

# Maritime Administration (MARAD)

## Marine Board Meeting April 6, 2022



Environment



Security



Safety



Office of Safety, MAR-430





# MARAD Update

- Department of Transportation (DOT) Activities
  - FY 2022 President's Budget, includes \$621 billion for transportation & resilience investments from American Jobs Plan, highlights:
    - \$2.9 billion in [Building a Better America DOT Major Grant Programs](#)
      - [The INFRA \(Infrastructure for Rebuilding America\) Grants Program](#)
      - [The Mega Grant Program](#)
      - [The Rural Surface Transportation Grant Program](#)
      - Single streamlined Application Process for all three grant programs
    - \$1 billion for the [Rebuilding American Infrastructure with Sustainability and Equity \(RAISE\) grants](#) – formerly known as TIGER/BUILD Grants ([How to Apply](#))
    - \$110 million for a new Thriving Communities program to help communities eliminate transportation barriers and increase access to jobs, schools and businesses.
    - \$1.2 billion for the Maritime Administration, including:
      - \$230 million for the [Port Infrastructure Development Program](#)
      - \$316 million for a 5th National Security Multi-Mission Vessel (NSMV) to replace California Maritime Academy (CMA) Training Ship (T.S.)



# MARAD Update

- Department of Transportation (DOT) Activities
  - Innovation: A hallmark of Secretary Buttigieg leadership of DOT
    - The Secretary's Innovation Principles:
      - serve our policy priorities
      - help America win the 21st century
      - support workers
      - allow for experimentation and learn from failure
      - provide opportunities to collaborate
      - be flexible and adapt as technology changes
    - Innovation @ USDOT website: <https://www.transportation.gov/innovation>
  - Freight Indicators: Bureau of Transportation Statistics has begun a weekly update and release of Freight Indicators
    - That includes port congestion inside and outside the Gate, freight movement, and transportation labor and capacity tightness
  - Non-Traditional & Emerging Transportation Technology (NETT) Council: Federal Register notice seeking public comment on projects, issues, or topics that DOT should consider through the NETT Council, closes on April 8 ([NETTCouncil@dot.gov](mailto:NETTCouncil@dot.gov))





# MARAD Update

- Department of Transportation (DOT) Activities
  - USDOT Research, Development and Technology Strategic Plan:
    - Update 5-year DOT RD&T Strategic Plan (2022-2026); comments ([rdtplan@dot.gov](mailto:rdtplan@dot.gov))
  - OST-R Funding Opportunities:
    - University Transportation Center (UTC) Grants; NOFO May 2022.
    - Strengthening Mobility and Revolutionizing Transportation (SMART) Grants; Notice of Funding Opportunity (NOFO) in calendar year 2022
  - Other Activities of Interest
    - [Passenger Ferry Grant Program](#) - \$45.3 million administered by FTA for FY 2021, with projects in 11 states and territories.
    - Position, Navigation and Timing/Spectrum - \$17 Million, 3-year money
    - [DOT Supply Chain Assessment of the Transportation Industrial Base](#) (Feb 2022)
    - Workforce Development and DEI is a priority for DOT/MARAD
    - CMTS Established a Mariner & MTS Workforce IAT to include working groups on:
      - Diversity, Equity and Inclusion (DEI)
      - Military to Mariner (M2M)
      - Mariner Mental Health & Welfare
      - Recruitment & Retention
      - Sexual Assault and Sexual Harassment (SASH)



# MARAD Update

- MARAD Grant Programs

- \$450 Million NOFO for the [Port Infrastructure Development Program \(PIDP\)](#)
  - National Defense Authorization Act and Jobs Act (IIJA) for Fiscal Year 2022
  - [Notice of Funding Opportunity \(NOFO\)](#)
  - Applications due by COB May 16, 2022
  - 80% federal / 20% local cost share
  - No more than 25% of funds (\$112.5 million) can be awarded to one state
  - \$112.5 million set aside for small projects at small ports
- \$234 Million Notice of Funding Opportunity for the [Port Infrastructure Development Program \(PIDP\)](#)
  - Consolidated Appropriations Act 2022 signed by the President, March 15, 2022
  - For coastal seaports, inland river ports, or Great Lakes ports, with no less than \$209,310,000 going to coastal seaports or Great Lakes ports
- PIDP grant program staff contact: Aubrey Parsons, MARAD
  - Email: [PIDPgrants@dot.gov](mailto:PIDPgrants@dot.gov)
  - Phone: 202–366–8047



# MARAD Update

## MARAD Grant Programs (continued)

- America's Marine Highway Program (AMHP)
  - \$25 Million Notice of Funding Opportunity (NOFO)
    - Applications due by 5:00 P.M. EDT on April 29, 2022
    - Information available in the Federal Register
    - Timothy Pickering, MARAD Office of Ports and Waterways Planning
      - phone at 202-366-0704, or email at [MH@dot.gov](mailto:MH@dot.gov)
- Maritime Environmental and Technical Assistance (META) Program
  - Foster research, development and demonstration of emerging technologies and processes to improve U.S. maritime industry environmental sustainability
  - New project award on microgrids in the works in response to RFP
  - Areas of interest include: Deep dive studies into regional decarbonization considerations for vessels and ports; RFPs forthcoming



# MARAD Update

- MARAD CoE
  - First 27 [Centers of Excellence Designations for Domestic Maritime Workforce Training and Education \(CoE\)](#)
    - The CoE designation recognizes community colleges and training institutions that prepare students for careers in the Nation's maritime industry, located in 16 states and 1 U.S. territory. Maybe funding opportunities under Bipartisan Infrastructure Law
- MARAD National Security Multi-Mission Vessels (NSMVs)
  - \$316 million in 2022 FY budget for a 5th NSMV for CMA T.S.
  - NSMV I, EMPIRE STATE contract delivery date is April 2023, with each subsequent vessel delivering 9 months after the previous one
  - Purpose
    - Recapitalization of the Training Ship Fleet
    - Humanitarian Assistance/Disaster Relief (HA/DR)
    - Meeting the Five Transportation Priorities:
      - Safety
      - Transportation Equity
      - Climate Change Initiative
      - Transformational Investment
      - Job Creation



# MARAD Update

- MARAD NSMVs [CONT.]

- 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")

- Accommodation

- Training Ship Mode – 600 cadets, 100 officers crew, faculty and staff

- Propulsion, Speed & Consumption

- Diesel electric with four main engines – 16,800 kW plus 900 kW Emergency Generator



- Program Schedule

- ✓ 8 April 2020 TOTE awards shipyard contract for Vessels #1 & #2, with Series Construction Pricing Options and Schedule for Vessels #3, #4 and #5
- ✓ 19 Jan 2021 Award of Vessels #3 and #4
- ✓ 26 April 2021 Start of full-scale vessel construction (NSMV I, EMPIRE STATE)
- ✓ 11 Nov 2021 Start of full-scale vessel construction (NSMV II, PATRIOT STATE)
- ✓ 10 Dec 2021 Keel-laying milestone, NSMV I, EMPIRE STATE



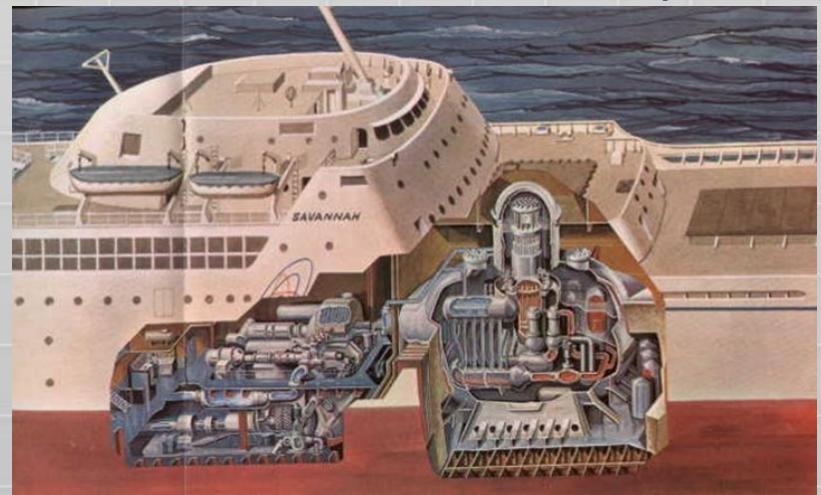


# MARAD Update

- Nuclear Ship SAVANNAH (NSS) Decommissioning & License Termination (DECON-LT)
- NSS Overview
  - Launched 1959 by MARAD – Department of Commerce as part of Atoms for Peace program.
  - All nuclear fuel removed 1971; only reactor and components remaining onboard.
  - Designated a National Historic Landmark in 1991.
  - Currently berthed in Baltimore, MD.
  - MARAD holds a Nuclear Regulatory Commission (NRC) issued license.
  - Decommissioning must be completed no later than December 2031, per the NRC license requirements (60 years after defueling).
  - Congress provided \$131M in funding to MARAD for decommissioning.

# MARAD Update

- Nuclear Ship SAVANNAH (N.S. SAVANNAH) Decommissioning & License Termination (DECON-LT) [CONT.]
- What needs to be done to the SAVANNAH?
  - In accordance with tightly regulated NRC requirements, remaining systems, structures and components associated with the nuclear power plant will be removed, including:
    - Reactor Pressure Vessel
    - Control Rod Drive System
    - Neutron Shield Tank
    - Steam Generators
    - Pressurizer
    - Primary System piping, valves, etc.
    - Outlying equipment and piping
  - Once removed, these items will be properly packaged and transported to a licensed, low-level waste disposal site within the United States.





# MARAD Update

- Technology Opportunities

- Discussion of a possible Maritime Safety Reporting Pilot Project
- Green Energy/GHG Reductions
  - Fuel Cell/Micro Reactors/Electrification
  - Hydrogen/Green Energy productions
  - Offshore Wind, and supporting industries
- Workforce Development
  - Every Mariner Builds A Respectful Culture (EMBARC)/Sexual Assault and Sexual Harassment (SASH)
  - Diversity, Equity and Inclusion (DEI)
  - Traditional/Non-Traditional, I.E. MARAD CoE's
- Comprehensive Regulation Reform
  - Automation/Autonomous Technologies
  - Manning Requirements
  - Energies/Efficiently
    - Alternative fuels (hydrogen, methanal, ammonia, bio-fuels)
    - Alternative technologies (fuel cell, batteries, hybrid, micro reactors)



**Shameless Plug:**

**18th Biennial National Harbor Safety Committee Conference**

**“Maritime Strong: Navigating Diverse Growth and Change”**

**WHEN: June 13-15, 2022**

**WHERE: Boston Park Plaza in Boston, MA**

**Thank You!**

**Todd Ripley**

**Office of Safety**

**Maritime Administration**

**[todd.ripley@dot.gov](mailto:todd.ripley@dot.gov)**

**202-366-2625**