAL PROMPT STRIKE (CPS)</i>	Project (Number/Name) 3334 / <i>Conventional Prompt Strike (CPS)</i>



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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Navy		Date: May 2021
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0605518N / <i>CONVENTIONAL PROMPT STRIKE (CPS)</i>	Project (Number/Name) 3334 / <i>Conventional Prompt Strike (CPS)</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3334				
TI-22	2	2021	4	2022
TI-22 ADA Decision	1	2022	1	2022
TI-22 Design Complete	4	2022	4	2022
FE-2	2	2020	2	2020
Missile Body Development/AUR I&T	1	2020	1	2022
JFC-1	1	2022	1	2022
Industry Produced Common Hypersonic Glide Body (C-HGB)	1	2020	2	2022
WCS & AUR I&T Build 2	1	2022	4	2022
JFC-2	4	2022	4	2022
WCS & AUR I&T Build 3	3	2022	4	2022
Launcher Development & Test	4	2020	2	2021
Launcher Development & Test Resumed	1	2022	4	2022
Underwater Launch Test Facility Construction	1	2021	2	2021