

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Navy										Date: March 2019		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy / BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0204313N / SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	15.454	14.449	-	14.449	10.748	6.079	0.000	0.000	0.000	46.730
3261: TAGOS Design & Total Ship Integration	0.000	0.000	15.454	14.449	-	14.449	10.748	6.079	0.000	0.000	0.000	46.730

## A. Mission Description and Budget Item Justification

This program was previously funded in FY 2018 under Program Element 0603564N (Ship Preliminary Design and Feasibility Studies) Project 3261 (TAGOS Design and Total Ship Integration). This program element continues efforts started under the previous program element and is not a new start. FY20 funding will enable the program to complete Preliminary Design, start contract design and continue industry participation.

T-AGOS Design & Total Ship Integration - Ocean surveillance ships gather underwater acoustical data to support the mission of the Integrated Undersea Surveillance System 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 SWATH (T-19 Class) and one SWATH (T-23 Class) Auxiliary General Ocean Surveillance ships (T-AGOS).

<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2018</b>	<b>FY 2019</b>	<b>FY 2020 Base</b>	<b>FY 2020 OCO</b>	<b>FY 2020 Total</b>
Previous President's Budget	0.000	15.454	14.449	-	14.449
Current President's Budget	0.000	15.454	14.449	-	14.449
Total Adjustments	0.000	0.000	0.000	0.000	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

# UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: PB 2020 Navy									Date: March 2019			
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0204313N / SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS				Project (Number/Name) 3261 / TAGOS Design & Total Ship Integration			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
3261: TAGOS Design & Total Ship Integration	0.000	0.000	15.454	14.449	-	14.449	10.748	6.079	0.000	0.000	0.000	46.730
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
A. Mission Description and Budget Item Justification												
T-AGOS Design & Total Ship Integration - Ocean surveillance ships gather underwater acoustical data to support the mission of the Integrated Undersea Surveillance System 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 SWATH (T-19 Class) and one SWATH (T-23 Class) Auxiliary General Ocean Surveillance ships (T-AGOS).												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)								FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: T-AGOS Design  Articles:  FY 2019 Plans: Begin the Navy led Preliminary Design efforts. Continue development of SURTASS interface documentation. Conduct Gate 3 to support submission of the CDD for joint staffing. Develop model to conduct seakeeping and loads tests. Coordinate acquisition efforts with NAVSEA, MSC, PEO SHIPS, CNO, ASN RD&A, OSD, and Fleet.  FY 2020 Base Plans: Award multiple contracts for industry studies. Complete Preliminary Design, start contract design with industry participation. Start development of Request For Proposals (RFP) documentation for Detail Design and Construction (DD&C) Contract and conduct model testing. Continue to coordinate acquisition efforts with NAVSEA, MSC, PEO SHIPS, CNO, ASN RD&A, OSD, and Fleet.  FY 2020 OCO Plans:								0.000	15.454	14.449	0.000	14.449
								-	-	-	-	-

**UNCLASSIFIED**

PE 0204313N: *SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS*  
Navy

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Navy												Date: March 2019			
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0204313N / SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS				Project (Number/Name) 3261 / TAGOS Design & Total Ship Integration					
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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	0.000	0.000		6.155	Jan 2019	5.186	Jan 2020	-		5.186	6.608	17.949	-
Industry Studies (shipyards)	C/FFP	Various : Various	0.000	0.000		0.000		2.000	May 2020	-		2.000	2.000	4.000	-
Model Testing	Various	Various : Various	0.000	0.000		3.700	Jan 2019	2.300	Jan 2020	-		2.300	1.000	7.000	-
SURTASS Integration	Various	Various : Various	0.000	0.000		1.300	Jan 2019	1.000	Jan 2020	-		1.000	1.300	3.600	-
Subtotal			0.000	0.000		11.155		10.486		-		10.486	10.908	32.549	N/A
Remarks FY18 funding is in PE 0603564N P/U 3261.															
Support (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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 Doc/RFP Development	Various	Various : Various	0.000	0.000		1.317	Jan 2019	1.174	Jan 2020	-		1.174	2.340	4.831	-
Specification & TDP Development	Various	Various : Various	0.000	0.000		2.052	Jan 2019	1.729	Jan 2020	-		1.729	1.046	4.827	-
Systems Integration (C4I/ Safety/Risk)	Various	Various : Various	0.000	0.000		0.620	Jan 2019	0.640	Jan 2020	-		0.640	1.227	2.487	-
Source Selection Support	Various	Various : Various	0.000	0.000		0.000	Feb 2019	0.100	Feb 2020	-		0.100	0.300	0.400	-
Subtotal			0.000	0.000		3.989		3.643		-		3.643	4.913	12.545	N/A
Remarks FY18 funding is in PE 0603564N P/U 3261.															

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis:</b> PB 2020 Navy													<b>Date:</b> March 2019		
<b>Appropriation/Budget Activity</b> 1319 / 7						<b>R-1 Program Element (Number/Name)</b> PE 0204313N / <i>SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS</i>				<b>Project (Number/Name)</b> 3261 / <i>TAGOS Design &amp; Total Ship Integration</i>					

<b>Test and Evaluation (\$ in Millions)</b>				<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020 Base</b>		<b>FY 2020 OCO</b>		<b>FY 2020 Total</b>			
<b>Cost Category Item</b>	<b>Contract Method &amp; Type</b>	<b>Performing Activity &amp; Location</b>	<b>Prior Years</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Award Date</b>	<b>Cost</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
Test and Evaluation Planning	Various	Various : Various	0.000	0.000		0.310	Jan 2019	0.320	Jan 2020	-		0.320	1.007	1.637	-
<b>Subtotal</b>			0.000	0.000		0.310		0.320		-		0.320	1.007	1.637	N/A

<b>Remarks</b> FY18 funding is in PE 0603564N P/U 3261.															
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

	<b>Prior Years</b>	<b>FY 2018</b>		<b>FY 2019</b>		<b>FY 2020 Base</b>		<b>FY 2020 OCO</b>		<b>FY 2020 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>
<b>Project Cost Totals</b>	0.000	0.000		15.454		14.449		-		14.449	16.828	46.731	N/A

<b>Remarks</b>															
----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**UNCLASSIFIED**

**Exhibit R-4, RDT&E Schedule Profile: PB 2020 Navy**

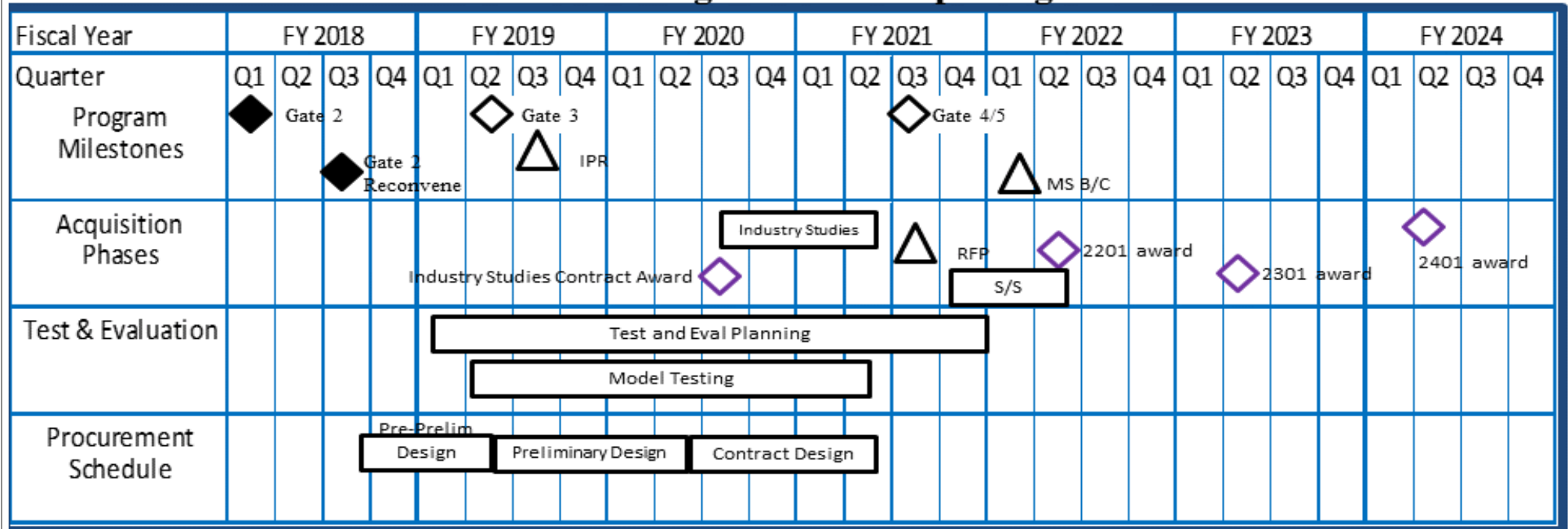
**Date:** March 2019

**Appropriation/Budget Activity**  
1319 / 7

**R-1 Program Element (Number/Name)**  
PE 0204313N / SHIP-TOWED ARRAY  
SURVEILLANCE SYSTEMS

**Project (Number/Name)**  
3261 / TAGOS Design & Total Ship  
Integration

### T-AGOS Design & Total Ship Integration



**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2020 Navy			<b>Date:</b> March 2019
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0204313N / <i>SHIP-TOWED ARRAY SURVEILLANCE SYSTEMS</i>	<b>Project (Number/Name)</b> 3261 / <i>TAGOS Design &amp; Total Ship Integration</i>	

Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b><i>Proj 3261</i></b>				
Gate 3	2	2019	2	2019
Milestone B/C	1	2022	1	2022
DD&C Award	2	2022	2	2022
Interim Program Review	3	2019	3	2019
Gate 2 reconvene	3	2018	3	2018
GATE 4/5	3	2021	3	2021