



# NATIONAL SECURITY MULTI-MISSION VESSEL

Photo credit: MARAD

The National Security Multi-Mission Vessel (NSMV) leads a new chapter in U.S. maritime training, disaster preparedness and beyond. It also creates sustainable American jobs and sets a high standard for state-of-the-art design. The NSMV program has been developed to support the construction of up to five ships.

EACH NSMV ADDRESSES A RANGE OF U.S. STRATEGIC IMPERATIVES.



Photo credit: MARAD



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ENHANCE MARITIME EDUCATION



BOLSTER HOMELAND AND NATIONAL SECURITY



STRENGTHEN U.S. SHIPBUILDING AND MANUFACTURING



CREATE JOBS TO ADVANCE ECONOMIC SECURITY



## MULTI-MISSION PURPOSE

Established primarily to address an aging training fleet, the new purpose-built NSMV enhances the Nation's maritime academies' training capabilities and serves as critical support assets for the federal government in times of need.

## STATE-OF-THE-ART TRAINING CAPABILITIES

The size of the new vessel allows it to support the capabilities required to provide the next generation of mariners with a world-class education through state-of-art technologies. NSMV provides training assets to better meet each SMA's needs. By attracting more cadets and better equipping them to become part of and sustain the U.S. Merchant Marine, the NSMV will help close the critical shortfall in the maritime workforce.

Although the NSMVs will be berthed at five state maritime academies, students at all six SMAs and the U.S. Merchant Marine Academy (USMMA) will have access to the state-of-the-art training capabilities and opportunities to cross deck to alternate training vessels when they need additional days at sea. Training capabilities include:

- Convertible classrooms and workshops
- Simulator and laboratory spaces
- Dedicated training bridge and navigation lab
- Large multi-purpose space
- Accommodations for up to 600 cadets and 100 officers, faculty, staff and crew

## DISASTER RESPONSE CAPABILITIES

When not on training missions, the federal government can mobilize the NSMVs to support humanitarian assistance and disaster relief (HA/DR) in times of need. Disaster response capabilities include:

- Modern medical facilities
- 60-person surge capacity for Humanitarian Assistance/Disaster Relief missions, up to 1000 persons for 14 days pierside (food, water, sewage)
- Helicopter landing area
- Container storage capacity of up to 60 TEUs
- Roll-on/roll-off loading ramp and vehicle stowage capabilities



Photo credit: MARAD

## NSMV PROGRAM CREATES JOBS

The NSMV creates and supports good-paying, American jobs, with over **1,450 shipyard jobs during construction and additional jobs at sea and ashore once completed**, while strengthening the U.S. shipbuilding, repair and manufacturing industries.



Photo credit: Philly Shipyard



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## FOR MORE INFORMATION:

Visit [www.maritime.dot.gov](http://www.maritime.dot.gov)

For media or congressional inquiries, contact the Office of Congressional and Public Affairs at [maradpressoffice@dot.gov](mailto:maradpressoffice@dot.gov)

## INNOVATIVE MODEL

The NSMV showcases a new model of federal government shipbuilding, in which the U.S. leverages the expertise of commercial owners/operators/shipbuilders with experience building U.S.-flagged vessels. By applying this new approach to government-owned vessels, MARAD benefits from commercial best practices of design standards and construction. This efficient and cost-effective process better supports U.S. national security interests by building vessels **as designed, in accordance with set schedule dates for a fixed price.**

Additionally, each ship will meet or exceed the latest environmental standards.

## HIGH LEVEL OF SAFETY

Classed as a Special Purpose Ship, the NSMV design meets national and international safety requirements, such as the Safety of Life at Sea and Public Nautical School Ship requirements.

**EACH SHIP WILL MEET THE HIGHEST CURRENT AND FUTURE ENVIRONMENTAL STANDARDS.**

## BASIC SPECIFICATIONS OF NSMV



### PRINCIPLE DIMENSIONS

- Length 160.05 m (525'-1")
- Beam 27.0 m (88'-7")
- Depth 16.8 m (55'-1.5")
- Design Draft 6.5 m (21'-4")
- Range: 10,000+ miles at 18 knots

### PROPULSION, SPEED AND CONSUMPTION

- Diesel electric
- Four main engines segregated in two engine rooms
- Total installed power – 16,800 kW plus 900 kW Emergency Generator
- Two sets of electric propulsion motors in series with an output of 9,000 kW
- Full speed – 18 knots with 15% sea margin
- Cruising speed – 12 knots with 15% sea margin

### MANEUVERING

- NSMV designed with capability to perform normal docking without assist tugs
- 1800 kW Retractable, Azimuthing Bow thruster
- 890 kW Stern thruster
- Flap type rudder





**NSMV PROGRAM'S CONTRIBUTION TO ECONOMIC AND NATIONAL SECURITY**

With the NSMV, the United States becomes better equipped to increase the ranks of a well-trained maritime workforce, improve its security interests at home and around the world and bolster critical sectors of its economy.



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**TIMELINE (FY)**

- 2017** NATIONAL DEFENSE AUTHORIZATION ACT AUTHORIZES NSMV PROGRAM
- 2019** MARAD SELECTS TOTE SERVICES, INC AS VESSEL CONSTRUCTION MANAGER AND AUTHORIZES CONSTRUCTION OF NSMV 1 AND NSMV 2
- 2020** TOTE SERVICES, INC SELECTS PHILLY SHIPYARD, INC. TO CONSTRUCT VESSELS
- 2021** MARAD AUTHORIZES CONSTRUCTION OF NSMV 3 AND NSMV 4 AND SECURES FUNDING FOR NSMV 5 TO COMPLETE THE STATE-CLASS
- 2023** FIRST VESSEL DELIVERED FOR ASSIGNMENT TO SUNY MARITIME COLLEGE
- 2024** SECOND VESSEL DELIVERED FOR ASSIGNMENT TO MASSACHUSETTS MARITIME ACADEMY
- 2025 – 2026** THIRD, FOURTH AND FIFTH VESSELS DELIVERED FOR ASSIGNMENT TO MAINE MARITIME ACADEMY, TEXAS A&M MARITIME ACADEMY AND CALIFORNIA STATE UNIVERSITY MARITIME ACADEMY, RESPECTIVELY



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