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Exhibit R-2, RDT&E Budget Item Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319: <i>Research, Development, Test & Evaluation, Navy / BA 6: RDT&E Management Support</i>	R-1 Program Element (Number/Name) PE 0605898N / <i>Management HQ - R&D</i>
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
Total Program Element	0.000	35.018	40.648	41.331	-	41.331	44.711	44.757	41.302	42.141	Continuing	Continuing
0223: <i>Sub Combat System Improvement (ADV)</i>	0.000	0.119	0.130	0.132	-	0.132	0.131	0.132	0.133	0.123	Continuing	Continuing
0824: <i>Science & Technology Management</i>	0.000	17.892	23.317	22.079	-	22.079	26.555	26.394	22.754	23.210	Continuing	Continuing
1447: <i>Surf Combatant Combat System Imp</i>	0.000	0.212	0.210	0.096	-	0.096	0.231	0.217	0.183	0.187	Continuing	Continuing
3159: <i>Naval Integrated Fire Control-Counter Air SE&I</i>	0.000	0.208	0.205	0.094	-	0.094	0.227	0.213	0.181	0.185	Continuing	Continuing
3186: <i>Air and Missile Defense Radar</i>	0.000	0.508	0.324	0.461	-	0.461	0.753	0.634	0.556	0.567	Continuing	Continuing
3345: <i>ONR Management Headquarters</i>	0.000	16.079	16.462	18.469	-	18.469	16.814	17.167	17.495	17.869	Continuing	Continuing

A. Mission Description and Budget Item Justification

The Management HQ - R&D program funds management headquarter civilian personnel salaries at the Office of Naval Research (ONR). These personnel support the management of the Naval Science and Technology (S&T) programs. This program also funds management headquarter contractor support for the Integrated Warfare Systems (IWS) Program Executive Office.

B. Program Change Summary (\$ in Millions)

	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>
Previous President's Budget	35.614	40.648	39.370	-	39.370
Current President's Budget	35.018	40.648	41.331	-	41.331
Total Adjustments	-0.596	0.000	1.961	-	1.961
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.596	0.000			
• Program Adjustments	0.000	0.000	1.842	-	1.842

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• Rate/Misc Adjustments	0.000	0.000	0.119	-	0.119
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Change Summary Explanation

Funding: The FY 2024 funding increase of \$1,961K supports planned manpower increases, inflation and civilian pay economic assumptions.

Technical: No significant change.

Schedule: No significant change.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605898N / Management HQ - R&D	Project (Number/Name) 0223 / Sub Combat System Improvement (ADV)
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
0223: Sub Combat System Improvement (ADV)	0.000	0.119	0.130	0.132	-	0.132	0.131	0.132	0.133	0.123	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides management headquarters contractor support to the Integrated Warfare Systems (IWS) Program Executive Office (PEO). This work supports Navy Acoustic Superiority and Technology Insertion Initiatives through the application of advanced development and testing of sensors and sensor processing systems supporting tactical control systems improvements. This addresses technology challenges to improve tactical control in littoral and open ocean environments for a variety of operational missions.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Management Headquarters Personnel	0.119	0.130	0.132	0.000	0.132
Articles:	-	-	-	-	-
FY 2023 Plans: - Continue Advanced Processing Build (APB) development, integration, land-based testing, at-sea testing, and establishment of tactical scenarios.					
FY 2024 Base Plans: - Continue Advanced Processing Build (APB) development, integration, land-based testing, at-sea testing, and establishment of tactical scenarios.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: - FY 2023 (\$0.130) to FY 2024 (\$0.132M) increase (\$+0.002M) is associated with inflation.					
Accomplishments/Planned Programs Subtotals	0.119	0.130	0.132	0.000	0.132

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

N/A

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605898N / <i>Management HQ - R&D</i>	Project (Number/Name) 0223 / <i>Sub Combat System Improvement (ADV)</i>

D. Acquisition Strategy
N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy										Date: March 2023		
Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605898N / Management HQ - R&D				Project (Number/Name) 0824 / Science & Technology Management			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
0824: Science & Technology Management	0.000	17.892	23.317	22.079	-	22.079	26.555	26.394	22.754	23.210	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds all basic costs of Office of Naval Research Management Headquarters Activity (MHA) non-labor in support of the entire Navy Science & Technology (S&T) program. Through this support, the S&T enterprise pursues the technological advances that enable the Fleet's ability to operate from a position of technological superiority.

Specifically, funding facilitates the execution of the Navy's basic research, applied research, and advanced technology development programs at the nation's universities/colleges, Navy laboratories, Warfare Centers, and private industry.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Science and Technology Management	17.892	23.317	22.079	0.000	22.079
Articles:	-	-	-	-	-
FY 2023 Plans: Continue to provides corporate MHA Non-Labor support in facilitating the purchase of the S&T programs for the Navy to ensure consistent external reporting. Imitate start of new structure within building.					
FY 2024 Base Plans: Continue to provides corporate MHA Non-Labor support in facilitating the purchase of the S&T programs for the Navy to ensure consistent external reporting. Inmate start of new structure within building.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: Reduction due to CIVPERS adjustments and realignment of funds to Project 3345: ONR Management Headquarters Personnel					
Accomplishments/Planned Programs Subtotals	17.892	23.317	22.079	0.000	22.079

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605898N / <i>Management HQ - R&D</i>	Project (Number/Name) 0824 / <i>Science & Technology Managment</i>
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C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605898N / Management HQ - R&D	Project (Number/Name) 1447 / Surf Combatant Combat System Imp
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
1447: Surf Combatant Combat System Imp	0.000	0.212	0.210	0.096	-	0.096	0.231	0.217	0.183	0.187	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides management headquarters contractor support to the Integrated Warfare System (IWS) Program Executive Office (PEO). This work supports Cruiser and Destroyer AEGIS Combat System (ACS) upgrades and integrates new equipment and systems to pace the threat and capture advances in technology.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Management Headquarter Personnel	0.212	0.210	0.096	0.000	0.096
Articles:	-	-	-	-	-
FY 2023 Plans: Continue to support Cruiser and Destroyer AEGIS Combat System (ACS) upgrades and integrate new equipment and systems to pace the threat and capture advances in technology.					
FY 2024 Base Plans: Continue to support Cruiser and Destroyer AEGIS Combat System (ACS) upgrades and integrate new equipment and systems to pace the threat and capture advances in technology.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: Decrease due to manning efficiencies as result of Department of Navy Total Workforce Management initiative.					
Accomplishments/Planned Programs Subtotals	0.212	0.210	0.096	0.000	0.096

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605898N / Management HQ - R&D	Project (Number/Name) 3159 / Naval Integrated Fire Control-Counter Air SE&I
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
3159: Naval Integrated Fire Control-Counter Air SE&I	0.000	0.208	0.205	0.094	-	0.094	0.227	0.213	0.181	0.185	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides management headquarters contractor support to the Integrated Warfare System (IWS) Program Executive Office (PEO). This work supports Naval Integrated Fire Control - Counter Air (NIFC-CA) project. Through this support technological advances are being developed enabling PEO IWS to extend the Naval Theater Air and Missile Defense battlespace out to the maximum kinematic range of our weapons.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Management Headquarter Personnel	0.208	0.205	0.094	0.000	0.094
Articles:	-	-	-	-	-
FY 2023 Plans: Support the Navy's research and development efforts for NIFC-CA's System Engineering, Integration and Test (SEI&T) project. Assist with Test Events At SEA and Land Based Test events.					
FY 2024 Base Plans: Support the Navy's research and development efforts for NIFC-CA's System Engineering, Integration and Test (SEI&T) project. Assist with Test Events At SEA and Land Based Test events.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: Decrease due to manning efficiencies as result of Department of Navy Total Workforce Management initiative.					
Accomplishments/Planned Programs Subtotals	0.208	0.205	0.094	0.000	0.094

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

N/A

Remarks

D. Acquisition Strategy

N/A

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy **Date:** March 2023

Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605898N / Management HQ - R&D	Project (Number/Name) 3186 / Air and Missile Defense Radar
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COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
3186: Air and Missile Defense Radar	0.000	0.508	0.324	0.461	-	0.461	0.753	0.634	0.556	0.567	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project provides management headquarters contractor support to the Integrated Warfare System (IWS) Program Executive Office (PEO). Through this support, technological advances are being developed, enabling PEO IWS to deliver "Enterprise" solutions for Naval Warfare Systems that operate seamlessly and effectively within the Fleet and Joint Forces.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Management Headquarter Personnel	0.508	0.324	0.461	0.000	0.461
Articles:	-	-	-	-	-
FY 2023 Plans: Continue risk reduction testing at Advanced Radar Development Evaluation Laboratory (ARDEL), including refinement of radar operation functions (calibration, fault detection/fault isolation, environmental adaptation), improving electronic protection capabilities, and continue data collection on ballistic missile defense targets of opportunity.					
FY 2024 Base Plans: Continue risk reduction testing at ARDEL, including refinement of radar operation functions (calibration, fault detection/fault isolation, environmental adaptation), improving electronic protection capabilities, and continue data collection on ballistic missile defense targets of opportunity.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement: Increase aligns with planned development and test efforts.					
Accomplishments/Planned Programs Subtotals	0.508	0.324	0.461	0.000	0.461

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605898N / Management HQ - R&D	Project (Number/Name) 3186 / Air and Missile Defense Radar
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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u> <u>Base</u>	<u>FY 2024</u> <u>OCO</u>	<u>FY 2024</u> <u>Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• RDT&E/0604522N: <i>Air and Missile Defense Radar (AMDR) System</i>	98.186	90.538	90.174	-	90.174	91.269	84.381	0.000	0.000	Continuing	Continuing

Remarks

D. Acquisition Strategy

N/A

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Appropriation/Budget Activity 1319 / 6					R-1 Program Element (Number/Name) PE 0605898N / Management HQ - R&D				Project (Number/Name) 3345 / ONR Management Headquarters			
COST (\$ in Millions)	Prior Years	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total	FY 2025	FY 2026	FY 2027	FY 2028	Cost To Complete	Total Cost
3345: ONR Management Headquarters	0.000	16.079	16.462	18.469	-	18.469	16.814	17.167	17.495	17.869	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This project funds all basic costs of Office of Naval Research Management Headquarters Activity (MHA) salaries in support of the entire Navy Science & Technology (S&T) program. Through this support, the S&T enterprise pursues the technological advances that enable the Fleet's ability to operate from a position of technological superiority.

Specifically, funding facilitates the execution of the Navy's basic research, applied research, and advanced technology development programs at the nation's universities/colleges, Navy laboratories, Warfare Centers, and private industry.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: Management Headquarters Personnel	16.079	16.462	18.469	0.000	18.469
Articles:	-	-	-	-	-
Description: N/A					
FY 2023 Plans: Continue to provides corporate MHA personnel salaries to facilitate the purchase of the S&T programs for the Navy to ensure consistent external reporting. All Non-Operational HQ is now Major Headquarters Activity (MHA). Continue to reduce auditability challenges to meet the mandate.					
FY 2024 Base Plans: Continue to provides corporate MHA personnel salaries to facilitate the purchase of the S&T programs for the Navy to ensure consistent external reporting. Continue to reduce auditability challenges to meet the mandate.					
FY 2024 OCO Plans: N/A					
FY 2023 to FY 2024 Increase/Decrease Statement:					

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Appropriation/Budget Activity 1319 / 6	R-1 Program Element (Number/Name) PE 0605898N / <i>Management HQ - R&D</i>	Project (Number/Name) 3345 / <i>ONR Management Headquarters</i>
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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Increase due to pricing adjustments and realignment of funds from Project: 0824 Science & Technology Management Personnel.					
Accomplishments/Planned Programs Subtotals	16.079	16.462	18.469	0.000	18.469

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

N/A

Remarks

D. Acquisition Strategy

N/A