Modernized Selected Acquisition Report (MSAR)

Auxiliary General Ocean Surveillance Ship (T-AGOS 25)

FY 2025 President's Budget

Effective: December 31, 2023

Defense Acquisition Visibility Environment

Table of Contents

(U) Common DoD Abbreviations

$B	Billions of Dollars
$K	Thousands of Dollars
$M	Millions of Dollars
ACAT	Acquisition Category
Acq O&M	Acquisition-Related Operations and Maintenance
ADM	Acquisition Decision Memorandum
APA	Additional Performance Attribute
APB	Acquisition Program Baseline
APPN	Appropriation
APUC	Average Procurement Unit Cost
BA	Budget Authority or Budget Activity
Blk	Block
BY	Base Year
CAE	Component Acquisition Executive
CAPE	Cost Assessment and Program Evaluation
CARD	Cost Analysis Requirements Description
CCE	Component Cost Estimate
CCP	Component Cost Position
CDD	Capability Development Document
CLIN	Contract Line Item Number
CPD	Capability Production Document
CY	Calendar Year or Constant Year
DAB	Defense Acquisition Board
DAE	Defense Acquisition Executive
DAES	Defense Acquisition Executive Summary
DAVE	Defense Acquisition Visibility Environment
DoD	Department of Defense
DSN	Defense Switched Network
EMD	Engineering and Manufacturing Development
EVM	Earned Value Management
FD	Full Deployment
FDD	Full-Deployment Decision
FMS	Foreign Military Sales
FOC	Full Operational Capability
FRP	Full-Rate Production
FY	Fiscal Year
FYDP	Future Years Defense Program
ICD	Initial Capabilities Document
ICE	Independent Cost Estimate
Inc	Increment
IOC	Initial Operational Capability
IT	Information Technology
JROC	Joint Requirements Oversight Council
KPP	Key Performance Parameter
KSA	Key System Attribute

LRIP	Low-Rate Initial Production
MDA	Milestone Decision Authority
MDAP	Major Defense Acquisition Program
MILCON	Military Construction
N/A	Not Applicable
O	Objective
O&M	Operations and Maintenance
O&S	Operating and Support
ORD	Operational Requirements Document
OSD	Office of the Secretary of Defense
PAUC	Program Acquisition Unit Cost
PB	President's Budget
PE	Program Element
PEO	Program Executive Officer
PM	Program Manager
POE	Program Office Estimate
R&MF	Revolving and Management Funds
RDT&E	Research, Development, Test, and Evaluation
SAR	Selected Acquisition Report
SCP	Service Cost Position
T	Threshold
TBD	To Be Determined
TY	Then Year
U.S.	United States
U.S.C	United States Code
UCR	Unit Cost Reporting
USD(A&S)	Under Secretary of Defense (Acquisition and Sustainment)

(U) Program Description

Full Name
Auxiliary General Ocean Surveillance Ship

Short Name
T-AGOS 25

PNO
CDJ

Milestone Decision Authority
Component Acquisition Executive

Lead Component
Department of the Navy

Program Executive Office
PEO Ships

Joint Program
No

Acquisition Type
Major Defense Acquisition Program

Adaptive Acquisition Pathway
Major Capability Acquisition

Acquired Systems
T-AGOS 25

Acquisition Category
IB

Acquisition Status
Active Acquisition

Mission
Auxiliary General Ocean Surveillance (T-AGOS) ships 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. T-AGOS ships 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 ships.

(U) Responsible Office

Program Executive Officer
PEO Ships
RADM Thomas J. Anderson
Thomas.J.Anderson3.mil@us.navy.mil (primary)
(202) 781-2941 (commercial)

Program Manager
Auxiliary and Special Mission Shipbuilding Program Office
Mr. John M. Lighthammer
john.m.lighthammer.civ@us.navy.mil (primary)
(202) 781-1387 (commercial)

(U) Executive Summary

Program Highlights Since Last Report

This is the initial MSAR submission for the T-AGOS 205 MDAP. A full and open competitive procurement for DD&C was awarded to Austal USA for the Detail Design of the lead ship in May 2023 with options for the construction of the lead ship and six additional ships. The 2024 enacted President's Budget provided sufficient SCN funding to exercise construction contract option for the lead ship. There are no significant software-related issues with this program at this time.

(U) History of Significant Developments Since Program Inception

Date	Description
October 2023	Acquisition Decision Memorandum - T-AGOS Program is re-classified as ACAT 1B Major Defense Acquisition Program (MDAP).
May 2023	Milestone B/C Decision brief was held on May 8, 2023, which authorized the Navy to proceed with the award of Detail Design for the T-AGOS 25 Class.
May 2023	Austal USA was awarded Detail Design Contract (DD&C) for Lead Ship on May 18, 2023 with options for Construction of the lead ship and 6 follow ships.
November 2021	Interim Program Review (IBR) was held on November 3, 2021, for approval to release Detail Design and Construction (DD&C) RFP.
November 2021	A full and open competitive procurement for DD&C was released November 19, 2021.
July 2020	On July 2, 2020, awarded four industry studies contracts to Bollinger Shipyards Lockport, BMT Designers & Planners, Inc., Thoma-Sea Marine Constructor (TMC) and VT Halter Marine, Inc. (VTHM).
May 2020	An IBR was held on May 26, 2020, for approval to award industry studies.
January 2020	Issued Industry Studies RFP on January 14, 2020 for 12 month industry participation in the Contract Design (CD) effort.
June 2019	The Capability Development Document (CDD) and accompanying Concept of Operations (CONOPS) were approved June 28, 2019.
April 2019	The Gate 3 Resource and Requirements Review Board (R3B) was conducted on April 1, 2019 to approve T-AGOS 25 Class threshold capabilities.
May 2018	Gate 2 Part 2 R3B Review on May 16, 2018, approved SWATH design, Sea State (SS) 6/7 operations, and threshold of 20 knot sprint speed.
October 2017	The initial Gate 2 R3B held on October 10, 2017, directed that OPNAV N8 conduct a study to investigate the military utility of increased speed over that of the current classes.
July 2017	Analysis of Alternatives (AoA) completed on July 6, 2017.

(U) Schedule

(U) Schedule Events

Events		Development APB (Milestone) 8/16/2023 Objective	Development APB (Current) 8/16/2023 Objective / Threshold		Current Estimate 12/31/2023	Actual
First Asset Delivery(Start)	First Asset Delivery	May 2027	May 2027	May 2028	-	-
First Asset Delivery (Complete)	First Asset Delivery	-	-	-	Jul 2027	-
Milestone C(Start)	MS C	May 2023	May 2023	Nov 2023	-	-
Milestone C (Complete)	MS C	May 2023	May 2023	Nov 2023	-	8 May 2023
DOT&E Report on Initial Operational Test & Evaluation(Start)	DOT&E IOT&E Rpt	Sept 2028	Sept 2028	Sept 2029	-	-
DOT&E Report on Initial Operational Test & Evaluation (Complete)	DOT&E IOT&E Rpt	-	-	-	Nov 2028	-
Initial Operational Capability(Start)	IOC	Dec 2028	Dec 2028	Dec 2029	-	-
Initial Operational Capability (Complete)	IOC	-	-	-	Feb 2029	-
Full Operational Capability(Start)	FOC	Dec 2035	Dec 2035	Dec 2036	-	-
Full Operational Capability (Complete)	FOC	-	-	-	Feb 2036	-

Notes

(1) Lead Ship Delivery Threshold is 12 months beyond the objective date due to the risk associated with industry constructing a new 20 knot, Sea State 6/7 Government-designed Small Waterplane Area Twin Hull (SWATH) Lead ship, including both the design and production phase. The US shipbuilding industry has not built a SWATH hull form in over thirty years.
(2) The Lead Ship's IOT&E complete threshold is 12 months beyond the objective due to the complex post-delivery Surveillance Towed Array Sensor System (SURTASS) Mission System Installation Period (MSIP) and associated testing of highly complex mission equipment.
(3) IOC threshold is 12 months beyond the objective due to the complex post-delivery SURTASS MSIP and associated testing of highly complex mission equipment including Post Shakedown Availability (PSA) and Final Contract Trials (FCT).
(4) FOC threshold is 12 months beyond the objective due to the complex post-delivery SURTASS MSIP and associated testing of highly complex mission equipment including Post Shakedown Availability (PSA) and Final Contract Trials (FCT).

Schedule Baseline Deviation Explanation

None

(U) Current Significant Schedule Risks and Risks Identified at Milestones/Decisions

Event	Date	Description
Other	3/28/2024	Schedule Risk: If the schedule pace of the Detail Design phase continues to be slowed by the lack of design/engineering resources, then the Production Readiness Review will be delayed which will also likely delay the delivery of the lead ship. Mitigation: Assess and monitor Austal's revised Detail Design schedule risk and monitor procurement of Long Lead Time Material to support a T-AGOS 25's Start of Construction (SOC).

(U) Performance

(U) Performance Attributes

Radiated Noise		KPP
Current Estimate 12/31/2023		-
Demonstrated Performance -		-
Development APB (Current) 8/16/2023	Objective	Specific radiated noise levels for T-AGOS 25 for both narrowband and broadband levels, in calm seas and represent the maximum acceptable ship radiated noise envelope, from bow, beam and stern aspects, over which the Surveillance Towed Array Sensor System (SURTASS) may operate (8 knots and below).
	Threshold	Specific radiated noise levels for T-AGOS 25 for both narrowband and broadband levels, in calm seas and represent the maximum acceptable ship radiated noise envelope, from bow, beam and stern aspects, over which the SURTASS may operate (5 knots and below).
Development APB (Milestone) 8/16/2023	Objective	Specific radiated noise levels for T-AGOS 25 for both narrowband and broadband levels, in calm seas and represent the maximum acceptable ship radiated noise envelope, from bow, beam and stern aspects, over which the Surveillance Towed Array Sensor System (SURTASS) may operate (8 knots and below).
Perform the passive acoustic array surveillance mission while maintaining course through 5 knots through sea state 6 and through sea state 7 in best heading. Perform the active acoustic array surveillance mission in all headings through 3 knots through s		
Seakeeping and Maneuvering		KPP
Current Estimate 12/31/2023		-
Demonstrated Performance -		-
Development APB (Current) 8/16/2023	Objective	Perform the passive acoustic array surveillance mission while maintaining course through 5 knots through sea state 6 and through sea state 7 in best heading. Perform the active acoustic array surveillance mission in all headings through 3 knots through sea state 6 and through sea state 7 in best heading. Survival of the ship, equipment, and personnel through sea state 8 while maintaining best heading under power.
	Threshold	Perform the passive acoustic array surveillance mission while maintaining course through 5 knots through sea state 6 and through sea state 7 in best heading. Perform the active acoustic array surveillance mission in all headings through 3 knots

		through sea state 6 and through sea state 7 in best heading. Survival of the ship, equipment, and personnel through sea state 8 while maintaining best heading under power.
Development APB (Milestone) **8/16/2023**	**Objective**	Perform the passive acoustic array surveillance mission while maintaining course through 5 knots through sea state 6 and through sea state 7 in best heading. Perform the active acoustic array surveillance mission in all headings through 3 knots through sea state 6 and through sea state 7 in best heading. Survival of the ship, equipment, and personnel through sea state 8 while maintaining best heading under power.
Sprint Speed		**KPP**
Current Estimate **12/31/2023**		-
Demonstrated Performance -		-
Development APB (Current) **8/16/2023**	**Objective**	25 knots
	Threshold	20 knots
Development APB (Milestone) **8/16/2023**	**Objective**	25 knots
Unrefueled Range		**KPP**
Current Estimate **12/31/2023**		-
Demonstrated Performance -		-
Development APB (Current) **8/16/2023**	**Objective**	The calm seas unrefueled range requirement is to transit at the most economical speed (equal to or greater than 10 knots for 4,000 nm), plus conduct 75 days of towing (5 knots), plus conduct 2 days of high speed repositioning (1,200 nm at 25 knots).
	Threshold	The calm seas unrefueled range requirement is to transit at the most economical speed (equal to or greater than 10 knots for 3,000 nm), plus conduct 75 days of towing (5 knots), plus conduct 2 days of high speed repositioning (960 nm at 20 knots).
Development APB (Milestone) **8/16/2023**	**Objective**	The calm seas unrefueled range requirement is to transit at the most economical speed (equal to or greater than 10 knots for 4,000 nm), plus conduct 75 days of towing (5 knots), plus conduct 2 days of high speed repositioning (1,200 nm at 25 knots).
Force Protection		**KPP**
Current Estimate **12/31/2023**		-
Demonstrated Performance -		-
Development APB	**Objective**	Protect Personnel:

(Current) 8/16/2023		Permanent crew served weapon mounts providing 360 degrees coverage and ready service lockers for use by on watch EST. Secure stowage for weapons and ammunitions when ships force security teams and ESTs are not on watch. Personal Protective Equipment (PPE) as routinely provided to include Force Protection and CBR PPE.
	Threshold	Protect Personnel: Permanent crew served weapon mounts providing 360 degrees coverage and ready service lockers for use by on watch EST. Secure stowage for weapons and ammunitions when ships force security teams and ESTs are not on watch. Personal Protective Equipment (PPE) as routinely provided to include Force Protection and CBR PPE.
Development APB (Milestone) 8/16/2023	Objective	Protect Personnel: Permanent crew served weapon mounts providing 360 degrees coverage and ready service lockers for use by on watch EST. Secure stowage for weapons and ammunitions when ships force security teams and ESTs are not on watch. Personal Protective Equipment (PPE) as routinely provided to include Force Protection and CBR PPE.
System Survivability		**KPP**
Current Estimate 12/31/2023		-
Demonstrated Performance -		-
Development APB (Current) 8/16/2023	Objective	Vulnerability: - Built to commercial standards. The ship will comply with ABS SVR Classification and USCG Certification. Susceptibility: - SWAP-C margins for the future installation of defensive weapon systems such as CIWS or SeaRAM. Recoverability: - Damage stability per Regulatory Bodies. - Damage control capability, to include damage control lockers, per the MSC Damage Control Manual. - Enhanced firemain - Emergency portable radios (HYDRA or equivalent) and emergency SATCOM radio. The SATCOM radio will be mounted in shock hardened cabinet. - Chemical and radiological detection capability alarming to a central location. - Installed clips and supporting hardware for countermeasure washdown system. - Personnel decontamination station(s).
	Threshold	Vulnerability: - Built to commercial standards. The ship will

		comply with ABS SVR Classification and USCG Certification. Susceptibility: - SWAP-C margins for the future installation of defensive weapon systems such as CIWS or SeaRAM. Recoverability: - Damage stability per Regulatory Bodies. - Damage control capability, to include damage control lockers, per the MSC Damage Control Manual. - Enhanced firemain - Emergency portable radios (HYDRA or equivalent) and emergency SATCOM radio. The SATCOM radio will be mounted in shock hardened cabinet. - Chemical and radiological detection capability alarming to a central location. - Installed clips and supporting hardware for countermeasure washdown system. - Personnel decontamination station(s).
Development APB (Milestone) **8/16/2023**	**Objective**	Vulnerability: - Built to commercial standards. The ship will comply with ABS SVR Classification and USCG Certification. Susceptibility: - SWAP-C margins for the future installation of defensive weapon systems such as CIWS or SeaRAM. Recoverability: - Damage stability per Regulatory Bodies. - Damage control capability, to include damage control lockers, per the MSC Damage Control Manual. - Enhanced firemain - Emergency portable radios (HYDRA or equivalent) and emergency SATCOM radio. The SATCOM radio will be mounted in shock hardened cabinet. - Chemical and radiological detection capability alarming to a central location. - Installed clips and supporting hardware for countermeasure washdown system. - Personnel decontamination station(s).
Sustainment		**KPP**
Current Estimate **12/31/2023**		-
Demonstrated Performance -		-
Development APB (Current) **8/16/2023**	**Objective**	0.75 (Note: Equivalent to 275 Days ready for tasking per ship per year) 0.95
	Threshold	Materiel Availability: 0.70 (Note: Equivalent to 255 Days ready for tasking per ship per year) Operational Availability:

		0.92
Development APB (Milestone) **8/16/2023**	**Objective**	0.75 (Note: Equivalent to 275 Days ready for tasking per ship per year) 0.95
Net Ready (1/2)		**KPP**
Current Estimate **12/31/2023**		-
Demonstrated Performance -		-
Development APB (Current)	**Objective**	Operational Availability: 0.92 Mission: The Ocean Surveillance Ship (T-AGOS 25) Program is the host platform for the SURTASS undersea surveillance mission suite. T-AGOS 25 supports the SURTASS mission to deliver tactical mission data to Fleet and Intelligence Community users by use of Anti-Submarine Warfare (ASW), Command and Control (C2), and Intelligence (INT) mission systems. Mission Activity: Provide voice and data communications with mission partners. Measure: Accuracy of timely, actionable dissemination of information and data to support T-AGOS 25 Primary Mission Areas: ASW, C2, and INT Conditions: Adverse weather, day/night 24/7 operations across the full Range of Military Operations (ROMO) in permissive to low & high threat environments. <10 minutes Network: Command and Control Office Information Exchange (C2OIX) (via Consolidated Afloat Networks and Enterprise Services (CANES) Sensitive Compartmented Information (SCI)/Secret/ Secret Releasable (Rel)/Unclassified (Unclass), Local Area Networks (LANs)) Measure: Time to connect to an operational network after power up < 10 minutes Network: Global Command & Control - Maritime (GCCS-M) (via CANES SCI/Secret LANs) Measure: Time to connect to an operational network after power up < 10 minutes Network: Undersea Warfare Decision Support System (USW-DSS) (via CANES Secret LAN) Measure: Time to connect to an operational network after power up < 10 seconds Network: Commercial Broadband Satellite Program (CBSP) X/Ku-band SATCOM Measure: Time to connect to an operational network after power up < 10 seconds Network: CBSP C/Ku-band SATCOM Measure: Time to connect to an operational network

		after power up Condition: Continuous Network Connectivity based on system-controllable factors < 10 seconds Afloat Core Services Measure: Time to exchange data between T-AGOS 25 (via CANES SCI/Secret/Secret Rel/Unclass LANs) and Ext Ashore Node (via CANES LANs)
8/16/2023	**Threshold**	Operational Availability: 0.92 Mission: The Ocean Surveillance Ship (T-AGOS 25) Program is the host platform for the SURTASS undersea surveillance mission suite. T-AGOS 25 supports the SURTASS mission to deliver tactical mission data to Fleet and Intelligence Community users by use of Anti-Submarine Warfare (ASW), Command and Control (C2), and Intelligence (INT) mission systems. Mission Activity: Provide voice and data communications with mission partners. Measure: Accuracy of timely, actionable dissemination of information and data to support T-AGOS 25 Primary Mission Areas: ASW, C2, and INT Conditions: Adverse weather, day/night 24/7 operations across the full Range of Military Operations (ROMO) in permissive to low & high threat environments. <10 minutes Network: Command and Control Office Information Exchange (C2OIX) (via Consolidated Afloat Networks and Enterprise Services (CANES) Sensitive Compartmented Information (SCI)/Secret/ Secret Releasable (Rel)/Unclassified (Unclass), Local Area Networks (LANs)) Measure: Time to connect to an operational network after power up < 10 minutes Network: Global Command & Control - Maritime (GCCS-M) (via CANES SCI/Secret LANs) Measure: Time to connect to an operational network after power up < 10 minutes Network: Undersea Warfare Decision Support System (USW-DSS) (via CANES Secret LAN) Measure: Time to connect to an operational network after power up < 10 seconds Network: Commercial Broadband Satellite Program (CBSP) X/Ku-band SATCOM Measure: Time to connect to an operational network after power up < 10 seconds Network: CBSP C/Ku-band SATCOM Measure: Time to connect to an operational network after power up Condition: Continuous Network Connectivity based on system-controllable factors

		< 10 seconds Afloat Core Services Measure: Time to exchange data between T-AGOS 25 (via CANES SCI/Secret/Secret Rel/Unclass LANs) and Ext Ashore Node (via CANES LANs)
Development APB (Milestone) **8/16/2023**	**Objective**	Operational Availability: 0.92 Mission: The Ocean Surveillance Ship (T-AGOS 25) Program is the host platform for the SURTASS undersea surveillance mission suite. T-AGOS 25 supports the SURTASS mission to deliver tactical mission data to Fleet and Intelligence Community users by use of Anti-Submarine Warfare (ASW), Command and Control (C2), and Intelligence (INT) mission systems. Mission Activity: Provide voice and data communications with mission partners. Measure: Accuracy of timely, actionable dissemination of information and data to support T-AGOS 25 Primary Mission Areas: ASW, C2, and INT Conditions: Adverse weather, day/night 24/7 operations across the full Range of Military Operations (ROMO) in permissive to low & high threat environments. <10 minutes Network: Command and Control Office Information Exchange (C2OIX) (via Consolidated Afloat Networks and Enterprise Services (CANES) Sensitive Compartmented Information (SCI)/Secret/ Secret Releasable (Rel)/Unclassified (Unclass), Local Area Networks (LANs)) Measure: Time to connect to an operational network after power up < 10 minutes Network: Global Command & Control - Maritime (GCCS-M) (via CANES SCI/Secret LANs) Measure: Time to connect to an operational network after power up < 10 minutes Network: Undersea Warfare Decision Support System (USW-DSS) (via CANES Secret LAN) Measure: Time to connect to an operational network after power up < 10 seconds Network: Commercial Broadband Satellite Program (CBSP) X/Ku-band SATCOM Measure: Time to connect to an operational network after power up < 10 seconds Network: CBSP C/Ku-band SATCOM Measure: Time to connect to an operational network after power up Condition: Continuous Network Connectivity based on system-controllable factors < 10 seconds Afloat Core Services Measure: Time to exchange data between T-AGOS

		25 (via CANES SCI/Secret/Secret Rel/Unclass LANs) and Ext Ashore Node (via CANES LANs)
Net Ready (2/2)		**KPP**
Current Estimate **12/31/2023**		-
Demonstrated Performance -		-
Development APB **(Current)**	**Objective**	< 10 minutes Naval Messaging Measure: Time to exchange data between T-AGOS 25 (C2OIX (via CANES SCI/Secret/Secret Rel/ Unclass) and Ext Ashore Node (via C2OIX) < 10 minutes Command and Control Measure: Time to exchange data between Ext Ashore Node (via GCCS-M) and T-AGOS 25 (GCCS-M (via CANES SCI/Secret LANs)) < 10 seconds Computer Network Defense Services Measure: Time to exchange data between Ext Ashore Node (via CANES LANs) and T-AGOS 25 (ACAS (via CANES SCI/Secret/Secret Rel/Unclass < 10 minutes Casualty & Maintenance Reporting Measure: Time to exchange data between T-AGOS 25 (MFOM (via CANES Secret)) and Ext Ashore Node (via MFOM) < 10 seconds Sensor Data Measure: Time to exchange data between T-AGOS 25 (CBSP X/Ku-band) and Ext Ashore Node (CBSP X/Ku-band) SATCOM < 10 seconds Intelligence Collection Measure: Time to exchange information between T-AGOS 25 (CBSP C/Ku-band) and Ext Ashore Node (CBSP C/Ku-band) SATCOM Conditions: NSA Type 1 Certified Encryption Systems in operation and continuous network connectivity.
8/16/2023	**Threshold**	< 10 minutes Naval Messaging Measure: Time to exchange data between T-AGOS 25 (C2OIX (via CANES SCI/Secret/Secret Rel/ Unclass) and Ext Ashore Node (via C2OIX) < 10 minutes Command and Control Measure: Time to exchange data between Ext Ashore Node (via GCCS-M) and T-AGOS 25 (GCCS-M (via CANES SCI/Secret LANs)) < 10 seconds Computer Network Defense Services Measure: Time to exchange data between Ext Ashore Node (via CANES LANs) and T-AGOS 25 (ACAS (via CANES SCI/Secret/Secret Rel/Unclass < 10 minutes Casualty & Maintenance Reporting

		Measure: Time to exchange data between T-AGOS 25 (MFOM (via CANES Secret)) and Ext Ashore Node (via MFOM) < 10 seconds Sensor Data Measure: Time to exchange data between T-AGOS 25 (CBSP X/Ku-band) and Ext Ashore Node (CBSP X/Ku-band) SATCOM < 10 seconds Intelligence Collection Measure: Time to exchange information between T-AGOS 25 (CBSP C/Ku-band) and Ext Ashore Node (CBSP C/Ku-band) SATCOM Conditions: NSA Type 1 Certified Encryption Systems in operation and continuous network connectivity.
Development APB (Milestone) **8/16/2023**	**Objective**	< 10 minutes Naval Messaging Measure: Time to exchange data between T-AGOS 25 (C2OIX (via CANES SCI/Secret/Secret Rel/ Unclass) and Ext Ashore Node (via C2OIX) < 10 minutes Command and Control Measure: Time to exchange data between Ext Ashore Node (via GCCS-M) and T-AGOS 25 (GCCS-M (via CANES SCI/Secret LANs)) < 10 seconds Computer Network Defense Services Measure: Time to exchange data between Ext Ashore Node (via CANES LANs) and T-AGOS 25 (ACAS (via CANES SCI/Secret/Secret Rel/Unclass < 10 minutes Casualty & Maintenance Reporting Measure: Time to exchange data between T-AGOS 25 (MFOM (via CANES Secret)) and Ext Ashore Node (via MFOM) < 10 seconds Sensor Data Measure: Time to exchange data between T-AGOS 25 (CBSP X/Ku-band) and Ext Ashore Node (CBSP X/Ku-band) SATCOM < 10 seconds Intelligence Collection Measure: Time to exchange information between T-AGOS 25 (CBSP C/Ku-band) and Ext Ashore Node (CBSP C/Ku-band) SATCOM Conditions: NSA Type 1 Certified Encryption Systems in operation and continuous network connectivity.
Training		**KPP**
Current Estimate **12/31/2023**		-
Demonstrated Performance -		-
Development APB (Current)	**Objective**	For T-AGOS 25, initial crew familiarization will be provided by the shipbuilder. MSC will provide follow-on training during the ship's

		life cycle.
8/16/2023	Threshold	For T-AGOS 25, initial crew familiarization will be provided by the shipbuilder. MSC will provide follow-on training during the ship's life cycle.
Development APB (Milestone) 8/16/2023	Objective	For T-AGOS 25, initial crew familiarization will be provided by the shipbuilder. MSC will provide follow-on training during the ship's life cycle.
Manpower		**KPP**
Current Estimate 12/31/2023		-
Demonstrated Performance -		-
Development APB (Current) 8/16/2023	Objective	Navy (total) - 30
	Threshold	The ship will be manned by an MSC crew and also depend on the embarkation of civilian technicians and Navy personnel as crew, EST, and other. Total number of Navy personnel: 38
Development APB (Milestone) 8/16/2023	Objective	Navy (total) - 30
Energy		**KPP**
Current Estimate 12/31/2023		-
Demonstrated Performance -		-
Development APB (Current) 8/16/2023	Objective	10% reduction from threshold
	Threshold	Two SURTAS mission cycles while consuming no more than 32,000 barrels of fuel per year, per ship.
Development APB (Milestone) 8/16/2023	Objective	10% reduction from threshold

(U) Requirement Source:

Sponsor(s): United States Navy

1. Capability Development Document*, Capability Development Document*
   Validated By: CNO, June 28, 2019

Notes

ABS -American Bureau of Shipping

ACAT – Acquisition Category
AoA – Analysis of Alternatives
AWS - Anti-Submarine Warfare
C2 Command and Control
C2OIX - Command and Control Office Information Exchange
C4I – Command, Control, Communications,
CANES - Consolidated Afoat Networks and Enterprise Services
CBR - Chemical-biological-radiological
CBSP - Commercial Broadband Satellite Program
CDD – Capabilities Development Document
CLFA – Compact Low Frequency Active
CIWS - Close-In Weapon System
COFT – Operational Test & Evaluation Force Command
Computers, and Intelligence
CTC – Cost to Complete
DD&C – Detailed Design & Construction
DT&E – Developmental Test and Evaluation
EOY – End of Year
EPA – Economic Price Adjustment
FPIF – Fixed Price Incentive Fee
GCCSM - Global Command and Control System – Maritime
HYDRA - Hierarchical Yet Dynamically Reprogrammable Architecture
ICD – Initial Capabilities Document
INT - Intelligence mission systems
IPR – In Process Review
IUSS – Integrated Undersea Surveillance System
KPP – Key Performance Parameter
Ku-Band - Kurtz-Under Band
MS B – Milestone B
MSC – Military Sealift Command
NAVWAR - Naval Information Warfare Systems Command
NIWC – Naval Information Warfare Center
NRE – Non-reoccurring engineering
NSWC-CD – Naval Surface Warfare Center, Carderock Division
NUWC – Naval Undersea Warfare Center
OT&E – Operational Test and Evaluation
PD/CD – Preliminary Design/Contract Design
POR – Program of Record
PPE - Personal protective equipment
RDT&E – Research, Development, Test & Evaluation
RFI – Request for Information
RFP – Request for Proposal
SATCOM - Satellite Communications
SCI - Sensitive compartmented information
SeaRAM - Sea Rolling Airframe Missile
SURTASS – Surveillance Towed Array Sensor System
SVC - support vector classification
SWAPC - space, weigh, power and cooling
SWATH – Small Water plane Area Twin Hull

T&E – Test and Evaluation
T-AGOS - General Ocean Surveillance Ships
USGC - United States Coast Guard

Performance Deviation Explanation

None

(U) Acquisition Budget Estimate

(U) Total Acquisition Estimates and Quantities

Category ($M) Base Year: 2022	Development APB (Milestone) 8/16/2023 CY$ obs Objective	Development APB (Current) 8/16/2023 CY$ obs Objective	Development APB (Current) 8/16/2023 CY$ obs Threshold	Current Estimate PB 2025 CY$ obs	Current Estimate PB 2025 TY$ obs
RDT&E	65.6	65.6	72.3	66.9	65.9
Procurement	3,767.7	3,767.7	4,144.5	3,125.6	3,844.5
Total Acquisition	3,833.3	3,833.3	-	3,192.5	3,910.4
Program Acquisition Unit Cost	547.616	547.616	602.377	456.071	558.629
Average Procurement Unit Cost	538.247	538.247	592.072	446.514	549.214
Program End-Item Quantity					
Development	0	0		-	
Procurement	7	7		7	
O&M-Acquired	-	-		-	

Budget Notes

None

Quantity Notes

The current ship profile is set to undergo a transformation, as outlined in the 2024 Navy's 30-Year shipbuilding plan to Congress, increasing from 7 ships to 10.

Cost Baseline Deviation Explanation

None

(U) Risk and Sensitivity Analysis

Current Procurement Estimate Risks (12/31/2023)	
1	Schedule Risk: If the schedule pace of the Detail Design phase continues to be slowed by the lack of design/ engineering resources, then the Production Readiness Review will be delayed which will also likely delay the delivery of the lead ship. Mitigation: Assess and monitor Austal's revised Detail Design schedule risk and monitor procurement of Long Lead Time Material to support a T-AGOS 25's Start of Construction (SOC).
Current Baseline Risks (8/16/2023)	
None	
Original Baseline Risks (8/16/2023)	
None	

(U) Unit Costs

(U) Current Estimate Compared with Current Baseline

Category (CY$M) Base Year: 2022	Current Baseline 08/16/2023	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	3,833.3	3,192.5	
Program Quantity	7	7	
PAUC	547.616	456.071	-16.72%
Average Procurement Unit Cost			
Procurement Cost	3,767.7	3,125.6	
Procurement Quantity	7	7	
APUC	538.247	446.514	-17.04%

(U) Current Estimate Compared with Original Baseline

Category (CY$M) Base Year: 2022	Original Baseline 08/16/2023	Current Estimate PB 2025	% Change
Program Acquisition Unit Cost			
Acquisition Cost	3,833.3	3,192.5	
Program Quantity	7	7	
PAUC	547.616	456.071	-16.72%
Average Procurement Unit Cost			
Procurement Cost	3,767.7	3,125.6	
Procurement Quantity	7	7	
APUC	538.247	446.514	-17.04%

(U) Cost Growth Details

Impacts of Schedule Changes on Unit Cost

Any change that extends or expands the schedule will incur additional overhead which will increase unit cost. Impacts of performance changes on unit cost: Performance changes are a tool for the Program Manager to use to control cost. However, any performance changes must be adjudicated by the resource sponsor.

Status of Each Major Contract and Significant Factors Contributing to Cost and Schedule Variance; Projected Effects on Future Program Costs

See Contracts section.

Notes

None

(U) Life-Cycle Costs

(U) Operating and Support and Disposal Cost Estimates Compared with Baseline

Category ($M) Base Year: 2022	Development APB (Milestone) 8/16/2023 CY$ obs Objective	Development APB (Current) 8/16/2023 CY$ obs Objective / Threshold		Current Estimate CY$ obs / TY$ obs	
Total O&S	5,975.1	5,975.1	6,572.6	5,975.0	9,621.5
Total Disposal	20.3	20.3	-	20.3	46.8

(U) Current Cost Estimate Sources

Operating and Support Cost
Type: Cost Engineering and Industrial Analysis Division (NAVSEA 05C)
Approved by: CNA, May 22, 2023
Note: The Operating and Support (O&S) costs are based on a 30 year life cycle. The primary elements of the O&S estimate include Unit Level Manpower, Unit Operations, Maintenance, Sustaining Support, Continuing System Improvements (CSI), and Indirect Support.

Disposal/Demilitarization Cost
Type: Component Cost Position
Approved by: Cost Engineering and Industrial Analysis Division (NAVSEA 05C), May 22, 2023

Operating and Support Baseline Deviation Explanation

None

Cost Notes

The cost for Inactivation leverages Historic Contract Data. These costs are initially provided in CP21$ and are escalated to CP22$ by utilizing the O&MN/L Fuel Indices. The disposal cost is provided by NAVSEA 05C in the form of a $/Long Ton (LT) Cost Estimating Relationship (CER). The weight of TAGOS 25 in LT is multiplied by the CER to calculate the total disposal cost. That cost is then combined to the inactivation cost which becomes the overall total for Disposal and Inactivation costs.
See formula below:
(Flat rate Inactivation Cost) + ($ per LT * Variant Lite Ship Weight) = Total Inactivation and Disposal Cost

(U) Operating and Support Variance with Prior Estimate

No Data

(U) Operating and Support Cost Element Structure Estimates by Acquired System

(CY$M) Base Year: 2022							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
T-AGOS 25	1,202.8	3,382.5	1,362.5	15.4	11.8	-	5,975.0
Program	1,202.8	3,382.5	1,362.5	15.4	11.8	-	5,975.0

(U) Annual Operating and Support Costs per Unit Compared with Antecedent System

(CY$M) Base Year: 2022							
System	Unit-Level Manpower	Unit Operations	Maintenance	Sustaining Support	Continuing System Improvements	Other	Total
T-AGOS 25	5.7	16.1	6.6	0.1	0.1	-	28.6
T-AGOS 19/23 (Antecedent)	3.7	8.6	3.4	0.1	0.1	-	15.8

(U) Operating and Support Cost Estimate Assumptions

System	Quantity to Sustain	Unit Expected Service Life (Years)	Unit of Measure	Fiscal Years Operational
T-AGOS 25	7	30.0	7	2027 - 2057
T-AGOS 19/23 (Antecedent)	0	-	0	No First FY - No Final FY

Additional O&S Estimate Assumptions

Estimate prepared by NAVSEA 05C.
Total O&S Cost = 7 ships x $28.453M Average Annual Cost per ship x 30 year service life.

Antecedent Estimate Assumptions

None

O&S Annual Cost Calculation Memo

None

(U) Performing Activities and Contracts

(U) External Government Activities

None

(U) Contracts and Efforts

Contract Title	Contract Number / Effort	Contractor	Phase
T-AGOS 25 CLASS	N00024-23-C-2203 / A00002	AUSTAL USA, LLC	Production

(U) Contract and Effort Identification, Price, Quantity and Performance			
Contract Number:	N00024-23-C-2203	**Order Number:**	A00002
Contract Title:	T-AGOS 25 CLASS	**Strategy:**	FAR 15: Negotiated Contracts
CAGE:	1T3Z4 - AUSTAL USA, LLC	**Contracting Office:**	NAVSEA SEA02
City, State/Province:	MOBILE , AL		
Effort Number:	A00002	**Supported Phase:**	Production
Type:	Fixed-Price Incentive (Firm Target)	**Award Date:**	May 18, 2023
Latest Modification Date:	November 9, 2023	**Definitization Date:**	May 18, 2023
Latest Modification No.:	A00002	**Work Start Date:**	May 18, 2023
Technical Data Rights:	Government Purpose License Rights		
Notes:	In accordance with Section 830(a)(2) of the FY 2020 National Defense Authorization Act, which requires a SAR to be submitted "in unclassified form without any designation relating to dissemination control" this SAR section has omitted information that is Controlled Unclassified Information (CUI).		

Initial Price (TY$M) Target / Ceiling		Current Price (TY$M) Target / Ceiling		Estimate at Completion (TY$M) Contractor / PM		Initial Quantity	Current Quantity	Delivered Quantity
113.9	122.2	113.9	122.2	113.9	113.9	1	1	-

(U) Production

(U) Low-Rate Initial Production

	Original LRIP Determination	Current LRIP Determination
Total LRIP Quantity	7	7
Date	5/8/2023	12/14/2023
Reference	MS B/C ADM	MS B/C ADM
LRIP Period	FY 2023 - 2023	FY 2024 - 2024
Total Procurement Quantity	7	7
LRIP Percentage of Total	100.0%	100.0%

Rationale if LRIP Quantity Exceeds 10% of Total Procurement Quantity (Current Determination)

LRIP is not applicable in ship construction due to factors such as small quantity acquisitions, production times, and the duration required for the program to progress through various phases including construction time, builder's trials, acceptance trials, delivery, IOT&E, etc.

LRIP Notes

None

(U) Deliveries and Expenditures

(U) Acquisition Funding

	Total Estimate	Actual to Date	Actual, Percent Complete
Years Appropriated	15	7	46.7%
Appropriations (TY, $M)	3,910.4	434.4	11.1%
Expenditures (TY, $M)	3,910.4	62.6	1.6%

(U) End Items Delivered

	Total Required	Planned to Date	Actual to Date	Actual, Percent Complete
Procurement	7			
Total	7	-	-	-

Notes

None

(U) International Program Aspects

General Memo

N/A

Exportability and Business Issues

N/A

Is design for international exportability planned?	No	**Industry/Partner Exportability Cost-Sharing?**	No
If not, has the MDA approved an exportability waiver for a U.S.-only design?	Not Applicable		

Program Protection: Technology Security and Foreign Disclosure Issues

The T-AGOS 25 program has not conducted a study of impacts on Supply Chain Assurance, Information Assurance, Anti-Tamper, Analysis of Critical Program Information in the context of Exportability.

(U) Agreements

No International Agreements have been defined for T-AGOS 25

Modernized
Selected Acquisition Report
Supplement

Auxiliary General Ocean Surveillance Ship
(T-AGOS 25)

FY 2025 President's Budget
As of: December 31, 2023

MSAR Supplement Sections

Program Description

Program Use of the Adaptive Acquisition Framework

Technologies and Systems Engineering

Funding Sources (Acquisition)

Funding Sources (Operating and Support)

Acquisition Estimate and Quantity Summary

Annual Acquisition Estimates by Appropriation Account

Acquired System Annual End-Item Quantities by Appropriation Account

Nuclear Costs

Operational Fielding Plan

O&S Independent Cost Estimate

Annual Operating and Support Estimates by Cost Element

Program Description

Full Name
Auxiliary General Ocean Surveillance Ship

Short Name
T-AGOS 25

PNO
CDJ

Lead Component
Navy

AAF Pathway
MCA

Acquisition Type
MDAP

Acquired Systems
T-AGOS 25

Related Programs

Full Name	PNO	Pathway	Type	ACAT/ BCAT	Acquisition Status	Costs in SAR? Acq	O&S

Program Use of the Adaptive Acquisition Framework

This acquisition is accomplished by a single program in the Major Capability Acquisition Pathway.

Technologies and Systems Engineering

Auxiliary General Ocean Surveillance Ship

Major Software Efforts

Title	Status	Fielding Date	Description
None			

Major Engineering Changes

Title	Original Need Date	Fielding Date	Description, Rationale and Program Impacts
None			

Funding Sources (Acquisition)

Acquisition Funding Notes

Congressional transfer of both a portion of FY22 Full Funding & all of FY24 CTC to FY24 Full Funding supports award of Lead Ship construction option.

Auxiliary General Ocean Surveillance Ship

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk
RDT&E	1319N	07	0204313N - Ship-Towed Array Surveillance Systems	0204313N	3261 - TAGOS Design & Total Ship Integration		
Procurement	1611N	05	5030 - Tagos Surtass Ships	0204313N	-		
Procurement	1611N	05	5110 - Outfitting	0204313N	-		

Funding Sources (Operating and Support)

Note: Budget lines fund activites executed by the Program Office or Sustainment Office.

Operating and Support Funding Notes

The Military Sealift Command (MSC) maintains the T-AGOS 25 Class and provides the O&S funding. All O&S funding comes from MSC.

Auxiliary General Ocean Surveillance Ship

Category	Account	BA	Line Item	Program Element	RDT&E Project	Shared	Sunk

Acquisition Estimate and Quantity Summary

Auxiliary General Ocean Surveillance Ship

Acquisiton Estimates

Category PB 2025	TY ($M)	Current Base Year CY2022 ($M)	Original Base Year CY2022 ($M)	Report Fiscal Year CY2024 ($M)
RDT&E	65.9	66.9	66.9	71.8
Procurement	3,844.5	3,125.6	3,125.6	3,354.4
MILCON	-	-	-	-
O&M	-	-	-	-
Total Acquisition	3,910.5	3,192.6	3,192.6	3,426.2
PAUC	558.641	456.079	456.079	489.460
APUC	549.221	446.519	446.519	479.201

Acquisiton End-Item Quantities

System PB 2025	Development	Procurement
T-AGOS 25	-	7
Total	**-**	**7**

Unit Description

Ship

Current and Future Years Defense Program Summary, TY($M)

Appropriation	Prior	2024	2025	2026	2027	2028	2029	To Complete	Total
RDT&E	54.8	1.1	1.4	1.7	2.0	4.9	-	-	65.9
Procurement	434.4	355.2	-	424.9	405.3	450.6	464.3	1,309.8	3,844.5
MILCON	-	-	-	-	-	-	-	-	-
O&M	-	-	-	-	-	-	-	-	-
PB 2025 Total	**489.2**	**356.3**	**1.4**	**426.7**	**407.2**	**455.5**	**464.3**	**1,309.8**	**3,910.5**

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Auxiliary General Ocean Surveillance Ship

Source for TY$-CY$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

1319N - Research, Development, Test & Eval, Navy					
fiscal year		Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2022 ($M)
Total		**65.9**	**65.9**	**-**	**66.9**
2018		7.050	7.1	0.900845	7.8
2019		15.250	15.3	0.918196	16.6
2020		14.449	14.4	0.951961	15.2
2021		10.825	10.8	0.994746	10.9
2022		6.080	6.1	1.046714	5.8
2023		1.188	1.2	1.077876	1.1
2024		1.103	1.1	1.102481	1.0
2025		1.428	1.4	1.125868	1.3
2026		1.708	1.7	1.149511	1.5
2027		1.967	2.0	1.173651	1.7
2028		4.894	4.9	1.198297	4.1

Annual Acquisition Estimates by Appropriation Account

(Aligned to Budget Position: PB 2025)

Auxiliary General Ocean Surveillance Ship

Source for TY$-CY$ Conversion: ASN FMB-6 Inflation Rates and Outlay Factors for DA, DoN and DW accounts: 17 Jan 2024

1611N (BLS Hist) - Shipbuilding and Conversion, Navy									
fiscal year	End Item Recurring Flyaway	Non-End Item Recurring Flyaway	Non-Recurring Flyaway	Initial Spares	Depot Activation	Other/ Unallocated	Total TY($M)	Weighted Rate	Total CY2022 ($M)
Total	**3,723.2**	**-**	**-**	**121.3**	**-**	**-**	**3,844.5**	**-**	**3,125.6**
2018							-	0.940599	-
2019							-	0.975597	-
2020							-	1.015798	-
2021							-	1.056868	-
2022	434.384						434.4	1.093772	397.1
2023							-	1.119510	-
2024	355.166						355.2	1.143526	310.6
2025							-	1.167583	-
2026	424.945						424.9	1.192102	356.5
2027	400.000			5.267			405.3	1.217136	333.0
2028	435.677			14.969			450.6	1.242696	362.6
2029	444.826			19.475			464.3	1.268793	365.9
2030	610.421			18.980			629.4	1.295437	485.9
2031	617.825			35.727			653.6	1.322642	494.1
2032				26.883			26.9	1.350417	19.9

Acquired System Annual End-Item Quantities by Appropriation Account

(Aligned to Budget Position: PB 2025)

Auxiliary General Ocean Surveillance Ship

1611N (OSD Compt) - Shipbuilding and Conversion, Navy				
fiscal year	T-AGOS 25			Total
Total	**7**			**7**
Undistributed				-
2022	1			1
2023				-
2024				-
2025				-
2026	1			1
2027	1			1
2028	1			1
2029	1			1
2030	1			1
2031	1			1

Nuclear Costs

Auxiliary General Ocean Surveillance Ship

Program's Use of Department of Energy Resources

None

Operational Fielding Plan

Auxiliary General Ocean Surveillance Ship

System: T-AGOS 25

Fielding and Inventory Notes

The T-AGOS 25 Class field plan corresponds to the ship's Ready For Tasking Date.

T-AGOS 25 Fielding Plan and Inventory

fiscal year	Store	Field	Expend/Loss	Decommission	Inventory
2023					
2024					-
2025					-
2026					-
2027					-
2028					-
2029		1		1	-

O&S Independent Cost Estimate

Auxiliary General Ocean Surveillance Ship

Independent and Current Cost Estimate Comparison

Category CY2022 ($M)	Independent Cost Estimate 5/22/2023	Current Estimate 5/22/2023	Variance with ICE (%)
Unit-Level Manpower	1,202.8	1,202.8	0%
Unit Operations	3,382.5	3,382.5	0%
Maintenance	1,362.5	1,362.5	0%
Sustaining Support	15.4	15.4	0%
Continued System Improvements	11.8	11.8	0%
Other			-
Total O&S	**5,975.0**	**5,975.0**	**0%**

Independent Cost Estimate Source

Event: PROGRAM LIFECYCLE COST ESTIMATE
Type: Independent Cost Estimate
Approved by: Cost Engineering and Industrial Analysis Division (NAVSEA 05C), May 22, 2023

Current Cost Estimate Source

Type: Independent Cost Estimate
Approved by: Cost Engineering and Industrial Analysis Division (NAVSEA 05C), May 22, 2023

Cost Estimate Variance Explanation

The program does not yet have annual O&S estimates.

Annual Operating and Support Estimates by Cost Element

Auxiliary General Ocean Surveillance Ship

System: T-AGOS 25

Source for TY-CY Conversion:

Operating and Support Cost Elements							
fiscal year	1.0 Unit-Level Manpower	2.0 Unit Operations	3.0 Maintenance	4.0 Sustaining Support	5.0 Continuing System Improvements	Other	Total CY2022 ($M)
Total	**-**	**-**	**-**	**-**	**-**	**-**	**-**
2023							-
2024							-
2025							-
2026							-
2027							-
2028							-
2029							-
2030							-