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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 0606942M I (U)Assessments and Evals Cyber Vulnerabilities							
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	0.000	7.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	7.000
4038: Cyber Vulnerability Evaluation	0.000	0.000	7.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	7.000

Note

Efforts in this PE were previously funded (FY18) in PE 0605873M, PRJ 0033.

A. Mission Description and Budget Item Justification

This effort provides an OT&E approach to protect Marine Corps critical Cyber information and intelligence through vulnerability evaluations of all major DoD weapons systems and critical military installations; as directed by Section 1650 of Public Law 114-328 (NDAA for FY2017) and Section 1647 of Public Law 114-92 (NDAA FY2016). This will be accomplished through protection, detection, response, restoration, remediation, and mitigation. Testing and evaluation will be completed at Marine Corps facilities and Government Labs, to include the Marine Corps Cyber Range, Naval Air Systems Command (NAVAIR) and Marine Corps Tactical Systems Support Activity (MCTSSA).

Sec. 1647 of the FY16 NDAA directs the Secretary of Defense to complete an evaluation of the cyber vulnerabilities of each major weapon system of the Department of Defense by not later than December 31, 2019. Funded vulnerability assessments will build upon existing efforts regarding the identification and mitigation of cyber vulnerabilities of major weapons systems, and shall not duplicate similar ongoing efforts such as Task Force Cyber Awakening or conduct redundant assessment on systems that have already been evaluated.

Sec. 1647 assessment will be formalized in Vulnerability Assessment Reports (VARs), Cyber Table Top Exercises (CTTXs), Cyber Risk Analysis (CRAs) and other reporting.

Sec. 1650 of the FY17 NDAA directs the Secretary of Defense to submit a plan for assessing the cyber vulnerability of critical defense infrastructure and begin assessment of this infrastructure during a preliminary pilot program that will assess no fewer than two installations by December, 31 2019. Assessments will end in 2020 with the submission of the final report. Strategies mitigating the risk of cyber vulnerabilities should be identified during the course of evaluation.

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Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
1319: Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support		PE 0606942M / (U)Assessments and Evals Cyber Vulnerabilities			
B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	0.000	7.000	0.000	-	0.000
Current President's Budget	0.000	7.000	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	-	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0606942M / (U)Assessments and Evals Cyber Vulnerabilities				Project (Number/Name) 4038 / Cyber Vulnerability Evaluation			
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
4038: Cyber Vulnerability Evaluation	0.000	0.000	7.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	7.000
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

Note

Efforts in this PRJ were previously funded (FY18) in PE 0605873M, PRJ 0033.

A. Mission Description and Budget Item Justification

This effort provides an OT&E approach to protect Marine Corps critical Cyber information and intelligence through vulnerability evaluations of all major DoD weapons systems and critical military installations; as directed by Section 1650 of Public Law 114-328 (NDAA for FY2017) and Section 1647 of Public Law 114-92 (NDAA FY2016). This will be accomplished through protection, detection, response, restoration, remediation, and mitigation. Testing and evaluation will be completed at Marine Corps facilities and Government Labs, to include the Marine Corps Cyber Range, Naval Air Systems Command (NAVAIR) and Marine Corps Tactical Systems Support Activity (MCTSSA).

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

	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: Cyber Assessments/Cyber Awareness Red Team Support	0.000	7.000	0.000	0.000	0.000
Articles:	-	-	-	-	-
Description: In Section 1650 of Public Law 114-328, the NDAA for FY2017, the Congress mandated that the DoD conduct Cyber Vulnerability evaluations of critical military installations by December 31, 2019. In section 1647 of Public Law 114-92, the NDAA for FY2016, the Congress mandated that DoD conduct cyber vulnerability evaluations of all major DoD weapons systems by 31 December 2019.					
FY 2019 Plans: -Evaluation and testing at the Marine Corps Cyber Range will develop artifacts required to complete the report to Congress required by Section 1647 of the FY16 NDAA. -Complete Vulnerability Assessments, adversarial assessments, and mitigation efforts, in support of the Marine Corps Cyber Awareness Red Team and the reporting requirements in 1647. -Conduct assessments of Marine Aviation platforms that are required to be tested by the NDAA Sec. 1647. - Complete efforts to train, equip, and augment the Cyber Threat Assessment Team (CTE) to meet all DoD Red Team established standards and testing requirements.					
FY 2020 Base Plans:					

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Appropriation/Budget Activity 1319 / 6		R-1 Program Element (Number/Name) PE 0606942M / (U)Assessments and Evals Cyber Vulnerabilities		Project (Number/Name) 4038 / Cyber Vulnerability Evaluation	

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
N/A					
FY 2020 OCO Plans: N/A					
FY 2019 to FY 2020 Increase/Decrease Statement: Decrease of \$7.0M from FY19 to FY20 is attributable to the completion of cyber vulnerability evaluations.					
Accomplishments/Planned Programs Subtotals	0.000	7.000	0.000	0.000	0.000

C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2020</u>	<u>FY 2020</u>	<u>FY 2020</u>						<u>Cost To</u>
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Complete</u>	<u>Total Cost</u>
• RDTEN/0605873M/0033: OT&E Support	1.000	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	1.000
Remarks											
D. Acquisition Strategy N/A											
E. Performance Metrics Quarterly updates and reports are submitted as required by Section 1647 of the FY16 NDAA.											