



USNS NAVAJO (T-ATS 6) Class Towing, Salvage, and Rescue Ship

Overview Briefing for Surface Navy Association Symposium

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PMS325 Support Ships, Boats, and Craft

Program Executive Office, Ships

Auxiliary Ships



T-AO 205 Class

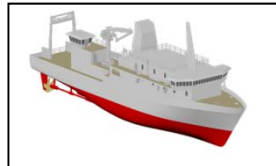


T-AKE

Special Mission Ships



T-AGS 67



NOAA AGOR Variant



T-ARC (X)



T-ATS



T-AGOS(X)

FMS



EN FMC



NCPV



SDAF 7M RIB



NSW RIB



Jordan 35M PB

Boats & Combatant Craft



40PB



OSV



11M RIB



FP MED



WB Medium

Service Craft & Seaborne Targets



YP 676 Class SLEP



YT



APL



HSMST



YON



T-ATS Overview

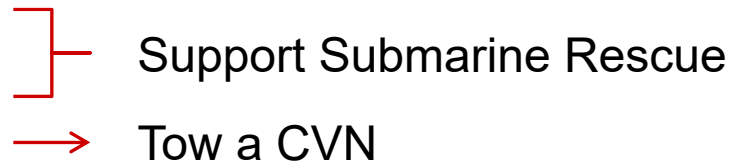
- T-ATS will replace the capabilities of both retiring Rescue and Salvage Ship (T-ARS 50) class and Fleet Ocean Tug (T-ATF 166) class mission requirements
- T-ATS will be a Multi Mission Common Hull Platform based on commercial offshore Anchor Handling Tug Supply (AHTS) vessels
 - Large, unobstructed deck allows for the embarkation of a variety of stand alone / interchangeable systems
- Able to support current missions
 - Towing, Salvage, Rescue, Oil Spill Response, Humanitarian Assistance
 - Wide Area Search and Surveillance: UUV and UAV
- Enables Future Rapid Capability Initiatives
 - Support modular payloads with hotel services and appropriate interfaces.
 - Can embark any type of containerized, stand alone system. Future payloads could include: Cyber, EW, Decoy and Surveillance packages





Key Requirements / Market Research

- Key Requirements listed below:
 - Deck Space (5,000 ft²)
 - Dynamic Positioning (DPS-2)
 - Bollard Pull (130 ST)
 - 40 ton salvage crane
- Conducted market research to investigate viability of modifying an existing Commercial Offshore Vessel or Vessel Design



Anchor Handling Tug Supply

- Met towing requirements
- But most did not meet deck length



Platform Supply Vessel

- Met Deck Area
- But not bollard pull



Multi-Purpose Vessel

- Met Deck Area, towing, and crane
- But not affordable within budget



	Bollard Pull	Deck Area	Price
AHTS	●	●	●
OSV		●	●
MPSV/MPCV	●	●	
Crew Boats			●
Tugs	●		●

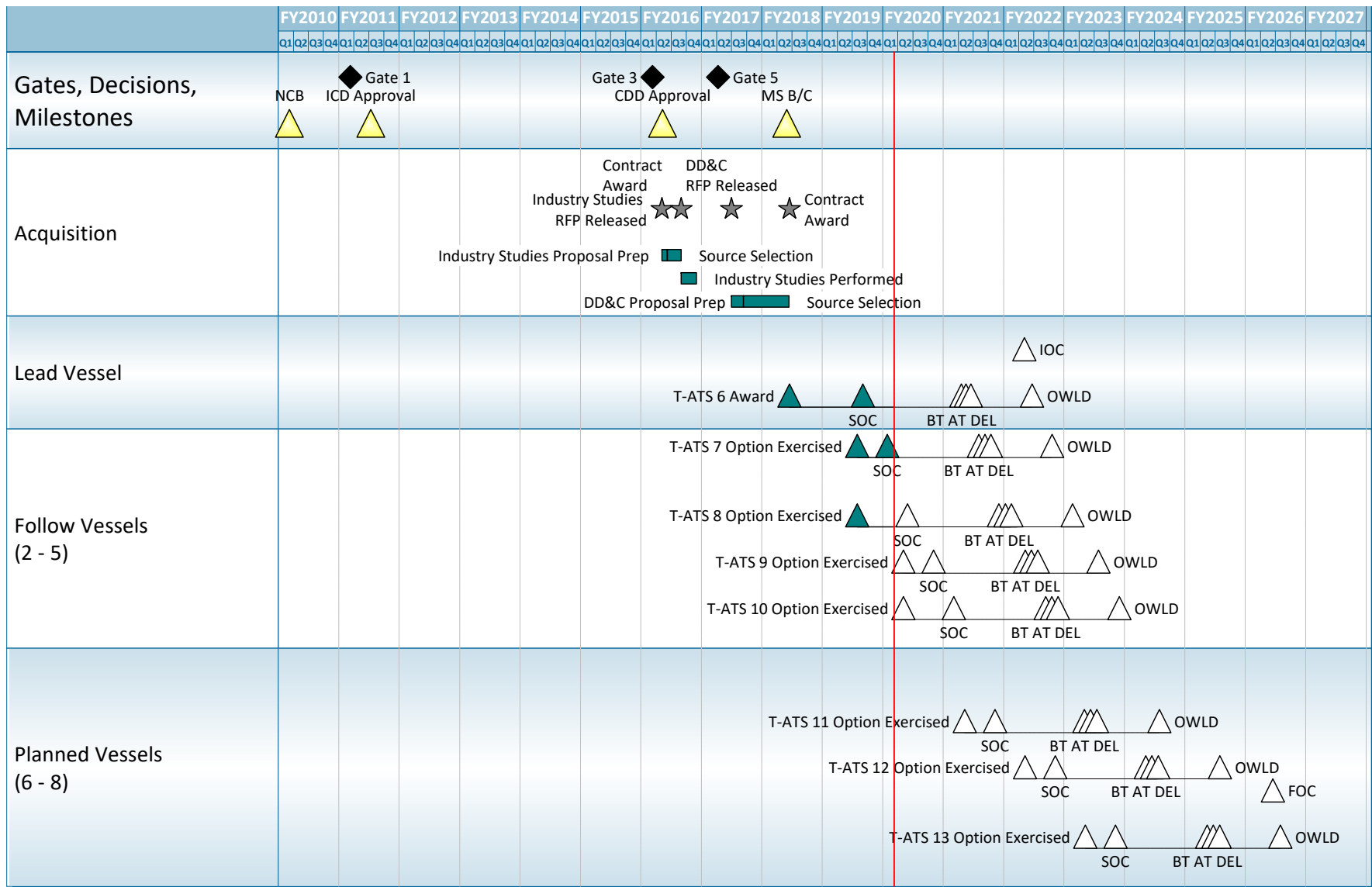


Acquisition Approach and Status

- 8 T-ATS Vessels planned
- Industry Studies completed September 2016
 - Contractors: Bollinger, Eastern, Fincantieri, and VT Halter Marine
- Detail Design & Construction RFP issued 31 March 2017 as a small business set-aside
 - Offerors proposed a T-ATS design based on modifications to a proven commercial vessel Parent Design
 - Offerors proposed their specification based on Navy's circular of mandatory requirements, non-mandatory requirements, and "desired features"
 - The program's Capability Development Document identified desired, but not mandatory, features that would improve mission success
 - Value adjustments were given to an Offeror's evaluated price for proposed desired features
- Detail Design & Construction Contract awarded to Gulf Island Shipyards, LLC on 16 March 2018 based on the Wartsila VS 4612 Anchor Handling Tug Supply (AHTS) vessel design



T-ATS Key Milestones/Schedule

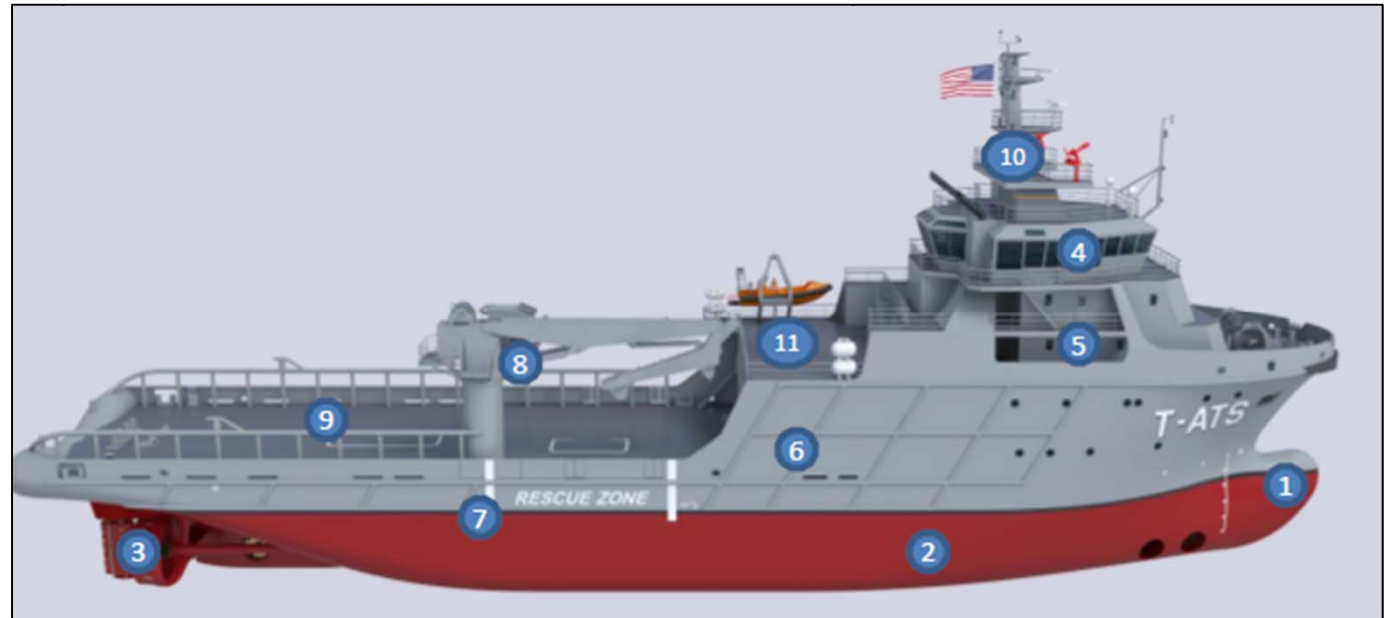




Mission Enablers and Capability Features

Principal Characteristics

- LOA: 80.1 m (262.8 ft)
- LBP: 70.2 m (230.3 ft)
- Beam: 18 m (59.1 ft)
- Depth: 7.5 m (24.6 ft)
- Draft, Full Load: 5.4 m (17.7 ft)
- Displacement, Full Load: 5191 mt (5110 LT)
- Speed, Sustained: 15.1 knots
- Endurance Range: 8170 nm @ 10 knots



- 1 Hull form with Bulbous Bow provides excellent fuel efficiency and seakeeping
- 2 Diesel Mechanical Propulsion Plant with Shaft Generators for operational flexibility and redundancy
- 3 Bollard Pull of 176 Short Tons for above-threshold towing and debeaching force
- 4 Bridge provides 360-degree interior and exterior visibility
- 5 Permanent accommodations for 42 persons plus crew (Navy Desired Feature)
- 6 Traction Winch for Towing (Navy Desired Feature)
- 7 Mission Equipment Stowage (Navy Desired Feature)
- 8 Deck crane sized and located for maximum multi-mission flexibility
- 9 Working Deck area exceeds minimum requirement with cargo rails and bulwarks to protect equipment and personnel
- 10 Offship Firefighting (Navy Desired Feature)
- 11 Open deck area on the 02 Level provides space for future mission systems

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Questions?



BACKUP

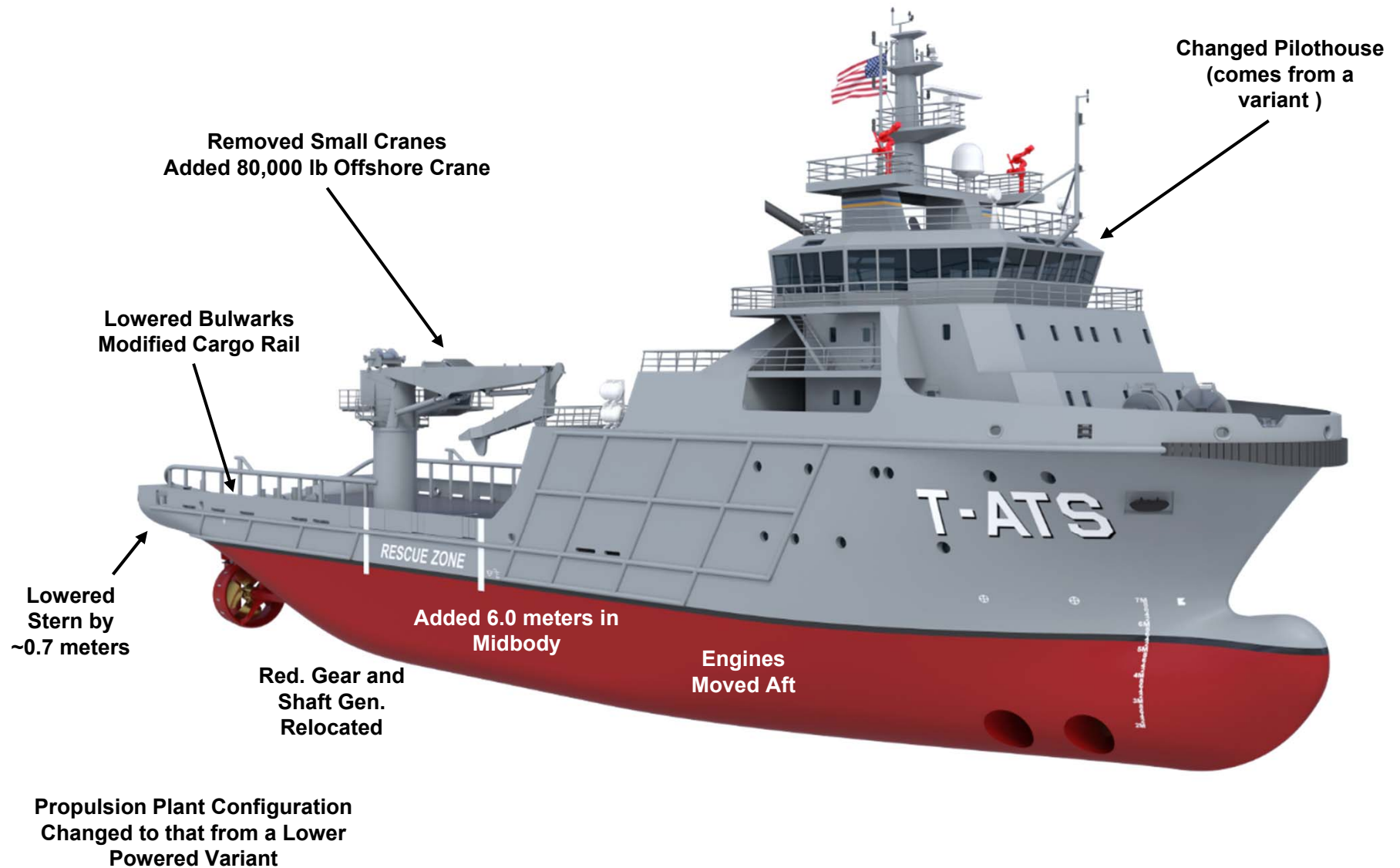


T-ATS vs T-ARS and T-ATF

	T-ATS (NAVAJO CLASS)	T-ARS (SAFEGUARD CLASS)	T-ATF (POWHATAN CLASS)
Overall Length	263 ft (80m)	255 ft (77m)	226 ft (68.9m)
Beam	59 ft (18m)	51 ft (15.5m)	42 ft (12.8m)
Draft	17.7 ft (5.4m)	17 ft (5m)	14.9 ft (4.6m)
Deck Space	6,000 sqft	1,500 sqft (Bow) / 3,000 sqft (Aft)	4,000 sqft
Speed	15 kts	14.5 kts	14.5 kts
Installed Power	9,408 KW (12,618 HP)	3,132 KW (4,200 HP)	5,369 KW (7,200 HP)
Bow Thruster	2 @ 900 KW (1,224 HP)	1 @ 372 KW (500HP)	1 @ 372 KW (500HP)
Stern Thruster	1 @ 900 KW (1,224 HP)	N/A	N/A
Range	8,170 NM (@10kts)	8,000 NM	10,000 NM (@13kts)
Bollard Pull	176 Short Tons	68 Short Tons	90 short Tons
Towing Machine	2 ATM's / 3,000 ft of 2.5" wire 3,500ft of 3" wire	2 ATM's / 3,000 ft of 2.25" wire	1 ATM / 2,500 ft of 2.25" wire
Traction Winch	Yes	N/A	Yes
Dive System	N/A	SNDL Compressor Chamber / Assessment - underwater work space / FADS III Transportable Recompression Chamber	N/A
Total Crew	23	29	18
Persons other than crew	42	51	40
Total Accomodations	65	80	58
Salvage	40T Dynamic Lift Crane	5T Crane (FWD) 40T Boom (AFT) Yellow Gear 300T Heavy Lift System	Multi-Purpose Crane (10 Ton)
Off Ship Firefighting	Yes	Yes	Yes
DP Systems	Wartsilla - DP2	N/A	N/A
MISC	Tugger Winches Shark Jaws Retractable Tow Pins	Retractable Tow Pins	Retractable Tow Pins



AHTS to T-ATS changes and impacts





AHTS to T-ATS changes and impacts

