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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy **Date:** February 2018

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 5: System Development & Demonstration (SDD)</i>					R-1 Program Element (Number/Name) PE 0304231N / <i>Tactical Command System - MIP</i>							
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	7.511	0.676	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.187
2009: <i>OSIS Evolutionary Development (OED)</i>	7.511	0.676	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.187

A. Mission Description and Budget Item Justification

Radiant Mercury (RM) is a secure information platform that provides an automated means to sanitize, downgrade, guard, and transliterate formatted data at various classifications, compartments and releasabilities. It enables Combatant Commanders as well as operational commanders, afloat and ashore to disseminate and receive critical operational and intelligence information with coalition and allied forces.

FY19: Trusted Information System (TIS) Radiant Mercury (RM) cross domain solution (CDS) requirement will no longer be centrally funded via PE 0304231N. This does not remove the cross domain solution (CDS) requirement, instead it transfers costs associated with RM and compliance with the CDS process to Programs of Record.

B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	0.676	0.000	0.000	-	0.000
Current President's Budget	0.676	0.000	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	0.000	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

Change Summary Explanation

Technical/Funding/Schedule:

- Trusted Information System (TIS) Radiant Mercury (RM) Cross Domain Solution (CDS) funding responsibility was transferred to the requiring programs of record.

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy										Date: February 2018		
Appropriation/Budget Activity 1319 / 5					R-1 Program Element (Number/Name) PE 0304231N / <i>Tactical Command System - MIP</i>				Project (Number/Name) 2009 / <i>OSIS Evolutionary Development (OED)</i>			
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
2009: <i>OSIS Evolutionary Development (OED)</i>	7.511	0.676	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.187
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Trusted Information System (TIS) Radiant Mercury (RM) is a system that successfully provides accredited Cross Domain Solutions (CDS) to the Navy, the Department of Defense (DoD), and the Intelligence Community (IC). TIS RM is a critical component of network-centric warfare, supporting joint operations, allied, and coalition forces world-wide. The ability to pass sensitive and critical data across security domains and to our allied and coalition partners in a timely fashion can only be met by accredited CDS systems such as RM. RM enables the Navy to operate in a multi-national environment.

TIS RM provides automated, bi-directional sanitization, transliteration and guarding capability for formatted and unformatted data between security enclaves. RM helps ensure critical intelligence is provided quickly to operational decision-makers. TIS RM provides the capability to disseminate information for operating forces worldwide, including the operating forces of key allies in the Pacific, Central and European Command regions. This capability to move all-source intelligence-derived track information into the realm of the operational community significantly improves the situational awareness of tactical operators and planners. Unformatted data is handled by the Information Review Process (IRP). The system provides cross domain services to a wide variety of customers including Combatant Commanders, Air Force (Shared Early Warning program), Army (Blue Force Tracking Program), Missile Defense Agency (MDA), Navy Cyber Defense Operations Command (NCDOD), Naval Modular Automated Communication Systems (NAVMACS), Mobile User Objective Systems (MUOS), Navy (Global Command and Control System - Maritime/J (GCCS-M/J), Automatic Identification System (AIS), Maritime Operations Centers (MOC), Distributed Common Ground System-Navy (DCGS-N), Tactical Ranges (TR), and numerous other DoD and Intelligence agencies.

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

	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: Radiant Mercury (RM)	0.676	0.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
FY 2018 Plans: N/A					
FY 2019 Base Plans: N/A					
FY 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)		FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO
No changes.					
Accomplishments/Planned Programs Subtotals		0.676	0.000	0.000	0.000
C. Other Program Funding Summary (\$ in Millions) N/A					
Remarks					
D. Acquisition Strategy Trusted Information Systems (TIS) Radiant Mercury (RM) provides automated, bi-directional sanitization, transliteration and guarding capability for formatted and unformatted data between security enclaves. RM helps ensure critical Indications and Warning intelligence is provided quickly to operational decision-makers. RM provides certified and accredited Cross Domain capabilities in the Pacific Command (PACOM), Europe Command (EUCOM) and Central Command (CENTCOM), Northern Command (NORTHCOM), Areas of Responsibility (AOR). As of FY18 RM is a 100% fee-for-service program. It generates funds through Life Cycle Surcharge (LCS) on all new task orders and Annual User Fees (AUF) on all operational RM systems currently fielded. These funds support development and infrastructure cost as well as program operating cost.					
E. Performance Metrics Radiant Mercury (RM) provides and develops certified, accredited Cross Domain Solutions (CDS) and transfer capabilities to the Department of Defense (DoD) and Intelligence Community (IC), and provides the capability to disseminate and receive operational and intelligence information for 100% of authorized sites.					

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy												Date: February 2018			
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Product Development (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Software Development	C/CPFF	Lockheed Martin : Denver, CO	5.280	0.415	Dec 2016	0.000		0.000		-		0.000	0.000	5.695	-
Software Development	C/CPFF	Various : Various	0.414	0.081	Dec 2016	0.000		0.000		-		0.000	0.000	0.495	-
Subtotal			5.694	0.496		0.000		0.000		-		0.000	0.000	6.190	N/A
Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Requirements Analysis	C/CPFF	Various : Various	0.191	0.000		0.000		0.000		-		0.000	0.000	0.191	-
Requirements Analysis	C/CPFF	BAH : San Diego, CA	1.170	0.000		0.000		0.000		-		0.000	0.000	1.170	-
Subtotal			1.361	0.000		0.000		0.000		-		0.000	0.000	1.361	N/A
Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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
Certification Test	WR	SSC LANT : Charleston, SC	0.243	0.000		0.000		0.000		-		0.000	0.000	0.243	-
Certification Test	C/CPFF	Lockheed Martin : Denver, CO	0.213	0.180	Dec 2016	0.000		0.000		-		0.000	0.000	0.393	-
Subtotal			0.456	0.180		0.000		0.000		-		0.000	0.000	0.636	N/A
			Prior Years	FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			7.511	0.676		0.000		0.000		-		0.000	0.000	8.187	N/A
Remarks															

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy																Date: February 2018												
Appropriation/Budget Activity 1319 / 5												R-1 Program Element (Number/Name) PE 0304231N / Tactical Command System - MIP				Project (Number/Name) 2009 / OSIS Evolutionary Development (OED)												
Proj 2009	2017				2018				2019				2020				2021				2022				2023			
	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
Test & Evaluation	<div>CT&E - RM Version 6.x</div>																											
Certification Test																												
RM Software Deliveries																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy		Date: February 2018
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 2009</i>				
Test & Evaluation: Test & Evaluation Milestone - CT&E: RM Test & Evaluation Milestone - CT&E - RM Version 6.x	1	2017	2	2017