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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 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 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	15.250	14.449	10.825	6.261	-	6.261	-	-	-	-	-	-
3261: <i>TAGOS Design & Total Ship Integration</i>	15.250	14.449	10.825	6.261	-	6.261	-	-	-	-	-	-

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(X) ships based on the 2016 N81 Force Structure Assessment (FSA).

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(X) ships based on the 2016 N81 Force Structure Assessment (FSA)

B. Program Change Summary (\$ in Millions)	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Previous President's Budget	14.449	10.873	8.070	-	8.070
Current President's Budget	14.449	10.825	6.261	-	6.261
Total Adjustments	0.000	-0.048	-1.809	-	-1.809
• Congressional General Reductions	-	-0.048			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	-1.700	-	-1.700
• Rate/Misc Adjustments	0.000	0.000	-0.109	-	-0.109

Change Summary Explanation

The FY 2022 funding request was reduced by \$1.7 million to account for the availability of prior year execution balances.

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

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 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
3261: <i>TAGOS Design & Total Ship Integration</i>	15.250	14.449	10.825	6.261	-	6.261	-	-	-	-	-	-
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
Title: T-AGOS (X) Design & Total Ship Integration	14.449	10.825	6.261	0.000	6.261
Articles:	-	-	-	-	-
FY 2021 Plans:					
- Complete industry studies, model testing, preliminary/contract design, and development of specification and Technical Data Package (TDP) for inclusion in the DD&C RFP.					
- Issue DD&C RFP and complete acquisition documentation to support Gate 4/5.					
- Continue development of Milestone B/C documentation.					
- Continue to coordinate acquisition efforts with NAVSEA, MSC, PEO SHIPS, CNO, ASN RD&A, OSD, and Fleet.					
FY 2022 Base Plans:					
- Receive proposals and conduct source selection for DD&C Award					
- Complete acquisition documentation in support of Milestone B/C					
- Conduct Milestone B/C and award DD&C contract					
- Continue to coordinate acquisition efforts with NAVSEA, MSC, PEO SHIPS, CNO, ASN RD&A, OSD, and Fleet.					
FY 2022 OCO Plans:					

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Navy		Date: May 2021
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 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total
N/A					
<i>FY 2021 to FY 2022 Increase/Decrease Statement:</i> The funding decrease in FY22 is due to completion of industry studies, model testing, and specification and Technical Data Package (TDP) in addition to re-phasing of \$1.8M to FY23 and FY24.					
Accomplishments/Planned Programs Subtotals	14.449	10.825	6.261	0.000	6.261

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• SCN/5030: <i>TAGOS Surtass Ships</i>	0.000	0.000	434.384	-	434.384	-	-	-	-	-	-

Remarks

D. Acquisition Strategy
Issued Request For Proposal (RFP) for industry studies and awarded in FY20. Issue RFP for Detail Design and Construction (DD&C) in FY21. Award DD&C in FY22 for lead ship with options.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Navy												Date: May 2021			
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 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	6.194	4.353	Feb 2020	4.055	Jan 2021	3.100	Nov 2021	-		3.100	-	-	-
Industry Studies	C/FFP	Various : Various	0.000	4.275	Jul 2020	2.000	Nov 2020	0.000		-		0.000	-	-	-
Model Testing	WR	Carderock : Bethesda, MD	3.700	1.940	Apr 2020	0.500	Jan 2021	0.000		-		0.000	-	-	-
SURTASS Integration	Various	Various : Various	1.300	0.500	Feb 2020	0.800	Jan 2021	0.800	Nov 2021	-		0.800	-	-	-
Subtotal			11.194	11.068		7.355		3.900		-		3.900	-	-	N/A
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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	1.224	0.923	Feb 2020	1.100	Jan 2021	0.900	Nov 2021	-		0.900	-	-	-
Specification & Technical Data Package Development	Various	Various : Various	2.132	1.451	Feb 2020	1.365	Jan 2021	0.000		-		0.000	-	-	-
Systems Integration (C4I/ Safety/Risk)	Various	Various : Various	0.500	0.807	Feb 2020	0.660	Jan 2021	0.800	Nov 2021	-		0.800	-	-	-
Source Selection Support	Various	Various : Various	0.000	0.000		0.000		0.100	Nov 2021	-		0.100	-	-	-
Subtotal			3.856	3.181		3.125		1.800		-		1.800	-	-	N/A
Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 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
Test and Evaluation	Various	Various : Various	0.200	0.200	Jun 2020	0.345	Jan 2022	0.561	Nov 2021	-		0.561	-	-	-
Subtotal			0.200	0.200		0.345		0.561		-		0.561	-	-	N/A

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Exhibit R-4, RDT&E Schedule Profile: PB 2022 Navy **Date:** May 2021

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Proj 3261	FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	
			▲ IPR		Industry Studies			▲ IPR II					▲ MS B/C																
													▲ DD&C																
													DT																

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Navy		Date: May 2021
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 3261</i>				
Interim Program Review (IPR)	3	2020	3	2020
Industry Studies	4	2020	3	2021
Interim Program Review (IPR) II	4	2021	4	2021
Milestone B/C	4	2022	4	2022
Lead Hull DD&C Award	4	2022	4	2022
Developmental Testing (DT)	4	2022	4	2022