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

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604727N / <i>JNT Standoff Weapon Systems</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	942.761	0.000	0.758	1.964	-	1.964	1.815	1.515	1.516	1.546	13.896	965.771
2068: <i>Joint Standoff Weapon (JSOW)</i>	942.761	0.000	0.758	1.964	-	1.964	1.815	1.515	1.516	1.546	13.896	965.771

A. Mission Description and Budget Item Justification

The Joint Standoff Weapon (JSOW) is an air-to-ground weapon designed to attack a variety of targets during day, night, and adverse weather conditions. JSOW enhances aircraft survivability by providing the capability for launch aircraft to standoff outside the range of most target area surface-to-air threat systems. The JSOW launch-and-leave capability will allow several target kills per aircraft sortie. The JSOW program first developed a baseline weapon for use against fixed area targets. JSOW is a Navy led joint Navy/Air Force program. JSOW utilizes a "common truck" for both AGM-154A and AGM-154C variants. Through adherence to international standards for weapons interfaces, weight, and dimension considerations, JSOW is compatible with Air Force and North Atlantic Treaty Organization aircraft.

The JSOW Unitary (AGM-154C-1) variant includes a Network Enabled Weapon moving maritime target capability. The AGM-154C-1 capability enables the weapon to be integrated with the network and attack sea moving maritime targets via real-time pre-and post-launch targeting updates. JSOW will continue to conduct analysis and development of solutions to system integration challenges, and continual enhancement of warfighter effectiveness in the employment of the JSOW weapon system. The FY 2019 funding included the integration of new functionality into the joint mission planning systems and precision guided munitions planning system. JSOW C-1 Initial Operational Capability was achieved in June 2016. JSOW C-1 Full Operational Capability was achieved in August 2017.

JSOW development provides continuing upgrades to mission planning software to maintain relevance.

This program is funded under SYSTEM DEVELOPMENT AND DEMONSTRATION because it includes those projects that have passed Milestone B approval and are conducting engineering and manufacturing development tasks aimed at meeting validated requirement prior to full-rate production decision.

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B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	0.000	0.758	1.961	-	1.961
Current President's Budget	0.000	0.758	1.964	-	1.964
Total Adjustments	0.000	0.000	0.003	-	0.003
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Rate/Misc Adjustments	0.000	0.000	0.003	-	0.003

Change Summary Explanation

FY 2024 increased by \$0.003M from the previous President's Budget Submission due to various rate and miscellaneous adjustments.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy										Date: March 2023		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0604727N / JNT Standoff Weapon Systems				Project (Number/Name) 2068 / Joint Standoff Weapon (JSOW)			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
2068: Joint Standoff Weapon (JSOW)	942.761	0.000	0.758	1.964	-	1.964	1.815	1.515	1.516	1.546	13.896	965.771
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Joint Standoff Weapon (JSOW) is an air-to-ground weapon designed to attack a variety of targets during day, night, and adverse weather conditions. JSOW enhances aircraft survivability by providing the capability for launch aircraft to standoff outside the range of most target area surface-to-air threat systems. The JSOW launch-and-leave capability will allow several target kills per aircraft sortie. The JSOW program first developed a baseline weapon for use against fixed area targets. JSOW is a Navy led joint Navy/Air Force program. JSOW utilizes a "common truck" for both AGM-154A and AGM-154C variants. Through adherence to international standards for weapons interfaces, weight, and dimension considerations, JSOW is compatible with Air Force and North Atlantic Treaty Organization aircraft.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: JSOW Mission Planning Systems	0.000	0.758	1.964	0.000	1.964
Articles:	-	-	-	-	-
Description: JSOW program development efforts include new mission planning functionality required for Network Enabled Weapon (NEW) moving target capability for the JSOW-C-1.					
FY 2023 Plans: FY 2023 re-establishes funding to continue efforts to migrate JSOW mission planning software from the contractor owned Common Weapon Planning Environment (CWPE) to the Government owned Precision Guidance Mission Planning System (PGMPS) common component and perform required upgrades to ensure continued compatibility with test range infrastructure for future platform integration.					
FY 2024 Base Plans: FY 2024 continues efforts to migrate JSOW mission planning software from the contractor owned Common Weapon Planning Environment (CWPE) to the Government owned Precision Guidance Mission Planning System (PGMPS) common component and perform required upgrades to ensure continued compatibility with test range infrastructure for future platform integration. Additionally, development work will be required to support the transition from Joint Mission Planning System (JMPS) to Next Generation Naval Mission Planning System (NGNMPS).					
FY 2024 OCO Plans:					

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Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604727N / JNT Standoff Weapon Syst ems	Project (Number/Name) 2068 / Joint Standoff Weapon (JSOW)

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
N/A					
<i>FY 2023 to FY 2024 Increase/Decrease Statement:</i> The increase is due to the transition to Next Generation Navy Mission Planning System NGNMPS from Joint Mission Planning System JMPS. NOMS/NGNMPS requires development work that begins in FY 2023 and ramps up in FY 2024 to support this transition.					
Accomplishments/Planned Programs Subtotals	0.000	0.758	1.964	0.000	1.964

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

N/A

Remarks

D. Acquisition Strategy

JSOW C-1 Initial Operational Capability was achieved in June 2016. JSOW C-1 Full Operational Capability was achieved in August 2017. The program focus has transitioned to sustainment with limited investment in mandated upgrades to communications equipment and a continuing upgrade effort for mission planning software.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604727N / JNT Standoff Weapon Systems	Project (Number/Name) 2068 / Joint Standoff Weapon (JSOW)
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Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
JSOW Prior Year Prod Dev no longer funded in the FYDP	SS/CPIF	Various : Various	803.876	0.000		0.000		0.000		-		0.000	0.000	803.876	803.876
JSOW C-1 Communications Software updates	SS/CPFF	Raytheon Missile Systems : Tucson, AZ	20.166	0.000		0.000		0.000		-		0.000	0.000	20.166	20.166
JSOW Crypto Modernization	SS/CPFF	Rockwell Collins : Cedar Rapids, IA	9.495	0.000		0.000		0.000		-		0.000	0.000	9.495	9.495
JSOW Crypto Modernization	TBD	various : various	3.431	0.000		0.000		0.000		-		0.000	0.000	3.431	3.431
JSOW Software Development	SS/CPFF	Various : Various	8.248	0.000		0.408	Mar 2023	0.000		-		0.000	0.000	8.656	8.656
JSOW Mission Planning	SS/CPFF	Raytheon Missile Systems : Tucson, AZ	0.000	0.000		0.000		1.549	Mar 2024	-		1.549	0.000	1.549	1.549
Subtotal			845.216	0.000		0.408		1.549		-		1.549	0.000	847.173	N/A

Remarks
FY 2024 increase due to JSOW development efforts to upgrade and migrate mission planning software.

Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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			
JSOW Government Support	WR	NAWCWD : China Lake, CA	6.481	0.000		0.100	Dec 2022	0.165	Nov 2023	-		0.165	0.000	6.746	-
JSOW Support	WR	Various : Various	10.195	0.000		0.000		0.000		-		0.000	0.000	10.195	-
JSOW ER Government Support	WR	NAWCWD : China Lake, CA	0.220	0.000		0.000		0.000		-		0.000	0.000	0.220	-
JSOW ER TACNET	SS/CPIF	Wyle Laboratories : Huntsville, AL	0.020	0.000		0.000		0.000		-		0.000	0.000	0.020	0.020

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy												Date: March 2023			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)						Project (Number/Name)					
1319 / 5				PE 0604727N / JNT Standoff Weapon Systems						2068 / Joint Standoff Weapon (JSOW)					
Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
JSOW Mission Planning Fleet Training Support	SS/CPFF	Raytheon Missile Systems : Tucson, AZ	0.000	0.000		0.250	Jun 2023	0.250	Jun 2024	-		0.250	0.000	0.500	0.500
Subtotal			16.916	0.000		0.350		0.415		-		0.415	0.000	17.681	N/A
Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Developmental Test & Evaluation (DT&E)	Various	Various : Various	54.920	0.000		0.000		0.000		-		0.000	0.000	54.920	-
Subtotal			54.920	0.000		0.000		0.000		-		0.000	0.000	54.920	N/A
Management Services (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
JSOW Prior year Mgmt no longer funded in the FYDP	Various	Various : Various	25.504	0.000		0.000		0.000		-		0.000	0.000	25.504	-
JSOW ER Government Support	WR	NAWCAD : Patuxent River, MD	0.200	0.000		0.000		0.000		-		0.000	0.000	0.200	-
JSOW ER Travel	Various	NAVAIR : Patuxent River, MD	0.005	0.000		0.000		0.000		-		0.000	0.000	0.005	-
Subtotal			25.709	0.000		0.000		0.000		-		0.000	0.000	25.709	N/A
Project Cost Totals			942.761	0.000		0.758		1.964		-		1.964	0.000	945.483	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604727N / JNT Standoff Weapon Syst ems	Project (Number/Name) 2068 / Joint Standoff Weapon (JSOW)

Joint Standoff Weapon	2022				2023				2024				2025				2026				2027				2028			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Acquisition Milestones																												
	JSOW C-1 Development																											
	Mission Planning Updates																											
	Crypto Mod Efforts																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 5	R-1 Program Element (Number/Name) PE 0604727N / JNT Standoff Weapon Systems	Project (Number/Name) 2068 / Joint Standoff Weapon (JSOW)

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Joint Standoff Weapon				
Acquisition Milestones: JSOW C-1 Development	1	2022	4	2028
Acquisition Milestones: Mission Planning Updates	1	2022	4	2028
Acquisition Milestones: Cyrpto Modernization Efforts	1	2022	4	2022