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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Navy										Date: February 2018		
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	0.000	0.000	0.000	15.454	-	15.454	14.449	10.748	6.079	0.000	0.000	46.730
3261: TAGOS Design & Total Ship Integration	0.000	0.000	0.000	15.454	-	15.454	14.449	10.748	6.079	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.

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 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. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	0.000	0.000	0.000	-	0.000
Current President's Budget	0.000	0.000	15.454	-	15.454
Total Adjustments	0.000	0.000	15.454	-	15.454
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Program Adjustments	0.000	0.000	15.454	-	15.454

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<u>Change Summary Explanation</u> FY 2019 continues funding efforts previously financed under Program Element 0603564N (Ship Preliminary Design and Feasibility Studies) Project 3261 (TAGOS Design and Total Ship Integration).		

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Exhibit R-2A, RDT&E Project Justification: PB 2019 Navy										Date: February 2018		
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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
3261: TAGOS Design & Total Ship Integration	0.000	0.000	0.000	15.454	-	15.454	14.449	10.748	6.079	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 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Title: T-AGOS Design	0.000	0.000	15.454	0.000	15.454
Articles:	-	-	-	-	-
FY 2018 Plans: Funding for FY18 is in PE 0603564N (Ship Preliminary Design and Feasibility Studies) Project 3261 (TAGOS Design and Total Ship Integration). FY18 funding amount is 12.012 million.					
FY 2019 Base Plans: Award multiple contracts for industry studies. Begin the Navy led Preliminary Design efforts with industry participation. 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 2019 OCO Plans: N/A					
FY 2018 to FY 2019 Increase/Decrease Statement:					

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B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)				FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total			
Funding increase from FY18 (\$12.012 million) is to begin the design efforts with industry and model development for testing.											
Accomplishments/Planned Programs Subtotals				0.000	0.000	15.454	0.000	15.454			
C. Other Program Funding Summary (\$ in Millions)											
<u>Line Item</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019 Base</u>	<u>FY 2019 OCO</u>	<u>FY 2019 Total</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>Cost To Complete</u>	<u>Total Cost</u>
• SCN/5030: TAGOS Surtass Ships	0.000	0.000	0.000	-	0.000	0.000	0.000	343.244	369.000	901.000	1,613.244
Remarks											
D. Acquisition Strategy											
Develop CDD, conduct trade studies and Pre-Preliminary Design in FY18. Issue RFP for Industry Studies for award of multiple contracts in FY19 to participate in Navy-led Preliminary/Contract Design (PD/CD) efforts. Complete Navy-led PD/CD efforts in FY21in order to issue Detail Design and Construction (DD&C) RFP and award to a single shipbuilder in FY22 for DD&C of a Lead Ship with options for up to four follow-on ships.											
E. Performance Metrics											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2019 Navy												Date: February 2018			
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 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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		0.000		4.338	Jan 2019	-		4.338	12.724	17.062	-
Industry Studies (shipyards)	C/FFP	Various : Various	0.000	0.000		0.000		4.000	May 2019	-		4.000	3.000	7.000	-
Model Testing	Various	Various : Various	0.000	0.000		0.000		2.124	Jan 2019	-		2.124	1.000	3.124	-
SURTASS Integration	Various	Various : Various	0.000	0.000		0.000		0.800	Jan 2019	-		0.800	2.800	3.600	-
Subtotal			0.000	0.000		0.000		11.262		-		11.262	19.524	30.786	N/A
Remarks FY18 funding is in PE 0603564N P/U 3261.															
Support (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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		0.000		1.240	Jan 2019	-		1.240	3.838	5.078	-
Specification & TDP Development	Various	Various : Various	0.000	0.000		0.000		1.446	Jan 2019	-		1.446	3.160	4.606	-
Systems Integration (C4I/ Safety/Risk)	Various	Various : Various	0.000	0.000		0.000		0.930	Jan 2019	-		0.930	2.804	3.734	-
Source Selection Support	Various	Various : Various	0.000	0.000		0.000		0.163	Feb 2019	-		0.163	0.300	0.463	-
Subtotal			0.000	0.000		0.000		3.779		-		3.779	10.102	13.881	N/A
Remarks FY18 funding is in PE 0603564N P/U 3261.															

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Test and Evaluation (\$ in Millions)				FY 2017		FY 2018		FY 2019 Base		FY 2019 OCO		FY 2019 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 Planning	Various	Various : Various	0.000	0.000		0.000		0.413	Jan 2019	-		0.413	1.650	2.063	-
Subtotal			0.000	0.000		0.000		0.413		-		0.413	1.650	2.063	N/A

Remarks
FY18 funding is in PE 0603564N P/U 3261.

	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	0.000	0.000	0.000	15.454	-	15.454	31.276	46.730	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2019 Navy

Date: February 2018

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

Fiscal Year	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022				FY 2023			
Quarter	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Program Milestones	AoA				Gate 2				Gate 3				MS A				Gate 4/5				MS B							
Acquisition Phases									Industry Studies				Indus. Studies Contract Award				RFP				S/S				2201 Award			
Procurement Schedule					Pre-Prelim. Design				Prelim. Design				Contract Design								DD&C				Detail Design			
Test & Evaluation																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2019 Navy			Date: February 2018
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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<i>Proj 3261</i>				
Gate 3	1	2019	1	2019
Milestone B	1	2022	1	2022
DD&C Award	2	2022	2	2022