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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy **Date:** April 2022

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	915.308	27.453	0.000	0.758	-	0.758	1.961	1.812	1.512	1.512	6.948	957.264
2068: <i>Joint Standoff Weapon (JSOW)</i>	915.308	27.453	0.000	0.758	-	0.758	1.961	1.812	1.512	1.512	6.948	957.264

Program MDAP/MAIS Code:
Project MDAP/MAIS Code(s): 766

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	30.351	0.000	0.000	-	0.000
Current President's Budget	27.453	0.000	0.758	-	0.758
Total Adjustments	-2.898	0.000	0.758	-	0.758
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-2.898	0.000			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	0.758	-	0.758

Change Summary Explanation

The FY 2023 funding request was adjusted by \$0.750M to account for the availability of prior year execution balances.

FY2021 Congressional rescission of \$5.500M not reflected in this budget exhibit. FY2021 value with FY22 enactment is \$21.953M.

FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy										Date: April 2022		
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
2068: Joint Standoff Weapon (JSOW)	915.308	27.453	0.000	0.758	-	0.758	1.961	1.812	1.512	1.512	6.948	957.264
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Project MDAP/MAIS Code: 766

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: JSOW Mission Planning Systems	27.453	0.000	0.758	0.000	0.758
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 2022 Plans: N/A					
FY 2023 Base Plans: FY22 funding incorrectly removed from JSOW C-1 following the cancellation of JSOW-ER. FY2023 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 2023 OCO Plans: N/A					
FY 2022 to FY 2023 Increase/Decrease Statement:					

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
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)

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
FY 2022 to FY 2023 increase (\$.758M) is due to the recommencement of JSOW baseline budget and continuation of JSOW program efforts to upgrade and migrate mission planning software.					
Accomplishments/Planned Programs Subtotals	27.453	0.000	0.758	0.000	0.758

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 2023 Navy **Date:** April 2022

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 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	13.392	6.774	Jul 2021	0.000		0.000		-		0.000	0.000	20.166	20.166
JSOW Crypto Modernization	SS/CPFF	Rockwell Collins : Cedar Rapids, IA	1.407	8.088	Apr 2021	0.000		0.000		-		0.000	0.000	9.495	9.495
JSOW Crypto Modernization	TBD	various : various	0.000	3.431	Jun 2021	0.000		0.000		-		0.000	0.000	3.431	3.431
JSOW Software Development	SS/CPFF	Various : Various	7.648	0.600	Jun 2021	0.000		0.354	Nov 2022	-		0.354	0.000	8.602	8.602
Subtotal			826.323	18.893		0.000		0.354		-		0.354	0.000	845.570	N/A

Remarks
 JSOW software development line moved from support to product development to more accurately reflect product development efforts.
 FY 2023 increase due to JSOW development efforts to upgrade and migrate mission planning software.

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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	0.031	6.450	Dec 2020	0.000		0.150	Nov 2022	-		0.150	0.000	6.631	-
JSOW Support	WR	Various : Various	8.085	2.110	Mar 2021	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
JSOW Government Support	WR	NAWCAD : Patuxent River, MD	0.000	0.000		0.000		0.254	Nov 2022	-		0.254	0.000	0.254	-
Subtotal			8.356	8.560		0.000		0.404		-		0.404	0.000	17.320	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy **Date:** April 2022

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)
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Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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			

Remarks
FY 2023 increase funds JSOW software support, mission planning support and test support.

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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 T&E no longer funded in the FYDP	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 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 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 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

			Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			915.308	27.453	0.000	0.758	-	0.758	0.000	943.519	N/A

Remarks
FY2021 Congressional rescission of \$5.500M not reflected in this budget exhibit. FY2021 value with FY22 enactment is \$21.953M.

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy **Date:** April 2022

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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Joint Standoff Weapon	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Acquisition Milestones	JSOW C-1 Development																											
	Mission Planning Updates																											
	Crypto Modernization Efforts																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
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	2021	4	2027
Acquisition Milestones: Mission Planning Updates	1	2021	4	2027
Acquisition Milestones: Cyrpto Modernization Efforts	1	2021	4	2022