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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Navy **Date:** May 2021

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605154N / <i>Center For Naval Analyses</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	0.000	46.185	43.352	38.590	-	38.590	-	-	-	-	-	-
0031: <i>MCOAG</i>	0.000	6.174	5.438	6.124	-	6.124	-	-	-	-	-	-
0148: <i>Center For Naval Analyses (CNA)</i>	0.000	40.011	37.914	32.466	-	32.466	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Department of the Navy's (DON) Studies and Analysis Federally Funded Research and Development Center (DON S&A FFRDC - hereinafter referred to as the FFRDC) provides independent, objective, and expert analyses based on its unique access to sensitive data and hands-on exposure to fleet operations gained through a world-wide field program. The FFRDC's research program is centrally funded by this program element and is primarily concentrated along one Marine Corps category and thirteen Navy categories of study called product areas. These product areas are structured to enhance the FFRDC's focus of research and analysis upon the major present and future needs and issues of the Navy and the Marine Corps. Because of rapid advances in technology, changes in the fleet, the increasing complexity of weapon systems, and reductions in manpower, force structure, budgets, the current security environment, and Department of Defense (DOD) transformation, the Navy and Marine Corps have a greater need for analyses that are sophisticated, relevant, and timely. The FFRDC conducts research and analysis at all security classification levels, to include Sensitive Compartmented Information (SCI) and Special Access Programs (SAP).

Due to the number of efforts in this PE, the programs described herein are representative of the work included in this PE.

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	47.669	43.517	46.289	-	46.289
Current President's Budget	46.185	43.352	38.590	-	38.590
Total Adjustments	-1.484	-0.165	-7.699	-	-7.699
• Congressional General Reductions	-	-0.165			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-1.484	0.000			
• Program Adjustments	0.000	0.000	-7.085	-	-7.085
• Rate/Misc Adjustments	0.000	0.000	-0.614	-	-0.614

Change Summary Explanation

Funding: \$7.085 million funding reduction in FY22 due to the Department's Manpower restructuring

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy										Date: May 2021		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605154N / <i>Center For Naval Analyses</i>				Project (Number/Name) 0031 / MCOAG			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
0031: MCOAG	0.000	6.174	5.438	6.124	-	6.124	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

This project supports the Marine Corps portion of the Department of the Navy's (DoN) Studies and Analysis Federally Funded Research and Development Center (DoN S&A FFRDC - hereinafter referred to as the FFRDC) Research Program, and is managed as an element of the Marine Corps Studies System. This program provides the Marine Corps with independent and objective research and analysis of specific issues/topics appropriately performed by a FFRDC. Marine Corps Division analysts work at the FFRDC's headquarters and, through the FFRDC's Field representative Program serve at commands worldwide, including: Marine Forces Command, Marine Forces Pacific, Marine Special Operations Command, the three Marine Expeditionary Forces, and Marine Aviation Weapons and Tactics Squadron One (MAWTS-1). The FFRDC also assigns analysts to support the Deputy Commandants and their staffs as well as other Marine Corps organizations such as the Marine Corps Warfighting Lab, Marine Corps Systems Command, and the Commander, Marine Forces Reserve.

The program areas are linked to the Marine Corps Advocacy (prepotency), which are: (1) Logistics and Infrastructure; (2) Manpower and Training; (3) Research, Development and Acquisition; (4) Operations and Plans; (5) Programs and Resources; (6) Aviation; (7) Combat Development and Integration; and (8) Intelligence, Surveillance and Reconnaissance. FFRDC Scientific Analyst support provides six scientific analysts for the following six focus areas: Deputy Commandant (DC), Plans, Policies and Operations; DC Aviation; DC Installation and Logistics; DC Programs and Resources; DC Manpower Reserve Affairs; and Director, Manpower Plans (MP) - Manpower and Reserve Affairs (M&RA). The program continues analytical support for field exercises; Ad Hoc and Quick Response study requirements.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: Marine Corps Operations and Analysis Group	6.174	5.438	6.124	0.000	6.124
Articles:	-	-	-	-	-
FY 2021 Plans:					
Initiated: Studies in support of the FY 2021: Marine Corps Studies System Master Plan (MCSSMP) including the following priority areas: applying USMC capabilities today, balancing current demands against future readiness, innovating to enhance Marine Corps warfighting advantages, ways and means for USMC strategy and policy, and operating the Marine Corps more effectively and efficiently. Continue the FY 2019 analytic focus in support of CMC priorities. Enhanced support and increased capacity to address CMC priorities					
FY 2022 Base Plans:					
In FY22 the FFRDC will provide study and analytical support to critical Combat Development and Integration (CD&I) and Commandant, HQMC priorities in accordance with the FY 2022 Marine Corps Studies System Master Plan (MCSSMP), the Commandant, USMC Strategic Planning Guidance and the Marine Corps Vision and Strategy 2025. Priority areas: applying USMC capabilities today, balancing current demands against future					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>sustainable expeditionary readiness, innovating to enhance Marine Corps warfighting advantages, ways and means for USMC strategy and policy, logistical and equipment support evaluation to operate the Marine Corps more effectively and efficiently, and taking care of our Marines and their families. Continue the FY 2021 analytic focus in support of Commandant Marine Corps (CMC) priorities. Enhanced support and increased capacity to address CMC priorities such as:</p> <ul style="list-style-type: none"> - Force Design efforts for III Marine Expeditionary Forces (MEF) designed to provide stand in force capability to persist, meet and resist adversary weapons systems and facilitate an effective naval campaign - The relative threats posed by our major adversaries (e.g., Russian resurgence, N. African instability, China's One Belt Road Initiative and PRC capabilities and activities) - Prosecuting global campaigns - Interoperable systems equipment maximizing joint and coalition warfare - Warfighting Concepts and Force Development to include Stand in Force, Expeditionary Advanced Base Operations(EABO), Unmanned Systems, and Warfighting Investments and Divestments - Space Domain modeling and improvements - Modernization of Directed Energy, Counter Precision Guided Munitions and Ground Based Air Defense - Integrating information operations into the MAGTF construct both organizationally and to maximize effects on the battlefield - Leveraging autonomy and artificial intelligence to establish and maintain dominance over existing and emerging threats - Using big data/data science/predictive analysis to gain comparative advantage - Leveraging our analytic efforts for the Navy to support USMC priorities <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: No significant change from FY 2021 to FY 2022.</p>					
Accomplishments/Planned Programs Subtotals	6.174	5.438	6.124	0.000	6.124

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

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605154N / <i>Center For Naval Analyses</i>	Project (Number/Name) 0031 / <i>MCOAG</i>
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C. Other Program Funding Summary (\$ in Millions)

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy **Date:** May 2021

Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605154N / Center For Naval Analyses				Project (Number/Name) 0148 / Center For Naval Analyses (CNA)			
COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
0148: Center For Naval Analyses (CNA)	0.000	40.011	37.914	32.466	-	32.466	-	-	-	-	-	-
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This program supports the Navy's portion of the Department of the Navy's (DON) Studies and Analysis Federally Funded Research and Development Center (DON S&A FFRDC - hereinafter referred to as the FFRDC) Research Program, which is primarily concentrated along thirteen Navy categories of study called product areas. These product areas include the following: (1) Manpower/Personnel, Medical and Training; (2) Intelligence, Information and Networks; (3) Plans, Policy, and Operations; (4) Infrastructure and Readiness; (5) Resources, Programs, and Assessments; (6) Capability Integration; (7) Research, Development and Acquisition; (8) Navy Field Program; (9) Navy Field Exercise Program; (10) Scientific Analyst Program; (11) Navy Quick Response Projects; (12) Navy General Concept Development and (13) Naval Analyses Initiated Projects. This program provides the Navy with independent and objective research and analysis of specific issues/topics in support of key operational problems; efforts include field support to fleet commanders, scientific analyst support to Deputy Chiefs of Naval Operations (DCNOs) and their staffs, exercise support, and studies and analysis across the full spectrum of Naval Operations. Support has resulted in substantial improvements in force structure, fleet effectiveness, and significant cost avoidance.

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

	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: CENTER FOR NAVAL ANALYSES, NAVY	40.011	37.914	32.466	0.000	32.466
Articles:	-	-	-	-	-
<p>Description: Funding in this project supports integrated research for the Department of Navy (DON) and other DOD components across a broad range of issues including the development and evaluation of tactics, operations testing of new systems, assessment of current capabilities, logistics and readiness, work-force management, space and space-related activities, cyber operations, cost and operational program analysis, assessment of advanced technology, force planning, and strategies implications of political-military developments. CNA provides analytic support and conducts individual analytic efforts for a wide range of DoN sponsors including: OPNAV and HQMC, the Navy Secretariat, Type Commanders, the numbered Fleets and Navy/Marine Corps component commanders, Combatant Commands, and SYSCOMs. It often also provides support to the Office of the Secretary of Defense, other military Services and Defense agencies.</p> <p>FY 2021 Plans: Perform studies and analysis on critical Navy priorities tied to the NDS.</p> <p>FY 2022 Base Plans:</p>					

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605154N / <i>Center For Naval Analyses</i>	Project (Number/Name) 0148 / <i>Center For Naval Analyses (CNA)</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
<p>In FY22 CNA will continue providing support on Navy analytic priorities. As the only Navy sponsored FFRDC, CNA will continue to partner in the development of future initiatives, provide on-site analytic support to various organizations, and provide analytical support to selected wargames and exercises; providing detailed analysis of each event to identify areas of improvement for Navy operational procedures and doctrine.</p> <p>CNA's core competencies ensure the DoN can maintain access to analytic support for the following:</p> <ul style="list-style-type: none"> - Assisting operating military forces develop or evaluate new tactics; test or employ new equipment, or plan, conduct and learn from real-world operations - Developing, promulgating, evaluating or refining policies, strategies, or doctrine - Assessing the potential utility of new technologies; the relative need for new systems or capabilities, or the cost and consequences of acquiring a particular system or family of systems - Studies or analysis of issues involving workforce management, sustainment, medical, readiness and logistics, and installations and infrastructure - Program planning covering the long-term evolution of missions, the integration or improvement of capabilities; the acquisition of supplies or services; or the size and shape of future forces <p>Over 320 studies conducted in FY 2020. Selected analytic efforts supported include:</p> <ul style="list-style-type: none"> - Improving data analytics and performance to plan - Improving readiness management - Understanding great power dynamics - Operating the Navy more efficiently and effectively - Strategic workforce planning - Enabling distributed networked operations - Leveraging autonomy to establish and maintain dominance over emerging threats - Navy strategy and policy - Maintaining maritime superiority today and in the future <p>FY 2022 OCO Plans: N/A</p> <p>FY 2021 to FY 2022 Increase/Decrease Statement: FY22 decrease is associated with the Department's programmatic decrease for total force manpower restructuring reducing contracted services.</p>					
Accomplishments/Planned Programs Subtotals	40.011	37.914	32.466	0.000	32.466

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Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
1319 / 6	PE 0605154N / <i>Center For Naval Analyses</i>	0148 / <i>Center For Naval Analyses (CNA)</i>

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

N/A

Remarks

D. Acquisition Strategy

N/A