Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*					R-1 Program Element (Number/Name) PE 0604659N *I Precision Strike Weapons Development Program*							
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	57.566	33.719	5.976	5.667	-	5.667	5.577	5.627	5.682	5.801	Continuing	Continuing
3378: *Next Generation Strike Weapons*	45.653	2.702	2.932	2.886	-	2.886	2.905	2.948	2.955	3.015	Continuing	Continuing
3409: *Advanced Aerial Refueling Store*	4.608	6.543	2.216	2.230	-	2.230	2.239	2.240	2.280	2.328	Continuing	Continuing
3411: *CAD/PAD Digital Twin Modeling*	1.513	0.340	0.828	0.551	-	0.551	0.433	0.439	0.447	0.458	Continuing	Continuing
9999: *Congressional Adds*	5.792	24.134	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	29.926

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 570

A. Mission Description and Budget Item Justification

Initial and continuing development of strike weapons consisting of armament, munitions, and weapon subsystems to allow for horizontal integration among current and future weapon system capabilities to provide enhanced anti-surface and land strike capabilities in a demanding Anti-Access Area-Denial environment. This program provides for the development of weapon and weapon system technologies to address future requirements for enhanced and alternative weapon system capability requirements that include selectable output weapons, low collateral damage weapons, precision lethality weapons, area weapons, alternative warhead technology, Insensitive Munitions (IM), scaled munitions, Department of Defense (DoD) fuzing systems, sensors, extended range weapons, precision guided training rounds, aerial refueling, fuel containment, and technologies associated with cartridge actuated devices/propellant actuated devices.

PROJ 3378: Next Generation Strike Weapon (NGSW) Family of Systems (FoS) based on the NGLAW Analysis of Alternatives (AoA) completed with results briefed out to OSD. NGSW FoS more accurately reflects the surface/submarine capabilities for land-attack and maritime strike that the AoA results identified for the most capable and economic solutions fielding incrementally between 2020 and 2032. NGSW FoS Increments I and II will leverage mature as well as emerging technologies vice developing a single weapon. NGSW funding will maintain the security environment (enclave), facility, and study team to enable continuing analysis efforts across the FoS. The NGSW enclave ensures the Navy is able to maintain the most up to date modeled threats and validate the effectiveness of current US weapons, offensive and defensive, as well as future systems and concepts developed by industry and other DoD organizations. Maintaining this capability allows expedited analysis of systems and fully informed investment decisions.

PROJ 3409: Development and fielding of the Advanced Aerial Refueling Store (AARS). The AARS effort is the result of an Operation Navy (OPNAV) Future Readiness Initiative (FRI) award. The AARS will package new technologies into this upgraded Aerial Refueling Store (ARS) to support both manned and unmanned (automated) aerial refueling from platforms such as F/A-18 and MQ-25. In doing so, the AARS will facilitate tanking operations to both manned and unmanned receivers and improve safety of flight by stabilizing the aerial refueling drogue and incorporating better health and diagnostics. These improvements will be accomplished by providing updated store health message content and additional health monitoring Built-In Tests (BITS) that will be sent over the 1553 data-bus. The AARS will also add receiver and

drogue position data for situational awareness and support autonomous receiver engagements of unmanned systems. This in turn will increase reliability and decrease aerial refueling mishaps, providing a significant safety and readiness improvement when compared with the current ARS.

PROJ 3411: Cartridge Actuated Device / Propellant Actuated Device (CAD/PAD) Digital Twin Modeling to develop and validate models and algorithms for the Department of the Navy (DoN). The development effort is specific to Navy Air Crew Common Ejection Seats (NACES). These models will also be used to support initial service life decisions, service life extension decisions, and address obsolescence.

PROJ 3467: This project will design, develop, produce and deploy a Nuclear-Armed Sea-Launched Cruise Missile (SLCM-N). SLCM-N is scoped to deliver an integrated flight system and to continue to advance SLCM-N capabilities to fully address requirements identified in the 2018 Nuclear Posture Review, SLCM-N Initial Capabilities Document, and examined in the Analysis of Alternatives to mitigate a lack of a sea based tactical nuclear based system.

PROJ 9999: C762 Neutron radiography (N-ray) is a critical nondestructive inspection technique used to complement X-ray. N-ray and X-ray are used to detect defects and proper assembly of a variety of energetics, including Cartridge and Propellant Actuated Devices (CAD/PADs). The US Navy intends to continue to employ neutron radiographic inspection to support energetics programs for the foreseeable future.
C880: SLCM-N This project will conduct system development and demonstration of nuclear-capable sea-launched cruise missile.

JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under ADVANCED COMPONENT DEVELOPMENT AND PROTOTYPES because it includes all efforts necessary to evaluate integrated technologies, representative models or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary ($ in Millions)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Previous President's Budget	34.824	5.976	3.556	-	3.556
Current President's Budget	33.719	5.976	5.667	-	5.667
Total Adjustments	-1.105	0.000	2.111	-	2.111
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.105	0.000			
• Program Adjustments	0.000	0.000	2.115	-	2.115
• Rate/Misc Adjustments	0.000	0.000	-0.004	-	-0.004

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Project: 9999: *Congressional Adds*		

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 Program Element (Number/Name)** PE 0604659N *I Precision Strike Weapons Development Program*

Congressional Add Details ($ in Millions, and Includes General Reductions)	FY 2023	FY 2024
Congressional Add: *SLCM-N*	24.134	0.000
Congressional Add Subtotals for Project: 9999	24.134	0.000
Congressional Add Totals for all Projects	24.134	0.000

Change Summary Explanation

No significant changes in FY 2025 from previous President's Budget

PROJ 3378: NGSW
Removed NGSW FY 2022 Threat Update
Added NGSW FY 2028 Threat Update Q1 2028-Q4 2028
NGSW Threat Updates Mission Modeling changed from Q1 2021-Q4 2027 to Q1 2022-Q4 2028
NGSW Threat Updates Modeling Updates changed from Q1 2021-Q4 2027 to Q1 2022-Q4 2028
Removed Technology Investment Enablers for INC I / INC II Capabilities Q4 2021-Q4 2021
Study Opportunity changed from Q1 2021-Q42027 to Q1 2022-Q4 2028
Removed Weapon/Platform Tradespace Analysis Q1 2021-Q4 2021
Removed NGSW AoA Update
Removed FY 2022 Security and HW Update
Removed FY 2022 Info Update
FY 2023 Security and HW Update changed from Q2 2023-Q2 2023 to Q2 2023-Q3 2023
FY 2023 Info Update changed from Q3 2023-Q3 2023 to Q3 2023-Q4 2023
FY 2024 Security and HW Update Q2 2024-Q2 2024 to Q2 2024-Q3 2024
FY 2024 Info Update Q3 2024-Q3 2024 to Q3 2024-Q4 2024
FY 2025 Security and HW Update Q2 2025-Q2 2025 to Q2 2025 Q3 2025
FY 2025 Info Update Q3 2025-Q3 2025 to Q3 2025-Q4 2025
FY 2026 Security and HW Update Q2 2026-Q2 2026 to Q2 2026-Q3 2026
FY 2026 Info Update Q3 2026-Q3 2026 to Q3 2026 Q4 2026
FY 2027 Security and HW Update Q2 2027-Q2 2027 to Q2 2027-Q3 2027
FY 2027 Info Update Q3 2027-Q3 2027 to Q3 2027-Q4 2027
Added FY 2028 Security and HW Update Q2 2028-Q3 2028
Added FY 2028 Info Update Q3 2028-Q4 2028

Exhibit R-2, RDT&E Budget Item Justification: PB 2025 Navy	Date: March 2024
Appropriation/Budget Activity 1319: *Research, Development, Test & Evaluation, Navy I* BA 4: *Advanced Component Development & Prototypes (ACD&P)*	**R-1 Program Element (Number/Name)** PE 0604659N *I Precision Strike Weapons Development Program*

PROJ 3409: $2.230 million added to FY 2025 ($11.317 million across FYDP) for AARS development wholeness and support development of future modifications to Carrier Airwing ARS for MQ-25 and the Airwing of The Future (AWOTF) including improving optical automated systems for manned/unmanned CVW-based air to air refueling and developing optical/visual reference systems for unmanned-to-unmanned CVW-based air to air refueling.

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy											Date: March 2024	
Appropriation/Budget Activity 1319 / 4					R-1 Program Element (Number/Name) PE 0604659N / *Precision Strike Weapons Development Program*				Project (Number/Name) 3378 / *Next Generation Strike Weapons*			
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**
3378: *Next Generation Strike Weapons*	45.653	2.702	2.932	2.886	-	2.886	2.905	2.948	2.955	3.015	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 570

A. Mission Description and Budget Item Justification

Funding is provided for the Next Generation Strike Weapon (NGSW) Family of Systems (FoS) based on the NGLAW Analysis of Alternatives (AoA) completed with results briefed out to OSD. NGSW FoS more accurately reflects the surface/submarine capabilities for land-attack and maritime strike that the AoA results identified for the most capable and economic solutions fielding incrementally between 2020 and 2032. NGSW FoS Increments I and II will leverage mature as well as emerging technologies vice developing a single weapon. NGSW funding will maintain the security environment (enclave), facility, and study team to enable continuing analysis efforts across the FoS. The NGSW enclave ensures the Navy is able to maintain the most up to date modeled threats and validate the effectiveness of current US weapons, offensive and defensive, as well as future systems and concepts developed by industry and other DoD organizations. Maintaining this capability allows expedited analysis of systems and fully informed investment decisions. Further funding supports investment for technologies which enable Increment II capabilities (additional details are held at a higher classification).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	**FY 2023**	**FY 2024**	**FY 2025 Base**	**FY 2025 OCO**	**FY 2025 Total**
Title: Next Generation Strike Weapon (NGSW)	2.702	2.932	2.886	0.000	2.886
Articles:	-	-	-	-	-
FY 2024 Plans: Continue annual security, IT and Decision Support System updates for latest threat data, launch platform (offensive and defensive) capabilities. Augment Multi-domain assessment of dynamic US capabilities, mission integration, and lifecycle cost estimate. Generate Course of Actions and corresponding warfighting tradespace analytical relationships of existing and future warfighting capabilities and ultimately generate and recommend potential ways to better utilize current force structures or invest more judiciously in future capabilities over time. Focus mainly on the inclusion and integration of potential uncrewed US assets into the analytical trade space as well as the value propositions of these investments over multiple geographical scenarios and time epocs.					
FY 2025 Base Plans: Continue annual security, IT and Decision Support System updates for latest threat data, launch platform (offensive and defensive) capabilities. Augment Multi-domain assessment of dynamic US capabilities, mission integration, and lifecycle					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3378 / *Next Generation Strike Weapons*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
cost estimate. Incorporate USN Ship defense capabilities. Generate Course of Actions and corresponding warfighting tradespace analytical relationships of existing and future warfighting capabilities and ultimately generate and recommend potential ways to better utilize current force structures or invest more judiciously in future capabilities over time. Focus mainly on the inclusion and integration of potential uncrewed US assets into the analytical trade space as well as the value propositions of these investments over multiple geographical scenarios and time epochs. ***FY 2025 OCO Plans:*** N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** Decrease from FY 2024 to FY 2025 due to reduction in NSMA support.					
Accomplishments/Planned Programs Subtotals	2.702	2.932	2.886	0.000	2.886

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

NGSW FoS more accurately reflects the multi-domain capabilities for land-attack and maritime strike that the NGLAW AoA results identified for the most capable and economic solutions fielding incrementally between 2020 and 2032. NGSW FoS Increments I and II will leverage mature as well as emerging technologies vice developing a single weapon. NGSW funding will maintain the security environment (enclave), facility, and study team to enable continuing analysis efforts across the FoS. The NGSW enclave ensures the Navy is able to maintain the most up to date modeled threats and validate the effectiveness of current US weapons, offensive and defensive, as well as future systems and concepts developed by industry and other DoD organizations. Maintaining the enclave allows expedited analysis of systems and fully informed investment decisions.

NGSW FoS funding will support Increment II development of technologies to enable capabilities identified in the NGLAW AoA for integration in future systems. Additional details are held at a higher classification.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604659N / *Precision Strike Weapons Development Program*	Project (Number/Name) 3378 / *Next Generation Strike Weapons*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
INC II Technologies	C/CPFF	TBD : TBD	1.994	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
FMB withhold	TBD	TBD : TBD	10.900	0.000		0.000		0.000		-		0.000	0.000	10.900	-
		Subtotal	12.894	0.000		0.000		0.000		-		0.000	Continuing	Continuing	N/A

Remarks

Development of technologies/components to support NGSW Increment II capabilities for integration in future systems. Additional details are held at a higher classification.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Development Support	WR	NAWC-WD : China Lake, CA	2.475	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Development Support- AIR 4.0M	WR	NAWC-AD : Patuxent River, MD	3.249	0.017	Jan 2023	0.044	Jan 2024	0.045	Jan 2025	-		0.045	Continuing	Continuing	Continuing
Development Support	SS/CPFF	JHU/APL : Laurel, MD	12.304	1.369	Dec 2022	0.701	Nov 2023	0.715	Nov 2024	-		0.715	Continuing	Continuing	Continuing
Weapons Control System	WR	NSWC-DD : Dahlgren, VA	0.050	0.000		0.000		0.000		-		0.000	0.000	0.050	Continuing
Development Support	WR	NSMA : JBAB, DC	12.895	1.264	Feb 2023	2.093	Feb 2024	2.030	Feb 2025	-		2.030	0.000	18.282	Continuing
Development Support	MIPR	NRO : Chantilly, VA	0.569	0.000		0.000		0.000		-		0.000	0.000	0.569	Continuing
Development Support	WR	NSWC-NPT : Newport, RI	0.050	0.000		0.000		0.000		-		0.000	0.000	0.050	Continuing
Development Support	C/CPFF	SSP : WNY, DC	0.700	0.000		0.000		0.000		-		0.000	0.000	0.700	-
		Subtotal	32.292	2.650		2.838		2.790		-		2.790	Continuing	Continuing	N/A

Remarks

Annual enclave updates, annual DSS updates, multi-domain assessment, mission integration, support OASUW analysis, conduct SLCM-N AoA study and initiate update to previous NGLAW AoA.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3378 / *Next Generation Strike Weapons*

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Management Support	WR	NAWC-AD : Patuxent River, MD	0.467	0.052	Feb 2023	0.094	Feb 2024	0.096	Feb 2025	-		0.096	Continuing	Continuing	Continuing
		Subtotal	0.467	0.052		0.094		0.096		-		0.096	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	45.653	2.702		2.932		2.886		-		2.886	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3378 / *Next Generation Strike Weapons*

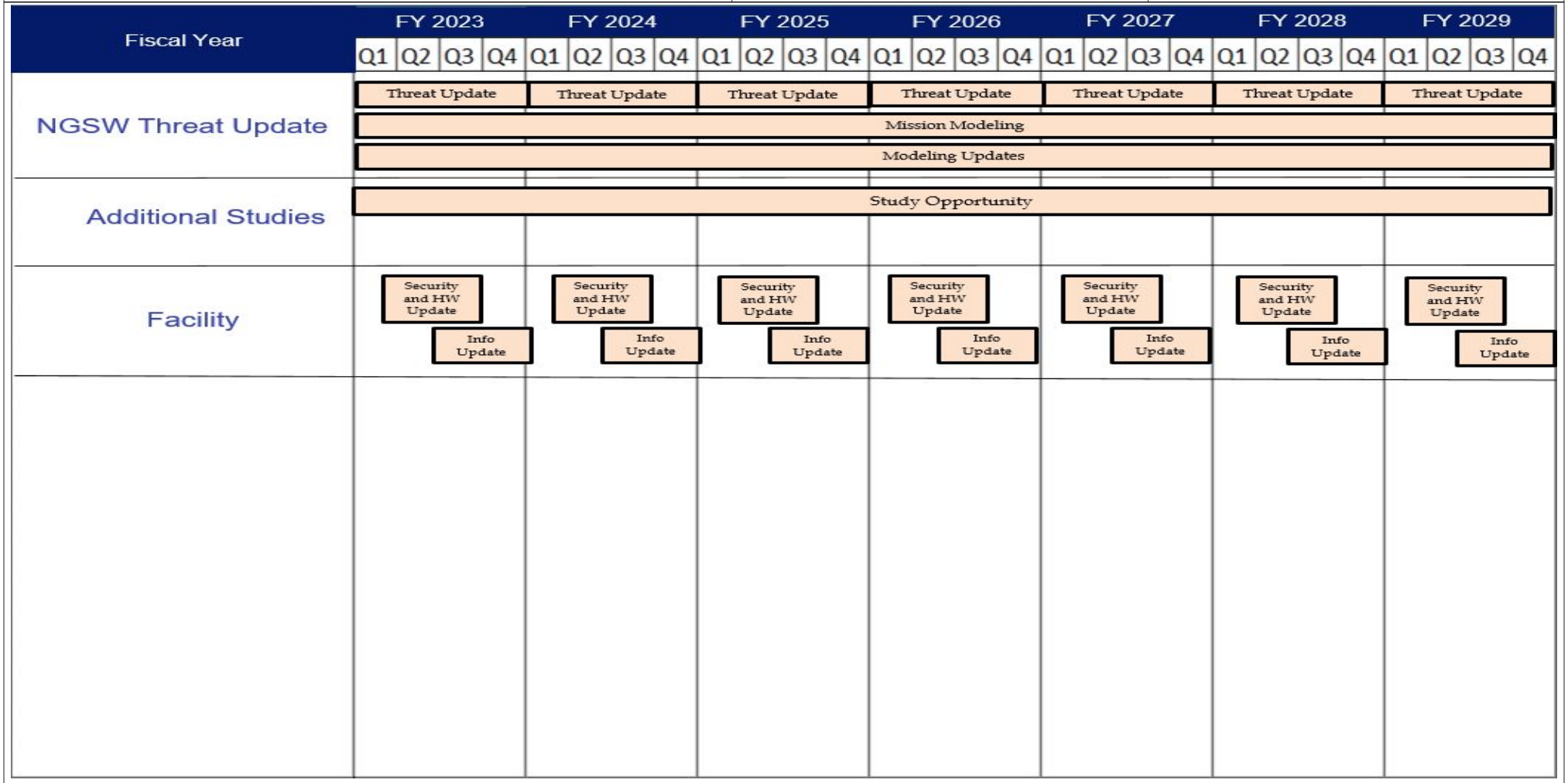

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3378 / *Next Generation Strike Weapons*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3378				
NGSW Threat Updates: NGSW FY 2023 Threat Update	1	2023	4	2023
NGSW Threat Updates: NGSW FY 2024 Threat Update	1	2024	4	2024
NGSW Threat Updates: NGSW FY 2025 Threat Update	1	2025	4	2025
NGSW Threat Updates: NGSW FY 2026 Threat Update	1	2026	4	2026
NGSW Threat Updates: NGSW FY 2027 Threat Update	1	2027	4	2027
NGSW Threat Updates: NGSW FY 2028 Threat Update	1	2028	4	2028
NGSW Threat Updates: NGSW FY 2029 Threat Update	1	2029	4	2029
NGSW Threat Updates: NGSW Threat Updates Mission Modeling	1	2023	4	2029
NGSW Threat Updates: NGSW Threat Updates Modeling Updates	1	2023	4	2029
Additional Studies: Study Opportunity	1	2023	4	2029
Facility: FY 2023 Security and HW Update	2	2023	3	2023
Facility: FY 2023 Info Update	3	2023	4	2023
Facility: FY 2024 Security and HW Update	2	2024	3	2024
Facility: FY 2024 Info Update	3	2024	4	2024
Facility: FY 2025 Security and HW Update	2	2025	3	2025
Facility: FY 2025 Info Update	3	2025	4	2025
Facility: FY 2026 Security and HW Update	2	2026	3	2026
Facility: FY 2026 Info Update	3	2026	4	2026
Facility: FY 2027 Security and HW Update	2	2027	3	2027
Facility: FY 2027 Info Update	3	2027	4	2027
Facility: FY 2028 Security and HW Update	2	2028	3	2028

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3378 / *Next Generation Strike Weapons*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Facility: FY 2028 Info Update	3	2028	4	2028
Facility: FY 2029 Security and HW Update	2	2029	3	2029
Facility: FY 2029 Info Update	3	2029	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604659N / *Precision Strike Weapons Development Program*	Project (Number/Name) 3409 / *Advanced Aerial Refueling Store*	

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
3409: *Advanced Aerial Refueling Store*	4.608	6.543	2.216	2.230	-	2.230	2.239	2.240	2.280	2.328	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Advanced Aerial Refueling Store (AARS) is a collection of modifications to individual Aerial Refueling Store (ARS) components that will improve performance and readiness. The ARS updates will package new technologies into the existing store that will support both manned and unmanned (automated) aerial refueling from platforms such as the F/A-18 and MQ-25. These technologies include drogue stabilization, drogue positioning sensors, advanced health and diagnostic capability and real time receiver situational awareness for the unmanned mission operator. These updates will increase safety of flight, facilitate unmanned tanking operations to both manned and unmanned receivers and improve overall ARS reliability.

The Digital Controller Upgrade (DCU) with Optical Reference System (ORS) is a hardware and software update to existing components which will provide increased flight safety through monitoring/diagnostic capabilities and enhanced situational awareness to reduce mission aborts. Drogue Stabilization incorporates hardware and software updates to improve the Aerial Refueling Stores ability to hold the drogue in position for refueling actions, and also improve the ability for the receiving platform to maneuver into position for refueling which decreases the risk of refueling mishaps, reduces mission aborts which improves operational efficiency and safety. Hydraulic System Improvements will update hardware to increase hydraulic efficiency by eliminating high failure rate components, improving fuel offload and reducing power demands on the Ram Air Turbine (RAT).

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: Advanced Aerial Refueling Store	6.543	2.216	2.230	0.000	2.230
Articles:	-	-	-	-	-
FY 2024 Plans: FY 2024 funding will continue the DCU development of the existing Aerial Refueling Stores and begins Hydraulic System Improvements Development. Funding provided for the development includes surrogate flight testing of the DCU and the continuation of software and power supply development and prototyping.					
FY 2025 Base Plans: FY 2025 funding will continue Hydraulic System Improvements Development and begin ORS software/hardware development. Funding will provide for the development includes surrogate flight testing.					
FY 2025 OCO Plans:					

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3409 / *Advanced Aerial Refueling Store*

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
N/A ***FY 2024 to FY 2025 Increase/Decrease Statement:*** The increase of $0.014 million from FY 2024 to FY 2025 is attributed to the increase in effort on the ORS development.					
Accomplishments/Planned Programs Subtotals	6.543	2.216	2.230	0.000	2.230

C. Other Program Funding Summary ($ in Millions)

Line Item	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
• APN/0720: *War Consumables*	40.261	44.632	43.604	-	43.604	49.926	50.576	51.054	51.964	Continuing	Continuing

Remarks

D. Acquisition Strategy

The Advanced Aerial Refueling Store (AARS) development program will mature and integrate modifications to improve the existing Aerial Refueling Store (ARS). The Advanced Aerial Refueling Store (AARS) program will develop, prototype and test the next generation Aerial Refueling Store (ARS) utilizing a hybrid program structure to capitalize on existing technologies that can be incorporated into the existing ARS to improve reliability and readiness while also increasing safety during refueling. The AARS technologies will be fielded as a series of individual modifications to the ARS.

The ARS improvement program will center on the Digital Controller Upgrade (DCU) and Optical Reference System (ORS). The DCU utilizes government owned software and hardware to command and control the refueling store. The remainder of the AARS upgrades will be built around this government owned DCU. Based on current technology assessments, the program anticipates incorporating an Optical Reference System into the DCU to improve performance and reduce risk during refueling. Additional technologies that will be evaluated include drogue stabilization sensors, positioning, improved health and diagnostics and real time receiver situational awareness for unmanned mission operators.

The program will use regular technical interchanges to coordinate with F/A-18 and MQ-25 platforms to maximize effectiveness of the technology upgrades across both manned and unmanned environments. Government owned technical data package will be available for full and open competition leading to contract award.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3409 / *Advanced Aerial Refueling Store*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Digital Controller Upgrade Dev & Int	SS/CPFF	CTSi : Hollywood, MD	3.000	3.736	Dec 2022	0.458	Nov 2023	0.000		-		0.000	0.000	7.194	7.194
Government Systems Engineering	WR	NAWCAD : Patuxent River, MD	0.608	0.807	Jan 2023	0.300	Nov 2023	0.585	Nov 2024	-		0.585	Continuing	Continuing	Continuing
Hydraulic System Improvements Developmen	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.458	Nov 2023	0.350	Feb 2025	-		0.350	Continuing	Continuing	Continuing
Drogue Stabilization Development	SS/CPFF	TBD : TBD	1.000	0.000		0.000		0.095	Feb 2025	-		0.095	1.655	2.750	2.750
Flight Test OTA	SS/FFP	Calspan : Buffalo, NY	0.000	1.000	Apr 2023	0.800	Feb 2024	0.000		-		0.000	Continuing	Continuing	Continuing
ORS Development	SS/CPFF	CTSi : Hollywood, MD	0.000	0.000		0.000		0.200	Feb 2025	-		0.200	Continuing	Continuing	Continuing
		Subtotal	4.608	5.543		2.016		1.230		-		1.230	Continuing	Continuing	N/A

Remarks

Government system engineering increases from FY 2024 to FY 2025 for ORS SW/HW development and flight tests.

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	WR	NAWCAD : Patuxent River, MD	0.000	0.333	Jan 2023	0.200	Nov 2023	0.333	Nov 2024	-		0.333	Continuing	Continuing	Continuing
Developmental Test & Evaluation (DT&E)	SS/CPFF	CTSi : Hollywood, MD	0.000	0.667	Dec 2022	0.000		0.667	Jun 2025	-		0.667	Continuing	Continuing	Continuing
		Subtotal	0.000	1.000		0.200		1.000		-		1.000	Continuing	Continuing	N/A

Remarks

FY 2025 increase in Test and Evaluation is to support required ORS testing.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604659N / *Precision Strike Weapons Development Program*	Project (Number/Name) 3409 / *Advanced Aerial Refueling Store*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	4.608	6.543		2.216		2.230		-		2.230	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3409 / *Advanced Aerial Refueling Store*

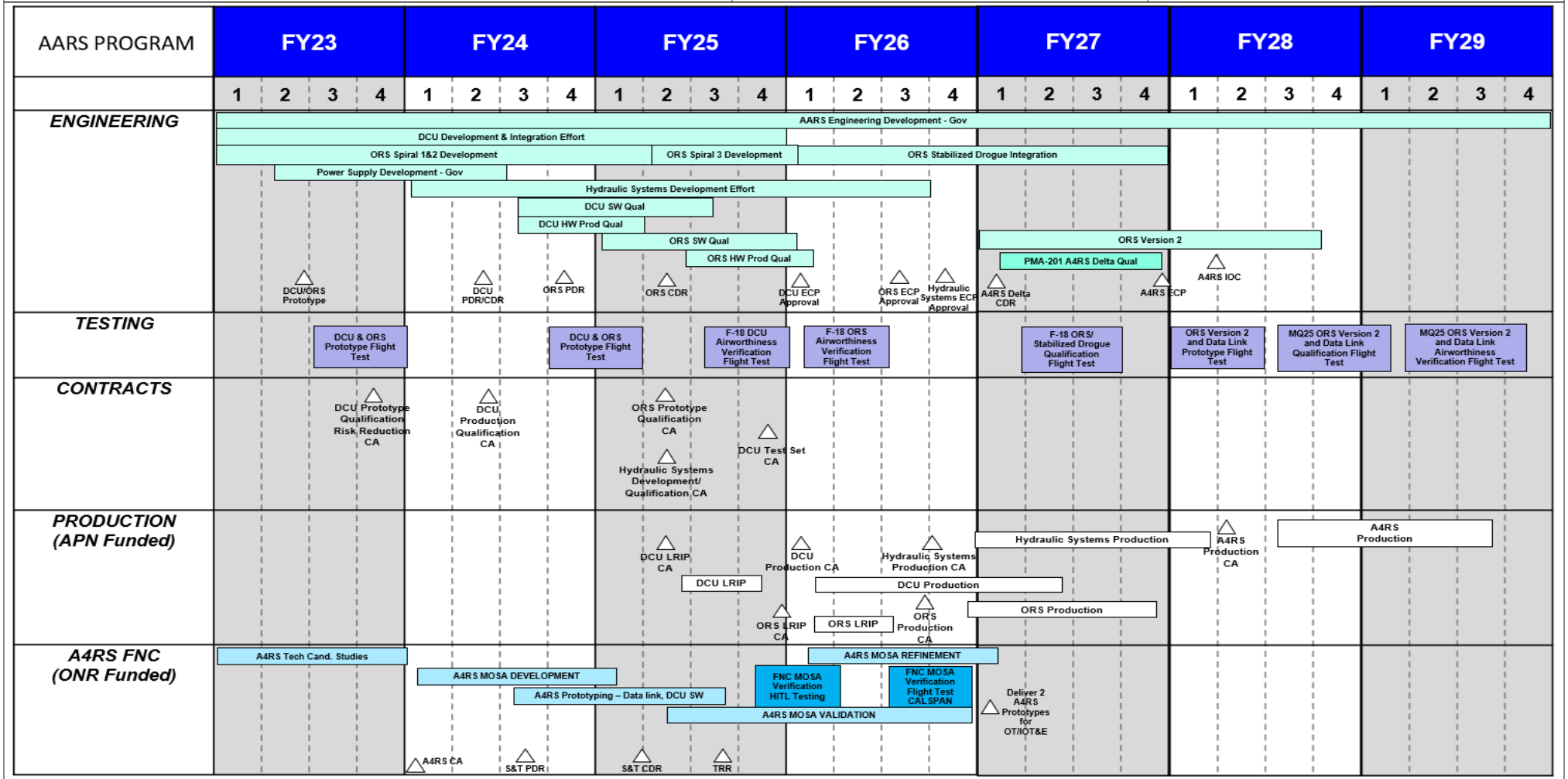

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3409 / *Advanced Aerial Refueling Store*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Proj 3409				
AARS Development: AARS Engineering Development - Gov	1	2023	4	2029
AARS Development: DCU Development & Integration Effort	1	2023	4	2025
AARS Development: ORS Software Spiral 1&2 Development	1	2023	2	2025
AARS Development: ORS Software Spiral 3 Development	2	2025	1	2026
AARS Development: ORS Stabilized Drogue Integration	1	2026	4	2027
AARS Development: Power Supply Development - Gov	2	2023	3	2024
AARS Development: Hydraulic Systems Development Effort	1	2024	3	2026
AARS Development: DCU Software Qualification	3	2024	3	2025
AARS Development: DCU Hardware Production Qualification	3	2024	1	2025
AARS Development: ORS Software Qualification	1	2025	1	2026
AARS Development: ORS Hardware Production Qualification	2	2025	1	2026
AARS Development: ORS Version 2	1	2027	4	2028
AARS Development: PMA-201 A4RS Delta Qualification	1	2027	4	2027
AARS Development: DCU/ORS Prototype	2	2023	2	2023
AARS Development: DCU PDR/CDR	2	2024	2	2024
AARS Development: ORS PDR	4	2024	4	2024
AARS Development: ORS CDR	2	2025	2	2025
AARS Development: DCU ECP Approval	1	2026	1	2026
AARS Development: ORS ECP Approval	3	2026	3	2026
AARS Development: Hydraulic Systems ECP Approval	4	2026	4	2026
AARS Development: A4RS Delta CDR	1	2027	1	2027

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3409 / *Advanced Aerial Refueling Store*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
AARS Development: A4RS ECP	4	2027	4	2027
AARS Development: A4RS IOC	1	2028	1	2028
Testing: DCU & ORS Prototype Flight Test 1	3	2023	1	2024
Testing: DCU & ORS Prototype Flight Test 2	4	2024	1	2025
Testing: F-18 DCU Airworthiness Verification Flight Test	3	2025	1	2026
Testing: F-18 ORS Airworthiness Verification Flight Test	1	2026	3	2026
Testing: F-18 ORS/Stabilized Drogue Qualification Flight Test	1	2027	3	2027
Testing: ORS Version 2 & Data Link Prototype Flight Test	1	2028	2	2028
Testing: MQ25 ORS Version 2 & Data Link Qualification Flight Test	3	2028	1	2029
Testing: MQ25 ORS Version 2 & Data Link Airworthiness Verification Flight Test	1	2029	4	2029
Contracts: DCU Prototype Qualification Risk Reduction CA	4	2023	4	2023
Contracts: DCU Production Qualification CA	2	2024	2	2024
Contracts: ORS Prototype Qualification CA	2	2025	2	2025
Contracts: Hydraulic Systems Development/Qualification CA	2	2025	2	2025
Contracts: DCU Test Set CA	4	2025	4	2025
Production (APN Funded): DCU LRIP CA	2	2025	2	2025
Production (APN Funded): DCU LRIP	2	2025	4	2025
Production (APN Funded): DCU Production CA	1	2026	1	2026
Production (APN Funded): DCU Production	1	2026	2	2027
Production (APN Funded): ORS LRIP CA	4	2025	4	2025
Production (APN Funded): ORS LRIP	1	2026	3	2026
Production (APN Funded): ORS Production CA	3	2026	3	2026
Production (APN Funded): ORS Production	4	2026	4	2027
Production (APN Funded): Hydraulic Systems Production CA	4	2026	4	2026
Production (APN Funded): Hydraulic Systems Production	4	2026	1	2028

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3409 / *Advanced Aerial Refueling Store*

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
Production (APN Funded): A4RS Production CA	2	2028	2	2028
Production (APN Funded): A4RS Production	3	2028	3	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604659N / *Precision Strike Weapons Development Program*	Project (Number/Name) 3411 / *CAD/PAD Digital Twin Modeling*	

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
3411: *CAD/PAD Digital Twin Modeling*	1.513	0.340	0.828	0.551	-	0.551	0.433	0.439	0.447	0.458	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Cartridge Actuated Devices/ Propellant Actuated Devices (CAD/PAD) Digital Twin Modeling will develop and validate models and algorithms for the Department of the Navy (DoN). Digital Twin is a software model that predicts service life of a components' energetic material. This will be used to move towards a Condition Based Maintenance Model vice restrictive service life. The development will be phased over three efforts, specific to Navy AirCrew Common Ejection Seats (NACES). These models will be used as a starting point for a condition-based service life for CAD/PAD. A condition-based service life will result in long term cost savings for the DoN by enabling CAD/PAD to be installed for full useful service life. These models will also be used to support initial service life decisions, service life extension decisions and address obsolescence.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total
Title: CAD/PAD Digital Twin Modeling	0.340	0.828	0.551	0.000	0.551
Articles:	-	-	-	-	-
FY 2024 Plans: Software security compliance tests will be conducted to ensure developed software meets software security and DOD cloud cyber security requirements. The tests will be conducted in FY 2024 during the software integration phase.					
FY 2025 Base Plans: Testing during the software integration phase continue. Software security compliance tests will continue to ensure developed software meets software security and DOD cloud cyber security requirements.					
FY 2025 OCO Plans: N/A					
FY 2024 to FY 2025 Increase/Decrease Statement: Decreased funding coincides with the conclusion of Software and Hardware testing that end Phase III in FY 2025.					
Accomplishments/Planned Programs Subtotals	0.340	0.828	0.551	0.000	0.551

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3411 / *CAD/PAD Digital Twin Modeling*

C. Other Program Funding Summary ($ in Millions)

Line Item	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
• PANMC/0180: *CARTRIDGE ACTUATED DEVICES/ PROPELLANT ACT DEVICES*	71.391	72.426	73.782	-	73.782	75.180	76.770	79.045	80.717	Continuing	Continuing

Remarks

The software development for CAD/PAD products to support inventory objectives by transitioning to condition based maintenance. Recent investigations into life cycle cost savings, safety mitigation and reliability of products indicate that a substantial costs savings could be realized, address obsolescence, as well as improve readiness.

D. Acquisition Strategy

Culmen International, LLC has a proven methodology to develop computer models (digital twin) relevant to the thermal loading CAD/PAD items are subjected to. A contract will be awarded to Culmen International, LLC to develop a digital twin using their proprietary software, Tru Navigator. The Tru Navigator software will use as its input, key areas of degradation to CAD/PAD items (temperature, humidity, shock, vibration and thermal cycling) and its output will be the cumulative degradation to the CAD/PAD item. Additional technologies and associated vendors will also be evaluated as necessary.

All other efforts: procurement of CAD/PAD test items, test and evaluation and model validation will be sourced using competitive contracting strategies.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3411 / *CAD/PAD Digital Twin Modeling*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Product Development	SS/CPIF	Culmen International : Alexandria, VA	1.128	0.256	Jun 2023	0.742	Jun 2024	0.466	Jun 2025	-		0.466	Continuing	Continuing	Continuing
		Subtotal	1.128	0.256		0.742		0.466		-		0.466	Continuing	Continuing	N/A

Remarks

FY 2025 Phase IV B contract supports compliance test efforts to support the software integration phase of the Digital Twin Modeling.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Government Support	WR	NSWC : Indian Head	0.385	0.084	Feb 2023	0.086	Dec 2023	0.085	Oct 2024	-		0.085	Continuing	Continuing	Continuing
		Subtotal	0.385	0.084		0.086		0.085		-		0.085	Continuing	Continuing	N/A

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1.513	0.340		0.828		0.551		-		0.551	Continuing	Continuing	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons D evelopment Program*	**Project (Number/Name)** 3411 / *CAD/PAD Digital Twin Modeling*

CADPAD PROGRAM SCHEDULE PB25

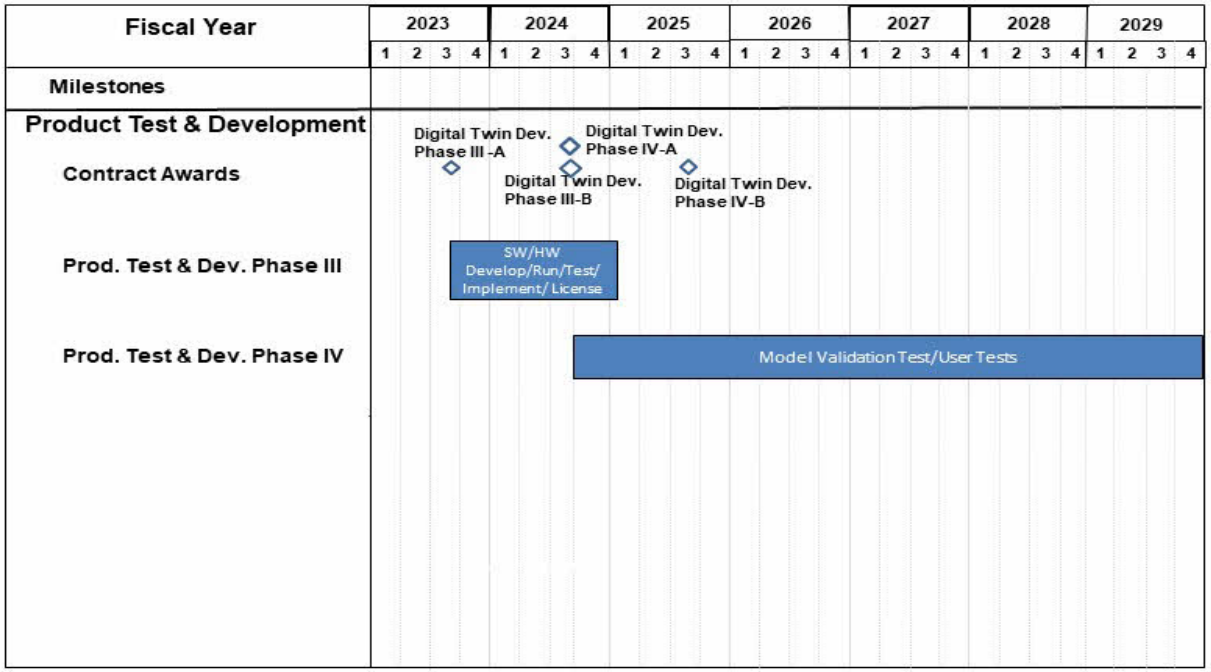

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Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 3411 / *CAD/PAD Digital Twin Modeling*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
CAD/PAD Digital Twin Modeling				
Product Development: Contract Awards: FY 2023 Contract Award (Phase III A)	3	2023	3	2023
Product Development: Contract Awards: FY 2024 Contract Award (Phase III B)	3	2024	3	2024
Product Development: Contract Awards: FY 2024 Contract Award (Phase IV A)	3	2024	3	2024
Product Development: Contract Awards: FY 2025 Contract Award (Phase IV B)	3	2025	3	2025
Product Development: Product Test and Development Phase III: SW/HW Develop/ Run/Test/ Implement/ License	3	2023	1	2025
Product Development: Product Test and Development Phase IV: Model Validation/ User Tests	4	2024	4	2029

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604659N / *Precision Strike Weapons Development Program*	Project (Number/Name) 9999 / *Congressional Adds*	

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: *Congressional Adds*	5.792	24.134	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	29.926
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

C762 - NEUTRON RADIOGRAPHY TECHNOLOGIES FOR ENERGETIC DEVICES

Neutron radiography (N-ray) is a critical nondestructive inspection technique used to complement X-ray. N-ray and X-ray are used to detect defects and proper assembly of a variety of energetics, including Cartridge and Propellant Actuated Devices (CAD/PADs). The US Navy intends to continue to employ neutron radiographic inspection to support energetics programs for the foreseeable future. Historically, nuclear reactors have been the only sources to perform high quality, high throughput neutron radiography. The energetics supply chain has been heavily reliant on a single commercial nuclear reactor that has been operating since the 1950s with closure imminent This congressional add allows research and development to provide a site survey and preparatory improvement of facilities to support a high energy ion accelerator capability.

*PHASE I of N-Ray Congressional Add is located under PE: 0605518N CONVENTIONAL PROMPT STRIKE (CPS).

C880: SLCM-N
This project will conduct system development and demonstration of nuclear-capable sea-launched cruise missile.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2023	FY 2024
Congressional Add: SLCM-N	24.134	0.000
FY 2023 Accomplishments: Congressional add for Nuclear-Capable Sea-Launched Cruise Missile (SLCM-N). Funds will be used to refine SLCM-N parameters to enable any future acquisition decision. Conduct SLCM-N technology development and conduct SLCM-N systems engineering and technical evaluation efforts.		
FY 2024 Plans: Funding provided in FY 2023 only.		
Congressional Adds Subtotals	24.134	0.000

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

Exhibit R-2A, RDT&E Project Justification: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 9999 / *Congressional Adds*

D. Acquisition Strategy

CAD/PAD JPO and NSWC IHD are performing site and facility assessments, developing requirements, and performing a safety analyses for an accelerator-based neutron radiography capability to be located at NSWC IHD other partner location.

In parallel to the government work above, a contract is planned to award for engineering support to perform modeling and safety analyses to ensure the system is safe to operate in the Navy facility, as well as assist the Navy with any regulatory submittals required to own and operate the system. System component hardware procurement will be phased in once requirements are defined.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604659N / *Precision Strike Weapons Development Program*	Project (Number/Name) 9999 / *Congressional Adds*	

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Phase II Product Dev	WR	NSWC : Indian Head	3.177	0.000		0.000		0.000		-		0.000	0.000	3.177	-
Phase II Product Dev	TBD	Pheonix, LLC : Wisconsin	2.600	0.000		0.000		0.000		-		0.000	0.000	2.600	2.600
		Subtotal	5.777	0.000		0.000		0.000		-		0.000	0.000	5.777	N/A

Remarks

FY 2022 Congressional Add for Neutron radiographic inspection of cartridge and propellant.

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Phase II NAWCWD Support	WR	NAWCWD : CHINA LAKE	0.015	0.000		0.000		0.000		-		0.000	0.000	0.015	-
		Subtotal	0.015	0.000		0.000		0.000		-		0.000	0.000	0.015	N/A

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2023 Cost	FY 2023 Award Date	FY 2024 Cost	FY 2024 Award Date	FY 2025 Base Cost	FY 2025 Base Award Date	FY 2025 OCO Cost	FY 2025 OCO Award Date	FY 2025 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Developmental Test & Evaluation (DT&E)	C/CPFF	JHU/APL : BALTIMORE, MD	0.000	5.000	Oct 2023	0.000		0.000		-		0.000	0.000	5.000	-
Developmental Test & Evaluation (DT&E)	C/CPFF	TBD Platform Integration : TBD	0.000	8.000	Oct 2023	0.000		0.000		-		0.000	0.000	8.000	-
Developmental Test & Evaluation (DT&E)	C/CPFF	TBD Airframe Integration : TBD	0.000	4.000	Oct 2023	0.000		0.000		-		0.000	0.000	4.000	-
Developmental Test & Evaluation (DT&E)	C/CPFF	TBD Technology Maturation : TBD	0.000	7.134	Oct 2023	0.000		0.000		-		0.000	0.000	7.134	-
		Subtotal	0.000	24.134		0.000		0.000		-		0.000	0.000	24.134	N/A

Remarks

FY 2023 Congressional Add for Nuclear-Armed Sea-Launched Cruise Missile (SLCM-N).

Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Navy			Date: March 2024
Appropriation/Budget Activity 1319 / 4	R-1 Program Element (Number/Name) PE 0604659N / *Precision Strike Weapons Development Program*	Project (Number/Name) 9999 / *Congressional Adds*	

	Prior Years	FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	5.792	24.134		0.000		0.000		-		0.000	0.000	29.926	N/A

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 9999 / *Congressional Adds*

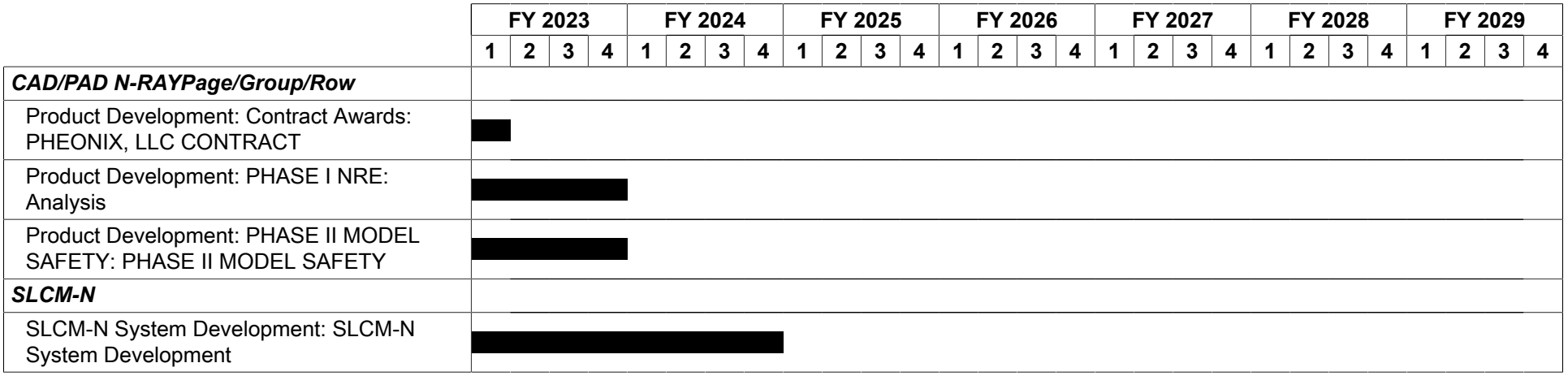

Exhibit R-4A, RDT&E Schedule Details: PB 2025 Navy		Date: March 2024
Appropriation/Budget Activity 1319 / 4	**R-1 Program Element (Number/Name)** PE 0604659N / *Precision Strike Weapons Development Program*	**Project (Number/Name)** 9999 / *Congressional Adds*

Schedule Details

	Start		End	
Events by Sub Project	**Quarter**	**Year**	**Quarter**	**Year**
CAD/PAD N-RAYPage/Group/Row				
Product Development: Contract Awards: PHEONIX, LLC CONTRACT	1	2023	1	2023
Product Development: PHASE I NRE: Analysis	1	2023	4	2023
Product Development: PHASE II MODEL SAFETY: PHASE II MODEL SAFETY	1	2023	4	2023
SLCM-N				
SLCM-N System Development: SLCM-N System Development	1	2023	4	2024