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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 7: Operational Systems Development</i>					R-1 Program Element (Number/Name) PE 0204313N / <i>Ship-Towed Array Surveillance Systems</i>							
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	47.574	6.080	1.188	1.103	-	1.103	1.462	1.738	4.975	2.002	Continuing	Continuing
3261: <i>TAGOS Design & Total Ship Integration</i>	47.574	6.080	1.188	1.103	-	1.103	1.462	1.738	4.975	2.002	Continuing	Continuing

A. Mission Description and Budget Item Justification

T-AGOS are Ocean surveillance ships that gather underwater acoustical data to support the Integrated Undersea Surveillance System (IUSS) mission by providing a ship platform capable of theater anti-submarine passive and active acoustic surveillance. T-AGOS ships are operated by Military Sealift Command (MSC) to support the anti-submarine warfare (ASW) mission of Atlantic and Pacific Fleet Commanders. Both classes of T-AGOS ships use the Surveillance Towed-Array Sensor System (SURTASS) to gather undersea acoustic data. They also carry electronic equipment to process and transmit that data via satellite to shore stations for evaluation. Funding in this budget will recapitalize Navy's Auxiliary General Ocean Surveillance (T-AGOS) ships (four T-AGOS 19 Class vessels & one T-AGOS 23 Class vessel) with a total of seven (7) T-AGOS 25 Class ships based on the 2016 N81 Force Structure Assessment (FSA).

B. Program Change Summary (\$ in Millions)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Previous President's Budget	6.261	1.188	0.905	-	0.905
Current President's Budget	6.080	1.188	1.103	-	1.103
Total Adjustments	-0.181	0.000	0.198	-	0.198
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.181	0.000			
• Program Adjustments	0.000	0.000	0.181	-	0.181
• Rate/Misc Adjustments	0.000	0.000	0.017	-	0.017

Change Summary Explanation

Decrease of \$0.085 million as the program transitions from acquisition efforts to Test & Evaluation.

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Exhibit R-2A, RDT&E Project Justification: PB 2024 Navy										Date: March 2023		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0204313N / <i>Ship-Towed Array Surveillance Systems</i>				Project (Number/Name) 3261 / <i>TAGOS Design & Total Ship Integration</i>			
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
3261: <i>TAGOS Design & Total Ship Integration</i>	47.574	6.080	1.188	1.103	-	1.103	1.462	1.738	4.975	2.002	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

T-AGOS are ocean surveillance ships that gather underwater acoustical data to support the mission of the Integrated Undersea Surveillance System (IUSS) by providing a ship platform capable of theater anti-submarine acoustic passive and active surveillance. Auxiliary General Ocean Surveillance Ships (T-AGOS) are operated by Military Sealift Command to support the anti-submarine warfare mission of the commanders of the Atlantic and Pacific Fleets. The two current classes of surveillance ships use Surveillance Towed-Array Sensor System (SURTASS) equipment to gather undersea acoustic data. The ships also carry electronic equipment to process and transmit that data via satellite to shore stations for evaluation. Funding will support recapitalization of the four Small Waterplane Area Twin Hull (SWATH) T-19 Class and one SWATH T-23 Class.

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

	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Title: T-AGOS 25 Class Design & Total Ship Integration	6.080	1.188	1.103	0.000	1.103
Articles:	-	-	-	-	-
FY 2023 Plans:					
- Coordinate T&E events with OPTEVFOR, Maritime Surveillance Systems Program Office (PMS 485), Military Sealift Command (MSC), and OPNAV.					
- Conduct Milestone B/C.					
- Draft Developmental Test Plan.					
- Conduct Cybersecurity Testing.					
FY 2024 Base Plans:					
- Continue T&E events with OPTEVFOR, Maritime Surveillance Systems Program Office (PMS 485), MSC, and OPNAV.					
- Finish Developmental Test Plan.					
- Continue Cybersecurity Testing.					
FY 2024 OCO Plans:					
N/A					
FY 2023 to FY 2024 Increase/Decrease Statement:					

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Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204313N / <i>Ship-Towed Array Surveillance Systems</i>	Project (Number/Name) 3261 / <i>TAGOS Design & Total Ship Integration</i>

B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)	FY 2022	FY 2023	FY 2024 Base	FY 2024 OCO	FY 2024 Total
Decrease of \$0.085 million as the program transitions from acquisition efforts to Test & Evaluation.					
Accomplishments/Planned Programs Subtotals	6.080	1.188	1.103	0.000	1.103

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

<u>Line Item</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024 Base</u>	<u>FY 2024 OCO</u>	<u>FY 2024 Total</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• SCN/5030: <i>TAGOS Surtass Ships</i>	434.384	0.000	355.166	-	355.166	433.858	416.613	421.135	427.134	876.750	3,365.040
• SCN/5300: <i>Completion of PY Shpbldg Progr</i>	0.000	0.000	355.166	-	355.166	0.000	0.000	0.000	0.000	0.000	355.166

Remarks

D. Acquisition Strategy

Issued Request For Proposal (RFP) for industry studies and awarded in FY 2020. Issued RFP for Detail Design and Construction (DD&C) in FY 2022. Award DD&C in FY 2024 for lead ship with options.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2024 Navy												Date: March 2023			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
1319 / 7				PE 0204313N / Ship-Towed Array Surveillance Systems				3261 / TAGOS Design & Total Ship Integration							
Product Development (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Engineering Integration/ Design	Various	Various : Various	16.845	2.919	Nov 2021	0.800	Mar 2023	0.000		-		0.000	0.000	20.564	-
Industry Studies	C/FFP	Various : Various	6.275	0.000		0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Model Testing	WR	Carderock : Bethesda, MD	6.140	0.000		0.000		0.000		-		0.000	0.000	6.140	-
SURTASS Integration	Various	Various : Various	3.600	0.800	May 2022	0.000		0.000		-		0.000	0.000	4.400	-
Subtotal			32.860	3.719		0.800		0.000		-		0.000	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Milestone Documentation/ RFP Development	Various	Various : Various	4.547	0.900	May 2022	0.000		0.000		-		0.000	0.000	5.447	-
Specification & Technical Data Package Development	Various	Various : Various	6.055	0.000		0.000		0.000		-		0.000	0.000	6.055	-
Systems Integration (C4I/ Safety/Risk)	Various	Various : Various	2.967	0.800	May 2022	0.200	Apr 2023	0.000		-		0.000	0.000	3.967	-
Source Selection Support	Various	Various : Various	0.000	0.100	May 2022	0.000		0.000		-		0.000	0.000	0.100	-
Subtotal			13.569	1.800		0.200		0.000		-		0.000	0.000	15.569	N/A
Test and Evaluation (\$ in Millions)				FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 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
Developmental Test & Evaluation (DT&E)	Various	Various : Various	1.145	0.561	May 2022	0.188	Feb 2023	1.103	Jan 2024	-		1.103	10.885	13.882	-
Subtotal			1.145	0.561		0.188		1.103		-		1.103	10.885	13.882	N/A

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	Prior Years	FY 2022		FY 2023		FY 2024 Base		FY 2024 OCO		FY 2024 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	47.574	6.080		1.188		1.103		-		1.103	Continuing	Continuing	N/A

Remarks
 Decrease of \$0.085 million as the program transitions from acquisition efforts to Test & Evaluation.

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Exhibit R-4A, RDT&E Schedule Details: PB 2024 Navy		Date: March 2023
Appropriation/Budget Activity 1319 / 7	R-1 Program Element (Number/Name) PE 0204313N / <i>Ship-Towed Array Surveillance Systems</i>	Project (Number/Name) 3261 / <i>TAGOS Design & Total Ship Integration</i>

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
Proj 3261				
Milestone B/C	1	2024	1	2024
Lead Hull Detail Design & Construction Award	2	2024	2	2024
Developmental Testing (DT): DT Phase B - Production Acceptance Test & Evaluation (PAT&E)	1	2024	1	2028
Developmental Testing (DT): DT Phase C - Post Delivery Test and Trials (PDT&T)	2	2028	2	2028
Operational Testing (OT): Calm Water Trials	1	2028	4	2028
Operational Testing (OT): Rough Water Trials	4	2028	4	2028