

Maritime Administration (MARAD)

Marine Board Meeting November 2, 2022



Environment



Security



Safety



Office of Safety, MAR-430





MARAD Update

- Department of Transportation (DOT) Activities
 - As part of the Inflation Reduction Act (IRA) DOT goals include:
 - Help ensure that electric vehicle charging is accessible to Americans
 - Provide resources to help reconnect communities
 - Advance sustainable fuels
 - Further reduce emissions by supporting cleaner transportation options
 - Infrastructure for Rebuilding America (INFRA) Grants
 - Awarded \$1.5 billion, with \$8 billion being provided over the next five years
 - Rebuilding American Infrastructure with Sustainability and Equity (RAISE) program
 - Awarded \$2.2 billion to fund 166 projects for urban and rural communities to modernize roads, bridges, transit, rail, ports, and intermodal transportation and make our transportation systems safer, more accessible, more affordable, and more sustainable, with an additional \$7.5 billion over five years



MARAD Update

- Department of Transportation (DOT) Activities
 - Justice40 Programs
 - Deliver 40 percent of overall benefits for climate, clean energy, and related investments to disadvantaged communities marginalized, overburdened, and underserved
 - USDOT has 39 Justice40 programs across five of its operating administrations, including MARAD ([America's Marine Highway Program](#) & [Port Infrastructure Development Program](#)) to advance environmental justice
 - Thriving Communities Initiative (\$110 million)
 - RFI closed on August 26th to receive input from stakeholders
 - Launching this fall to help communities eliminate transportation barriers and increase access to jobs, schools and businesses
 - Freight Logistics Optimization Works (FLOW)
 - Digital tool that gives companies information on the condition of a node or region in the supply chain so that goods can be moved more efficiently
 - Launched in March
 - 36 participants and growing



MARAD Update

- Department of Transportation (DOT) Activities
 - CMTS/TRB Seventh Biennial Marine Transportation System Innovative Science and Technology (MIST) Conference:
 - Innovative Science and Technologies Toward a More Sustainable MTS
 - June 20-22, 2023
 - NASEM facility in Washington, DC
 - Conference Chair has been identified and planning team formed
 - Call for papers/presentations is forthcoming
 - CMTS Established Mariner & MTS Workforce IAT, Topics Included:
 - Diversity, Equity and Inclusion (DEI)
 - Military to Mariner (M2M)
 - Mariner Mental Health & Welfare
 - Recruitment & Retention
 - Sexual Assault & Sexual Harassment (SASH)



MARAD Update

MARAD America's Marine Highway Program (AMHP)

- October, awarded \$39 million in grants for marine highway projects
 - Arkansas - Helena Harbor M-55 Container on Barge Project (\$2,872,414)
 - California & Washington - M-5 Coastal Connector (\$5,550,000)
 - Guam - Guam Marine Transportation Enhancement Initiative (\$5,703,560)
 - Illinois & Missouri - M-55/M-35 Marine Highway Barge Project (\$2,418,500)
 - LA - Baton Rouge-New Orleans Shuttle Service Barge Expansion Project (\$1,050,000)
 - NJ - Port Raritan Terminal Facility Development Planning Grant Application (\$1,128,889)
 - New York - New York Harbor Container & Trailer-on-Barge Service (\$5,160,000)
 - New York-Oswego Port Great Lakes Container Service Reach Stacker Project (\$754,000)
 - Puerto Rico - Puerto Rico Maritime Transportation Service Project (\$2,800,000)
 - Virginia - Richmond Marine Terminal (RMT) Wharf Improvements (\$3,712,000)
 - Washington & Oregon - Tidewater M-84 Barge Service Expansion (\$4,168,759)
 - Wisconsin - M-90 Transbay Marine Highway Equipment Acquisition Project (\$3,303,649)



MARAD Update

- MARAD Programs and Initiatives
 - Small Shipyard Grant Program
 - Announced \$19.6 million in grant awards to 24 small shipyards in 19 states
 - Help awardees modernize, increase productivity
 - Expand local employment opportunities while competing in the global marketplace
 - Title XI Federal Ship Financing Program (Title XI)
 - Announced the designation of offshore wind vessels as Vessels of National Interest
 - Making them eligible for financial support through the Title XI Program
 - Centers of Excellence (CoE) Designations
 - The U.S. Department of Transportation's Maritime Administration (MARAD) recognizes community and technical colleges, and maritime training centers that prepare Americans for careers in the maritime industry
 - Maritime Transportation System National Advisory Committee (MTSNAC)
 - Announced the appointment of 25 new members
 - Advise the Secretary, through MARAD, on ways to identify and address impediments hindering the effective use of short sea transportation

MARAD Update

- National Security Multi-Mission Vessels (NSMVs)

- 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

- ✓ NSMV I, Launched in September 2022 and is being outfitted, then dock trials/sea trials
- ✓ NSMV II, Keel laying started September 2022 and is now being assembled in dry dock
- ✓ NSMV III, has started pre-fabrication
- ✓ NSMV I, EMPIRE STATE contract delivery date is April 2023 for SUNY Maritime College
- ✓ Four subsequent NSMV vessels scheduled for delivery 9 months after the previous one
(Massachusetts Maritime Academy, Maine Maritime Academy, Texas A&M Maritime Academy, California State University Maritime)



MARAD Update

- Maritime Administrations (MARAD) Activities
 - Ship Operations Cooperative Program (SOCP) Autonomous Event:
 - Spring 2023
 - Location TBD
 - USCG Engagement
 - MARAD/SOCP Sexual Assault/Sexual Harassment (SASH) Efforts
 - Every Mariner Builds a Respectful Culture (EMBARC)
 - Achieving a Respectful Onboard Culture (AROC) Working Group
 - SOCP-MARAD Cooperative Agreement
 - » Update SASH Best Practices
 - » Update SASH Multimedia Training Products
 - » Develop new SASH Training Products/Material



MARAD Update

- SafeMTS Pilot Program (Near Miss/Close Calls System)
 - SafeMTS: A voluntary, confidential, non-punitive program aimed at collecting, analyzing, and benchmarking near miss data from the maritime industry to advance safety and environmental stewardship
 - Objectives:
 - Collect near-miss data from industry partners that can be analyzed to identify safety-related trends to prevent incidents or identify otherwise non-correlated events
 - Share results with industry stakeholders to support continuous safety improvements
 - Align ASTM standard to data collection and reporting requirements for SafeMTS
 - Addressing Impediments:
 - Data Protections - Data and information protections through [Confidential Information Protection and Statistical Efficiency Act, \(CIPSEA\)](#)
 - Sponsorship - Partnership between DOT's [MARAD](#) and [Bureau of Transportation Statistics \(BTS\)](#) to sponsor the SafeMTS Pilot Demonstration
 - Buy in - Industry collaboration and leadership for development of SafeMTS Pilot



MARAD Update

- SafeMTS Pilot Program (continued)
 - SafeMTS Pilot Demonstrations
 - BTS will develop, host and operative pilot with CIPSEA data protections
 - Leveraging [SafeOCS](#) developed for the offshore oil and gas industry
 - Strong industry input and participations with 9 volunteer maritime operators, input from industry trade associations, as well as maritime safety technical experts
 - Robust benchmarking capabilities with dashboards to shares learnings, identifies gaps, and maintains safety of facilities, safety of personnel, safety of environment, and safety of operations
 - Gather SafeMTS Pilots Demonstration result, lessons learned and recommendations and publish in a final report outlining safety implication that could be realized for the maritime industry
 - Target Milestones
 - 2022 Q3-Q4: Onboard participating companies
 - 2022 Q4: All data files submitted
 - 2023 Q1-Q2: Stakeholder meetings to review interim results
 - 2023 Q3: Publish aggregated results and lessons learned from pilot process
 - 2024: Leverage demonstration for implementation of the SafeMTS Program



MARAD Update

- Micro Reactor Technology
 - Department of Energy - [Molten Salt Reactor Technology Development](#)
 - Facilitate industry success in the deployment of commercial molten salt reactors
 - Develop understanding and technology needed to design and license
 - Have a workable path for licensing of commercial prototypes in the near term
 - Have a vendor well along the licensing path NLT five years from now
 - Help with the first new MSR construction and monitor operation
 - Three-year milestones to develop monitoring technology for first reactors
 - Develop a common understanding of licensing needs and expectations
 - Facilitate the technology, data, and models that enable designs
 - Be able to assist developers through modeling and experiments
 - Maritime Nuclear Application Group (MNAG)
 - Vessel propulsion
 - Off-shore energy productions
 - Green fuel productions
 - Electric power generation
 - Reverse cold ironing



Shameless Plug:

CMTS/TRB Seventh Biennial MTS Innovative Science Conference

“Innovative Science and Technologies toward a more Sustainable MTS”

WHEN: June 19-22, 2023

WHERE: National Academies facility in Washington, DC

Thank You!

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