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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy Date: March 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E

PE 0605126N I (U)Joint Theater Air and Missile Defense Org

Management Support

COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	0.000	0.140	0.048	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.188
3307: Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)	0.000	0.140	0.048	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.188

A. Mission Description and Budget Item Justification

Maritime Integrated Air and Missile Defense (IAMD) Planning System (MIPS) is an automated air and missile defense planning tool that supports the Joint Force Maritime Component Commander at the Operational Level of War (OLW) by automatically and optimally allocating and stationing ships in support of Ballistic Missile Defense (BMD) and Anti-Air Warfare (AAW). MIPS contains United States Army Patriot and Terminal High Altitude Air Defense (THAAD) models to ensure synergistic allocation and positioning of maritime units in relation to other joint units, providing optimized mutual defense for selected defended assets against selected BMD and AAW threats. MIPS completed developing significantly improved inorganic Ballistic Missile Defense planning capabilities through the incorporation of Long Range Surveillance and Training, Cued Engagement, and Launch on Tactical Digital Information Links (TADIL) planning functionality. In FY2015, MIPS began development to deliver an automated planning capability for Naval Integrated Fire Control-Counter Air (NIFC-CA) operations, incorporating the Naval Positioning Assessment Tool (NPAT) to assist in aviation asset placement, bottom contours will be added to refine the areas of ship positioning during the planning process, and adding the Cooperative Engagement Capability (CEC) stationing planning capability.

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	0.141	0.048	0.000	-	0.000
Current President's Budget	0.140	0.048	0.000	-	0.000
Total Adjustments	-0.001	0.000	0.000	-	0.000
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
Reprogrammings	-	-			
SBIR/STTR Transfer	-0.001	0.000			
 Rate/Misc Adjustments 	0.000	0.000	0.000	-	0.000

Change Summary Explanation

FY18 reflects -\$0.001M due to SBIR realignment.

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PE 0605126N: (U)Joint Theater Air and Missile Defense... Navy Page 1 of 3 R-1 Line #177

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy								Date: March 2019				
Appropriation/Budget Activity 1319 / 6				,				Project (Number/Name) 3307 I Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)				
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
3307: Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)	0.000	0.140	0.048	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	0.188
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

P. Accomplishments/Planned Brograms (\$ in Millians, Article Quantities in Each)

Maritime Integrated Air and Missile Defense (IAMD) Planning System (MIPS) is an automated air and missile defense planning tool that supports the Joint Force Maritime Component Commander at the Operational Level of War (OLW) by automatically and optimally allocating and stationing ships in support of Ballistic Missile Defense (BMD) and Anti-Air Warfare (AAW). MIPS contains United States Army Patriot and Terminal High Altitude Air Defense (THAAD) models to ensure synergistic allocation and positioning of maritime units in relation to other joint units, providing optimized mutual defense for selected defended assets against selected BMD and AAW threats. MIPS completed developing significantly improved inorganic Ballistic Missile Defense planning capabilities through the incorporation of Long Range Surveillance and Training, Cued Engagement, and Launch on Tactical Digital Information Links (TADIL) planning functionality. In FY2015, MIPS began development to deliver an automated planning capability for Naval Integrated Fire Control-Counter Air (NIFC-CA) operations, incorporating the Naval Positioning Assessment Tool (NPAT) to assist in aviation asset placement, bottom contours will be added to refine the areas of ship positioning during the planning process, and adding the Cooperative Engagement Capability (CEC) stationing planning capability.

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)			FY 2020	FY 2020	FY 2020
	FY 2018	FY 2019	Base	oco	Total
Title: Systems Engineering	0.140	0.048	0.000	0.000	0.000
Articles:	_	-	-	-	-
FY 2019 Plans:					
- Complete test analysis and resolve test performance issues.					
FY 2020 Base Plans:					
N/A					
FY 2020 OCO Plans:					
N/A					
FY 2019 to FY 2020 Increase/Decrease Statement:					
Research and Development effort complete in FY 2019. No requirement is needed for FY 2020.					
Accomplishments/Planned Programs Subtotals	0.140	0.048	0.000	0.000	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy		Date: March 2019		
1	, ,	, ,	umber/Name) itime Integrated Air and Missile	
131970	, ,		AMD) Processing Sys (MIPS)	

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

N/A

Remarks

D. Acquisition Strategy

ACAT III designation granted February 2011.

The MIPS Capabilities Development Document (CDD) signed and approved 4QTRFY2016.

Contracts:

MIPS RDT&E FY15-FY17

E. Performance Metrics

FY18:

- Performed independent government testing.

FY19:

- Complete test analysis and resolve test performance issues.

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