

UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Navy **Date:** April 2022

Appropriation/Budget Activity	R-1 Program Element (Number/Name)											
1319: <i>Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development</i>	PE 0204313N / <i>Ship-Towed Array Surveillance Systems</i>											
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	29.699	10.825	6.261	1.188	-	1.188	0.905	3.511	2.396	2.292	Continuing	Continuing
3261: <i>TAGOS Design & Total Ship Integration</i>	29.699	10.825	6.261	1.188	-	1.188	0.905	3.511	2.396	2.292	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-AGOS25 Class ships based on the 2016 N81 Force Structure Assessment (FSA).

B. Program Change Summary (\$ in Millions)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	10.825	6.261	0.000	-	0.000
Current President's Budget	10.825	6.261	1.188	-	1.188
Total Adjustments	0.000	0.000	1.188	-	1.188
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.000	-	0.000
• Adjustments to Budget Year	-	-	1.188	-	1.188

Change Summary Explanation

 FY 2023 funding increase reflects the fact that the FY 2022 President's Budget request did not include out-year funding.

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy										Date: April 2022		
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
3261: <i>TAGOS Design & Total Ship Integration</i>	29.699	10.825	6.261	1.188	-	1.188	0.905	3.511	2.396	2.292	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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Title: T-AGOS 25 Class Design & Total Ship Integration	10.825	6.261	1.188	0.000	1.188
Articles:	-	-	-	-	-
FY 2022 Plans:					
- Receive proposals and conduct source selection for DD&C Award					
- Complete acquisition documentation in support of Milestone B/C					
- Continue to coordinate acquisition efforts with NAVSEA, MSC, PEO SHIPS, CNO, ASN RD&A, OSD, and Fleet.					
FY 2023 Base Plans:					
- Coordinate T&E events with COMOPTEVFOR, Maritime Surveillance Systems Program Office (PMS485), MSC and OPNAV					
- Conduct Milestone B/C and award DD&C contract					
- Draft Developmental Test Plan					
- Conduct Cybersecurity Testing					
FY 2023 OCO Plans:					
N/A					
FY 2022 to FY 2023 Increase/Decrease Statement:					

UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2023 Navy		Date: April 2022
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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Funding decreases by \$5.143M. as the program approaches DD&C award in FY23 and transitions to Lead Hull Test & Evaluation efforts only.					
Accomplishments/Planned Programs Subtotals	10.825	6.261	1.188	0.000	1.188

C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023 Base</u>	<u>FY 2023 OCO</u>	<u>FY 2023 Total</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• SCN/5030: <i>TAGOS Surtass Ships</i>	0.000	434.384	0.000	-	0.000	0.000	433.856	817.012	415.034	883.893	2,984.179

Remarks

D. Acquisition Strategy

Issued Request For Proposal (RFP) for industry studies and awarded in FY20. Issued RFP for Detail Design and Construction (DD&C) in FY22. Award DD&C in FY23 for lead ship with options.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy **Date:** April 2022

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>
--	--	---

Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Engineering Integration/ Design	Various	Various : Various	10.547	4.055	Jan 2021	3.100	Nov 2021	0.000		-		0.000	0.000	17.702	-
Industry Studies	C/FFP	Various : Various	4.275	2.000	Nov 2020	0.000		0.000		-		0.000	Continuing	Continuing	Continuing
Model Testing	WR	Carderock : Bethesda, MD	5.640	0.500	Jan 2021	0.000		0.000		-		0.000	0.000	6.140	-
SURTASS Integration	Various	Various : Various	1.800	0.800	Jan 2021	0.800	May 2022	0.000		-		0.000	0.000	3.400	-
Subtotal			22.262	7.355		3.900		0.000		-		0.000	Continuing	Continuing	N/A

Remarks
Decrease from FY 2022 to FY 2023 due to Detail Design and Construction contract in FY23 and transition to Lead Hull Test and Evaluation efforts.

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Milestone Documentation/ RFP Development	Various	Various : Various	2.147	1.100	Jan 2021	0.900	May 2022	0.000		-		0.000	0.000	4.147	-
Specification & Technical Data Package Development	Various	Various : Various	3.583	1.365	Jan 2021	0.000		0.000		-		0.000	0.000	4.948	-
Systems Integration (C4I/ Safety/Risk)	Various	Various : Various	1.307	0.660	Jan 2021	0.800	May 2022	0.000		-		0.000	0.000	2.767	-
Source Selection Support	Various	Various : Various	0.000	0.000		0.100	May 2022	0.000		-		0.000	0.000	0.100	-
Subtotal			7.037	3.125		1.800		0.000		-		0.000	0.000	11.962	N/A

Test and Evaluation (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test and Evaluation	Various	Various : Various	0.400	0.345	Jan 2022	0.561	May 2022	1.188	Nov 2022	-		1.188	9.440	11.934	-
Subtotal			0.400	0.345		0.561		1.188		-		1.188	9.440	11.934	N/A

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Navy							Date: April 2022				
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>				
	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract		
Project Cost Totals	29.699	10.825	6.261	1.188	-	1.188	Continuing	Continuing	N/A		

Remarks
Decrease from FY 2022 to FY 2023 due to Detail Design and Construction contract in FY23 and transition to Lead Hull Test and Evaluation efforts.

UNCLASSIFIED

Exhibit R-4, RDT&E Schedule Profile: PB 2023 Navy **Date:** April 2022

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>
--	--	---

Proj 3261	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027					
	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 II ▲				MS B/C ▲	DD&C ▲																				
													DT																	

2023PB - 0204313N - 3261

UNCLASSIFIED

Exhibit R-4A, RDT&E Schedule Details: PB 2023 Navy		Date: April 2022
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
<i>Proj 3261</i>				
Interim Program Review (IPR) II	1	2022	1	2022
Milestone B/C	1	2023	1	2023
Lead Hull DD&C Award	2	2023	2	2023
Developmental Testing (DT)	2	2023	1	2027