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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Navy **Date:** February 2020

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| Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support</i> | R-1 Program Element (Number/Name) PE 0606942M / (U) <i>Assessments and Evals Cyber Vulnerabilities</i> |
|--|--|

| COST (\$ in Millions) | Prior Years | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | Cost To Complete | Total Cost |
|---|-------------|---------|---------|--------------|-------------|---------------|---------|---------|---------|---------|------------------|------------|
| Total Program Element | 0.000 | 6.731 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 6.731 |
| 4038: <i>Cyber Vulnerability Evaluation</i> | 0.000 | 6.731 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 6.731 |

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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| B. Program Change Summary (\$ in Millions) | FY 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|---|----------------|----------------|---------------------|--------------------|----------------------|
| Previous President's Budget | 7.000 | 0.000 | 0.000 | - | 0.000 |
| Current President's Budget | 6.731 | 0.000 | 0.000 | - | 0.000 |
| Total Adjustments | -0.269 | 0.000 | 0.000 | - | 0.000 |
| • Congressional General Reductions | - | - | | | |
| • Congressional Directed Reductions | - | - | | | |
| • Congressional Rescissions | - | - | | | |
| • Congressional Adds | - | - | | | |
| • Congressional Directed Transfers | - | - | | | |
| • Reprogrammings | - | - | | | |
| • SBIR/STTR Transfer | -0.269 | 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 2021 Navy | | | | | | | | | | Date: February 2020 | | |
| 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total | FY 2022 | FY 2023 | FY 2024 | FY 2025 | Cost To Complete | Total Cost |
| 4038: <i>Cyber Vulnerability Evaluation</i> | 0.000 | 6.731 | 0.000 | 0.000 | - | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 6.731 |
| 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 2019 | FY 2020 | FY 2021 Base | FY 2021 OCO | FY 2021 Total |
|--|----------------|----------------|---------------------|--------------------|----------------------|
| Title: Cyber Assessments/Cyber Awareness Red Team Support | 6.731 | 0.000 | 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 2020 Plans: N/A | | | | | |
| FY 2021 Base Plans: N/A | | | | | |
| FY 2021 OCO Plans: N/A | | | | | |
| Accomplishments/Planned Programs Subtotals | 6.731 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Exhibit R-2A, RDT&E Project Justification: PB 2021 Navy | | Date: February 2020 |
| 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 |
| C. Other Program Funding Summary (\$ in Millions) N/A | | |
| Remarks | | |
| D. Acquisition Strategy N/A | | |