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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy	Date: February 2018
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Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
1319: <i>Research, Development, Test & Evaluation, Navy I BA 6: RDT&E Management Support</i>	PE 0605126N I (U)Joint Theater Air and Missile Defense Org											
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	0.000	2.888	0.141	0.048	-	0.048	0.000	0.000	0.000	0.000	0.000	3.077
3307: <i>Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)</i>	0.000	2.888	0.141	0.048	-	0.048	0.000	0.000	0.000	0.000	0.000	3.077

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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	2.998	0.141	0.048	-	0.048
Current President's Budget	2.888	0.141	0.048	-	0.048
Total Adjustments	-0.110	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.110	0.000			
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy										Date: February 2018		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605126N / (U)Joint Theater Air and Missile Defense Org				Project (Number/Name) 3307 / Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
3307: Maritime Integrated Air and Missile Defense (IAMD) Processing Sys (MIPS)	0.000	2.888	0.141	0.048	-	0.048	0.000	0.000	0.000	0.000	0.000	3.077
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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

	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Systems Engineering	2.888	0.141	0.048	0.000	0.048
Articles:	-	-	-	-	-
FY 2018 Plans: - Conduct acceptance testing and Development Test in FY 2018					
FY 2019 Base Plans: - Complete test analysis and resolve test performance issues.					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement: Decrease due to Baseline reductions.					
Accomplishments/Planned Programs Subtotals	2.888	0.141	0.048	0.000	0.048

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605126N / (U)Joint Theater Air and Missile Defense Org	Project (Number/Name) 3307 / Maritime Integrated Air and Missile Defense (IAMD) 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 FY17: - Completed system development and prepared for Development Testing occurring in FY2018. FY18: - Perform independent government testing. FY19: - Complete test analysis and resolve test performance issues.		