OFFICE OF SHIP DISPOSAL PROGRAMS

ANNUAL REPORT FOR FISCAL YEAR 2018

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MARITIME ADMINISTRATION

OFFICE OF SHIP DISPOSAL PROGRAMS

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EXECUTIVE SUMMARY

The Maritime Administration (MARAD) publishes this report annually to provide previous Fiscal Year information on the disposition of MARAD's non-retention vessels within the National Defense Reserve Fleet (NDRF) that have been determined to be obsolete and classified as non-retention vessels. The report includes information on the Fiscal Year (FY) activities of the nuclear retention vessel N.S. Savannah (NSS), a program administered within the Office of Ship Disposal Programs (OSDP).

LOW NUMBER OF VESSELS AWAITING DISPOSAL

MARAD's Ship Disposal Program (SDP) continues to meet or exceed key performance measures related to the disposal of non-retention ships including the removal of more obsolete vessels annually than the average number of vessels entering the disposal queue. At the end of FY 2018, there were eight non-retention ships remaining in two of MARAD's three NDRF sites and three at the U. S. Navy's Naval Inactive Ship Maintenance Office (NISMO) in Philadelphia, PA, awaiting disposal through MARAD's Ship Disposal Program (SDP). Noteworthy success in FY 2018 include the rebound in scrap steel prices and the sale of three non-retention vessels for recycling crediting approximately \$3.0 million into the Vessel Operating Revolving Fund (VORF). In addition, MARAD, as agent for the United States Coast Guard (USCG), awarded ship recycling and dry-docking contracts for two USCG buoy tenders, IRIS (WLB-395) and PLANETREE (WLB-307) located in the Suisun Bay Reserve Fleet (SBRF). The two vessels are owned by the USCG, were never transferred into the NDRF and MARAD provided custodial care during their long term lay-up in the SBRF. The SDP shall provide project management, and contract administration services during the recycling of the two vessels at a MARAD qualified domestic ship recycling facility in Texas.

NON-RETENTION VESSEL REMOVALS FROM THE NDRF IN FY 2018

In FY 2018, MARAD removed for disposal a total of five obsolete NDRF vessels from the James River Reserve Fleet (JRRF) and Beaumont Reserve Fleet (BRF). Table 1 below identifies the fleet, date, contract type and name of the vessels removed for disposal in FY 2018.

| | | Vessels R | Removed in FY 2018 | |
|-------|---------------|--------------|--------------------|---------------|
| Fleet | Month Awarded | Date Removed | Vessel | Contract Type |
| JRRF | October | 10/19/2017 | HARKNESS | Service |
| JRRF | October | 10/25/2017 | CAPE JOHNSON | Service |
| BRF | April | 5/3/2018 | OBSERVATION ISLAND | Sale |
| BRF | April | 5/24/2018 | TRIPOLI | Sale |
| BRF | August | 8/28/2018 | CAPE LOBOS | Sale |

Table 1: Vessel Removals in FY 2018

BEST VALUE PROCUREMENT

MARAD uses a two-step source selection process, first by qualifying ship recycling facilities and creating a pool of qualified facilities that are then eligible to submit competitive sales offers or price revisions when requested by MARAD. Ship recycling contracts are awarded for the sale or purchase of ship recycling services based on best value to the Government, consistent with the Federal Acquisition Regulation (FAR) procedures and processes for simplified acquisitions. When determining best value, MARAD considers price and non-price factors of performance schedule, facility capacity and past performance. The best value source selection process allows the government to accept an offer other than the best-priced offer, considering both price and non-price factors, that provides the greatest overall benefit to the government.

In FY 2018, MARAD awarded three single ship best value ship recycling sales contracts for three BRF vessels, which returned the highest offered single ship sales price. In addition, MARAD awarded a single lot best value ship recycling service contract for two USCG vessels located in the (SBRF), which returned the lowest offered price quotation.¹

SALES REVENUE AND DISTRIBUTION

The three vessels sold for recycling in FY 2018 generated \$3,030,859 in sales revenue, which was credited into the (VORF) account. Revenues from the sale of obsolete NDRF vessels do not supplement SDP appropriations. The National Maritime Heritage Act (NMHA)² requires the allocation and distribution of obsolete vessel sales proceeds into the VORF. The distribution of the vessels sale proceeds from the VORF provides 50% for NDRF acquisition, repair and maintenance; 25% for the United States Merchant Marine Academy (USMMA) and the six State Maritime Academies (SMA) expenses; and 25% to the National Park Service (NPS) to carry out the National Maritime Heritage Grant Program (NMHGP). Not less than 25% of the 25% of the amount available in each FY to the NPS shall be <u>set aside</u> for preservation and presentation to the public of maritime heritage property of the Maritime Administration.

Sales proceeds credited to the VORF account from ship recycling sales are only available for distribution under the funding provisions of the NMHA when the contracts under which those sales proceeds were received have been closed. Only at that time is it clear that the sales proceeds are no longer subject to claims by the recycling contractor. Recycling contractors can, and have submitted claims or issues that have been raised affecting MARAD's entitlement to the sales proceeds from various contracts. The Federal Government's full rights to the contracts' proceeds are not complete until the recycling contract is completed and the contract is closed.

To ensure that sufficient funds are available if a refund of all or a portion of the purchase price to the recycler is necessary, sales proceeds are placed into a VORF suspense sub-account until all contract contingent liabilities are extinguished and the contract closed. Once all contract contingent liabilities are satisfied and the contract closed, the sales proceeds are distributed from

¹ The two SBRF vessels were the USCG owned buoy tenders IRIS and PLANETREE. MARAD provided ship recycling and dry-dock contract administration services for the two vessels via an economy act transfer agreement. Each vessel is less than the 1,500 gross tons' statutory threshold and were never transferred into the National Defense Reserve Fleet.

² The NMHA was amended by the FY 2017 National Defense Authorization Act which changed the 25% distribution formula to the National Park Service and the Maritime Administration.

the suspense account into the appropriate VORF sub-accounts as per the funding requirements of the NMHA. In FY 2018, ship recycling sales revenues in the amount of \$3,030,862 have been credited to the VORF suspense account and will become available for distribution when each sales contract is completed and closed.

In FY 2018, approximately \$1,490,372 was obligated to Ready Reserve Fleet (RRF) vessels for repair and maintenance activities. Funds obligated to the USMMA and the six SMA totaled \$1,680,000. No funds were requested by the NPS to support maritime heritage projects selected in the NMGHP. MARAD expended \$820,640 in FY 2018 for the preservation and presentation to the public of MARAD's maritime heritage property from previously distributed funds.

INDUSTRY OUTREACH

In 2013, MARAD issued a revised ship recycling solicitation that streamlined the solicitation process, reduced the size and complexity of ship recycling contracts and increased the transparency of the process. MARAD has issued updates to the solicitation including better explanations of the "best value" process for award selections. In addition, MARAD posts all awarded contracts, which includes the awarded price and schedule of performance, on its acquisitions website; The Virtual Office of Acquisition (VOA). All offerors can compare their offers to the awarded offer. MARAD also offers individual debriefings upon request to discuss individual ship recycler offers and the best value decision.

In February 2018, MARAD hosted a budget rollout teleconference for the ship recycling industry whereby the Maritime Administrator presented the President's FY 2019 budget proposal. In April 2018, MARAD organized a town hall meeting in Brownsville, TX, hosting the ship recycling industry executives, Port officials, Occupational Safety and Health Administration (OSHA) representatives, Defense Logistics Agency (DLA) ship sales contracting officers, Texas General Land Office environmental specialists and the USCG Port of Brownsville Senior Vessel Safety inspector and discussed various topics of interest to all parties relative to ship recycling and hazardous material remediation. Senior MARAD leadership provided an overview of the SDP including future annual vessel disposal projections, impacts of the collapse in the price of recycled steel, actual and projected budget appropriations for the program and explained the use of the best value process for award selection. The Maritime Administrator, OSHA and DLA representatives toured the qualified ship recycling facilities and met individually with each recycler.

FEDERAL SHIP OUTREACH PROGRAM

MARAD previously identified the Federal Agencies who own and operate merchant-type vessels or vessels that can be converted to merchant-type use that meet and exceed the 1,500 gross ton statutory criteria. They include the United States Army Corps of Engineers (USACE), the Department of the Army (ARMY), United States Maritime Administration (MARAD), Department of the Navy (NAVY), NAVSEA Inactive Ships Office (Sea 211), NAVSEA Military Sealift Command (MSC), NAVSEA Office of Naval Research, (ONR), National Science Foundation (NSF), National Oceanic and Atmospheric Administration, (NOAA), and the United States Coast Guard (USCG). In FY 2018, MARAD canvassed each Agency requesting updates to their FY 2017 planned vessel retirement schedules. In this report MARAD has compiled for each agency a summary of the planned vessel service retirement schedules and vessels available for disposal for FY's 2019-2023.

NUCLEAR SHIP SAVANNAH

The N.S. SAVANNAH (NSS) is the world's first nuclear-powered merchant ship. It was conceived and constructed by the Eisenhower Administration as part of the Atoms for Peace Program, as a joint project that included MARAD and the former Atomic Energy Commission. MARAD operated NSS through 1970, after which it became a legacy asset; it has been maintained in Baltimore, MD in protective storage since 2008. NSS is licensed and inspected by the U.S. Nuclear Regulatory Commission (NRC) under the authority of a license that was first issued in 1965; the license has been maintained continually, and will remain in effect until it is terminated by the NRC at the conclusion of decommissioning. Decommissioning is a process defined, licensed and inspected by the NRC, with a total allowable time of 60 years for completion. MARAD's deadline to complete decommissioning is December 2031, dating back to permanent cessation of operations in December 1971.

Funding for decommissioning and license termination was appropriated in FY 2017 and 2018. MARAD formally commenced decommissioning at the start of FY 2018, and expects to complete the process and terminate the license in seven (7) years. The NSS will be disposed by MARAD after the license is terminated.

I. SHIP DISPOSAL PROGRAMS

Overview

MARAD established the SDP in 2001 to accomplish the requirements of the Floyd D. Spence National Defense Authorization Act for Fiscal Year 2001, Pub. L. 106-398, § 3502, 114 Stat. 1654A-490 (2000) (the Act), which required the disposal of all vessels in MARAD's NDRF that were not assigned to the RRF or otherwise designated to be used for a particular purpose. In the 18-year period since FY 2001, MARAD awarded disposal contracts for 224 obsolete ships, removed 226 ships from MARAD and Navy NISMO fleet sites and completed disposal actions on 226 ships. During this period, 137 ships were downgraded from retention to non-retention status and added to the disposal queue. At the start of FY 2018, there were only 13 MARAD ships designated as non-retention and available for disposal.³ The three vessels located in the Philadelphia, PA, NISMO facility designated for disposal by MARAD are currently unavailable for disposal. It is anticipated that an additional one to three MARAD retention ships will be downgraded and added to the disposal queue annually for the foreseeable future.

Since the establishment of the Program in 2001, MARAD has aggressively pursued all feasible disposal alternatives including domestic recycling, the sale of ships for re-use, artificial reefing, deep-sinking, donation and the potential for foreign recycling. While domestic recycling continues to be the most preferred, expedient and cost-effective disposal method for MARAD's non-retention vessels, other disposal options will periodically be evaluated for disposal opportunities.

However, it should be noted that statutory and regulatory restrictions have effectively precluded foreign dismantling of obsolete vessels as a viable Program option. Vessel export limitations imposed in FY 2009 legislation prohibit the export of NDRF vessels for recycling without MARAD certification to Congress that there is insufficient capacity for ship recycling in the U.S. Further, the Toxic Substances Control Act (TSCA) prohibits the export of polychlorinated biphenyls (PCBs) and would require a lengthy formal Environmental Protection Agency (EPA) administrative rulemaking process for an exemption allowing the export of obsolete vessels containing PCBs above the regulated limit.

Through the use of full and open competition MARAD continues to utilize all feasible disposal options available to achieve environmentally acceptable removal and disposal of its non-retention ships. MARAD's policy is to prioritize the removal for disposal of non-retention ships that are in the worst material condition with an annual goal of removing its obsolete vessels at a rate that is greater than the number of ships that are added to the disposal list annually.

Domestic Scrap Steel Prices

The MARAD ship disposal sales program is highly dependent on a robust domestic and international scrap steel market. When scrap steel sales are high MARAD sells non-retention vessels from its three NDRF fleet sites and INACTSHIPMAINTO in Philadelphia, PA, and Pearl Harbor, HI, for recycling at qualified domestic facilities in Texas and Louisiana. As scrap metal prices fall, the total amount paid for each vessel also falls as the volatility in the scrap metal

³ The 13 MARAD ships consisted of five vessels in the James River Reserve Fleet and eight vessels in the Beaumont Reserve Fleet.

market makes it more difficult for each recycler to predict future scrap steel prices to sufficiently cover fixed and variable costs. Recyclers buy vessels with an eye towards future scrap steel prices because six months or more may elapse from the time they purchase a vessel to the time they actually sell the scrap steel product into the recycling market.

Scrap steel prices rebounded sufficiently in late FY 2017 and particularly through FY 2018, allowing MARAD to sell three NDRF non-retention vessels for recycling, crediting \$3.0 million into the VORF account.

Figure A depicts the volatility of scrap steel prices in FY's 2015-2018. The domestic scrap steel market continued a downward spiral after reaching its \$400 per metric ton peak in January 2014, with the most dramatic decline occurring in 2015. By the beginning of FY 2015 scrap steel prices dropped to approximately \$368 per metric ton. By January 2015, scrap steel prices were approximately \$320 per metric ton, and by October 2015 the prices plummeted to a low of approximately \$135 per metric ton: a 58% decrease. Scrap steel prices had collapsed to levels not seen in the previous 15 years. By December 31, 2015, scrap steel prices had drifted upward to around \$142 per metric ton. From January through April 2016, scrap steel prices hovered between \$140 and \$153 per metric ton, then limped along in the \$190's per metric ton range before reaching a peak of \$200 per metric ton in August. Prices declined to \$160 per metric ton by the end of December. In January 2017, scrap steel prices began to rebound, and in February they crossed the \$200 per metric ton threshold. By April scrap steel prices had reached \$292 per metric ton. From May through September, they hovered in the \$260-\$285 per metric ton range before crossing the \$300 per ton threshold in November. From December 2017, scrap steel prices continued to increase, reaching a high of \$379 per metric ton by June before falling back to \$302 per metric ton by the end of FY 2018.⁴



Figure A: USA Scrap Steel Price Trends FY's 2015-2018

Source data for the Average USA Monthly Scrap Steel Price Trend chart is compiled from: The Scrap Register (http://www.scrapregister.com); Recycler's World, (http://www.recycle.net); Steel Insight (http://www.steel-insight.com); and United States Steel Corporation (https://www.ussteel.com) and www.worldsteel.org

⁴ MARAD Monthly Average USA Scrap Steel Price Trend Report

The sharp decline and slow recovery in the price of scrap steel from late 2015 through mid-2017 greatly contributed to the uneconomical domestic market for ship sales. This caused ship recyclers to shun vessel sales in favor of service contracts to minimize risk and support recycling costs on MARAD/Navy non-retention vessels. The collapse in scrap steel prices reversed the MARAD ship sales program to the point where ship sales were no longer feasible. MARAD had to procure ship recycling services with most of its remaining available appropriated funds.

The DLA had similar results when selling Navy combatant vessels for recycling.⁵ The DLA sold six vessels in February 2015 for \$52,888 and canceled its most recent sales solicitation in August 2016 when they received no technically qualified offers. The DLA did not issue a sales solicitation in FY 2018 because they are constrained from selling additional Navy combatant vessels until the Navy completes a programmatic environmental assessment for the disposal of its inactive ships. The Navy continues its consultation with the National Marine Fisheries Service (NMFS) regarding the completion of an environmental biological programmatic assessment designed to evaluate the Inactive Ships Program and its effects on threatened or endangered species and their dependent ecosystem. A component of the biological programmatic and the transfer for recycling of inactive vessels that contain biofouling organisms and what impact their transit may have on the environment. Since FY 2013, the Navy has focused expending its appropriations on recycling its backlog of obsolete conventionally powered aircraft carriers. Five aircraft carriers have been awarded to three ship recyclers in Brownsville, TX.⁶

Numerous factors affect whether the recycling of non-retention vessels is accomplished through vessel sales with revenue to the Government or in the procurement of recycling services with appropriated funds. The primary factors include the market price of scrap metals, the vessel's size/condition, the type and quantity of hazardous materials, the quantity and type of recyclable materials, the amount of competition for each vessel, the duration/cost of the tow from the fleet to the recycling facility, and the cost to remove marine growth prior to towing to different biogeographical areas. The highest-costs are typically associated with SBRF vessels due to the current environmental requirement to dry-dock each vessel to remove marine growth prior to removal and start of the 5,000-mile tow to a Gulf Coast recycling facility. These cost factors render the sale of SBRF vessels the first impacted by and the last to recover from volatile scrap steel prices.

During periods of low scrap steel prices, revenues from the sale of the vessel scrap ferrous and non-ferrous metals are insufficient to cover the fixed costs of purchase, towing, insurance, and labor much less the unknown costs for hazardous material remediation. Predicting the market price of scrap steel five to six months after contract award, when the vessels are undergoing dismantlement, in a declining scrap steel market, along with disposal of unknown quantities of ship board hazardous materials is too great a risk for the smaller recyclers to accept. These factors limit competition for the purchase of vessels, with the recycling industry looking to

⁵ The Defense Logistics Agency is the Navy's designated sales agent for the disposal of conventional combatant type-vessels via recycling.

⁶ MARAD and the Navy have qualified a number of the same facilities to perform ship recycling. The three facilities qualified by Navy to dismantle aircraft carriers are also the largest recyclers qualified by MARAD. Collectively they account for the majority of MARAD and Navy ship recycling contract awards.

MARAD and the Navy to subsidize the disposal of non-retention vessels through the procurement of ship recycling services.

MARAD requests annual ship disposal program funding to mitigate the volatility of the scrap steel markets, continue disposal of the worst conditioned vessels and to help maintain an industrial base of qualified ship recycling facilities. Flexibility to quickly pivot from ship sales to procurement of recycling services, in response to the volatility of scrap steel prices, provides MARAD continuity of ship disposal awards, which minimizes increasing the backlog of obsolete vessels in the fleets, continues the removal of the worst conditioned vessels and minimizes the threat of potential environmental incidents.

Domestic Recycling Industry

At the start of FY 2018, there were five qualified MARAD ship recycling facilities all located on the Gulf Coast in Louisiana and Texas. The number of qualified ship recycling facilities remained steady throughout FY 2018. MARAD currently does not have qualified ship recycling facilities on either the East or West coasts. The lack of qualified ship recycling facilities on the East and West coasts contributes to higher ship recycling costs particularly during down turns in the price of scrap steel. This is especially evident on the West coast where MARAD must use appropriated funds to procure dry-docking services to remove aquatic fouling from the underwater hulls of SBRF vessels prior to towing to a Gulf Coast recycling facility. Sales offers are generally lower, dry-docking costs are a requirement and towing costs are higher for SBRF vessels due to the cost of the long tow and Panama Canal transit fees. Ship recycling sale solicitations are inclusive of the costs of towing and Panama Canal fees. However, MARAD independently procures dry-docking services for the SBRF vessels and must include estimated costs for these services in its annual budget requests.

Three of the five qualified ship recycling facilities are located in Brownsville, TX, and include International Shipbreaking Ltd., (ISL), All Star Metals, LLC., (ASM), and HRP Brownsville, LLC, (HRP).⁷ Since 2014, ISL has focused on dismantling obsolete, conventionally-powered naval aircraft carriers. They have expanded their facility to accommodate up to two aircraft carriers at a time. ISL has successfully dismantled the Ex-CONSTELLATION, the Ex-RANGER and is actively dismantling the Ex-INDEPENDENCE, which is on schedule for completion in December of 2018. In April, ISL purchased the Ex-MARAD vessel TRIPOLI and is actively dismantling the vessel. They are also actively dismantling three commercial oil drilling ships. ASM completed the dismantlement of the Ex-FORRESTAL in 2015. In FY 2018, they completed the dismantlement of the last two MARAD SBRF vessels removed under the Consent Decree, the CAPE BRETON and CAPE BORDA. They also completed the dismantlement of the Ex-MARAD vessels HARKNESS and CAPE JOHNSON. In April, they purchased the Ex-MARAD vessel OBSERVATION ISLAND and are actively dismantling the vessel. They have dismantled a number of commercial vessels as well. HRP Brownsville, (HRP), dba SteelCoast USA, formerly ESCO Marine, Inc., (ESCO) continues to rebound after emerging from court supervised re-organization in May of 2017. HRP has completed the recycling of the Ex-MARAD vessels SHENANDOAH and YELLOWSTONE. They are

⁷ ISL is a subsidiary of Southern Recycling, LLC which in turn is owned by the European Metal Recycling Group. ASM is a subsidiary of Scrap Metal Services, Inc. HRP Brownsville, LLC, (Hilco Redevelopment Partners), is the former ESCO Marine, Inc., which emerged from bankruptcy re-organization on May 1, 2017.

actively dismantling the aircraft carrier Ex-SARATOGA which is scheduled for completion by March of 2019. In August, they purchased the Ex-MARAD vessel CAPE LOBOS and are actively dismantling the vessel. They have been active in the commercial ship recycling market as well and have branched into the recycling of oil rig platforms.

Southern Recycling, LLC, (SOREC) based in New Orleans, operates the other two MARAD qualified ship recycling facilities, one in New Orleans and the other located in Amelia, LA. SOREC is a large metals recycling company with multiple recycling operations and locations throughout the Gulf. Ship recycling is but one line of business for this diversified company.

Domestic ship recycling capacity is currently adequate to meet MARAD's requirements given the decreasing number of non-retention ships available for disposal, the limited participation by the Navy due to their ongoing environmental consultation with the NMFS, the projected number of Federal vessel retirements during the next five years and the encouraging rebound in the price of scrap steel.

The last of the five Navy aircraft carriers undergoing dismantlement Brownsville, TX, is expected to be completed in March of 2019. The ongoing consultation between the Navy and the NMFS shows no signs of reaching a conclusion anytime soon. In addition, The Suquamish Tribe of Seattle, WA, in concert with the Washington Environmental Council and Puget Soundkeeper Alliance have sued the Navy alleging the Navy performed in-water hull cleaning of the aircraft carrier Ex-INDEPENDENCE in violation of federal clean-water laws. As a result, Navy has halted further ship recycling awards pending resolution of the litigation and conclusion of the NMFS biological consultation. However, there is concern that the current MARAD qualified domestic industrial ship recycling capacity and competition for MARAD's vessels will decrease if the Navy settles the litigation, completes the consultation with the NMFS and restarts scrapping combatant vessels. The Navy has a back log of 28 inactive vessels designated for scrapping and re-starting domestic ship recycling may lead to the award for dismantlement of two additional Navy aircraft carriers in the next two years as well as sale awards for combatant vessels by DLA. Inundating the domestic recycling industry with the two Navy carriers, combatant and non-combatant vessels, while a boon to the industry in the short term, would reduce competition for the sale for recycling of MARAD vessels thus lowering sale revenue into the VORF.

The evidence of less available capacity was first evident in FY 2014, with the lack of offers on MARAD vessels by recyclers that were awarded Navy aircraft carrier disposal contracts. In FY 2015, low scrap steel prices reduced available capacity as ship recyclers, unable to cover fixed costs through vessel sales, choose not to participate in MARAD ship recycling sales announcements. Volatile scrap steel prices coupled with future price uncertainty increase risk for ship recycling operations. Under capitalized companies are less competitive and increasingly rely on Government service contracts to sustain operations.

Federal Ship Outreach

In FY 2018, MARAD requested updates to planned vessel disposal status and retirements dates from the Federal Agencies who own and operate merchant-type vessels or vessels that can be converted to merchant type use that meet and exceed the 1,500 gross ton statutory criteria of 40 USC Section 548 – Surplus vessels. MARAD maintains a Federal Ship database incorporating

each agency's combatant and/or merchant-type vessels comprising the following information; ownership, principal characteristics, gross tonnage, construction date, age and estimated retirement date. Included in the compilation of vessels are active Navy combatant vessels with the exception of nuclear powered aircraft carriers and submarines as these vessels will be recycled by the Navy at Commercial or Naval Shipyard facilities with nuclear decontamination and dismantlement expertise.⁸ MARAD did not include any nuclear-powered submarines or aircraft carriers except Ex-ENTERPRISE (CVN 65), nor any vessels under 1,500 gross tons such as mine sweepers, yard tugs and patrol craft.

This report does not distinguish Navy Battle Force Ships from Non-Battle Force Ships. Battle Force Ships are commissioned United States Ship (USS) warships capable of contributing to combat operations, or a United States Naval Ship (USNS) that contributes directly to Navy warfighting or support missions. The Navy maintains the most current Battle Force Ship count on the Naval Vessel Register located on the web at www.nvr.navy.mil.

MARAD furnished each agency a list of their vessels from the Federal Ship database and requested they confirm and verify the data provided.⁹ Figure B summarizes the Active and Inactive Vessels by Agency. The pie-chart on the right provides a graphical depiction of the total number of vessels owned by each agency.

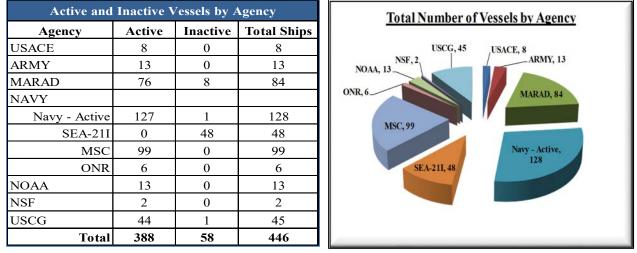


Figure B: Total Active and Inactive Vessels by Agency

The largest concentration of active and inactive vessels is within the Navy. The total number of active and inactive vessels within the Navy is 281 or 63 percent of the total. MARAD is second with 84 active and inactive vessels representing 19 percent of the total. Combined MARAD and Navy account for 365 active and inactive vessels or 82 percent of the total.

⁸ The one exception being the Ex-Enterprise (CVN-65). The Navy is exploring various disposal options for the vessel including, potentially, conventional dismantling of the non-nuclear sections of the vessel at a shipyard or ship recycling facility.

⁹ MARAD can request each agency's participation but has no statutory enforcement authority to compel any agency to dispose of its Government–owned merchant type vessels greater than 1,500 gross tons through the Maritime Administration.

Figure C: Inactive Vessels by Agency

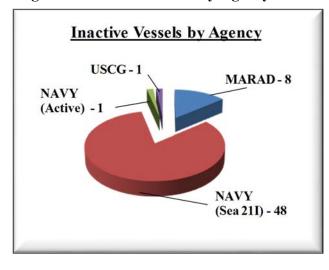


Figure C identifies each agency's portion of the 61 vessels designated as inactive. SEA211 lists 48 vessels as inactive of which , eight are earmarked for Foreign Military Sales and four are targeted for Deep Sink Exercises (SINKEX), leaving 36 vessels designated for recycling. MARAD has 8 vessels designated as inactive (non-retention) and available for disposal. There is one vessel each at Navy - Active and USCG designated as inactive however, none are available for disposal. MARAD's 8 vessels represent 14 percent of the inactive vessels while the Navy SEA 211's 51 vessels represent 83 percent of the inactive vessels.

Combined MARAD and SEA 211 have 46 vessels or 98 percent of the total vessels designated as inactive. MARAD has 8 non-retention vessels available for disposal through recycling while SEA 211 has designated 36 vessels for recycling. The total number of MARAD and Navy vessels targeted for and available for recycling is 44.

Figure D lists the 48 Government vessels currently available for disposal at MARAD and SEA 21I. The vessels are sorted by design and not by priority of disposal. The vessels are identified as combatant (C) or merchant type, (MT), and include; design description, active and inactive status, year built, vessel age and planned disposal disposition. For clarity, a color code is used to represent the vessel disposal disposition. Currently, only MARAD and SEA 21I have vessels available for disposal.

| United S | United States Maritime Administration - MARAD | | | | | | | | | | | | | |
|----------|---|------|------------------|----------|---------------|-----|-------------------------|-----------------------|--|--|--|--|--|--|
| No. | Name | Туре | Vessel Design | Status | Year Built | Age | Disposal Disposition | Avail for Disposal | | | | | | |
| 1 | Cape Florida | MT | Break Bulk | Inactive | 1971 | 48 | Scrap | Х | | | | | | |
| 2 | Cape Gibson | MT | Break Bulk | Inactive | 1968 | 51 | Scrap | Х | | | | | | |
| 3 | Cape Archway | MT | Break Bulk | Inactive | 1963 | 56 | Scrap | Х | | | | | | |
| 4 | Cape Alexander | MT | Break Bulk | Inactive | 1962 | 57 | Scrap | Х | | | | | | |
| 5 | Cape Alava | MT | Break Bulk | Inactive | 1962 | 57 | Scrap | Х | | | | | | |
| 6 | Equality State | MT | Crane Ship | Inactive | 1962 | 57 | Scrap | Х | | | | | | |
| 7 | Simon Lake | MT | Submarine Tender | Inactive | 1964 | 55 | Scrap | Х | | | | | | |
| 8 | Sumner | MT | Surveying Ship | Inactive | 1992 | 27 | Scrap | Х | | | | | | |

Figure D: Inactive Vessel Dispositions

| Navy Inac | tive Ships Office (SEA 21I) | | | | | | | |
|-----------|---|--------|--|----------------------|---------------|----------|-------------------------|-----------------------|
| No. | Name | Туре | Vessel Design | Status | Year Built | Age | Disposal Disposition | Avail for Disposal |
| 1 | Ex-Kitty Hawk (CV-63) | С | Aircraft Carrier | Inactive | 1960 | 59 | Scrap | Х |
| 2 | Ex-John F. Kennedy (CV-67) | С | Aircraft Carrier | Inactive | 1967 | 52 | Scrap | Х |
| 3 | Ex-Ponce (AFSB-15) | MT | Afloat Forward Staging Base | Inactive | 1970 | 49 | Scrap | Χ |
| 4 | Ex-Charleston (LKA-113) | MT | Amphibious Cargo Ship | Inactive | 1967 | 52 | Scrap | Х |
| 5 | Ex-Durham (LKA-114) | MT | Amphibious Cargo Ship | Inactive | 1968 | 51 | SINKEX | Х |
| 6 | Ex-El Paso (LKA-117) | MT | Amphibious Cargo Ship | Inactive | 1969 | 50 | Scrap | Х |
| 7 | Ex-Mobile (LKA-115) | MT | Amphibious Cargo Ship | Inactive | 1968 | 51 | Scrap | Х |
| 8 | Ex-Shreveport (LPD-12) | MT | Amphibious Transport Dock | Inactive | 1966 | 53 | Scrap | Х |
| 9 | Ex-Dubuque (LPD-8) | MT | Amphibious Transport Dock | Inactive | 1966 | 53 | Scrap | Х |
| 10 | Ex-Denver (LPD-9) | MT | Amphibious Transport Dock | Inactive | 1965 | 54 | Scrap | Х |
| 11 | Ex-Nashville (LPD-13) | MT | Amphibious Transport Dock | Inactive | 1967 | 52 | Scrap | Х |
| 12 | Ex-Juneau (LPD-10) | MT | Amphibious Transport Dock | Inactive | 1966 | 53 | Scrap | Х |
| 13 | Ex-Cleveland (LPD-7) | MT | Amphibious Transport Dock | Inactive | 1966 | 53 | Scrap | Х |
| 14 | Ex-Charles F. Adams (DDG-2) | С | Destroyer | Inactive | 1959 | 60 | Scrap | Х |
| 15 | Ex-Barry (DD-933) | С | Destroyer | Inactive | 1955 | 64 | Scrap | X |
| 16 | Ex-Ticonderoga (CG-47) | С | Guided Missile Destroyer | Inactive | 1981 | 38 | Scrap | X |
| 17 | Ex-Yorktown (CG-48) | C | Guided Missile Destroyer | Inactive | 1983 | 36 | Scrap | X |
| 18 | Ex-Vandegrift (FFG-48) | C | Guided Missile Frigate | Inactive | 1982 | 37 | Scrap | Х |
| 19 | Ex-Elrod (FFG-55) | С | Guided Missile Frigate | Inactive | 1984 | 35 | FMS | X |
| 20 | Ex-Simpson (FFG-56) | C | Guided Missile Frigate | Inactive | 1984 | 35 | FMS | X |
| 21 | Ex-Kauffman (FFG-59) | C | Guided Missile Frigate | Inactive | 1986 | 33 | FMS | X |
| 22 | Ex-Rodney M. Davis (FFG-60) | C | Guided Missile Frigate | Inactive | 1986 | 33 | Scrap | X |
| 23 | Ex-Ingraham (FFG-61) | C | Guided Missile Frigate | Inactive | 1988 | 31 | SINKEX | X |
| 24 | Ex-De Wert (FFG-45) | C | Guided Missile Frigate | Inactive | 1982 | 37 | FMS | X |
| 25 26 | Ex-Robert G. Bradley (FFG-49) | C | Guided Missile Frigate | Inactive | 1983 | 36 | FMS | X |
| 26 | Ex-Halyburton (FFG-40) | C | Guided Missile Frigate | Inactive | 1981 | 38 | FMS | X |
| 27 | Ex-Ford (FFG-54) | C C | Guided Missile Frigate | Inactive | 1984 | 35 | SINKEX | X X |
| 28 | Ex-Klakring (FFG-42) | C | Guided Missile Frigate | Inactive Inactive | 1982 1983 | 37 36 | FMS FMS | X |
| 30 | Ex-Carr (FFG-52) Ex-Curts (FFG-38) | C | Guided Missile Frigate Guided Missile Frigate | | 1985 | 37 | SINKEX | X |
| 30 | Ex-Curts (FFG-58) Ex-Samuel B Roberts (FFG-58) | C | Guided Missile Frigate | Inactive Inactive | 1982 | 35 | | X |
| 31 | Ex-Nicholas (FFG-47) | C | Guided Missile Frigate | Inactive | 1983 | 36 | Scrap Scrap | X |
| 33 | Ex-Underwood (FFG-36) | C | Guided Missile Frigate | Inactive | 1982 | 37 | Scrap | X |
| 33 | Ex-John L Hall (FFG-32) | C | Guided Missile Frigate | Inactive | 1982 | 38 | Scrap | X |
| 35 | Ex-Boone (FFG-28) | C | Guided Missile Frigate | Inactive | 1981 | 39 | Scrap | X |
| 36 | Ex-Stephen W Groves (FFG-29) | C | Guided Missile Frigate | Inactive | 1980 | 38 | Scrap | X |
| 37 | Ex-Hawes (FFG-53) | C | Guided Missile Frigate | Inactive | 1984 | 35 | Scrap | X |
| 38 | Ex-Mohawk (T-ATF-170) | MT | Fleet Ocean Tug | Inactive | 1980 | 39 | Scrap | X |
| 39 | Ex-Hayes (T-AGOR-16) | MT | Oceanographic Research | Inactive | 1970 | 49 | Scrap | X |
| 40 | Ex-Boulder (LST-1190) | MT | Tank Landing Ship | Inactive | 1970 | 49 | Scrap | X |
| | (2011)0) | | B ~P | | -270 | ., | P | |
| | Legend | | Disposition Summ | ary | | | | |
| МТ | Merchant Type Vessel | | Retain | 0 | | | | |
| С | Combatant Vessel | | SINKEX | 4 | | | | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | 8 | | | | |
| Inactive | Non-operating/Non-retention status | | Scrap | 36 | | | | |
| Х | Foreign Military Sales | | Donation | 0 | | | | |
| Х | SINKEX | | TBD | 0 | | | | |
| Х | Scrap | | Total Inactive | 48 | | | | |
| X X | Donation | | Total Active | 0 | | | | |
| | Remove From Service | | Total Number of Ships | 48 | 1 | | | |

The Disposition Summary totals are inclusive of both MARAD and Sea 211 vessels.

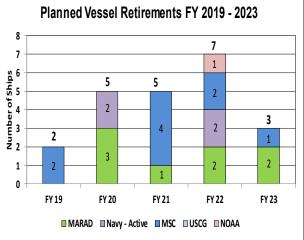
Planned Vessel Retirement Schedules

Agency vessel retirement schedules reflect the year the vessel is planned to be taken out of service, not the specific year the vessel will be disposed. In each case the exact date the vessel will be available to MARAD or the Navy for disposal is predicated on completion of specific vessel disposal preparations. Each agency has definitive vessel disposal preparation procedures such as demilitarization, classified equipment removal, defueling, hazardous material remediation and historical assessments that must be completed prior to commencement of actual disposal. In addition, as vessels are prepared for disposal, compliance with environmental regulations such the National Environmental Policy Act (NEPA), the Federal Water Pollution Control Act known as the Clean Water Act (CWA), the Clean Air Act and the National Invasive Species Act (NISA) must be incorporated into planning and budgeting decisions.

Congressional authorizations/appropriations, vessel utilization, service life extensions, vessel new build replacements and funding all affect the retirement date decision. The exact retirement dates and disposal actions are subject to continual revision. In some instances, a vessel may be taken out of service and placed in a retention status for potential re-activation at a future date or held for an indeterminate period of time for logistical support for similar class operating vessels. Congressional approval, mission utility, vessel condition and service life all play a role in a vessel retention disposal analysis. Further, relocation of a vessel to a MARAD or Navy fleet anchorage, sale of the vessel from its home port, procurement of recycling services and compliance with environmental statutes such as mitigation of invasive species all have cost implications that must be recognized, addressed and budgeted. The actual vessel disposal decision cannot be made until completion of cost benefit or service life extension analysis and the budgeting process addresses all potential vessel disposal costs. Vessel specific disposal dates are therefore unknown until completion of all vessel disposal analysis. Figure E provides a summary of the planned vessel service retirement schedules for FY's 2019-2023 for each agency. Figure F provides a listing by each agency of the vessels planned for service retirement in FY's 2019-2022.

| • | Fisca | l Year F | Removed | from Se | rvice | 5-Year | |
|---------------|-------|----------|---------|---------|---------|--------|-----------------|
| Agency | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Total | |
| USACE | 0 | 0 | 0 | 0 | 0 | 0 | 8 - |
| ARMY | 0 | 0 | 0 | 0 | 0 | 0 | 7 - |
| MARAD | 0 | 3 | 1 | 2 | 2 | 8 | v 6 – |
| NAVY | | | | | | | Number of Ships |
| Navy - Active | 0 | 2 | 0 | 2 | 0 | 4 | 5 |
| SEA 21I | 0 | 0 | 0 | 0 | 0 | 0 | per |
| MSC | 2 | 0 | 4 | 2 | 1 | 9 | Ē 3 — |
| ONR | 0 | 0 | 0 | 0 | 0 | 0 | Z 2 — |
| NOAA | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| NSF | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| USCG | 0 | 0 | 0 | 0 | 0 | 0 | |
| FY Removal | 2 | 5 | 5 | 7 | 3 | | |
| | Tot | al 5-Yea | r Remov | ed from | Service | 22 | |

Figure E: Vessel Service Retirement Summary by Agency FY 2019- 2023



To avoid double counting the planned vessels scheduled for retirement from service by Navy - Active and MSC are not included in the fiscal year totals for the Sea 211 since they have not yet been transferred for final disposition.

Figure F: Planned Vessel Retirements by Agency FY's 2019 – 2023

| United States Maritime Administration - MARAD | | | | | | | | | | | | | | |
|---|-------------------|------|------------------|--------|---------------|-----|-------------------------|-----------------------|----------------|---|---|---|---|-----------------|
| No. | Name | Туре | Vessel Design | Status | Year Built | Age | Disposal Disposition | Avail for Disposal | Fisca FY 19 | 7iscal Year Removed from Service (Retirement) 9 FY 20 FY 21 FY 22 FY 23 | | | | Retirement Year |
| 1 | Cape Mohican | MT | Barge Ship | Active | 1973 | 46 | Scrap | | | | | | Х | 2023 |
| 2 | Cape Girardeau | MT | Break Bulk | Active | 1968 | 51 | Scrap | | | Х | | | | 2020 |
| 3 | Cape Jacob | MT | Break Bulk | Active | 1961 | 58 | Scrap | | | Х | | | | 2020 |
| 4 | Cape Nome | MT | Break Bulk | Active | 1969 | 50 | Scrap | | | | | Х | | 2022 |
| 5 | Diamond State | MT | Crane Ship | Active | 1960 | 59 | Scrap | | | Х | | | | 2020 |
| 6 | Admiral Callaghan | MT | Roll-On/Roll-Off | Active | 1968 | 51 | Scrap | | | | | | Х | 2023 |
| 7 | Petersburg | MT | Tanker | Active | 1963 | 56 | Scrap | | | | Х | | | 2021 |
| 8 | Empire State | MT | Training Ship | Active | 1962 | 57 | Scrap | | | | | Х | | 2022 |

United States Department of the Navy - MSC

| Military Sealift Command Active Vessels | | | | | | | | | | | | | | |
|---|---|------|----------------------------|--------|-------|-----|-------------|-----------|-------|-------------|--------------|---------------|-------|-----------------|
| No. | Name | Туре | Vessel Design | Status | Year | Age | Disposal | Avail for | Fisca | l Year Remo | ved from Sei | rvice (Retire | ment) | Retirement Year |
| 110. | Ivanic | Type | vessei Design | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Kethenkite Fear |
| 1 | USNS 1st LT Harry L. Martin (T-AK 3015) | MT (| Container Roll-On/Roll-Off | Active | 1983 | 36 | Scrap | | Х | | | | | 2019 |
| 2 | USNS Sioux (T-ATF 171) | MT | Fleet Ocean Tug | Active | 1980 | 39 | Scrap | | | | Х | | | 2021 |
| 3 | USNS Apache (T-ATF 172) | MT | Fleet Ocean Tug | Active | 1981 | 38 | Scrap | | | | Х | | | 2021 |
| 4 | USNS Catawba (T-ATF 168) | MT | Fleet Ocean Tug | Active | 1979 | 40 | Retain | | Х | | | | | 2019 |
| 5 | USNS John Lenthall (T-AO 189) | MT | Fleet Oiler | Active | 1986 | 33 | Retain | | | | X | | | 2021 |
| 6 | USNS Walter S. Diehl (T-AO 193) | MT | Fleet Oiler | Active | 1987 | 32 | Retain | | | | Х | | | 2021 |
| 7 | USNS Joshua Humphreys (T-AO 188) | MT | Fleet Oiler | Active | 1986 | 33 | Scrap | | | | | Х | | 2022 |
| 8 | USNS Pecos (T-AO 197) | MT | Fleet Oiler | Active | 1989 | 30 | Scrap | | | | | | Х | 2023 |
| 9 | USNS Leroy Grumman (T-AO 195) | MT | Fleet Oiler | Active | 1988 | 31 | Retain | | | | | Х | | 2022 |

| United S | tates Navy - Active Vessels | _ | | | | | | | | | | | | |
|----------|-----------------------------|------|------------------------|--------|-------|-----|-------------|-----------|--------|-----------|-------------|---------------|-------|-------------------|
| No. | Name | Туре | Vessel Design | Status | Year | Age | Disposal | Avail for | Fiscal | Year Remo | ved from Se | rvice (Retire | ment) | Retirement Year |
| 110. | Ivallie | Type | vessei Desigii | status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Ketii einene reat |
| 1 | USS Bunker Hill (CG 52) | С | Guided Missile Cruiser | Active | 1985 | 34 | Retain | | | Х | | | | 2020 |
| 2 | USS Mobile Bay (CG 53) | С | Guided Missile Cruiser | Active | 1985 | 34 | Retain | | | Х | | | | 2020 |
| 3 | USS Antietam (CG 54) | С | Guided Missile Cruiser | Active | 1986 | 33 | Retain | | | | | Х | | 2022 |
| 4 | USS Leyte Gulf (CG 55) | С | Guided Missile Cruiser | Active | 1986 | 33 | Retain | | | | | Х | | 2022 |

| National | l Oceanic and Atmospheric Admini | istrat | ion - NOAA | | | | | | | | | | | | | |
|----------|------------------------------------|--------|------------------------|--------|-------|-----|---------------|--|--|---|-------------|---------------|----------|-----------------|--|--|
| No. | Name | Tuno | Vessel Design | Status | Year | Age | Disposal | Avail for | Fisca | l Year Remo | ved from Se | rvice (Retire | ment) | Retirement Year | | |
| 110. | Ivanie | Туре | vessei Desigii | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Kettrement rear | | |
| 1 | Oscar Elton Sette | MT | Research Vessel | Active | 1987 | 32 | Retain | | | | | Х | | 2022 | | |
| | | | | | | | | | | | | | | | | |
| | Legend | | Disposition Summ | ary | | | | FY 2019 | | Planned | Remova | l from Se | rvice Su | mmary | | |
| MT | Merchant Type Vessel | | Retain | 9 | | | | Avail for | Fisc | al Year l | Removed | from Ser | vice | 5 -Year Total | | |
| С | Combatant Vessel | | SINKEX | 0 | | | | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | | | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | 0 | | | | 0 | 2 | 5 | 5 | 7 | 3 | 22 | | |
| Inactive | Non-operating/Non-retention status | | Scrap | 13 | | | | | | | | | | | | |
| Х | Foreign Military Sales | | Donation | 0 | | | | | | | | | | | | |
| Х | SINKEX | | TBD | 0 | | | | | | | | | | | | |
| Х | Scrap | | Total In-Active | 0 | | | | nts the total number of vessels greater than 1,500 gross tons expected to be retired next five fiscal years. Retirement dates are subject to change relative to mission u | | | | | | | | |
| Х | Donation | | Total Active | 22 | | | | | availability of replaement vessels where applicable. | | | | | | | |
| Х | Remove From Service | | Total Ships* | 22 | | | appropriation | 5 ana avanao | may of rep | litty of replaement vessels where applicable. | | | | | | |

European Ship Recycling Regulation

The Ship Recycling Regulation adopted in 2013 by the European Parliament and the Council of the European Union (EU) aims to reduce the negative impacts linked to the recycling of ships flying the flag of Member States of the European Union. The Regulation lays down requirements that ships and recycling facilities have to fulfil in order to make sure that ship recycling takes place in an environmentally sound and safe manner.

The Regulation first prohibits or restricts the installation and use of hazardous materials such as asbestos or ozone-depleting substances on board ships. New European ships and EU-flagged ships sent for recycling must also have on board an inventory of hazardous materials verified by the relevant administration or authority and specifying the location and approximate quantities of those materials. This requirement commences on December 31, 2020 and applies to all existing ships sailing under the flag of Member States of the European Union as well as to ships flying the flag of a third country and calling at an EU port or anchorage.

The goal is to facilitate safe recycling of vessels and reduce the presence of toxic materials on board ships. In November 2016, the European Maritime Safety Agency, published a Best Practice Guidance on the Inventory of Hazardous Materials for practitioners on the field, ship owners and national authorities. EU Member States' port authorities will control ships to verify whether they have on board a ready-for-recycling certificate or a valid inventory of hazardous materials.

The Ship Recycling Regulation proposes requirements for ship recycling facilities wishing to recycle EU flag vessels. The regulations will apply to both European ship recycling facilities and facilities located in other countries that become EU qualified. The goal for the EU is to establish a list of qualified ship recycling facilities, internal and external to the EU that meets the requirements of the regulation. In addition, the EU wishes to implement through the Ship Recycling Regulation most of the aspects of the Hong Kong Convention for the Safe and Environmentally Sound Recycling of Ships. The EU proposes, as an inducement to ship owners to recycle their vessels only at facilities on the EU list, a ship recycling license or fee. The license or fee would be a monthly or annual assessment levied on all ships calling on EU Ports, regardless of flag. Funds collected under this scheme would be used by the owner of the vessel to pay the recycling/scrapping differential between clean (qualified) recycling facilities and unclean (Indian, Pakistan) recycling facilities. Ship recycling facilities, both internal and external to the EU seeking to become qualified under the EU Ship Recycling Regulation submitted facility applications to the EU by July 1st, 2016. The EU through third party organizations conducted the application evaluations and site visit inspections.

The EU adopted the first version of 18 approved European ship recycling facilities in December 2016. In the final update posted on December 6, 2018, the EU had approved 23 ship recycling facilities in 12 EU member countries and three ship recycling facilities located in non EU member countries; 2 in Turkey and 1 in the United States. The posted list of European ship recycling facilities can be found at; <u>http://ec.europa.eu/environment/waste/ships/list.htm</u>.

Beginning on December 31, 2018, large commercial seagoing vessels flying the flag of an EU Member State may be recycled only in safe and sound ship recycling facilities included in the European List of ship recycling facilities.

Environmental Stewardship

MARAD published, in August of 2009, its Final Programmatic Environmental Assessment for the Removal and Disposal of Non-Retention Vessels from the NDRF. Further, MARAD implemented strong measures to protect the environment in disposing of obsolete vessels. The Agency initiated a program in June 2009 to dry-dock SBRF vessels to achieve NISA compliance prior to towing the ships to recycling facilities in other bio-geographical areas, and by September 2009 satisfied all requirements under the NEPA, thereby eliminating a legal barrier to removing SBRF vessels.

In September 2009, MARAD contracted with, at that time, the only available San Francisco area dry-dock facility for dry-docking services to remove marine growth from the hull and exfoliated paint from topside surfaces. The cleaning of marine growth and loose exterior paint on dry-dock is accomplished prior to the towing of SBRF vessels to recycling facilities in different bio-geographical areas to mitigate the transfer of potential invasive marine species and to mitigate the exfoliating of paint during transit. The dry-docking of MARAD's SBRF vessels satisfactorily resolved many of the legal challenges associated with aquatic invasive species and non-permitted discharges related to NISA and the CWA.

MARAD also worked to ensure compliance with the requirements of the CWA within Texas and Virginia for facility operational activities at the JRRF and BRF. Agreement from regulatory agencies in Virginia and Texas was previously acquired pertaining to the stringent MARAD led initiative in-water process for removal and capture of marine growth from vessel hulls prior to departure to a recycling facility in a different bio-geographical area.

Ship Disposal Alternatives

While domestic dismantling/recycling, sale of ships for re-use, artificial reefing, deep-sinking and donations are all disposal alternatives available to and utilized in the past by MARAD, dismantling/recycling is the most expedient and cost-effective method. Table 2 below shows the number of vessels awarded for disposal since FY 2001 by each method. The 214 ships awarded in recycling contracts represent 96% of the 224 total vessels awarded by MARAD since 2001. The other 10 vessels were disposed of through the other four disposal methods for which there is significantly less demand and greater cost for the Federal government.

The Toxic Substances Control Act (TSCA) of 1976, 15 U.S.C. §2601, administered by the EPA, bans the export of and prohibits the distribution in commerce of PCBs. The manufacture of PCBs in the US was banned in 1979. EPA utilizes 1985 as the threshold year after which it is unlikely that any PCB products or components remained in supply streams for use in vessel construction or repairs.

Under TSCA, the sale for re-use, donation or artificial reefing of MARAD's remaining nonretention vessels built prior to 1985 requires the vessels be remediated, to the 2006 National Guidance: Best Management Practices for Preparing Vessels Intended to Create Artificial Reefs, of all regulated levels of PCBs to the satisfaction of the EPA prior to transfer to a recipient. The process of remediating PCBs from non-retention ships built prior to 1985 is an onerous, costly process requiring extensive sampling and testing before the vessel can be cleaned. An extensive vessel remediation, cleaning and third party verification plan approved in advance by the EPA is required as part of any vessel re-use, donation and artificial reefing application. This does not include costs associated with site permitting, cleaning the vessels underwater hull for compliance with the United States Coast Guard Ballast Water Management Act and the Aquatic Invasive Species Act.

MARAD's available non-retention vessels were built prior to 1985 and, as such are likely to contain PCB's above regulated limits in their construction. In addition, the vessels have been extensively stripped of equipment and components and are in generally poor material condition. The restrictions of TSCA, permitting and the high costs associated with vessel preparation have proven burdensome in obtaining and preparing vessels for ship disposal alternatives. Therefore, MARAD does not offer non-retention vessels built prior to 1985 for re-use, donation or artificial reefing.

| | | | V | essel | Awa | rds b | y Dis | sposa | l Op | tion l | oy Fis | scal Y | Year | | | | | | |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------|
| Type of Disposal | FY 01 | FY 02 | FY 03 | FY 04 | FY 05 | FY 06 | FY 07 | FY 08 | FY 09 | FY 10 | FY 11 | FY 12 | FY 13 | FY 14 | FY 15 | FY 16 | FY 17 | FY 18 | Totals |
| Recycling (Fee for Service) | 5 | 2 | 15 | 11 | 16 | 13 | 14 | 4 | 8 | 11 | 10 | 0 | 0 | 3 | 2 | 1 | 4 | 2 | 121 |
| Recycling (Sales) | 0 | 0 | 0 | 2 | 1 | 5 | 4 | 16 | 5 | 0 | 8 | 16 | 19 | 8 | 5 | 1 | 0 | 3 | 93 |
| Artificial Reefing | 1 | | | | | | 2 | | | 1 | | | | | | | | | 4 |
| SINKEX | | | | | 2 | | | | | | | | | | | | | | 2 |
| Donation | | | | | | | | 1 | | | | | | | | | | | 1 |
| Sale for Reuse | | | | | | | 3 | | | | | | | | | | | | 3 |
| Totals | 6 | 2 | 15 | 13 | 19 | 18 | 23 | 21 | 13 | 12 | 18 | 16 | 19 | 11 | 7 | 2 | 4 | 5 | 224 |

 Table 2: Vessel Awards by Fiscal Year

Through September 30, 2018. The two fee for service awards in FY 2018 are the two USCG Buoy Tenders removed from the SBRF for recycling in Texas.

The Agency has three qualified ship recycling facilities in Brownsville, TX and one each in New Orleans, and Amelia, LA. MARAD qualifies ship recycling facilities to ensure the offeror has control of the recycling facility, sufficient knowledge, applicable infrastructure, resources and capabilities to successfully dispose of obsolete MARAD, Navy, or other Federal Agency vessels while protecting the environment and worker health and safety. The Navy's ship disposal program, which includes Navy service contracts for combatant vessels and combatant vessel sales for recycling coordinated by DLA, utilizes some of the same facilities. The three recycling contractors currently used by the Navy for dismantling/recycling of its conventional aircraft carriers are also qualified contractors under MARAD's Program and are considered the three largest domestic ship recycling facilities with the greatest throughput capacity. The award by the Navy of two-year ship recycling contracts in FY's 2014–2017 for five aircraft carriers and the contract awards for smaller combatant vessels by DLA in FY 2015 initially limited competition for MARAD contract awards. The collapse of the price of scrap steel, lack of ship sales by

MARAD and the Navy in FY's 2015-2017 and minimal appropriations to fund ship recycling service contracts mitigated this industrial capacity shortage. To accommodate the resulting shortage of Federal vessels for recycling the domestic ship recycling industry diversified by recycling commercial vessels and oil rigs. MARAD has benefited from the resurgence in the price of scrap steel from FY's 2017-2018 with the sale of three vessels and the anticipated sale of another vessel in early FY 2019. However, the inability of Navy to offer ships for sale or service contracts due to the NMFS consultation and ongoing environmental litigation and MARAD's historic low number of vessels available for disposal will limit the number of ships awarded for recycling in the foreseeable future.

Best Value Ship Disposal Source Selection Process

The Program utilizes simplified acquisition procedures authorized in Federal Acquisition Regulation (FAR) Part 13, in a competitive procurement process, to facilitate the disposal of MARAD's obsolete vessels through both the sale of vessels for recycling and for the procurement of recycling services. MARAD has issued a standing Request for Proposal (RFP) which allows interested vendors to submit technical proposals on a continuous basis. Technical proposals must address, in addition to business and operational procedures, environmental and worker safety and health considerations.

Offerors whose proposals are determined to be technically acceptable form a pool of qualified facilities eligible to compete for sales and service contracts for specific ships identified by MARAD. Offers are evaluated on a best-value basis whereby MARAD considers price and the non-price factors of performance schedule/facility capacity and past performance. As permitted under the simplified acquisition procedures, the relative order of importance of the evaluation factors is not stated in the solicitation. The importance of the evaluation factors for each of the vessel awards is not specified because the trade-offs necessary for selecting the multiple awards are often made based on the specific offers received. This approach also results in a reasonable, timelier and less complicated selection process. The Government Accountability Office assessed MARAD's ship disposal program source selection process and concluded in its February 2014 report to Congressional Committees that MARAD's current ship disposal process for making source selection decisions for vessel sales and price revisions for ship recycling awards is consistent with the FAR's procedures and processes for simplified acquisitions and determining best value.

As an example, a recycling facility may offer the highest sales prices for three ships; however, based on their existing/scheduled workload and available resources, the facility is only capable of accepting and actively working two vessels. A second facility offers a lower sales price for the third ship, but has the capacity to start immediately and can complete the work in a reasonable period of time. In this example, for the potential award of a third vessel to the second facility, capacity/schedule outweighs the higher sale price. This simplified example of the iterative process used to select the best value offer(s) illustrates how the relative importance of the factors may change during the selection process and, as such, cannot be stated with certainty before or at the time of the request for offers/prices. Different trade-offs between price and non-price factors may be warranted depending upon the number of awards being considered for an individual offeror.

MARAD publicly posts the awarded contracts on its web site, disclosing the price and the performance schedule of the successful offeror. MARAD also provides each offeror the opportunity for a debriefing after the contract awards are publicly posted. Most often, offerors do not request debriefings because the reason for the award selection is evident from the awarded and publicly posted contract price and/or performance schedule.

Since November 2008, MARAD's recycling solicitations have awarded contracts on a best-value basis for both sales contracts and service contracts. MARAD awarded a total of 104 vessels for recycling from November 2008 through FY 2018 from NDRF and Navy fleet sites. Of the 104 awards, 65 were sales and 39 were service contracts and 83%, (86 of 104), were made to the highest sales offer or the lowest price quotation for a service contract. Therefore, while the relative importance of the evaluation factors is not stated in the solicitation, price is clearly a significant factor though not the sole factor. Achievement of 83% of the best value awards that result in the maximum return or least cost, is assessed to be in the best interest to the U.S. Government and adheres closely to the statute.

Ship Disposal Funding

There are several factors that affect whether the recycling of non-retention NDRF ships are accomplished through vessel sales with revenue to the Government or through service contracts with MARAD paying for recycling services using appropriated funds. The primary factors include the market price of scrap metals, the vessel's size/condition, the type and quantity of hazardous materials, the quantity and type of recyclable materials, the amount of competition for each vessel, the duration/cost of the tow from the fleet to the recycling facility and the cost to remove marine growth prior to towing to different bio-geographical areas. The highest costs are typically associated with SBRF vessels due to the requirement to dry-dock each vessel to remove marine growth prior to removal and commencement of the 5,000-mile tow to a Gulf Coast recycling facility. Included in the offeror's proposal are tug mobilization and towing cost, fuel and Panama Canal transit fees. Table 3 below shows the enacted appropriations to the SDP for FY's 2011-2018 and the apportionments to the NSS for FY's 2015-2018.

| | Annual Ship Disposal Approprations by Fiscal Year | | | | | | | | | | | | | | |
|---------------|---|---------|---------|---------|-----------|-----------|-----------|-----------|--|--|--|--|--|--|--|
| Fiscal Year | FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 | | | | | | | |
| Appropriation | \$12 M | \$2.5M | \$2.4 M | \$2.0M | \$2.0M /1 | \$2.0M /2 | \$7.0M /3 | \$6.0M /4 | | | | | | | |

Table 3: Ship Disposal Annual Appropriations

/1 Represents the Ship Disposal Program apportionment of the \$4.0M Ship Disposal appropriation in the Consolidated and Further Continuing Appropriations Act, 2015. The \$2.0M balance was apportioned to the NS Savannah for ongoing protective storage activities required under the Nuclear Regulatory Commission license. /2 Represents the Ship Disposal Program apportionment of the \$5.0M Ship Disposal appropriation in the Consolidated Appropriations Act, 2016. The \$2.0M balance was apportioned to the NS Savannah for ongoing protective storage activities required under the Nuclear Regulatory Commission license. /3 Represents the Ship Disposal Program apportionment of the \$10.0M Ship Disposal appropriation in the Consolidated Appropriations Act of 2017. \$2.0M is for Program salaries and overhead leaving \$5M for vessel disposals. The \$3.0M balance was apportioned to the NS Savannah for ongoing protective storage activities required under the Nuclear Regulatory Commission license. Separately NS Savannah was appropriated \$24M to begin Phase I decommissioning of the de-fueled nuclear components on the vessel. /4 Represents the Ship Disposal Program apportionment of the \$116M Ship Disposal appropriation in the Consolidated Appropriations Act of 2018. \$2M of the \$6M is for Program salaries and overhead expense. Of the \$110M balance \$3M was apportioned to the NS Savannah for ongoing protective storage activities required under the Nuclear Regulatory Commission license. The remaining \$107M was apportioned for the completion of Phase II and III of the NS Savannah decommissioning project. The FY 2017 appropriation of \$24M coupled with the FY 2018 appropriation of \$107M provides a total of \$131M by which to commence and complete without interruption the planned seven year three Phase decommissioning of the vessel's nuclear power plant.

Appropriations for ship disposal had been at the \$12M level annually from FY 2007 through FY 2011. Favorable industry and scrap steel market conditions from FY 2006 through FY 2008 boosted ship recycling sales, accumulation of annual carryover funds and the surpassing of annual ship award and removal goals. Additionally, the suspension of costly SBRF vessel removals from FY 2007 through FY 2009 because of on-going litigation in California contributed to annual funding carryovers. The economic downturn in 2008 resulted in the decline in vessel sales culminating in no vessels being sold in FY 2010, which aided in the spend down of some funding carryover, which totaled approximately \$26M in FY 2010. However, the economy and scrap steel markets began to recover in FY 2011 resulting in an increase in vessel sales for the Program and a diminished need for appropriations at the \$12M level.

In FY 2012, with a carryover of \$20M, appropriations were decreased to \$2.5M, which coincided with strong scrap steel market conditions and strong competitive bidding for contracts by domestic recyclers resulting in an increasing number of vessel sales from FY 2011, through FY 2013 (see Table 4 below). While the scrap steel market remained strong in FY 2014, available ship recycling capacity decreased due to the award of three Navy aircraft carriers recycling contracts, which resulted in weaker competition for MARAD obsolete vessels. With a carryover level of \$6.6M in FY 2014, appropriations were decreased to \$2.0M. Apportionment of the Appropriations to SDP for FY 2015 was \$2.0M with a carryover of \$3.6M.

In FY 2015, MARAD utilized the majority of its carryover funding to procure ship recycling and dry-dock services to facilitate the removal of two SBRF vessels. Scrap steel prices declined throughout all of FY 2015 to levels not seen in 15 years. The collapse in scrap steel prices caused one recycler to rescind an offer to purchase a non-retention vessel, led to the repudiation of two awarded MARAD ship recycling contracts by another recycler, and was a contributing factor in the cessation of operations at another MARAD/Navy qualified recycling facility. Funds

retained due to the termination of two SBRF ship recycling service contracts, one SBRF drydock contract and the re-procurement of one of the two SBRF ship recycling service contracts resulted in a carryover level of \$902K into FY 2016.

Savings from reduced expenditures in FY 2016 plus carryover funds from FY 2015 proved sufficient to award service contracts for the recycling and dry-docking, totaling \$1.65M, for one SBRF vessel in May 2016. At the beginning of FY 2017 two of the original 57 SBRF non-retention vessels included in the 2010 Consent Decree remained in the fleet. Sufficient appropriations were received in FY 2017 to remove both the SBRF vessels in July 2017, ahead of the consent decree deadline. Prior year appropriation carryovers accrued during the FY's 2011–2015 period of increased ship sales have been expended in conjunction with reduced appropriations from FY's 2012–2016. Increasing scrap steel prices in 2017 provided cost savings from lower than expected award amounts for the remaining two SBRF vessels. The savings resulted in the award of two vessels from the JRRF in September 2017. FY 2017 SDP carryover was approximately \$2.5M of which \$1.7M was expended in FY 2018 to remove freeboard ex-foliating paint from the JRRF vessel SIMON LAKE prior to disposal of the vessel.

FY 2018 continued the resurgence of scrap steel prices leading to the sale for recycling of three non-retention vessels generating approximately \$3.0M in sales revenue. SDP anticipates FY 2018 funds carryover of approximately \$5.3M.

Vessel Sales Revenues

Accrued revenue from the sale of non-retention NDRF vessels over the past nine years (FY 2010-2018) has been approximately \$70 million for dismantling/recycling of 60 ships as shown in Table 4 below.

The volatility of the price of scrap steel and its impact on vessel sales is evident in data depicting the sale of vessels for recycling for FY's 2010-2018. The table indicates a trough of zero vessel sales in FY 2010, increasing to a peak of 19 vessels sold in FY 2013 with a slow slide to another trough of zero vessels sold in FY 2017. FY 2018 displays the resurgence in vessel sales with three sold in the fiscal year. In FY 2010, MARAD did not sell a single vessel for recycling but awarded service contracts for the recycling of 12 vessels. The price of scrap steel began rebounding in FY 2010, and from FY's 2011-2014 MARAD sold 51 ships and generated approximately \$61 million in revenue. Vessel sales again tapered off beginning in FY 2013 and by FY 2017 MARAD again did not sell any vessels for recycling. As vessel sales declined during FY 2013-2017 procurement of recycling services increased and in FY 2017 MARAD awarded 4 ship disposal service contracts. The decline in vessel sales for recycling in FY's 2015–2017 is directly attributable to the slowdown in domestic and international economic activity, reduced global demand for commodities, especially metals, and the subsequent collapse in the scrap metal markets. Conversely, the sale of three vessels in FY 2018 is attributable to the resurgence in domestic and international scraps steel prices, increased domestic economic activity and increased global demand for commodities.

The price of scrap steel has retreated from its high of \$379 per metric ton June of 2018 and by September 2018 had fallen back to \$302 per metric ton. MARAD remains optimistic a continuation of a positive domestic economic outlook will allow MARAD to continue vessel sales for recycling in FY 2019.

Vessel sales in FY 2018 credited approximately \$3.0M to the VORF. Accrued revenue from the sale of non-retention NDRF vessels over the past nine fiscal years (FY's 2010-2018) has been approximately \$70 million for the dismantling/recycling of 60 ships. Revenues from the sale of obsolete NDRF vessels are credited to the VORF account and do not supplement OSDP appropriations.

| | abit 4. Vessel Sales Revenue | | | | | | | | | | | | |
|-------------------------------------|------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|--|--|--|
| Vessel Sales Revenue by Fiscal Year | | | | | | | | | | | | | |
| Fiscal Year | FY 2010 | FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 | TOTAL | | | |
| Annual Sales Revenue (\$): | \$0 | \$7.6M | \$18.9M | \$24.6M | \$9.8M | \$6.1M | \$52K | \$0 | \$3.0M | \$70M | | | |
| Vessel Sales Contracts: | 0 | 8 | 16 | 19 | 8 | 5 | 1 | 0 | 3 | 60 | | | |
| Vessel Service Contracts: | 12 | 10 | 0 | 0 | 3 | 2 | 1 | 4 | 0 | 32 | | | |
| Total Recycling | 12 | 18 | 16 | 19 | 11 | 7 | 2 | 4 | 3 | 92 | | | |

Table 4: Vessel Sales Revenue

For this chart vessel sale revenues are calculated using the vessel contract award date as the date of receipt of sale revenues in each fiscal year.

In FY 2018, MARAD issued two separate ship recycling sale announcements containing a total of three obsolete NDRF vessels. The rebound in scrap steel prices in FY's 2017-2018 provided a positive market for the sale of the three MARAD vessels. In addition, MARAD provided ship recycling services to the USCG via an economy act funds transfer for the dry-docking and recycling of two USCG owned buoy tenders located in the SBRF. The two vessels were small in size and weight such that there was insufficient recyclable metal, even at improved scrap steel prices, to cover the cost of towing from the SBRF, Panama Canal transit fees and remediation and recycling of hazardous materials on board the vessels. The rebound in scrap steel prices carried over into early FY 2019 and MARAD issued a sales announcement for an additional vessel in early October of 2018.

National Maritime Heritage Act

The FY 2017 NDAA amended Section 308704 of the NMHA, effective December 23, 2016, as follows;

(A) (VORF A) 50% shall be available to the Administrator of the Maritime Administration for such acquisition, maintenance, repair, reconditioning, or improvement of vessels in the National Defense Reserve Fleet.

(B) (VORF B) 25% percent shall be available to the Administrator of the Maritime Administration for the payment or reimbursement of expenses incurred by or on behalf of State Maritime Academies or the United States Merchant Marine Academy for facility and training ship maintenance, repair, and modernization, and for the purchase of simulators and fuel.

(*C*) (*VORF C*) 25%, the remainder, shall be available to the Secretary to carry out the Program. (*i*) (*VORF C1*) 25% provided to the Secretary to carry out the NPS NMHGP. (ii) (VORF C2) <u>Set Aside</u> - Not less than 25% of the amounts available in (C)(i) each fiscal year for the NMHGP shall be used for preservation and presentation to the public of maritime heritage property of the Maritime Administration.¹⁰
(iii) Waiver. The Maritime Administrator may waive the application of clause (i) for any fiscal year.

The set aside ensures MARAD will receive at a minimum 25 percent of the 25 percent (approximately 6.25 percent) of the funds allocated to the VORF C2 sub-account for the preservation and presentation to the public of MARAD's maritime heritage property.

FY 2018 End of Year VORF Account Balances

MARAD created VORF sub-accounts patterned on the NMHA funding allocation requirements of Section 308704 to actively manage the ship recycling sale revenues credited into the VORF account. The FY 2017 end of FY balance of funds for the specified VORF sub-accounts is listed in Table 5.

| Vessel Operating Revolving Fund | | | | | | | | | |
|---------------------------------|-------------|--|--|--|--|--|--|--|--|
| Sub-Account Balances | | | | | | | | | |
| VORF A (NDRF) | \$2,476,705 | | | | | | | | |
| VORF B (SMA's & USMMA) | \$2,404,138 | | | | | | | | |
| VORF C1 (NPS) | \$456,981 | | | | | | | | |
| VORF C2 (MARAD) | \$2,923,601 | | | | | | | | |
| Suspense Account | \$0 | | | | | | | | |
| Total | \$8,261,425 | | | | | | | | |

Table 5: FY 2017 Fiscal Year End VORF Sub-Account Balances

Amounts reflect fund totals as of September 30, 2017.

Ship Disposal Sales Revenue Retained – Suspense Account

Sales proceeds credited to the VORF account from ship recycling sales are only available for distribution under the funding provisions of the NMHA when the contracts under which those sales proceeds were received have been closed. Only at that time, is it clear that the sales proceeds, are no longer subject to claims by the recycling contractor. Recycling contractors can submit claims against the contract's sales proceeds until the recycling contract is completed and the contract is closed. To ensure that sufficient funds are available if refund of all or a portion of the purchase price to the recycler is necessary, sales proceeds are placed into a VORF suspense sub-account until all contingent liabilities are extinguished. Once all contract contingent liabilities are satisfied the sales proceeds are distributed from the suspense account into the other appropriate VORF sub-accounts as per the funding requirements of the NMHA.

¹⁰ The intent of the amendment to the VORF C fund distribution is to designate the remaining 25% of available funds to the Secretary of the Interior for the NPS carry to out the NMHGP. Not less than 25% of the funds designated to the NPS are to be <u>set aside</u> for preservation and presentation to the public of maritime heritage property of the Maritime Administration.

VORF Obligations and Funds Provided

The suspense account balance at the beginning of FY 2018 was \$0 as prior year funds had been allocated to the various VORF sub-accounts by the end of FY 2017. In FY 2018, funds in the VORF totaling \$3,403,567 were allocated to the various VORF sub-accounts as per the NMHA distribution requirements. In FY 2018 sales revenue totaling \$3,030,862 was credited to the suspense account. None of these funds were available at the end of FY 2018 for allocation to the other VORF sub-accounts since the underlying ship recycling contract had not yet completed and potential liabilities and claims against the funds were yet extinguished. These funds will become available for allocation in FY 2019.

Table 6 provides a summary of the transactions within each VORF sub-account in FY 2018. The Balance column is the funds available in each sub-account at the beginning of FY 2018. The Funds Available column provides the total funds available in each sub-account during the fiscal year.

| VC | VORF Sub-Account Summary of Internal Transactions | | | | | | | | | | | | |
|---|--|---------------|-------------|----------|-----------------|--|--|--|--|--|--|--|--|
| Beginning Balance, Allocations, Credits, Recoveries | | | | | | | | | | | | | |
| Sub-Accounts | Balance | Allocations | Credits | Recovery | Funds Available | | | | | | | | |
| VORF A (NDRF) | \$2,476,705 | (\$1,490,372) | \$0 | \$73,232 | \$1,059,565 | | | | | | | | |
| VORF B (SMA's & USMMA) | \$2,404,138 | (\$1,680,000) | \$0 | \$0 | \$724,138 | | | | | | | | |
| VORF C1 (NPS) | \$456,981 | \$0 | \$0 | \$0 | \$456,981 | | | | | | | | |
| VORF C2 (MARAD) | \$2,923,601 | (\$233,192) | \$0 | \$0 | \$2,690,409 | | | | | | | | |
| Suspense Account | \$0 | \$0 | \$3,030,862 | \$0 | \$3,030,862 | | | | | | | | |
| Total | \$8,261,425 | (\$3,403,564) | \$3,030,862 | \$73,232 | \$7,961,955 | | | | | | | | |

Table 6: FY 2018 VORF Sub-Account Summary of Internal Transactions

- <u>Suspense Account</u>: Funds totaling \$3,030,862 were credited to the VORF suspense account from the sale for recycling of three NDRF non-retention vessels. These funds were not available for distribution to the other sub-accounts in FY 2018 as the underlying ship recycling sales contracts were still in progress and not yet completed.
- **<u>VORF A</u>**: In accordance with the 50% funding allocation required by the NMHA, the following transactions occurred in this sub account:
 - Funds in the amount of \$1,490,372 were obligated to enumerated projects for vessels in the NDRF.
 - Funds in the amount of \$73,232 were recovered from prior year contract closeout actions.
- **<u>VORF B</u>**: In accordance with the 25% funding allocation required by the NMHA, the following transactions occurred in this sub account:
 - Funds in the amount of \$1,680,000 were allocated to the State Maritime Academies and United States Merchant Marine Academy.
- **<u>VORF C1</u>**: In accordance with the 25% funding allocation required by the NMHA, the following transactions occurred in this sub account:
 - No funds were allocated from the VORF C1 sub-account to the NPS in FY 2018.

- **<u>VORF C2</u>**: In accordance with the 25% funding allocation required by the NMHA in which 25% of this 25% (6.25%) is set aside for the Maritime Administration, the following transactions occurred in this sub account:
 - Funds in the amount of \$233,192 were obligated for various projects for the preservation and presentation to the public of maritime heritage property of the Maritime Administration.

Table 7 provides a summary of funds obligated, distributed or made available to each of the NMHA Program recipients from funds available in the VORF sub-accounts for FY 2018. The FY 2018 ending balance represents the funds available at the beginning of FY 2019.

| VORF Sub-Account Summary of Obligations | | | | | | | | | | | |
|---|-------------|---------------|-------------|--|--|--|--|--|--|--|--|
| Funds Available, Obligations, Final Fiscal Year Balance | | | | | | | | | | | |
| Sub-Accounts Funds Available Obligations* FY 18 Ending Bala | | | | | | | | | | | |
| VORF A (NDRF) | \$2,476,705 | (\$1,417,140) | \$1,059,565 | | | | | | | | |
| VORF B (SMA's & USMMA) | \$2,404,138 | (\$1,680,000) | \$724,138 | | | | | | | | |
| VORF C1 (NPS) | \$456,981 | \$0 | \$456,981 | | | | | | | | |
| VORF C2 (MARAD) | \$2,923,601 | (\$233,192) | \$2,690,409 | | | | | | | | |
| Suspense Account /1 | \$0 | \$0 | \$0 | | | | | | | | |
| Total | \$8,261,425 | (\$3,330,332) | \$4,931,093 | | | | | | | | |

Table 7: FY 2018 VORF Program Obligations, End of Fiscal Year Balance

* Includes prior year recoveries and de-obligations.

/1 Does not include funds credited into the suspense account as they were not available for allocation in FY 2018.

VORF FY 2018 Sub-Account Activity

VORF A: NDRF Projects

Fifty percent of the funds credited into the VORF shall be available to the Administrator of the Maritime Administration for such acquisition, maintenance, repair, reconditioning, or improvement of vessels in the NDRF. Funds obligated in FY 2018 totaled \$1,490,372 for the following NDRF projects.

| Project | Funding | |
|-----------------------|--|-------------|
| | Increase cost for installation of Safety- | |
| Lifeboat Installation | Lifeboat on Fast Sealift Ship Bellatrix | \$75,000 |
| | Perform annual maintenance repairs and | |
| Annual Maintenance | regulatory drydock on the M/V Freedom Star | \$1,294,622 |
| | Accomplish U.S. Marine Corp habitability | |
| Habitability Repairs | repairs on the SS Wright | \$120,750 |
| Total Funds | | \$1,490,372 |

Table 8 provides a summary of the FY distributions from the VORF A sub-account for FY's 2009-2018.

| | VORF A Distributions to the NDRF by Fiscal Year | | | | | | | | | | | | |
|--|--|--------|--------|--------|--------|--------|---------|--------|--------|---------|---------|--|--|
| FY-2009 FY 2010 FY 2011 FY 2012 FY 2013 FY 2014 FY 2015 FY 2016 FY 2017 FY 2018 Summar | | | | | | | | | | Summary | | | |
| VORF - A | \$1.5M | \$1.7M | \$1.0M | \$2.2M | \$5.3M | \$7.5M | \$10.5M | \$798K | \$5.9M | \$1.5M | \$37.9M | | |

VORF B: USMMA and SMA's

Twenty-five percent of the funds credited to the VORF are made available to the United States Merchant Marine Academy and the six State Maritime Schools. In FY 2018, a total of \$1,680,000 was obligated to the Maritime Academies. Amounts to the individual schools are listed in the table below.

| Academy | Funds |
|------------------------|-------------|
| U.S. Merchant Marine | \$750,000 |
| Maine Maritime | \$155,000 |
| Massachusetts Maritime | \$155,000 |
| Great Lakes Maritime | \$155,000 |
| Texas A&M Maritime | \$155,000 |
| California Maritime | \$155,000 |
| SUNY Maritime | \$155,000 |
| Total Funds | \$1,680,000 |

Table 9 provides a summary of the funds distributed to the USMMA and State Maritime Academies for FY's 2009–2018.

| | VORF Distributions to the USMMA and State Maritime Academies by Fiscal Year | | | | | | | | | | | | | |
|--------------|---|-----------|-----------|-------------|---------|-------------|-------------|------------|-----------|-------------|--------------|--|--|--|
| ACADEMY | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 | SUMMARY | | | |
| USMMA | \$444,561 | \$188,143 | \$147,959 | \$962,000 | \$0 | \$0 | \$1,600,000 | \$0 | \$69,241 | \$750,000 | \$4,161,904 | | | |
| Maine | \$300,000 | \$0 | \$60,537 | \$940,056 | \$0 | \$1,000,000 | \$0 | \$0 | \$120,000 | \$155,000 | \$2,575,593 | | | |
| Mass | \$300,000 | \$0 | \$20,180 | \$940,056 | \$0 | \$1,000,000 | \$0 | \$0 | \$120,000 | \$155,000 | \$2,535,236 | | | |
| Great Lakes | \$50,000 | \$0 | \$20,180 | \$940,056 | \$0 | \$1,000,000 | \$0 | \$0 | \$120,000 | \$155,000 | \$2,285,236 | | | |
| Texas | \$0 | \$0 | \$20,180 | \$940,056 | \$0 | \$1,000,000 | \$0 | \$0 | \$120,000 | \$155,000 | \$2,235,236 | | | |
| California | \$450,000 | \$0 | \$131,165 | \$940,056 | \$0 | \$1,000,000 | \$0 | \$0 | \$120,000 | \$155,000 | \$2,796,221 | | | |
| SUNY | \$300,000 | \$0 | \$131,165 | \$940,056 | \$0 | \$1,000,000 | \$0 | \$0 | \$120,000 | \$155,000 | \$2,646,221 | | | |
| Annual Total | \$1,844,561 | \$188,143 | \$531,366 | \$6,602,333 | \$0 | \$6,000,000 | \$1,600,000 | \$0 | \$789,241 | \$1,680,000 | \$19,235,644 | | | |

 Table 9: VORF B Funds Distributed to the Maritime Academies FY 2009 – 2018

 VORF D Funds Distributed to the Maritime Academies FY 2009 – 2018

VORF C: Maritime Heritage

Twenty-five percent of the funds credited to the VORF shall be used for maritime heritage property preservation and presentation. Funds are made available to the Secretary of the Interior to carry out the NPS's National Maritime Heritage Grant Program (NMHGP) (VORF C1) with not less than 25% of the funds designated to the NPS set aside for preservation and presentation to the public of maritime heritage property of the Maritime Administration.

VORF C1: National Park Service NMHGP

No funds were provided by MARAD to the NPS in FY 2018 to support maritime heritage projects selected by the NPS in the National Maritime Heritage Grant Program (NMHGP).¹¹ The NPS 2017 Grant Program and Application Information can be found at <u>https://www.nps.gov/maritime/grants/apply.htm</u>.

VORF C2: MARAD Maritime Heritage

In FY 2018, MARAD obligated \$233,192 for newly approved projects for the preservation and presentation to the public of MARAD's maritime heritage property. Overall MARAD expended \$820,640 in FY 2018 for ongoing projects for the preservation and presentation to the public of MARAD's maritime heritage property. These funds include amounts on open contracts from prior year obligations. Project durations and funding obligations span multiple FYs.

Suspense Account: The balance in the suspense account at the beginning of FY 2018 was \$0. Sales proceeds collected and credited into the VORF suspense account in 2018 totaled \$3,030,862. These funds will be distributed to the other VORF sub-accounts as per the NMHA allocation requirements, once contingent liabilities have been extinguished for each underlying sales contract.

MARAD Maritime Heritage Projects

Table 10 presents a list of each project selected by the Maritime Administrator, for preservation and presentation to the public of MARAD's maritime heritage property, for which funds from the VORF C2 sub-account were expended in FY 2018.

¹¹ MARAD transferred \$5M to the NPS in FY 2017 in support of the 2017 grant application process. The NPS did not request any additional funds in FY 2018.

| | FY 2018 VORF C2 Funds Expenditures | | | | | | | | |
|-------|------------------------------------|---|-----------|--|--|--|--|--|--|
| Proje | Project Description | | | | | | | | |
| VORF | C2 (HQ) | MARAD FY 2018 Maritime Heritage Projects | | | | | | | |
| 1 | MARAD' assistance | story Database- Contract support to research and document is activities in wars, major conflicts, and humanitarian e. Vessel history database normalization; historical research and ation of MARAD-owned shipwrecks for NHPA Section 110 ce. | \$178,218 | | | | | | |
| 2 | Conservat | tion of MARAD heritage assets at Cheatham Annex. | \$224,780 | | | | | | |
| 3 | | support to complete work at Cheatham Annex to secure and MARAD heritage assets removed from WWII-era and later | \$331 | | | | | | |
| 4 | | Park Service Historic American Engineering Record (HAER) ISS HAER Supplemental Recordation Project. | \$108,762 | | | | | | |
| 5 | Repair of | damaged ship models. | \$7,637 | | | | | | |
| 6 | Administr Marine M | ator's Blue-Ribbon Commission Travel to American Merchant luseum. | \$4,550 | | | | | | |
| 7 | Phase 2 (o NSS Fire | e Savannah Heritage Projects NSS Electrical Power Survey complete)/ NSS Replace 120 Volt Transformers (complete)/ Hazard Analysis (complete)/ NSS Marine Engineering and completed revisions to Fire Control Plan and other record). | \$79,294 | | | | | | |
| 8 | NSS Natio | onal Historic Preservation Act Heritage Projects. | \$176,532 | | | | | | |
| 9 | | ear Historian Consultation - General support for Section 106 on efforts. | \$540 | | | | | | |
| 10 | assessmen | ear Historian Consultation – Development of thematic nt and mitigation plans to support Programmatic Agreement for ction 106/110 compliance. | \$15,700 | | | | | | |
| 11 | Scanning | of historically significant documents, drawings and plans. | \$20,408 | | | | | | |
| 12 | - | Iministrative, and other miscellaneous expenses to managed s Maritime History and Heritage Program. (2018) | \$3,888 | | | | | | |
| | | Total Expended Funds | \$820,640 | | | | | | |

Table 10: FY 2018 MARAD Maritime Heritage Projects

Table 11 provides a summary of the FY distributions for FY's 2009-2018 from the VORF C2 sub-account to the NPS for the NMHG program and to MARAD for preservation and presentation to the public of MARAD's maritime heritage property.

| | VORF Distributions to the NPS and MARAD by Fiscal Year | | | | | | | | | | | | |
|---------------|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| | FY 2009 | FY 2010 | FY 2011 | FY 2012 | FY 2013 | FY 2014 | FY 2015 | FY 2016 | FY 2017 | FY 2018 | Summary | | |
| VORF - C1 NPS | \$0 | \$0 | \$0 | \$0 | \$0 | \$2.0M | \$2.8M | \$968K | \$5.0M | \$0.00 | \$10.8M | | |
| VORF - C2 HQ | \$0 | \$0 | \$176K | \$200K | \$410K | \$246K | \$498K | \$3.3M | \$368K | \$233K | \$5.4M | | |
| Annual Total | \$0 | \$0 | \$176K | \$200K | \$410K | \$2.2M | \$3.3M | \$4.3M | \$5.4M | \$232K | \$16.2M | | |

Table 11: VORF C Funds Provided for Maritime Heritage FY 2009 - 2018

Amounts reflect funds obligated for contract actions through FY 2018.

Fiscal Year 2019 Planned Disposal Activities

In October 2017, MARAD downgraded two vessels to non-retention status, the CAPE AVINOF located in the JRRF and the CHESAPEAKE, located in the BRF bringing to 13 the total number of MARAD non-retention vessels awaiting disposal at the beginning of FY 2018. In FY 2018, two vessels were upgraded from non-retention to retention status, the CHESAPEAKE and the CAPE AVINOF. Both vessels were removed from the list of vessels available for disposal. In addition, in FY 2018 MARAD awarded three vessels for disposal leaving eight vessels available for disposal at the end of FY 2018. MARAD does not anticipate downgrading any retention vessels to non-retention in FY 2019 thus the number of vessels available for disposal is not expected to increase during the fiscal year.

At the start of FY 2019, MARAD had eight non-retention vessels in two NDRF fleet sites and three vessels located at the NISMO facility in Philadelphia, PA, in the disposal queue. No MARAD vessels were available for disposal from the SBRF in FY 2018. MARAD did award for disposal two USCG owned vessels, IRIS and PLANETREE located in the SBRF. The three Navy vessels are not readily available for disposal until such time as the Navy completes a programmatic environmental assessment or consultation and/or receives specific permission from the NMFS to remove the vessels for disposal.

The goal for FY 2019 is to focus on the disposal of the worst conditioned vessels from the JRRF and BRF through competitive vessel sales or the procurement of recycling services.

Five-Year Disposal Program Projections

With the number of non-retention vessels in inventory and awaiting disposal at a historic low, it is anticipated that the number of vessels removed for disposal annually over the next five years will average less than four per year. Vessel downgrade projections are estimated due to the numerous variables, beyond the control of the SDP, that affect the availability of additional ships for disposal, such as, the timetable for downgrading vessels to non-retention status, holding vessels for the logistic support of existing RRF vessels and completion of the NHPA Section 106 historic assessment process. Since 2007, the backlog of obsolete MARAD ships that accumulated in the 1990s has been steadily eliminated to the point that no more than 10 total vessels are likely to be in non-retention status in any given year for the foreseeable future. Table 12 provides a five-year projection of MARAD non-retention vessel disposals by FY. The projections include Government owned merchant type vessels greater than 1,500 gross tons as reported from other Government agencies.

| Vessel Disposal Projections by Fiscal Year | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|--|--|--|--|--|--|
| Fiscal Year FY 2019 FY 2020 FY 2021 FY 2022 FY 2023 | | | | | | | | | | | |
| Number of Vessels | 3-4 | 3-5 | 3-5 | 3-5 | 3-5 | | | | | | |

Table 12: Vessel Disposal Projections FY's 2018 – 2022

As a result of the decreasing number of obsolete vessels available for disposal and the absence of any high disposal priority ships in poor material condition, MARAD's annual target for vessel removals has decreased. MARAD anticipates the disposal of an average of 3-4 vessels in FY 2019 with the disposal of 3-5 vessels in FY's 2020-2023.

The Five-Year Vessel Retirement projections from Figure E indicate there will be a total of 22 vessels retired in the next five years, 4 by the US Navy, Active Vessels, 9 by the US Military Sealift Command, 8 by MARAD and 1 by NOAA. Unclear is when exactly each of these vessels will be placed for recycling. Only two MSC vessels will be retired in FY 2019, none by the Navy or MARAD. Complicating vessel disposal planning is the ongoing NAVY/NMFS consultation over an environmental biological programmatic assessment for the disposal of Navy inactive ships and the litigation by the Squamish Indian Tribe in concert with the Washington Environmental Council and the Puget Soundkeeper Alliance for alleged clean water act violations. As of this report these consultations have stopped all Navy Inactive ship disposal activities including the sale for recycling of Navy non-combatant ships by MARAD, the transfer of non-combatant Navy vessels to MARAD fleet anchorages and the sale of combatant vessels for recycling by DLA.

Should MARAD remove three vessels for recycling in FY 2019 as planned there will only be five vessels in the MARAD disposal queue at the beginning of FY 2020.

Ship Disposal Program Performance Measures

The Program's annual performance measures of vessels awarded, vessels removed and vessels disposed are the most direct measure of progress in disposing of obsolete ships and meeting the Agency environmental stewardship targets. MARAD's focus had been on expedited removal for disposal of SBRF vessels, and the added requirement of dry-docking SBRF non-retention ships, performance measures and goals previously developed have been modified to reflect the terms of the Consent Decree related to the removal and dry-docking of SBRF vessels. With the completion of the removal of the 57 SBRF non-retention vessels under the Consent Decree and no SBRF non-retention vessels in the disposal queue MARAD will focus on the removal of the worst conditioned vessels in the JRRF and BRF.

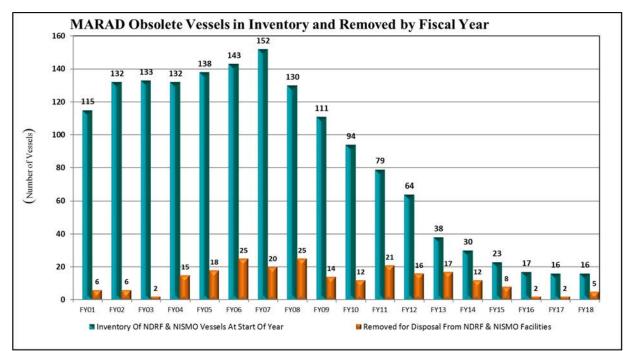
The Agency's ability to meet future performance targets is based on factors including, but not limited to, the following:

- Timing and amount of annual appropriations.
- The availability of competitive recycling facilities with available capacity and adequate production throughput.
- Feasibility of disposal options available to the Program.
- Dry-dock availability, throughput and cost (SBRF ships only).
- Availability of commercial towing assets and associated fuel costs.

- The costs of aquatic nuisance species sampling, assessment, and threat mitigation, including the dry-docking of SBRF ships for the removal of marine growth on the hulls.
- The costs of environmental remediation of hazmat streams such as asbestos, PCB and loose exterior paint present on the obsolete non-retention vessels.
- The market price of recyclable steel.

Negative trends in any one or a combination of those variables are beyond the Agency's control and can significantly affect meeting the performance targets. The targets for each year are established during the annual President's Budget Request development process 18 months prior to the specified budget year.

The most direct measure of the Program's performance is the annual target for vessel removals. Figure G below is a graph of the number of obsolete NDRF vessels in the disposal inventory at the start of each FY and the number of obsolete non-retention vessels removed for each FY from FY 2001 through September of 2018.





As shown in Figure H, MARAD has exceeded the ship removal target by an average of 3.0 vessels per year over the 18-year period; missing the annual target in only five years. It is interesting to note that from FY's 2001–2013 the annual vessel removal target was not achieved in only one year, 2003. This 13-year period coincided with a large number of non-retention vessels in inventory needing to be disposed, sufficient qualified ship recycling capacity, and large appropriations which averaged \$12.3M per year. Sufficient appropriations allowed the program to award service contracts by which to balance the poor vessel sales years of FY's 2001–2007. Between FY's 2008-2013 vessel sales increased and outpaced service contracts. During this period vessel sales aided the program in allowing adequate appropriations and carryover funds to be applied to the dry-docking and recycling of the SBRF vessels under the California Court Consent Decree.

MARAD did not met its annual vessel removal targets from FY's 2014-2016. This period coincides with the collapse of the domestic scrap steel market, reduction in ship recycling capacity, Navy aircraft carrier and DLA ship dismantlement awards and the prominent reduction in ship disposal annual appropriations, which averaged approximately \$2.0M during the three fiscal years.

In FY 2014, the decrease in domestic recycling capacity available to MARAD, a decrease in competition for MARAD recycling contracts and the length of recycling acquisition cycles resulted in 12 actual ship removals, three short of the removal target.

In FY 2015, the decrease in domestic recycling capacity available to MARAD, a decrease in competition for MARAD recycling contracts, the plunge in the price of recycled steel prices and the lack of vessel sales resulted in eight actual ship removals, two short of the removal target.

In FY 2016, MARAD faced the same factors as in the previous year but was further impeded due to limited appropriations. The result was the removal of only two vessels in FY 2016, four short of the removal target.

In FY 2017, MARAD again faced continued lower prices for scrap steel, late appropriations sufficient to remove the last two SBRF Consent Decree vessels requiring dry-docking and long tows. As a result, MARAD sold no vessels for recycling and fell four vessels short of the FY 2017 removal target.

In FY 2018, MARAD benefited from the increase in scrap steel prices and sold three vessels for recycling. A total of five vessels departed for recycling from the MARAD fleet sites in FY 2018 two more than the removal target.

| T ¹ T | 17 ID I | D | | | |
|--------------------------------|---|---------------|--------------|-------------|--------------|
| Figure H: | Vessel Removal | Projections (| Compared to | Actual Vess | sel Removals |
| | · • • • • • • • • • • • • • • • • • • • | | compare a vo | | |

| Vessel I | Vessel Removal Projections Compared to Actual Vessel Removals | | | | | | | | | | | | | | | | | | | |
|----------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------|---------|
| Non-rete | Non-retention vessels removed annually from MARAD NDRF and Navy NISMF sites. | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | I | Actuals |
| FY | <u>2001</u> | <u>2002</u> | <u>2003</u> | <u>2004</u> | <u>2005</u> | <u>2006</u> | <u>2007</u> | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> | <u>2016</u> | <u>2017</u> | <u>2018</u> | (Thru | FY2018) |
| Target: | 3 | 3 | 4 | 4 | 15 | 13 | 13 | 16 | 14 | 10 | 10 | 12 | 15 | 15 | 10 | 6 | 6 | 3 | 172 | (Δ+54) |
| Actual: | 6 | 6 | 2 | 15 | 18 | 25 | 20 | 25 | | 12 | | 16 | | 12 | 8 | 2 | 2 | 5 | 226 | (4.01) |

The differential (Δ) between the targets and actual results for vessel removals over the last 18 years shows that all annual targets have been met or exceeded except for five years. The targets that were not meet in FY's 2014-2017 corresponded to the worst collapse in the scrap steel markets since 2001. The cumulative Δ between targets and actual over the same period is significant and indicative of the Program's overall progress and effectiveness despite the environmental and legal challenges faced.

Environmental Regulation and Related Legal Challenges

The challenges related to the NISA and the CWA compliance requires appropriate financial resources to mitigate invasive species impact to the environment. The Agency is complying with the USCG's application of NISA and its regulations in administering ship disposal activities in order to protect the environment. The USCG and MARAD reached an agreement to accomplish in-water hull cleaning (commonly known as "scamping") to remove soft aquatic growth prior to towing the non-retention vessels from the fleets to recycling. NDRF vessels are cleaned waterborne in Texas and Virginia prior to transit for recycling in Texas and Louisiana. Vessels must depart the fleet locations within 14 days after completion of the hull cleaning to prevent new growth on the underwater hull. Waterborne marine growth mitigation costs have ranged from \$75-150 thousand per ship and reduce sales revenues when the recyclers procure the service. MARAD qualifies commercial diving companies capable of performing waterborne hull cleaning while the Navy utilizes their own contractor. Availability of the diving companies has the potential to impact the rate of vessel removals from the fleets.

For ships in the SBRF, MARAD will continue to perform cleaning in dry-dock because of concerns related to possible paint discharges. California allows in-water hull cleaning of active RRF vessels in San Francisco Bay waters with an approved discharge capture method. However, because of unique concerns regarding specific aquatic species in Texas and Louisiana, MARAD currently continues to clean SBRF vessels destined for recycling in those two States in dry-dock. Due to these concerns, the cleaned SBRF vessels must also be removed from San Francisco Bay waters within 14 days after undocking. The requirement to dry-dock SBRF ships in California to clean underwater hulls of marine growth before departure has cost an average of approximately \$500K per ship. The availability of dry-docks has been limited to one or two companies over the years and for the shipyards, MARAD vessels are low priority after commercial and US military vessels. Further, mobilizing towing assets to remove the vessels after dry-docking within the prescribed timeframe is subject to their availability.

In January 2017, BAE Systems San Francisco Ship Repair, sold its shipyard operations to Puglia Engineering, Inc., a Tacoma, WA based ship repair company. Shortly after the sale the condition of the shipyard's two dry-docks led Puglia to sue BAE Systems for misrepresentation. Puglia decided to close the facility in May 2017 rather than invest additional funds to repair the dry-docks. At the end of FY 2018 the shipyard facility had not re-opened. At this time, there are no non-retention vessels located in the SBRF. However, MARAD does have retention vessels in the SBRF that in the future will be available for disposal. The closing of the Puglia Shipyard in San Francisco leaves Mare Island DryDock as the sole remaining full service shipyard available to dry-dock future SBRF vessels slated for disposal.

II. N.S. SAVANNAH

The NSS is a legacy asset maintained by MARAD. MARAD is responsible for NSS because it is the agency that built and operated it under statutory authority enacted in 1956. The NSS was defueled and has been inoperable since the mid-1970's however, it's nuclear power plant is substantially intact, and remains subject to licensing and inspection by the NRC. MARAD is a Federal licensee as defined in the Atomic Energy Act of 1954, as amended (and implementing regulations at 10 CFR 50), and is responsible for the asset until the license is terminated through decommissioning. To meet its obligations under the license, MARAD maintains a proficient and competent nuclear capability and licensee organization. That organization, known as the Savannah Technical Staff (STS), is located within the OSDP since the MARAD reorganization of 2007. The STS is a blended organization composed of organic MARAD staff, contractors, and government partner organizations with decommissioning expertise. The organization and the NSS are unique to MARAD and the Department of Transportation (DOT).

Licensed Activities

The NRC license to possess but not operate or dismantle the nuclear facilities installed onboard the ship is the overarching regulatory authority applicable to the NSS¹². The license is not limited to the discrete compartments onboard the ship in which nuclear equipment and systems are located; rather, it covers the entire envelope of the ship. The ship itself, whether mobile or stationary, is the licensed site boundary and serves as the primary physical structure to protect the safety and health of the public and environment. Similar to a landside nuclear power plant, all activities within the site boundary (i.e., onboard the ship) are conducted under the authority of the NRC license, and are referred to as licensed activities. There are three major components to the licensed activities program; radiological protection, nuclear compliance; and ship husbandry/ custodial care. MARAD employs a single technical support contractor to provide integrated services in these areas.

Radiological Protection (RP) programs are prescribed by the NRC and are designed to protect workers and visitors (where visitor refers to <u>anyone</u> not trained and qualified as a radiation worker) from the harmful effects of exposure to man-made radiation. The RP program employed onboard the NSS is designed for the site-specific conditions unique to NSS and fully considers the plant's shutdown condition. Comparable programs are maintained at all other shutdown commercial nuclear power plants in the U. S.

Nuclear compliance, sometimes referred to by MARAD as "license technical support" involves the core nuclear skills, disciplines and expertise that establish the institutional competency to manage a nuclear facility. This is the nuclear analog to the comprehensive maritime expertise that MARAD naturally possesses by virtue of its ship owning and ship operations activities. Neither MARAD nor DOT own or maintain any other nuclear power facility; consequently, the specialized nuclear compliance services are critical to MARAD's continued satisfactory performance as a NRC-licensee. Ship husbandry and custodial care services are necessary to

¹² In June 2018, the NRC issued license amendment 15 which approved MARAD's request to revise the NSS Facility Operating License NS-1 to remove the license prohibition on dismantling and disposal of the NSS nuclear facilities to reflect commencement of preliminary dismantling activities in preparation for full scale decommissioning.

maintain and safeguard the ship as the aforementioned primary physical structure of the licensed site. These services are well-within MARAD's normal core competencies.

Licensed activities include administrative programs and a broad spectrum of surveillance, and monitoring actions, preventative maintenance, and radiological and environmental surveys. The comprehensive program is designed to meet the minimum statutory and regulatory obligations imposed by the continued retention of the vessel in protective storage. Detailed annual reports are submitted to the NRC and are publicly available.

MARAD oversight of the STS program is exercised through the organizational line of authority, and also through an Executive Steering Committee (ESC). Appropriated funds are sourced annually in the Ship Disposal Appropriation, with immediate oversight of funds management exercised by the Director, Office of Ship Disposal. The ESC is composed of agency senior civilian management, reporting to the Maritime Administrator. The ESC meets at least annually, and provides a mechanism by which the licensee staff can provide input to, and receive guidance and direction from agency leadership. The STS program manager is the designated licensee, and represents the agency in all matters before the NRC.

Stewardship

The NSS is a Federally-owed National Historic Landmark (NHL). It was designated as a NHL in 1991, and is the only directly-owned, managed and maintained NHL property in the Department of Transportation inventory.¹³ Under the provisions of the National Historic Preservation Act (NHPA) of 1966, as amended, the highest standard of care for historic objects falls upon Federal owners of NHLs. Consequently, MARAD maintains an appropriate historic stewardship program for the NSS. With due care and thoughtful planning, MARAD is able to seamlessly integrate stewardship into our licensed activities, and avoid direct costs or similar burdens that might otherwise accrue if stewardship obligations were managed separately.

The NSS stewardship obligations are not the sole responsibility of MARAD. Decommissioning and license termination are future Federal undertakings in which the NRC has an equal obligation. The NRC license is the authority under which decommissioning will be performed, and under the provisions of the NHPA, that Federal license to require and permit the undertaking imposes planning and mitigation obligations on the issuing-agency that are effectively equal to those imposed on MARAD as the owner of an NHL. Also, important to note is that decommissioning and license termination will not negate the ship's NHL status, and is not intended to result in the immediate disposal of the ship itself. MARAD will retain some measure of stewardship responsibilities post-decommissioning, unless a seamless disposition objective is determined and a plan is developed and implemented during the decommissioning process. Otherwise, stewardship obligations will remain until an independent disposition action is taken post-license termination. All disposition efforts will be considered through the NHPA Section 106 consultative process.

¹³ Washington Union Station is owned by the DOT, acting through the Federal Railroad Administration. The station complex, including air rights above the tracks, is managed and maintained by the independent Union Station Redevelopment Corporation, a public-private quasi-governmental entity established in 1983.

Status of the Facility during FY 2018

During FY 2018, the NSS was berthed at Pier 13, Canton Marine Terminal, and 4601 Newgate Avenue, Baltimore, MD. The removal by the NRC of the license condition prohibiting dismantlement changed the status of the NSS facility from "Mothballed" to "Dismantlement." Dismantlement is characterized by removal of radioactive fluids, radioactive wastes and other materials having activities above accepted unrestricted activity levels. Mothballed (referred to herein as Protective Storage) activities continue to be performed. These include active surveillance, monitoring and maintenance of the nuclear facilities housed onboard the ship, and custody and maintenance of the ship as the primary physical boundary and protective barrier of the licensed site.

The Consolidated Appropriations Act for FY 2018, enacted on March 23, 2018 provided \$107 million to MARAD for NSS decommissioning. This amount combined with the \$24 million provided by the Consolidated Appropriations Act for FY 2017 equals the \$131 million estimated to complete decommissioning and terminate the NSS license.

Protective Storage

MARAD's contemporary protective storage program is compliant with NRC regulations and guidelines, and is comparable to the SAFSTOR programs at all other domestic, permanentlyshutdown and defueled commercial nuclear power plants. The current NRC regulations and guidelines define protective storage under the title "SAFSTOR", and require active processes, programs and procedures that are fundamentally equivalent to those present in an operating plant. The work associated with these processes, programs and procedures is reduced in scope based on the defueled and inoperable condition of the facility, but may not be eliminated. These same processes, programs and procedures are employed in the dismantlement phase of decommissioning, again, with workloads adjusted to match the demands of the decommissioning activities. In addition to these administrative actions, equipment and systems necessary for future decommissioning must be maintained during the protective storage period. NSS-specific examples include but are not limited to, ventilation, electrical lighting and distribution, alarm systems and access controls, ballast systems for list and trim control (presently inoperable), active (versus passive) radiological monitoring (presently inoperable), and mooring equipment. Safety-related systems, structures and components are maintained as described in the ship's Quality Classification List.

MARAD's protective storage program for the NSS combines contemporary nuclear expertise with modified marine best practices drawn from our extensive experience maintaining ships in reduced states of readiness. The NSS has been at the Baltimore location since May 2008. The Baltimore layberth is an accessible location that permits the protective storage program to be carried out most efficiently, and at lower cost. The vessel is routinely occupied by workers and staff to carry out the licensed activities program. The integrated technical support contract was developed to maximize the effective use of available resources with the ship in this, or a similar, lay-berthing location.

NSS protective storage activities continue at the baseline level of effort for NRC license compliance concurrent with decommissioning activities and termination of the ship's NRC license. Upon termination of the NRC license the protective storage program will be brought to an orderly conclusion.

Decommissioning and License Termination

Decommissioning is the process by which a nuclear power plant is safely removed from service, and residual radioactivity is reduced to a level that permits termination of its license. Decommissioning in the US is a mature process both from the technological and regulatory standpoints. Twelve commercial nuclear power plants, and multiple government facilities have been decommissioned within the past 25 years and this experience bears on the NSS project.

The NSS nuclear power plant is substantially intact, although defueled and permanently inoperable. MARAD will supplement its Environmental Assessment prepared in 2008 for decommissioning of the NSS to analyze the environmental impacts of the various alternatives related to the decommissioning process. One of the decommissioning and licensed termination alternatives to be analyzed is NRC <u>DECON</u> methodology. The approach envisions utilizing ship structures and interior volume to the maximum extent possible to keep activities within the site boundary. This closely aligns with landside commercial nuclear decommissioning's, which are the direct analog to NSS. As with landside plants, decommissioning contractors will mobilize to the NSS site to perform work. A shipyard is not required for this effort.

MARAD's decommissioning project is structured in three major phases spanning a seven-year time period, where the scope of each phase is roughly defined by its name. Phase I is a two-year period of engineering and planning, combined with minor dismantlement activities to nuclear systems and components in outlying areas of the ship. Phase I includes the licensing actions necessary to support the subsequent heavy industrial dismantlement that takes place in Phase II. Phase II is estimated to require as much as four years and is the heavy engineering and industrial activities necessary to complete radiological remediation and dismantlement of the nuclear systems, structures and components. Phase III is License Termination, with a duration of about one year wherein the NRC conducts independent confirmatory surveys and inspections.

Based on commercial decommissioning experiences, MARAD developed a project approach that utilizes ship structures and interior volume to the maximum extent possible to keep activities within the site boundary. This conservative approach closely aligns with the methodologies employed by landside plants; as with those plants, decommissioning contractors will mobilize to the NSS site to perform work. A shipyard is not required for the effort.

As noted in previous sections of this report, funding was appropriated in both FY 17 and FY 18, with the total amount of \$131 million equal to the projected decommissioning requirement. Given the late availability of the FY 17 funds (mid-4th Qtr), MARAD formerly implemented its decommissioning project at the outset of FY 18. MARAD employed its existing integrated management contractor to execute the work. MARAD expects the existing contractor to work through the completion of Phase I. The acquisition of subsequent decommissioning services will take place in FY 2019.

FY 2018 Significant NSS Activities

Significant activities may be grouped into two major subject areas; regulatory compliance, and decommissioning support. In the regulatory compliance area, MARAD submitted three license amendments to the NRC (two of which were issued during the FY reporting period); initiated

and developed a Supplemental Environmental Assessment (EA) to address NEPA requirements not included in MARAD's 2008 EA (incomplete at the end of the FY reporting period); and initiated consultation under Section 106 of the NHPA (formal consultation efforts began in November 2018, after the end of the reporting period).

Decommissioning support activities include both tangible work, and engineering and planning efforts. In late FY 2017, MARAD awarded a Technical Support and Integrated Services (TSIM) contract to Tote Services, Inc. The purpose of the contract is to provide nuclear proficiencies and technical competencies for radiological protection, license technical support and ship husbandry services as required by the NRC to maintain the NSS in protective storage. Protective storage is characterized by maintenance of an appropriate radiological protection program to safeguard workers and the environment; active surveillance, monitoring and maintenance of the nuclear facilities housed onboard the ship; and custody, staffing, and maintenance (together referred to as husbandry) of the ship as the primary physical boundary and protective barrier of the licensed site.

The following significant discrete tangible work activities were performed in FY 2018:

- Completed access improvements to the Containment Vessel (CV). The modification created the new D Deck CV entrance on D deck starboard at Frame 112. The entrance is a watertight double door.
- Completed access improvements between the D Deck CV entrance and Cargo Hold 4 at C and D decks by installing watertight double doors.
- Removed primary and auxiliary system components that interfered with installing the new D Deck CV entrance.
- Installed an interim HEPA ventilation system for the CV, Reactor Compartment and Cold Chemistry Laboratory.
- Removed asbestos in numerous spaces in preparation for characterization and dismantlement.
- Abated lead in numerous areas in preparation for characterization and dismantlement.
- Removed radiologically contaminated drains in the A Deck Health Physics Laboratory and Hot Chemistry Laboratory. Both spaces were fully decommissioned and de-posted as Radiologically Controlled Areas during the FY.
- Removed numerous legacy fire hazards from Cargo Holds 2, 3 and 4.

Engineering and planning activities concentrated on supporting the above tangible work, with significant efforts devoted to the design and installation of the interim ventilation system, and the major design-build of the CV horizontal access portal. To support radiological and environmental remediation planning, characterization surveys were completed throughout the vessel during FY 2018. Additional characterization within the reactor compartment itself will be completed during FY 2019.

In the environment of continuing budget resolutions, the minimum requirements for radiological protection and ship husbandry were met, including annual underwater inspection of the hull, classification surveys and inspections, and radiological surveillance and monitoring. The program of incremental safety improvements was continued, with emphasis on emergency egress points.

In May, the Consolidated Appropriations Act for FY 2017 provided \$24M for decommissioning activities. The Act also provided the full request of \$3M for annual protective storage activities. Apportionments were not available until mid-June, at which time the balance of protective storage funding was obligated to the existing service contracts for lay-berthing and integrated technical support. An obligation of \$2M was made to the technical support contractor for initial decommissioning activities analyzed under the 2008 EA. The contractor's augmented staffing was put in place near the end of the 4th Qtr, such that performance of decommissioning activities began in FY 2018. Those activities will be described in the FY 2018 Annual Report.

III. BIENNIAL SHIP DISPOSAL PROGRAM ASSESSMENT SUMMARY: INTERIM FY 2018

Overview

In accordance with 40 U.S.C. § 548, MARAD shall dispose of surplus vessels of 1,500 gross tons or more that the Administration determines to be merchant-type vessels or capable of conversion to merchant use.¹⁴ By this statute, MARAD is the exclusive disposal agent for all federally owned merchant-type obsolete vessels greater than 1,500 gross tons. These include obsolete merchant ships moored at NDRF sites that, while part of the NDRF, are not assigned to the RRF, or otherwise designated for a specific purpose. It includes merchant-type vessels owned by other Federal Agencies that meet the statutory gross tonnage threshold. When ships are determined to be no longer useful for defense or humanitarian relief missions, the SDP arranges for their responsible disposal on a worst-first basis at domestically qualified ship recycling facilities. Disposal of government vessels by foreign recycling facilities is prohibited by the Duncan Hunter National Defense Authorization Act of FY 2009, Pub. L. 110-417, § 3502, 122 Stat. 4356 (Oct. 14, 2008).

Procurement Method

The primary disposal methods available to the program are the sale of vessels for recycling or the procurement of recycling services through the use of appropriated funds. Ninety-five percent of all vessel disposal actions since FY 2001 have been via ship recycling. The program has evolved into a streamlined vessel sales and acquisition methodology. Utilizing the FAR Part 13 Commercial Acquisition Procedure Standing Quotations, MARAD qualifies ship recycling facilities through the submittal of general technical proposals. Once qualified, the ship recycling facility is eligible to submit sales or service offers for the disposal of MARAD selected nonretention vessels. MARAD periodically identifies specific vessel(s) for disposal via an electronic Announcement issued only to qualified ship recycling facilities. The announcement contains both a Request for Sales Offers (RFSO) and a Request for Price Quotations (RFPQ) as identified under the solicitation. The requests are independent of each other, and only when no RFSO's are received will MARAD officially request RFPQs. For either type of contract, awards are made based on the best-value criteria described in the SDP solicitation. The streamlined vessel recycling acquisition process has been refined to the point where the SDP can issue a vessel announcement, receive either sales or service offers, conduct the best value evaluations, and issue contract awards in under sixty calendar days.

Program Effectiveness

The SDP has proven to be very adept at taking advantage of the volatile scrap steel market. Careful monitoring of scrap steel prices allows the program to react quickly to surges in the price of scrap steel by selling more vessels. Consequentially, the SDP has been able to sell large numbers of non-retention vessels when the price of scrap steel is rising or at market highs. Conversely, when the price of scrap steel falls, the SDP has difficulty selling vessels for recycling and must procure ship recycling services using appropriations. This is primarily a function of limited available funding at the time of the market fluctuation. A minimal annual base funding level for the procurement of ship recycling services would eliminate this issue and

¹⁴ 40 USC 548: Surplus Vessels

allow the SDP the flexibility to readily respond to down cycles in scrap steel prices, thereby continuing the removal of non-retention vessels mitigating environmental threats and vessel backlogs, and assist in maintaining a skilled industrial base of qualified ship recycling facilities. In FY 2018, MARAD successfully sold three NDRF vessels for recycling, crediting the VORF account with approximately \$3.0 million in revenues.

MARAD internal controls, acquisition procedures, information and communication processes, and budgetary and reporting structures provide a framework whereby the SDP has a low risk of not meeting its goals and objectives based on the execution of its processes and procedures. The program will, however, always remain subject to external factors beyond its control that can impact its ability to meet its goals and objectives. These primary factors bear repeating and include: a) the market price of scrap metals; b) the vessel's size/condition; c) the type and quantity of hazardous materials contained in the vessel; d) the quantity and type of recyclable materials that make up the vessel; e) the amount of competition for each vessel; f) the duration/cost of the tow from the fleet to the recycling facility; and g) the cost to remove marine growth from the vessel's hull prior to towing to different bio-geographical areas.

Federal Vessel Outreach Issues

Because of the issues that arose out of the sale of the former USCG vessel STORIS to US Metals Recycling of San Diego, CA, which in turn resold the vessel to a recycler in Mexico,¹⁵ the DOT Office of Inspector General (OIG) conducted an inquiry into the operations of MARAD's SDP. On December 10, 2015, OIG issued Report Number: ST-2016-2011 identifying weakness in MARAD's Management Controls with respect to issues relating to the handling of vessels by other Federal agencies. The OIG Report can be found at <u>https://www.oig.dot.gov/library-item/32838</u>.

In summary, the report noted the MARAD SDP did not have sufficient agreements in place with other Federal agencies to insure that other Federal Agencies fulfill their responsibilities to work with MARAD as the Government's disposal agent for merchant-type vessels or vessels capable of being converted to merchant-type use greater than 1,500 gross tons.¹⁶ The OIG Report stated, "even though MARAD had the agreement with the USCG to dispose of two of its cutters, the USCG disposed of another cutter, the STORIS, through GSA without consulting MARAD to determine if the STORIS fell within the Agency's purview. When MARAD does not dispose of vessels for which it is responsible, the Agency may not receive proceeds for its VORF for MARAD and the NPS programs."¹⁷

¹⁶ Surplus Vessels (40 U.S.C. § 548).

¹⁵ The USCG STORIS was decommissioned in Kodiak, Alaska, in February 2007 and transferred to MARAD's Suisun Bay Reserve Fleet in June 2007 for safekeeping. The USCG gave the STORIS to GSA to sell in June 2012. GSA relied on USCG self-certification that there were no PCBs on the STORIS. The vessel was sold for \$70,100 to US Metals Recycling of San Diego, CA. Thereafter, US Metals Recycling unsuccessfully attempted to sell the STORIS to a third-party group that wanted it for a museum. When this sale failed to materialize, US Metals Recycling removed the STORIS from the Suisun Bay Reserve Fleet in October of 2013 to Ensenada, Mexico, for scrapping by a foreign recycler. The U.S. ship recycling industry and the Museum Group notified the U.S. Environmental Protection Agency and requested an investigation into the possible export of polychlorinated biphenyls in violation of Toxic Substances Control Act. A complaint was filed with the DOT OIG arguing the vessel should have been disposed of through the MARAD ship disposal program.

¹⁷ The National Maritime Heritage Act of 1994 (54 U.S.C. § 308704).

The OIG concluded MARAD had not thoroughly documented risk mitigation strategies; fully implemented key workforce actions and developed policies; or provided sufficient policies, controls, and monitoring for effective program implementation. The OIG Report recommended MARAD develop or update policies and procedures to carry out MARAD's ship disposal responsibilities under 40 U.S.C. § 548, including policies and procedures for:

- a. identifying the universe of Government-owned vessels that meet the statutory criteria for MARAD to serve as the disposal agent; and
- b. notifying agencies that own these vessels of MARAD's disposal agent role.

Ship Disposal Program Policy Implementation

As a result of the OIG Report and the actions of Congress, the MARAD SDP issued Policy Directive 16-03 on June 28, 2016, establishing a Federal vessel outreach program with corresponding procedures, to:

- a. Identify the universe of vessel owned and operated by the Federal Government for which MARAD will be the exclusive disposal agency;
- b. Notify other Federal Agencies of MARAD's role and responsibilities for vessel disposal under 40 U.S.C.§ 548; and
- c. Annually collect disposal schedules for Government-owned merchant-type vessel from other Federal agencies for dissemination to Congress and the domestic ship recycling industry.

MARAD has identified the Federal Agencies who own and operate merchant-type vessels or vessels that can be converted to merchant-type use that meet and exceed the 1,500-gross ton statutory criteria. They include the United States Army Corps of Engineers (USACE), the Department of the Army (ARMY), MARAD, the Department of the Navy (NAVY), NAVSEA Inactive Ships Office (Sea 21I), NAVSEA Military Sealift Command (MSC), NAVSEA Office of Naval Research, (ONR), National Science Foundation (NSF), National Oceanic and Atmospheric Administration, (NOAA), and the USCG. In FY's 2016 – 2018, MARAD requested and received vessel disposal data from each such agency for its list of vessels meeting the statutory threshold for which MARAD would act as the disposal agent.

USCG OAKRIDGE

In August 2018, MARAD became aware the GSA had posted a sale/auction announcement on the GSA Auctions website for the sale of the USCG Ex-OAKRIDGE.¹⁸ It was not clear why the OAKRIDGE could be sold by the GSA when the USCG had previously reported to MARAD it was a vessel to be disposed of by MARAD.¹⁹

¹⁸ USS Oak Ridge (ARD-19), was originally a US Navy *ARD-12*-class floating dry dock suitable for docking destroyers, submarines, and landing craft. Built in 1944, the dry-dock was self-propelled but unable to cross the ocean under her own power; she was towed in stages across the Pacific in support of WWII operations. In the early 1960s she was upgraded to support Los Angeles-class submarines, and re-classified as ARDM-1-class. In February 2002, she was transferred to the United States Coast Guard. The dry-dock was recommissioned in the Coast Guard at the United States Coast Guard Yard, Curtis Bay, Baltimore, Maryland in 2003 and has remained there since.
¹⁹ MARAD reported the OAKRIDGE as a vessel in its FY's 2016-2017 Annual Ship Disposal Program Report, which was disseminated to the Domestic Ship Recycling industry. Further, MARAD reported to Congress the OAKRIDGE as a vessel in the FY 2017 Biennial Program Assessment.

The auction offered the vessel in its "AS IS WHERE IS" condition. MARAD noted the following discrepancies in the announcement:

- a. The auction was silent regarding the proposed use of the vessel. There was no reference to the prohibition on exporting vessels for recycling as contained in Section 3502 of the Duncan Hunter National Defense Authorization Act of FY 2009, Pub. L. 110-417, 122 Stat. 4356 (Oct. 14, 2008).
- b. It was unclear what environmental laws were applicable to the sale. The only requirement was that the buyer self-certify post-sale compliance with Federal, State, and local regulations.

MARAD via letter expressed its concerns to the USCG and requested the USCG provide adequate safeguards against the vessel's future recycling in foreign recycling facilities with particular reference to the statutory prohibition on using foreign recycling facilities for government vessels contained in Section 3502 of P.L. 110-417. MARAD also expressed concern that the disposal of the OAKRIDGE conforms to all of the environmental requirements incident to vessel disposal, specifically the prohibition against the distribution in commerce of PCBs which is a violation of the Toxic Substance Control Act.

In their reply to MARAD, the USCG offered a draft legal analysis which determined the OAKRIDGE was not a "vessel", within the meaning of 1 U.S.C. § 3 but was instead floating equipment. Since the OAKRIDGE was not a vessel, the USCG concluded it was not subject to the requirements that it be disposed of by MARAD under 40 U.S.C. § 548. The USCG draft legal analysis did not address nor did the sale require compliance with the environmental laws relating to vessels as well as the statutory prohibition on exporting Federal Governmental vessels for recycling in foreign facilities.

The USCG's draft legal analysis has far reaching implications with respect to the status of all watercraft of the Federal Government as vessels. The implications of this analysis go beyond which agency has the authority to dispose of such ships.

In its legal analysis, the USCG citing the Supreme Court's decision in *Lozman v. City of Rivera Beach Florida*, 568 U.S.115 (2013), found that the OAKRIDGE has deteriorated to a condition that it was no longer "capable of being used as a means of transportation." Id. at 120 (quoting) 1 U.S.C. § 3). Under the USCG's analysis, if a vessel is no longer capable of serving as a means of transportation, then it is no longer a vessel.

The GSA utilizes 41 C.F.R. §102-36.40 Disposition of Excess Personal Property when selling excess Government Property. Vessels are defined as ships, boats and craft designed for navigation in and on the water, propelled by oars or paddles, sail, or power. This definition is predicated on the original design of the vessel and makes no distinction as to whether the vessel has deteriorated, been altered or modified such that it is no longer capable of serving as a means of transportation. The OAKRIDGE was originally designed as a vessel for the Navy. Under the GSA operating definition of a vessel it is unclear why the GSA was involved in the sale of OAKRIDGE as the dry-dock never loses its designation as a vessel.

In the context of the disposal of obsolete non-retention vessels, few of these are maintained in a condition where they are licensed and ready to service as a means of transportation. The USCG's analysis could apply to most of the vessels disposed of by MARAD. Moreover, under the USCG analysis, an owner of vessel could change the legal status of that craft simply by taking certain actions with respect to its operating capabilities or how it is moored to a pier. The USCG legal analysis introduces uncertainty into all regulatory systems that apply to "vessels." Few, if any, of the obsolete non-retention ships disposed of by MARAD retain their documentation and are ready to legally service as a legal means for the transportation of goods or passengers.

It should be noted that the USCG also argued that dry-docks are not vessels. However, this argument ignored that fact that the USCG licenses dry-docks as vessels. There also is case law in which dry-docks have been found to be vessels.

MARAD sent a follow-on letter to the USCG and the GSA, requesting cancellation of the GSA auction until such time as the question of the vessel's status (vessel/floating equipment) could be resolved. MARAD pointed out that in response to two previous Federal Ship outreach data requests in both FY's 2016 and FY 2017, the USCG identified the OAKRIDGE as a vessel. Based on the USCG designation, MARAD reported to Congress in its annual report on the disposal or potential disposal of vessels owned by the Federal Government. MARAD also reiterated that the auction terms did not prevent the OAKRIDGE from being scrapped in a foreign scrapping facility. In addition, MARAD requested the USCG provide a copy if its formal legal opinion that the OAKRIDGE was not a vessel.

MARAD monitored the GSA web site and determined the OAKRIDGE was sold to the highest bidder on September 6, 2018 for \$1,396,099. The buyer is East Coast Repair & Fabrication, LLC, located in Norfolk, VA.

During the November 2018 Ship Recycling Town hall meeting in Brownsville, TX the recycling industry expressed their concerns with regard to the sale by the GSA of the USCG OAKRIDGE. It was not clear to them why the OAKRIDGE was not disposed of through the MARAD SDP.

In December 2018, MARAD sent letters of concern to the USCG's Excess Property Manager and the Office of Maritime and International Law expressing its concerns and implications of the USCG's rational for determining the OAKRIDGE was not a vessel. Specifically, under the USCG opinion if a ship is not a vessel because it is no longer capable of serving as a means of transport, then under the USCG rationale, such a ship of any size could be sold by the GSA for domestic or foreign reuse or recycling. Similar letters were sent to the GSA's General Counsel and the Office of Personal Property Management.

In February, MARAD receive a reply from the USCG Office of Maritime and International Law providing a post-sale formal legal opinion of the rationale for their determination that the OAKRIDGE was floating equipment and not a vessel.

MARAD has kept the DOT OIG apprised of the events surrounding the sale of the OAKRIDGE and expressed its concerns with the USCG and GSA's justifications for the determining the OAKRIDGE was not a vessel, the lack of coordination with MARAD, and the lack of safeguards in the sale announcement. MARAD has deep concerns with respect to the uncertainty the USCG opinion introduces concerning whether an obsolete non-retention watercraft is a "vessel". The USCG opinion allows for each agency to self-determine what is or is not a vessel at the time of disposition.

IV. CONCLUSIONS

An aggressive program of maximizing the use of disposal funding and pursuing all feasible disposal options has resulted in the removal of 226 obsolete vessels since 2001. Those removals from the MARAD fleet sites has reversed a trend in the growth of the number of obsolete ships in MARAD's custody. As of October 1, 2018, there were only 8 non-retention ships remaining in MARAD's three fleet sites, which is a historic low.

Moreover, the best-value award and removal of all of the Program's high priority ships has significantly mitigated the threat of residual oil and exfoliating paint discharge into the environment.

MARAD has credited approximately \$70 million in ship sales revenue to the VORF since FY 2010. The VORF A sub-account has distributed approximately \$37.9 million to various projects associated with repairs, maintenance, and upgrades to vessels in the NDRF. The VORF B sub-account has distributed approximately \$19.2 million to the USMMA and six State Maritime Academies for facility and training ship maintenance, repair, and modernization, and for the purchase of simulators and fuel. The VORF C sub-account has distributed approximately \$16.2 million, of which \$10.8 million has been provided to the NPS for utilization in the NMHGP.

The market price of recyclable steel is the primary factor which affects the Government's ability to sell vessels for recycling and procure recycling services. The price of scrap steel is volatile in nature, unpredictable and derived from worldwide economic conditions. It directly affects other ship recycling variables such as the availability of competitive recycling facilities with available capacity and adequate production throughput; dry-dock availability (for SBRF ships); the costs of environmental remediation of hazardous material streams such as asbestos, PCBs and loose exterior paint present on the non-retention vessels and the nature and number of vessels recycled in the US, both government and non-government.

The collapse of scrap steel prices from 2014 through mid-2017, fueled by slowing worldwide demand for processed and finished steel products, depressed the domestic ship recycling industry. Domestic recycling facilities were unable to afford to purchase MARAD/Navy vessels for recycling. The low price of scrap steel makes it uneconomical for ship recyclers to recycle MARAD/Navy non-retention vessels without being paid to recycle vessels.

The rebound in scrap steel prices from early 2017 reduced the Federal Government's cost of procuring recycling services and led to the sale of three NDRF non-retention vessels for recycling in FY 2018. By mid-2018, steel prices rebounded sufficiently so that domestic recyclers were willing to purchase vessels for recycling from the Federal Government.

Nevertheless, future significant market fluctuations are beyond SDP's control and can significantly affect meeting performance targets. Early indications going into FY 2019 are that there will be a robust US demand for scrap steel with decent prices, which while settling lower in the latter half of FY 2018, should remain high enough in the foreseeable future for MARAD to sell vessels for recycling from the BRF and JRRF fleets.

However, reliance on MARAD ship sales as the primary revenue stream into the VORF to fund projects in the NDRF, to provide additional funds to the USMMA and the six State Maritime Academies, and to fund maritime heritage projects in the NPS's and NMHGP is not sustainable in the long term given the volatility of the scrap steel market, the minimal number of nonretention vessels in the disposal queue, and the projected low number of future vessel retirements. Moreover, the recent USCG legal opinion with respect to the vessel status of the OAKRIDGE raises serious questions about whether Federal agencies will be required in the future to dispose of their ships through MARAD and follow the environmental requirements applicable to the disposal of vessels. Under the USCG analysis, the very watercraft that merit close environmental monitoring, those that are significantly deteriorated, cease to be vessels because they are no longer capable of transporting goods or passengers.

The contemporary NSS licensed activities program continues to meet both the letter and intent of NRC requirements while maintaining MARAD's required institutional nuclear proficiencies and competencies. The NRC inspections since 2001 have reported no findings of safety significance. Concurrent with those activities, STS maintains and upholds MARAD's continuous focus on its stewardship responsibilities when conducting activities on the NSS site. This approach towards management of the NSS is fully embedded in the overarching methodology for decommissioning activities, which has borne out during the first year of decommissioning operations.

APPENDIX A

United States Army Corp of Engineers – List of Vessels

| United S | States Army Corp of Engineers-USA | CE | | | | | | | | | | | | |
|----------|------------------------------------|------|------------------------|--------|-------|-----|---------------|----------------|-------------|-------------|--------------|---------------|-------------|-----------------|
| No. | Name | Туре | Vessel Design | Status | Year | Age | Disposal | Avail for | Fisca | l Year Remo | ved from Se | rvice (Retire | | Retirement Year |
| 110. | | | ē | | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | |
| 1 | Wheeler | MT | Dredge | Active | 1982 | 37 | | | | | | | | TBD |
| 2 | Essayons | MT | Dredge | Active | 1983 | 36 | | | | | | | | TBD |
| 3 | McFarland | MT | Dredge | Active | 1966 | 53 | | | | | | | | TBD |
| 4 | Hurley | MT | Dredge | Active | 1993 | 26 | | | | | | | | TBD |
| 5 | Yaquina | MT | Dredge | Active | 1981 | 38 | | | | | | | | TBD |
| 6 | Jadwin | MT | Dredge | Active | 1933 | 86 | | | | | | | | TBD |
| 7 | Potter | MT | Dredge | Active | 1932 | 87 | | | | | | | | TBD |
| 8 | Mississippi | MT | Towboat | Active | 1993 | 26 | | | | | | | | TBD |
| | | | | | | | | | | | | | | |
| | Legend | | Disposition Summa | ry | | | | Pla | nned Rei | noval fro | m Servio | e Summa | iry | |
| MT | Merchant Type Vessel | | Retain | 0 | | | | Avail for | Fisc | al Year I | Removed | from Sei | rvice | |
| С | Combatant Vessel | | SINKEX | 0 | | | | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Inactive | Non-operating/Non-retention status | | Scrap | 0 | | | | | | | | | | |
| Х | Foreign Military Sales | | Donation | 0 | | | | Changes to | vessel disp | osition sta | tus and re | tirement d | ates are in | bold |
| Х | SINKEX | | TBD | 0 | | | | | | | | | | |
| Х | Scrap | | Total Inactive | 0 | | | | | | | | | | |
| Х | Donation | | Total Active | 8 | | | | | | | | | | |
| Х | Remove From Service | | Total Number of Ships* | 8 | | | * This repres | ents the total | number of | vessels gre | ater than 1, | 500 gross to | ons owned | by the USACE |

APPENDIX B

United States Department of the Army – List of Vessels

| No. | Name | Tune | Vessel Design | Status | Year | Age | Disposal | Avail for | Fiscal | Year Remo | ved from Se | rvice (Retire | ment) | Retirement Year |
|-----------|---|------|------------------------------|--------|-------|-----|---------------|----------------|--------------|--------------|--------------|---------------|-------------|-----------------|
| NO. | Name | Туре | v essei Design | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Ketirement yea |
| 1 | USAV General Frank S. Besson, Jr (LSV-1) | MT | Logistics Support Vessel | Active | 1988 | 31 | | | | | | | | 2029 |
| 2 | USAV CW3 Harold C. Clinger (LSV-2) | MT | Logistics Support Vessel | Active | 1988 | 31 | | | | | | | | 2029 |
| 3 | USAV General Brehon B. Somervell (LSV-3) | MT | Logistics Support Vessel | Active | 1988 | 31 | | | | | | | | 2029 |
| 4 | USAV Lt. General William B. Bunker (LSV-4) | MT | Logistics Support Vessel | Active | 1988 | 31 | | | | | | | | 2029 |
| 5 | USAV Major General Charles P. Gross (LSV-5) | MT | Logistics Support Vessel | Active | 1991 | 28 | | | | | | | | 2029 |
| 6 | USAV SP4 James A. Loux (LSV-6) | MT | Logistics Support Vessel | Active | 1995 | 24 | | | | | | | | 2029 |
| 7 | USAV SSGT Robert T. Kuroda (LSV-7) | MT | Logistics Support Vessel | Active | 2003 | 16 | | | | | | | | 2027 |
| 8 | USAV Major General Robert Smalls (LSV-8) | MT | Logistics Support Vessel | Active | 2003 | 16 | | | | | | | | 2027 |
| 9 | USAV Worthy (T-AGOS-14) | MT | Missile Instrumentation Ship | Active | 1986 | 33 | | | | | | | | 2027 |
| 10 | Keystone State 6801 | MT | Barge Derrick | Active | 1998 | 21 | | | | | | | | 2029 |
| 11 | Saltillo 6802 | MT | Barge Derrick | Active | 1999 | 20 | | | | | | | | 2029 |
| 12 | Springfield 6803 | MT | Barge Derrick | Active | 2000 | 19 | | | | | | | | 2030 |
| 13 | Delaware 6804 | MT | Barge Derrick | Active | 2000 | 19 | | | | | | | | 2030 |
| | | | | | | | | | | | | | | |
| | Legend | | Disposition Summa | ry | | | | Pla | nned Rer | noval fro | m Servic | e Summa | iry | |
| MT | Merchant Type Vessel | | Retain | 0 | | | | Avail for | Fisc | al Year I | Removed | from Sei | vice | |
| С | Combatant Vessel | | SINKEX | 0 | | | | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Inactive | Non-operating/Non-retention status | | Scrap | 0 | | | | | | | | | | |
| Х | Foreign Military Sales | | Donation | 0 | | | | Changes to | vessel disp | osition sta | tus and re | tirement d | ates are in | bold |
| Х | SINKEX | | TBD | 0 | | | | | | | | | | |
| Х | Scrap | | Total Inactive | 0 | | | | | | | | | | |
| Х | Donation | | Total Active | 13 | | | | | | | | | | |
| Х | Remove From Service | | Total Number of Ships* | 13 | | | * This repres | ents the total | number of | vessels grea | ater than 1, | 500 gross to | ons owned | by the ARMY |
| | | | | | 1 | | | | | | | - | | |
| HANGES IN | N VESSEL STATUS FROM THE PREVIOUS FISCAL YEAR | | | | | | 1 | | | | | | | |
| 1 | USAV Worthy (T-AGOS-14) | MT | Missile Instrumentation Ship | Active | 1986 | 33 | The vessel w | as added to th | e list of Ar | mv vessels | in FY 2018 | ξ. | | |

APPENDIX C

| NI | N | т | Varia | <u></u> | Year | Age | Disposal | Avail for | Fisca | ıl Year Remo | ved from Se | rvice (Retire | ement) | D.C |
|-----|----------------------|------|------------------------------|----------|-------|-----|-------------|-----------|-------|--------------|-------------|---------------|--------|-----------------|
| No. | Name | Туре | Vessel Design | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Year |
| 1 | FB-62 | MT | Barge Office | Active | 1944 | 75 | | | | | | | | 2035 |
| 2 | Cape Farewell | MT | Barge Ship | Active | 1973 | 46 | | | | | | | | 2033 |
| 3 | Cape Flattery | MT | Barge Ship | Active | 1973 | 46 | | | | | | | | 2033 |
| 4 | Cape Fear | MT | Barge Ship | Active | 1971 | 48 | | | | | | | | 2031 |
| 5 | Cape Florida | MT | Barge Ship | Inactive | 1971 | 48 | Scrap | Х | | | | | | 2017 |
| 6 | Cape May | MT | Barge Ship | Active | 1972 | 47 | | | | | | | | 2025 |
| 7 | Cape Mendocino | MT | Barge Ship | Active | 1972 | 47 | | | | | | | | 2032 |
| 8 | Cape Mohican | MT | Barge Ship | Active | 1973 | 46 | Scrap | | | | | | Х | 2023 |
| 9 | Curtiss | MT | Break Bulk | Active | 1969 | 50 | | | | | | | | 2025 |
| 10 | Wright | MT | Break Bulk | Active | 1970 | 49 | | | | | | | | 2026 |
| 11 | Cape Gibson | MT | Break Bulk | Inactive | 1968 | 51 | Scrap | Х | | | | | | 2015 |
| 12 | Cape Girardeau | MT | Break Bulk | Active | 1968 | 51 | Scrap | | | Х | | | | 2020 |
| 13 | Cape Jacob | MT | Break Bulk | Active | 1961 | 58 | Scrap | | | Х | | | | 2020 |
| 14 | Cape Juby | MT | Break Bulk | Active | 1962 | 57 | | | | | | | | 2030 |
| 15 | Cape Nome | MT | Break Bulk | Active | 1969 | 50 | Scrap | | | | | X | | 2022 |
| 16 | Cape Archway | MT | Break Bulk | Inactive | 1963 | 56 | Scrap | Х | | | | | | 2009 |
| 17 | Cape Avinof | MT | Break Bulk | Active | 1963 | 56 | | | | | | | | 2029 |
| 18 | Cape Ann | MT | Break Bulk | Active | 1962 | 57 | | | | | | | | 2029 |
| 19 | Cape Bover | MT | Break Bulk | Active | 1966 | 53 | | | | | | | | 2030 |
| 20 | Del Monte | MT | Break Bulk | Active | 1968 | 51 | | | | | | | | 2029 |
| 21 | Cape Chalmers | MT | Break Bulk | Active | 1963 | 56 | | | | | | | | 2029 |
| 22 | Cape Alexander | MT | Break Bulk | Inactive | 1962 | 57 | Scrap | Х | | | | | | 2009 |
| 23 | Cape Alava | MT | Break Bulk | Inactive | 1962 | 57 | Scrap | Х | | | | | | 2013 |
| 24 | Gopher State | MT | Crane Ship | Active | 1973 | 46 | | | | | | | | 2028 |
| 25 | Flickertail State | MT | Crane Ship | Active | 1969 | 50 | | | | | | | | 2024 |
| 26 | Cornhusker State | MT | Crane Ship | Active | 1969 | 50 | | | | | | | | 2024 |
| 27 | Keystone State | MT | Crane Ship | Active | 1967 | 52 | | | | | | | | 2026 |
| 28 | Grand Canyon State | MT | Crane Ship | Active | 1966 | 53 | | | | | | | | 2025 |
| 29 | Gem State | MT | Crane Ship | Active | 1966 | 53 | | | | | | | | 2025 |
| 30 | Diamond State | MT | Crane Ship | Active | 1960 | 59 | Scrap | | | Х | | | | 2020 |
| 31 | Equality State | MT | Crane Ship | Inactive | 1962 | 57 | Scrap | Х | | | | | | 2016 |
| 32 | Green Mountain State | MT | Crane Ship | Active | 1965 | 54 | | | | | | | | 2025 |
| 33 | Algol | MT | Roll-On/Roll-Off | Active | 1973 | 46 | | | | | | | | 2033 |
| 34 | Bellatrix | MT | Roll-On/Roll-Off | Active | 1973 | 46 | | | | | | | | 2033 |
| 35 | Capella | MT | Roll-On/Roll-Off | Active | 1973 | 46 | | | | | | | | 2033 |
| 36 | Antares | MT | Roll-On/Roll-Off | Active | 1972 | 47 | | | | | | | | 2032 |
| 37 | Denebola | MT | Roll-On/Roll-Off | Active | 1974 | 45 | | | | | | | | 2034 |
| 38 | Regulus | MT | Roll-On/Roll-Off | Active | 1973 | 46 | | | | | | | | 2033 |
| 39 | Altair | MT | Roll-On/Roll-Off | Active | 1973 | 46 | | | | | | | | 2033 |
| 40 | Pacific Tracker | MT | Missile Instrumentation Ship | Active | 1965 | 54 | | | | | | | | 2027 |
| 41 | Pacific Collector | MT | Missile Instrumentation Ship | Active | 1970 | 49 | | | | | | | | 2027 |
| 42 | NS Savannah | MT | Nuclear Ship | Active | 1962 | 57 | | | | | | | | 2021 |
| 43 | Cape Hudson | MT | Roll-On/Roll-Off | Active | 1979 | 40 | | | | | | | | 2029 |

United States Maritime Administration – List of Vessels

| United S | States Maritime Administration - M | 1ARAD | | | | | | | | | | | | |
|--------------------|--|----------|---|----------------------|---------------|----------|------------------------------|-----------------------|----------------|----------------------|-----------------------|------------------------|----------------|-----------------|
| No. | Name | Туре | Vessel Design | Status | Year Built | Age | Disposal Disposition | Avail for Disposal | Fisca FY 19 | l Year Remo FY 20 | wed from Sei FY 21 | rvice (Retire FY 22 | ment) FY 23 | Retirement Year |
| 44 | Cape Horn | MT | Roll-On/Roll-Off | Active | 1979 | 40 | | | | | | | | 2029 |
| 45 | Cape Henry | MT | Roll-On/Roll-Off | Active | 1979 | 40 | | | | | | | | 2029 |
| 46 | Cape Inscription | MT | Roll-On/Roll-Off | Active | 1976 | 43 | | | | | | | | 2026 |
| 47 | Cape Isabel | MT | Roll-On/Roll-Off | Active | 1977 | 42 | | | | | | | | 2027 |
| 48 | Cape Island | MT | Roll-On/Roll-Off | Active | 1977 | 42 43 | | | | | | | | 2027 |
| 49 50 | Cape Intrepid Admiral Callaghan | MT MT | Roll-On/Roll-Off Roll-On/Roll-Off | Active Active | 1976 1968 | 43 | Samo | | | | | | X | 2026 2023 |
| 51 | Pollux | MT | Roll-On/Roll-Off | Active | 1908 | 46 | Scrap | | | | | | Л | 2023 |
| 52 | Cape Washington | MT | Roll-On/Roll-Off | Active | 1982 | 37 | | | | | | | | 2032 |
| 53 | Cape Wrath | MT | Roll-On/Roll-Off | Active | 1982 | 37 | | | | | | | | 2032 |
| 54 | Cape Victory | MT | Roll-On/Roll-Off | Active | 1985 | 34 | | | | | | | | 2035 |
| 55 | Cape Vincent | MT | Roll-On/Roll-Off | Active | 1984 | 35 | | | | | | | | 2034 |
| 56 | Cape Texas | MT | Roll-On/Roll-Off | Active | 1977 | 42 | | | | | | | | 2027 |
| 57 | Cape Taylor | MT | Roll-On/Roll-Off | Active | 1977 | 42 | | | | | | | | 2027 |
| 58 59 | Cape Kennedy Cape Knox | MT MT | Roll-On/Roll-Off Roll-On/Roll-Off | Active Active | 1979 1979 | 40 | | | | | | | | 2029 2029 |
| 60 | Cape Orlando | MT | Roll-On/Roll-Off | Active | 1979 | 38 | | | | | | | | 2029 |
| 61 | Cape Rise | MT | Roll-On/Roll-Off | Active | 1977 | 42 | | | | | | | | 2031 |
| 62 | Cape Ray | MT | Roll-On/Roll-Off | Active | 1977 | 42 | | | | | | | | 2027 |
| 63 | Cape Race | MT | Roll-On/Roll-Off | Active | 1977 | 42 | | | | | | | | 2027 |
| 64 | Cape Diamond | MT | Roll-On/Roll-Off | Active | 1972 | 47 | | | | | | | | 2032 |
| 65 | Cape Domingo | MT | Roll-On/Roll-Off | Active | 1973 | 46 | | | | | | | | 2033 |
| 66 | Cape Decision | MT | Roll-On/Roll-Off | Active | 1973 | 46 | | | | | | | | 2033 |
| 67 | Cape Douglas | MT | Roll-On/Roll-Off | Active | 1973 | 46 | | | | | | | | 2033 |
| 68 | Cape Ducato | MT | Roll-On/Roll-Off | Active | 1972 | 47 48 | | | | | | | | 2032 |
| 69 70 | Cape Edmont Cape Trinity | MT MT | Roll-On/Roll-Off Roll-On/Roll-Off | Active Active | 1971 1978 | 48 | | | | | | | | 2031 2028 |
| 70 | Simon Lake | MT | Submarine Tender | Inactive | 1978 | 55 | Scrap | Х | | | | | | 2028 |
| 72 | Triumph | MT | Surveillance Ship | Active | 1984 | 35 | Serap | Λ | | | | | | 2000 |
| 73 | Sumner | MT | Surveying Ship | Inactive | 1992 | 27 | Scrap | Х | | | | | | 2014 |
| 74 | Petersburg | MT | Tanker | Active | 1963 | 56 | Scrap | | | | Х | | | 2021 |
| 75 | Chesapeake | MT | Tanker | Active | 1964 | 55 | Scrap | | | | | | | TBD |
| 76 | Samuel L Cobb | MT | Tanker | Active | 1985 | 34 | | | | | | | | 2045 |
| 77 | Paul Buck | MT | Tanker | Active | 1985 | 34 | | | | | | | | 2045 |
| 78 | Richard G Matthiesen | MT | Tanker | Active | 1983 | 36 | | | | | | | | 2045 |
| 79 | Kennedy | MT | Training Ship | Active | 1967 | 52 | Scrap | | | | | T | | 2024 |
| 80 81 | Empire State State Of Maine | MT MT | Training Ship Training Ship | Active | 1962 1989 | 57 30 | Scrap | | | | | Х | | 2022 2034 |
| 81 | Golden Bear | MT | Training Ship | Active Active | 1989 | 48 | | | | | | | | 2034 |
| 83 | State Of Michigan | MT | Training Ship | Active | 1985 | 34 | | | | | | | | 2034 |
| 84 | General Rudder | MT | Training Ship | Active | 1984 | 35 | | | | | | | | 2033 |
| | | | <u> </u> | | | | | | | | | | | |
| | Legend | | Disposition Summa | ry | | | | Pla | nned Rei | noval fro | om Servic | e Summa | iry | |
| MT | Merchant Type Vessel | | Retain | 0 | | | | Avail for | | | Removed | | 1 | |
| C | Combatant Vessel | | SINKEX | 0 | | | | Disposal | | | FY 21 | | | |
| Active Inactive | Operating/Readiness/Support status Non-operating/Non-retention status | _ | Foreign Military Sales Scrap | 0 18 | | | | 8 | 0 | 3 | 1 | 2 | 2 | |
| X | Foreign Military Sales | | Donation | 0 | | | | Changes to | vessel dist | osition sta | tus and re | tirement d | ates are in | bold |
| X | SINKEX | | TBD | 0 | | | | Changes to | resserting | | | | | |
| Х | Scrap | | Total Inactive | 8 | | | | | | | | | | |
| Х | Donation | | Total Active | 76 | | | | | | | | | | |
| Х | Remove From Service | | Total Number of Ships* | 84 | | | * This repres | ents the total | number of | vessels gre | ater than 1, | 500 gross to | ons owned | by MARAD |
| | | | | | | | | | | | | | | |
| CHANGES | IN VESSEL STATUS FROM THE PREVIOUS | _ | | ¥ : | 10.12 | | ana - | | | | | FN 7 | | 0.1.1.1 |
| 1 | Cape Johnson | MT | Break Bulk | Inactive | 1962 | 57 | | | | | | | | October 2017 |
| 2 | Harkness Observation Island | MT | Surveying Ship Missila Instrumentation | Inactive | 1967 | 52 | | | | | | | | October 2017 |
| 3 4 | Observation Island Tripoli | MT MT | Missile Instrumentation | Inactive | 1954 | 65 53 | The vessel w The vessel w | | | | | | | |
| 5 | Tripoli Cape Lobos | MT | Amphibious Assault Ship Roll-On/Roll-Off | Inactive Inactive | 1966 1972 | 53 47 | The vessel w | | | | | | | - |
| 6 | Cape Juby | MT | Break Bulk | Active | 1972 | 57 | The vessel is | | | | | | | |
| 7 | Cape Avinof | MT | Break Bulk | Active | 1963 | 56 | The vessel is | | | | | | | |
| 8 | Cape Ann | MT | Break Bulk | Active | 1962 | 57 | The vessel is | | | , | | | | |
| | Cape Bover | MT | Break Bulk | Active | 1966 | 53 | | retained for | | , | Ŭ | | essels | |
| 9 10 | Triumph | MT | Surveillance Ship | 1100110 | -, | | | | | | | | | |

APPENDIX D

| United States Navy NAVSEA - List of Navy Active Ships |
|--|
|--|

| No. | Name | Туре | Vessel Design | Status | Year | Age | Disposal | Avail for | Fisca | l Year Remo | ved from Se | vice (Retire | ment) | Retirement Year |
|------|------------------------------|------|---------------------------|----------|-------|-----|-------------|-----------|-------|-------------|-------------|--------------|-------|------------------|
| 110. | | | 5 | | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Ketirelikin Tear |
| 1 | USS Enterprise (CVN -65) | С | Aircraft Carrier | Inactive | 1960 | 59 | Retain | | | | | | | 2017 |
| 2 | USS America (LHA-6) | MT | Amphibious Assault Ship | Active | 2012 | 7 | | | | | | | | TBD |
| 3 | USS Makin Island (LHD-8) | MT | Amphibious Assault Ship | Active | 2006 | 13 | | | | | | | | TBD |
| 4 | USS WASP (LHD 1) | MT | Amphibious Assault Ship | Active | 1987 | 32 | | | | | | | | TBD |
| 5 | USS Essex (LHD-2) | MT | Amphibious Assault Ship | Active | 1991 | 28 | | | | | | | | TBD |
| 6 | USS Kearsarge (LHD-3) | MT | Amphibious Assault Ship | Active | 1992 | 27 | | | | | | | | TBD |
| 7 | USS Boxer (LHD-4) | MT | Amphibious Assault Ship | Active | 1993 | 26 | | | | | | | | TBD |
| 8 | USS Bataan (LHD-5) | MT | Amphibious Assault Ship | Active | 1996 | 23 | | | | | | | | TBD |
| 9 | USS Bonhomme Richard (LHD-6) | MT | Amphibious Assault Ship | Active | 1997 | 22 | | | | | | | | TBD |
| 10 | USS Iwo Jima (LHD-7) | MT | Amphibious Assault Ship | Active | 2000 | 19 | | | | | | | | TBD |
| 11 | USS Blue Ridge (LCC-19) | MT | Amphibious Command Ship | Active | 1969 | 50 | | | | | | | | TBD |
| 12 | USS Mount Whitney (LCC-20) | MT | Amphibious Command Ship | Active | 1970 | 49 | | | | | | | | TBD |
| 13 | USS Lewis B Puller (T-ESB 3) | MT | Expeditionary Sea Base | Active | 2015 | 4 | | | | | | | | TBD |
| 14 | USS San Antonio (LPD-17) | MT | Amphibious Transport Dock | Active | 2003 | 16 | | | | | | | | TBD |
| 15 | USS New Orleans (LPD-18) | MT | Amphibious Transport Dock | Active | 2004 | 15 | | | | | | | | TBD |
| 16 | USS Mesa Verde (LPD-19) | MT | Amphibious Transport Dock | Active | 2004 | 15 | | | | | | | | TBD |
| 17 | USS John P. Murtha (LPD-26) | MT | 1 1 | Active | 2014 | 5 | | | | | | | | TBD |
| 18 | USS Somerset (LPD-25) | MT | Amphibious Transport Dock | Active | 2012 | 7 | | | | | | | | TBD |
| 19 | USS Arlington (LPD-24) | MT | Amphibious Transport Dock | Active | 2010 | 9 | | | | | | | | TBD |
| 20 | USS Anchorage (LPD-23) | MT | Amphibious Transport Dock | Active | 2011 | 8 | | | | | | | | TBD |
| 21 | USS San Diego (LPD-22) | MT | Amphibious Transport Dock | Active | 2010 | 9 | | | | | | | | TBD |
| 22 | USS New York (LPD-21) | MT | Amphibious Transport Dock | Active | 2007 | 12 | | | | | | | | TBD |
| 23 | USS Green Bay (LPD-20) | MT | Amphibious Transport Dock | Active | 2006 | 13 | | | | | | | | TBD |
| 24 | USS Rushmore (LSD-47) | MT | Dock Landing Ship | Active | 1989 | 30 | | | | | | | | TBD |
| 25 | USS Ashland (LSD-48) | MT | Dock Landing Ship | Active | 1989 | 30 | | | | | | | | TBD |
| 26 | USS Tortuga (LSD-46) | MT | Dock Landing Ship | Active | 1988 | 31 | | | | | | | | TBD |
| 27 | USS Comstock (LSD-45) | MT | Dock Landing Ship | Active | 1988 | 31 | | | | | | | | TBD |
| 28 | USS Gunston Hall (LSD-44) | MT | Dock Landing Ship | Active | 1987 | 32 | | | | | | | | TBD |
| 29 | USS Fort McHenry (LSD-43) | MT | Dock Landing Ship | Active | 1986 | 33 | | | | | | | | TBD |
| 30 | USS Germantown (LSD-42) | MT | Dock Landing Ship | Active | 1984 | 35 | | | | | | | | TBD |
| 31 | USS Whidbey Island (LSD-41) | MT | Dock Landing Ship | Active | 1983 | 36 | | | | | | | | TBD |
| 32 | USS Chancellorsville (CG 62) | С | Guided Missile Cruiser | Active | 1988 | 31 | | | | | | | | TBD |
| 33 | USS Bunker Hill (CG 52) | С | Guided Missile Cruiser | Active | 1985 | 34 | Retain | | | X | | | | 2020 |
| 34 | USS Mobile Bay (CG 53) | С | Guided Missile Cruiser | Active | 1985 | 34 | Retain | | | X | | | | 2020 |
| 35 | USS Antietam (CG 54) | С | Guided Missile Cruiser | Active | 1986 | 33 | Retain | | | | | X | | 2022 |
| 36 | USS Leyte Gulf (CG 55) | С | Guided Missile Cruiser | Active | 1986 | 33 | Retain | | | | | X | | 2022 |
| 37 | USS San Jacinto (CG 56) | С | Guided Missile Cruiser | Active | 1986 | 33 | | | | | | | | TBD |
| 38 | USS Lake Champlain (CG 57) | С | Guided Missile Cruiser | Active | 1987 | 32 | | | | | | | | TBD |
| 39 | USS Philippine Sea (CG 58) | С | Guided Missile Cruiser | Active | 1987 | 32 | | | | | | | | TBD |
| 40 | USS Princeton (CG 59) | С | Guided Missile Cruiser | Active | 1987 | 32 | | | | | | | | TBD |
| 41 | USS Monterey (CG 61) | С | Guided Missile Cruiser | Active | 1988 | 31 | | | | | | | | TBD |
| 42 | USS Cowpens (CG 63) | С | Guided Missile Cruiser | Active | 1989 | 30 | | | | | | | | TBD |
| 43 | USS Gettysburg (CG 64) | С | Guided Missile Cruiser | Active | 1989 | 30 | | | | | | | | TBD |
| 44 | USS Chosin (CG 65) | С | Guided Missile Cruiser | Active | 1989 | 30 | | | | | | | | TBD |
| 45 | USS Hue City (CG 66) | С | Guided Missile Cruiser | Active | 1990 | 29 | | | | | | | | TBD |
| 46 | USS Shiloh (CG 67) | С | Guided Missile Cruiser | Active | 1990 | 29 | 1 | 1 | 1 | | 1 | | I | TBD |

| | States Department of the Navy ctive Ships - NAVSEA | | | | | | | | | | | | | |
|-----|---|------|--------------------------|--------|---------------|-----|-------------|-----------|-------|-------------|-------|-------|-------|-----------------|
| No. | Name | Туре | Vessel Design | Status | Year | Age | Disposal | Avail for | | l Year Remo | 1 | , | , í | Retirement Year |
| 47 | USS Anzio (CG 68) | С | Guided Missile Cruiser | Active | Built 1990 | 29 | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | TBD |
| 48 | USS Vicksburg (CG 69) | C | Guided Missile Cruiser | Active | 1990 | 29 | | | | | | | | TBD |
| 49 | USS Lake Erie (CG 70) | C | Guided Missile Cruiser | Active | 1991 | 28 | | | | | | | | TBD |
| 50 | USS Cape St. George (CG 71) | C | Guided Missile Cruiser | Active | 1992 | 20 | | | | | | | | TBD |
| 51 | USS Vella Gulf (CG 72) | C | Guided Missile Cruiser | Active | 1992 | 27 | | | | | | | | TBD |
| 52 | USS Port Royal (CG 73) | C | Guided Missile Cruiser | Active | 1992 | 27 | | | | | | | | TBD |
| 53 | USS Normandy (CG 60) | C | Guided Missile Cruiser | Active | 1988 | 31 | | | | | | | | TBD |
| 54 | USS Howard (DDG-83) | C | Guided Missile Destroyer | Active | 1999 | 20 | | | | | | | | TBD |
| 55 | USS Winston S. Churchill (DDG-81) | C | Guided Missile Destroyer | Active | 1999 | 20 | | | | | | | | TBD |
| 56 | USS Bulkeley (DDG-84) | C | Guided Missile Destroyer | Active | 2000 | 19 | | | | | | | | TBD |
| 57 | USS Lassen (DDG-82) | C | Guided Missile Destroyer | Active | 1999 | 20 | | | | | | | | TBD |
| 58 | USS Farragut (DDG-99) | С | Guided Missile Destroyer | Active | 2005 | 14 | | | | | | | | TBD |
| 59 | USS McCampbell (DDG-85) | С | Guided Missile Destroyer | Active | 2000 | 19 | | | | | | | | TBD |
| 60 | USS Shoup (DDG-86) | С | Guided Missile Destroyer | Active | 2000 | 19 | | | | | | | | TBD |
| 61 | USS Mason (DDG-87) | С | Guided Missile Destroyer | Active | 2001 | 18 | | | | | | | | TBD |
| 62 | USS Preble (DDG-88) | С | Guided Missile Destroyer | Active | 2001 | 18 | | | | | | | | TBD |
| 63 | USS Mustin (DDG-89) | С | Guided Missile Destroyer | Active | 2001 | 18 | | | | | | | | TBD |
| 64 | USS Chafee (DDG-90) | С | Guided Missile Destroyer | Active | 2002 | 17 | | | | | | | | TBD |
| 65 | USS Pinckney (DDG-91) | С | Guided Missile Destroyer | Active | 2002 | 17 | | | | | | | | TBD |
| 66 | USS Momsen (DDG-92) | С | Guided Missile Destroyer | Active | 2003 | 16 | | | | | | | | TBD |
| 67 | USS Chung-Hoon (DDG-93) | С | Guided Missile Destroyer | Active | 2002 | 17 | | | | | | | | TBD |
| 68 | USS Nitze (DDG-94) | С | Guided Missile Destroyer | Active | 2004 | 15 | | | | | | | | TBD |
| 69 | USS James E. Williams (DDG-95) | С | Guided Missile Destroyer | Active | 2003 | 16 | | | | | | | | TBD |
| 70 | USS Bainbridge (DDG-96) | С | Guided Missile Destroyer | Active | 2004 | 15 | | | | | | | | TBD |
| 71 | USS Forrest Sherman (DDG-98) | С | Guided Missile Destroyer | Active | 2004 | 15 | | | | | | | | TBD |
| 72 | USS Kidd (DDG-100) | С | Guided Missile Destroyer | Active | 2004 | 15 | | | | | | | | TBD |
| 73 | USS Gridley (DDG-101) | С | Guided Missile Destroyer | Active | 2005 | 14 | | | | | | | | TBD |
| 74 | USS Sampson (DDG-102) | С | Guided Missile Destroyer | Active | 2006 | 13 | | | | | | | | TBD |
| 75 | USS Truxtun (DDG-103) | С | Guided Missile Destroyer | Active | 2007 | 12 | | | | | | | | TBD |
| 76 | USS Sterett (DDG-104) | С | Guided Missile Destroyer | Active | 2007 | 12 | | | | | | | | TBD |
| 77 | USS Dewey (DDG-105) | С | Guided Missile Destroyer | Active | 2008 | 11 | | | | | | | | TBD |
| 78 | USS Stockdale (DDG-106) | С | Guided Missile Destroyer | Active | 2008 | 11 | | | | | | | | TBD |
| 79 | USS Gravely (DDG-107) | С | Guided Missile Destroyer | Active | 2009 | 10 | | | | | | | | TBD |
| 80 | USS Wayne E. Meyer (DDG-108) | С | Guided Missile Destroyer | Active | 2008 | 11 | | | | | | | | TBD |
| 81 | USS Jason Dunham (DDG-109) | С | Guided Missile Destroyer | Active | 2009 | 10 | | | | | | | | TBD |
| 82 | USS William P. Lawrence (DDG-110) | С | Guided Missile Destroyer | Active | 2009 | 10 | | | | | | | | TBD |
| 83 | USS Spruance (DDG-111) | С | Guided Missile Destroyer | Active | 2010 | 9 | | | | | | | | TBD |
| 84 | USS Michael Murphy (DDG-112) | С | Guided Missile Destroyer | Active | 2011 | 8 | | | | | | | | TBD |
| 85 | USS Halsey (DDG-97) | С | Guided Missile Destroyer | Active | 2004 | 15 | | | | | | | | TBD |
| 86 | USS Oscar Austin (DDG-79) | С | Guided Missile Destroyer | Active | 1998 | 21 | | | | | | | | TBD |
| 87 | USS Roosevelt (DDG-80) | С | Guided Missile Destroyer | Active | 1999 | 20 | | | | | | | | TBD |
| 88 | USS Milius (DDG-69) | С | Guided Missile Destroyer | Active | 1995 | 24 | | | | | | | | TBD |
| 89 | USS John S. McCain (DDG-56) | С | Guided Missile Destroyer | Active | 1992 | 27 | | | | | | | | TBD |
| 90 | USS Mitscher (DDG-57) | С | Guided Missile Destroyer | Active | 1993 | 26 | | | | | | | | TBD |
| 91 | USS Laboon (DDG-58) | С | Guided Missile Destroyer | Active | 1993 | 26 | | | | | | | | TBD |

| Ν. | News | T | VID | QL-L | Year | Age | Disposal | Avail for | Fisca | l Year Remo | wed from Se | rvice (Retire | ment) | D.C. (W |
|----------|------------------------------------|------|--------------------------|--------|-------|-----|-------------|----------------|-------------|-------------|-------------------|------------------|-------------|------------------|
| No. | Name | Туре | Vessel Design | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Yea |
| 92 | USS Russell (DDG-59) | С | Guided Missile Destroyer | Active | 1993 | 26 | | | | | | | | TBD |
| 93 | USS Paul Hamilton (DDG-60) | С | Guided Missile Destroyer | Active | 1993 | 26 | | | | | | | | TBD |
| 94 | USS Fitzgerald (DDG-62) | С | Guided Missile Destroyer | Active | 1994 | 25 | | | | | | | | TBD |
| 95 | USS Stethem (DDG-63) | С | Guided Missile Destroyer | Active | 1994 | 25 | | | | | | | | TBD |
| 96 | USS Carney (DDG-64) | С | Guided Missile Destroyer | Active | 1994 | 25 | | | | | | | | TBD |
| 97 | USS Benfold (DDG-65) | С | Guided Missile Destroyer | Active | 1994 | 25 | | | | | | | | TBD |
| 98 | USS Gonzalez (DDG-66) | С | Guided Missile Destroyer | Active | 1995 | 24 | | | | | | | | TBD |
| 99 | USS Curtis Wilbur (DDG-54) | С | Guided Missile Destroyer | Active | 1992 | 27 | | | | | | | | TBD |
| 100 | USS The Sullivans (DDG-68) | С | Guided Missile Destroyer | Active | 1995 | 24 | | | | | | | | TBD |
| 101 | USS John Paul Jones (DDG-53) | С | Guided Missile Destroyer | Active | 1991 | 28 | | | | | | | | TBD |
| 102 | USS Hopper (DDG-70) | С | Guided Missile Destroyer | Active | 1996 | 23 | | | | | | | | TBD |
| 103 | USS Ross (DDG-71) | С | Guided Missile Destroyer | Active | 1996 | 23 | | | | | | | | TBD |
| 104 | USS Mahan (DDG-72) | С | Guided Missile Destroyer | Active | 1996 | 23 | | | | | | | | TBD |
| 105 | USS Decatur (DDG-73) | С | Guided Missile Destroyer | Active | 1996 | 23 | | | | | | | | TBD |
| 106 | USS McFaul (DDG-74) | С | Guided Missile Destroyer | Active | 1997 | 22 | | | | | | | | TBD |
| 107 | USS Donald Cook (DDG-75) | С | Guided Missile Destroyer | Active | 1997 | 22 | | | | | | | | TBD |
| 108 | USS Higgins (DDG-76) | С | Guided Missile Destroyer | Active | 1997 | 22 | | | | | | | | TBD |
| 109 | USS O'Kane (DDG-77) | С | Guided Missile Destroyer | Active | 1998 | 21 | | | | | | | | TBD |
| 110 | USS Porter (DDG-78) | С | Guided Missile Destroyer | Active | 1997 | 22 | | | | | | | | TBD |
| 111 | USS Cole (DDG-67) | С | Guided Missile Destroyer | Active | 1995 | 24 | | | | | | | | TBD |
| 112 | USS Stout (DDG-55) | С | Guided Missile Destroyer | Active | 1992 | 27 | | | | | | | | TBD |
| 113 | USS Arleigh Burke (DDG-51) | С | Guided Missile Destroyer | Active | 1989 | 30 | | | | | | | | TBD |
| 114 | USS Ramage (DDG-61) | С | Guided Missile Destroyer | Active | 1994 | 25 | | | | | | | | TBD |
| 115 | USS Barry (DDG-52) | С | Guided Missile Destroyer | Active | 1991 | 28 | | | | | | | | TBD |
| 116 | USS Zumwalt (DDG 1000) | С | Guided Missile Destroyer | Active | 2013 | 6 | | | | | | | | TBD |
| 117 | USS Carter Hall (LSD-50) | MT | Landing Ship Dock | Active | 1993 | 26 | | | | | | | | TBD |
| 118 | USS Harpers Ferry (LSD-49) | MT | Landing Ship Dock | Active | 1993 | 26 | | | | | | | | TBD |
| 119 | USS Pearl Harbor (LSD-52) | MT | Landing Ship Dock | Active | 1996 | 23 | | | | | | | | TBD |
| 120 | USS Oak Hill (LSD-51) | MT | Landing Ship Dock | Active | 1994 | 25 | | | | | | | | TBD |
| 121 | USS Milwaukee (LCS-5) | С | Littoral Combat Ship | Active | 2013 | 6 | | | | | | | | TBD |
| 122 | USS Fort Worth (LCS-3) | С | Littoral Combat Ship | Active | 2010 | 9 | | | | | | | | TBD |
| 123 | USS Freedom (LCS-1) | С | Littoral Combat Ship | Active | 2006 | 13 | | | | | | | | TBD |
| 124 | USS Jackson (LCS-6) | С | Littoral Combat Ship | Active | 2013 | 6 | | | | | | | | TBD |
| 125 | USS Coronado (LCS-4) | С | Littoral Combat Ship | Active | 2012 | 7 | | | | | | | | TBD |
| 126 | USS Detroit (LCS 7) | С | Littoral Combat Ship | Active | 2014 | 5 | | | | | | | | TBD |
| 127 | USS Montgomery (LCS 8) | С | Littoral Combat Ship | Active | 2014 | 5 | | | | | | | | TBD |
| 128 | USS Independence (LCS-2) | С | Littoral Combat Ship | Active | 2008 | 11 | | | | | | | | TBD |
| | | | 1 | | | | | | | | | | | |
| | Legend | | Disposition Summa | rv | | | | Pla | nned Re | noval fro | om S <u>ervic</u> | e Su <u>mm</u> a | iry | |
| MT | Merchant Type Vessel | | Retain | · · | | | | Avail for | 1 | al Year I | | | ¥ | |
| С | Combatant Vessel | | SINKEX | 0 | | | | Disposal | | FY 20 | | FY 22 | FY 23 | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | | | | | 0 | 0 | 2 | 0 | 2 | 0 | |
| Inactive | · · · · | | Scrap | 0 | | | | Ū | Ŭ | - | Ŭ | - | Ť | L |
| X | Foreign Military Sales | | Donation | 0 | | | | Changes to | vessel disi | osition sta | tus and re | tirement d | ates are in | bold |
| X | SINKEX | | TBD | | | | | | | | | | | |
| X | Scrap | | Total Inactive | 1 | | | | | | | | | | |
| X | Donation | | Total Active | 127 | | | * This room | ante tha tatal | number of | veccele ~ | oter then 1 | 500 | ne owe all | by Navy that are |
| X | Remove From Service | | Total Number of Ships* | 127 | | | - | ly powered w | | • | | • | | y inavy mat are |

APPENDIX E

| N | N | т | VID · | <u>01-1</u> | Year | Age | Disposal | Avail for | Fisca | l Year Remo | wed from Se | rvice (Retire | ement) | D.C. (25 |
|-----|---|------|------------------------------|-------------|-------|-----|-------------|-----------|-------|-------------|-------------|---------------|--------|----------------|
| No. | Name | Туре | Vessel Design | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Yea |
| 1 | USNS Lewis and Clark (T-AKE 1) | MT | Ammo/Dry Cargo | Active | 2005 | 14 | | | | | | | | 2018 |
| 2 | USNS Sacagawea (T-AKE 2) | MT | Ammo/Dry Cargo | Active | 2006 | 13 | | | | | | | | TBD |
| 3 | USNS Alan Shepard (T-AKE 3) | MT | Ammo/Dry Cargo | Active | 2006 | 13 | | | | | | | | TBD |
| 4 | USNS Richard E. Byrd (T-AKE 4) | MT | Ammo/Dry Cargo | Active | 2007 | 12 | | | | | | | | TBD |
| 5 | USNS Robert E. Peary (T-AKE 5) | MT | Ammo/Dry Cargo | Active | 2007 | 12 | | | | | | | | TBD |
| 6 | USNS Amelia Earhart (T-AKE 6) | MT | Ammo/Dry Cargo | Active | 2008 | 11 | | | | | | | | TBD |
| 7 | USNS Carl Brashear (T-AKE 7) | MT | Ammo/Dry Cargo | Active | 2008 | 11 | | | | | | | | TBD |
| 8 | USNS Wally Schirra (T-AKE 8) | MT | Ammo/Dry Cargo | Active | 2009 | 10 | | | | | | | | TBD |
| 9 | USNS Matthew Perry (T-AKE 9) | MT | Ammo/Dry Cargo | Active | 2010 | 9 | | | | | | | | TBD |
| 10 | USNS Charles Drew (T-AKE 10) | MT | Ammo/Dry Cargo | Active | 2010 | 9 | | | | | | | | TBD |
| 11 | USNS Washington Chambers (T-AKE 11) | MT | Ammo/Dry Cargo | Active | 2011 | 8 | | | | | | | | TBD |
| 12 | USNS William McLean (T-AKE 12) | MT | Ammo/Dry Cargo | Active | 2011 | 8 | | | | | | | | TBD |
| 13 | USNS Medgar Evers (T-AKE 13) | MT | Ammo/Dry Cargo | Active | 2011 | 8 | | | | | | | | TBD |
| 14 | USNS Cesar Chavez (T-AKE 14) | MT | Ammo/Dry Cargo | Active | 2012 | 7 | | | | | | | | TBD |
| 15 | USNS Zeus (T-ARC 7) | MT | Cable Laying/Repair | Active | 1982 | 37 | | | | | | | | TBD |
| 16 | USS Mount Whitney (LCC 20) | MT | Command Ship | Active | 1970 | 49 | | | | | | | | 2033 |
| 17 | USNS SGT Matej Kocak (T-AK 3005) | MT | Container Roll-On/Roll-Off | Active | 1983 | 36 | | | | | | | | 2039 |
| 18 | USNS PFC Eugene A. Obregon (T-AK 3006) | MT | Container Roll-On/Roll-Off | Active | 1983 | 36 | | | | | | | | TBD |
| 19 | USNS MAJ Stephen W. Pless (T-AK 3007) | MT | Container Roll-On/Roll-Off | Active | 1983 | 36 | | | | | | | | TBD |
| 20 | USNS 1st LT Harry L. Martin (T-AK 3015) | MT | Container Roll-On/Roll-Off | Active | 1983 | 36 | Retain | | X | | | | | TBD |
| 21 | USNS LCPL Roy M. Wheat (T-AK 3016) | MT | Container Roll-On/Roll-Off | Active | 1987 | 32 | | | | | | | | TBD |
| 22 | USNS Supply (T-AOE 6) | MT | Fast Combat Support Ship | Active | 1990 | 29 | | | | | | | | TBD |
| 23 | USNS Arctic (T-AOE 8) | MT | Fast Combat Support Ship | Active | 1993 | 26 | | | | | | | | TBD |
| 24 | USNS Mercy (T-AH 19) | MT | Hospital Ship | Active | 1987 | 32 | | | | | | | | TBD |
| 25 | USNS Comfort (T-AH 20) | MT | Hospital Ship | Active | 1976 | 43 | | | | | | | | TBD |
| 26 | USNS Guam (HST 1) | MT | High Speed Transport | Active | 2008 | 11 | | | | | | | | TBD |
| 27 | USNS Spearhead (T-EPF-1) | MT | Expeditionary Fast Transport | Active | 2012 | 7 | | | | | | | | TBD |
| 28 | USNS Fall River (T-EPF-4) | MT | Expeditionary Fast Transport | Active | 2014 | 5 | | | | | | | | TBD |
| 29 | USNS Millinocket (T-EPF-3) | MT | Expeditionary Fast Transport | Active | 2014 | 5 | | | | | | | | TBD |
| 30 | USNS Choctaw County (T-EPF-2) | MT | Expeditionary Fast Transport | Active | 2013 | 6 | | | | | | | | TBD |
| 31 | USNS Watson (T-AKR 310) | MT | Medium Roll-On/Roll-Off | Active | 1997 | 22 | | | | | | | | TBD |
| 32 | USNS Gordon (T-AKR 296) | MT | Medium Roll-On/Roll-Off | Active | 1972 | 47 | | | | | | | | TBD |
| 33 | USNS Shughart (T-AKR 295) | MT | Medium Roll-On/Roll-Off | Active | 1980 | 39 | | | | | | | | TBD |
| 34 | USNS Soderman (T-AKR 317) | MT | Medium Roll-On/Roll-Off | Active | 2002 | 17 | | | | | | | | TBD |
| 35 | USNS Pomeroy (T-AKR 316) | MT | Medium Roll-On/Roll-Off | Active | 2002 | 19 | | | | | | | | TBD |
| 36 | USNS Watkins (T-AKR 315) | MT | Medium Roll-On/Roll-Off | Active | 2000 | 19 | | | | | | | | TBD |
| 37 | USNS Gilliland (T-AKR 298) | MT | Medium Roll-On/Roll-Off | Active | 1972 | 47 | | | | | | | | TBD |
| 38 | USNS Red Cloud (T-AKR 313) | MT | Medium Roll-On/Roll-Off | Active | 1999 | 20 | | | | | | | | TBD |
| 39 | USNS Bob Hope (T-AKR 300) | MT | Medium Roll-On/Roll-Off | Active | 1997 | 20 | | | | | | | | TBD |
| 40 | USNS Charlton (T-AKR 314) | MT | Medium Roll-On/Roll-Off | Active | 1999 | 20 | | | | | | | | TBD |
| 41 | USNS Yano (T-AKR 297) | MT | Medium Roll-On/Roll-Off | Active | 1980 | 39 | | | | | | | | TBD |
| 42 | USNS Benavidez (T-AKR 306) | MT | | Active | 1980 | 20 | | | | | | | | TBD |

United States Navy Military Sealift Command – List of Vessels

| | / Sealift Command Active & Inactive Vessels | | | | Year | Age | Disposal | Avail for | Fisca | l Year Remo | ved from Se | rvice (Retire | ment) | |
|-----|---|------|-------------------------------|--------|-------|-----|-------------|-----------|-------|-------------|-------------|---------------|-------|-----------------|
| No. | Name | Туре | Vessel Design | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Year |
| 43 | USNS Brittin (T-AKR 305) | MT | Medium Roll-On/Roll-Off | Active | 2000 | 19 | | | | | | | | 2052 |
| 44 | USNS Mendonca (T-AKR 303) | MT | Medium Roll-On/Roll-Off | Active | 1999 | 20 | | | | | | | | 2056 |
| 45 | USNS Fisher (T-AKR 301) | MT | Medium Roll-On/Roll-Off | Active | 1997 | 22 | | | | | | | | 2049 |
| 46 | USNS Howard O. Lorenzen (T-AGM 25) | MT | Missile Range Instrumentation | Active | 2010 | 9 | | | | | | | | TBD |
| 47 | USNS Invincible (T-AGM 24) | MT | Missile Range Instrumentation | Active | 1987 | 32 | | | | | | | | TBD |
| 48 | USNS John Glenn (T-ESD 2) | MT | Mobile Landing Platforms | Active | 2012 | 7 | | | | | | | | TBD |
| 49 | USNS Montford Point (T-ESD 1) | MT | Mobile Landing Platforms | Active | 2012 | 7 | | | | | | | | TBD |
| 50 | USNS Waters (T-AGS 45) | MT | Navigation Test Support | Active | 1992 | 27 | | | | | | | | TBD |
| 51 | USNS Impeccable (T-AGOS 23) | MT | Ocean Surveillance | Active | 1998 | 21 | | | | | | | | TBD |
| 52 | USNS Able (T-AGOS 20) | MT | Ocean Surveillance | Active | 1991 | 28 | | | | | | | | TBD |
| 53 | USNS Loyal (T-AGOS 22) | MT | Ocean Surveillance | Active | 1992 | 27 | | | | | | | | TBD |
| 54 | USNS Victorious (T-AGOS 19) | MT | Ocean Surveillance | Active | 1991 | 28 | | | | | | | | TBD |
| 55 | USNS Effective (T-AGOS 21) | MT | Ocean Surveillance | Active | 1991 | 28 | | | | | | | | TBD |
| 56 | USNS Sioux (T-ATF 171) | MT | Fleet Ocean Tug | Active | 1980 | 39 | Scrap | | | | X | | | 2021 |
| 57 | USNS Apache (T-ATF 172) | MT | Fleet Ocean Tug | Active | 1981 | 38 | Scrap | | | | X | | | 2021 |
| 58 | USNS Catawba (T-ATF 168) | MT | Fleet Ocean Tug | Active | 1979 | 40 | Retain | | X | | | | | 2019 |
| 59 | USNS Mary Sears (T-AGS 65) | MT | Oceangraphic Survey | Active | 2000 | 19 | | | | | | | | TBD |
| 60 | USNS Bruce C. Heezen (T-AGS 64) | MT | Oceangraphic Survey | Active | 1999 | 20 | | | | | | | | TBD |
| 61 | USNS Henson (T-AGS 63) | MT | Oceangraphic Survey | Active | 1996 | 23 | | | | | | | | TBD |
| 62 | USNS Bowditch (T-AGS 62) | MT | Oceangraphic Survey | Active | 1994 | 25 | | | | | | | | TBD |
| 63 | USNS Pathfinder (T-AGS 60) | MT | Oceangraphic Survey | Active | 1993 | 26 | | | | | | | | TBD |
| 64 | USNS John Lenthall (T-AO 189) | MT | Fleet Oiler | Active | 1986 | 33 | Retain | | | | X | | | 2021 |
| 65 | USNS Walter S. Diehl (T-AO 193) | MT | Fleet Oiler | Active | 1987 | 32 | Retain | | | | X | | | 2021 |
| 66 | USNS John Ericsson (T-AO 194) | MT | Fleet Oiler | Active | 1990 | 29 | | | | | | | | TBD |
| 67 | USNS Joshua Humphreys (T-AO 188) | MT | Fleet Oiler | Active | 1986 | 33 | Scrap | | | | | X | | 2022 |
| 68 | USNS Henry J. Kaiser (T-AO 187) | MT | Fleet Oiler | Active | 1985 | 34 | | | | | | | | TBD |
| 69 | USNS Pecos (T-AO 197) | MT | Fleet Oiler | Active | 1989 | 30 | Scrap | | | | | | X | 2023 |
| 70 | USNS Laramie (T-AO 203) | MT | Fleet Oiler | Active | 1995 | 24 | | | | | | | | TBD |
| 71 | USNS Leroy Grumman (T-AO 195) | MT | Fleet Oiler | Active | 1988 | 31 | Retain | | | | | X | | 2022 |
| 72 | USNS Rappahannock (T-AO 204) | MT | Fleet Oiler | Active | 1995 | 24 | | | | | | | | TBD |
| 73 | USNS Kanawha (T-AO 196) | MT | Fleet Oiler | Active | 1990 | 29 | | | | | | | | TBD |
| 74 | USNS Yukon (T-AO 202) | MT | Fleet Oiler | Active | 1993 | 26 | | | | | | | | TBD |
| 75 | USNS Patuxent (T-AO 201) | MT | Fleet Oiler | Active | 1994 | 25 | | | | | | | | TBD |
| 76 | USNS Guadalupe (T-AO 200) | MT | Fleet Oiler | Active | 1991 | 28 | | | | | | | | TBD |
| 77 | USNS Tippecanoe (T-AO 199) | MT | Fleet Oiler | Active | 1992 | 27 | | | | | | | | TBD |
| 78 | USNS Big Horn (T-AO 198) | MT | Fleet Oiler | Active | 1991 | 28 | | | | | | | | TBD |
| 79 | USNS Vadm K. R. Wheeler (T-AG 5001) | MT | Offshore Petroleum | Active | 2007 | 12 | | | | | | | | TBD |
| 80 | USNS Salvor (T-ARS 52) | MT | Rescue/Salvage | Active | 1984 | 35 | | | | | | | | TBD |
| 81 | USNS Grasp (T-ARS 51) | MT | Rescue/Salvage | Active | 1985 | 34 | | | | | | | | TBD |
| 82 | USNS Seay (T-AKR 302) | MT | Large, Medium-Speed | Active | 1998 | 21 | | | | | | | | TBD |
| 83 | USNS SGT William R. Button (T-AK 3012) | MT | Large, Medium-Speed | Active | 1986 | 33 | | | | | | | | TBD |
| 84 | USNS 1st LT Jack Lummus (T-AK 3011) | MT | Large, Medium-Speed | Active | 1986 | 33 | İ | | | | | | | TBD |

| | tates Department of the Navy Sealift Command Active & Inactive Vessels | | | | | | | | | | | | | |
|----------|---|--------|-----------------------------|---------------|-------|-----|---------------|----------------|------------|--------------|--------------------------|--------------|--------------|-------------------|
| | | т | VID | <u>Ctatur</u> | Year | Age | Disposal | Avail for | Fisca | ıl Year Remo | oved from Se | rvice (Retir | ement) | Detterment Vers |
| No. | Name | Туре | Vessel Design | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Year |
| 85 | USNS 1st LT Baldomero Lopez (T-AK 3010) | MT | Large, Medium-Speed | Active | 1985 | 34 | | | | | | | | TBD |
| 86 | USNS PFC Dewayne T. Williams (T-AK 3009) | MT | Large, Medium-Speed | Active | 1985 | 34 | | | | | | | | TBD |
| 87 | USNS 2nd LT John P. Bobo (T-AK 3008) | MT | Large, Medium-Speed | Active | 1985 | 34 | | | | | | | | TBD |
| 88 | USNS GYSGT Fred W. Stockham (T-AK 3017) | MT | Large, Medium-Speed | Active | 1980 | 39 | | | | | | | | TBD |
| 89 | USNS Dahl (T-AKR 312 | MT | Large, Medium-Speed | Active | 1998 | 21 | | | | | | | | TBD |
| 90 | USNS Pililaau (T-AKR 304) | MT | Large, Medium-Speed | Active | 2000 | 19 | | | | | | | | TBD |
| 91 | USNS Sisler (T-AKR 311) | MT | Large, Medium-Speed | Active | 1998 | 21 | | | | | | | | TBD |
| 92 | Sea-Based X-Band Radar | MT | Semi-Submersible | Active | 2006 | 13 | | | | | | | | TBD |
| 93 | USS Frank Cable (AS 40) | MT | Submarine tender | Active | 1978 | 41 | | | | | | | | TBD |
| 94 | USS Emory S. Land (AS 39) | MT | Submarine Tender | Active | 1977 | 42 | | | | | | | | TBD |
| 95 | USNS Maury (T-AGS-66) | MT | Surveying Ship | Active | 2016 | 3 | | | | | | | | TBD |
| 96 | USNS Trenton (T-EPF 5) | MT | Expeditionary Fast | Active | 2015 | 4 | | | | | | | | TBD |
| 97 | USNS Carson City (T-EPF 7) | MT | Expeditionary Fast | Active | 2016 | 3 | | | | | | | | TBD |
| 98 | USNS Brunswick (T-EPF 6) | MT | Expeditionary Fast | Active | 2016 | 3 | | | | | | | | TBD |
| 99 | USNS Lawrence H. Gianella (T-AOT 1125) | MT | Tanker | Active | 1985 | 34 | TBD | | | | | | | TBD |
| | | | | | | | | | | | | | | |
| | Legend | | Disposition Summa | v. | | | | | inned Rei | moval fro | o <mark>m Servi</mark> o | e Summ | ary | |
| | Merchant Type Vessel | | Retain | 5 | | | | Avail for | _ | cal Year I | r | | rvice | |
| С | Combatant Vessel | | SINKEX | 0 | | | | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | 0 | | | | 0 | 2 | 0 | 4 | 2 | 1 | |
| Inactive | Non-operating/Non-retention status | | Scrap | 4 | | | | | | | | | | |
| Х | Foreign Military Sales | | Donation | 0 | | | | Changes to | vessel dis | position sta | itus and re | tirement d | lates are in | bold |
| Х | SINKEX | | TBD | 1 | | | | | | | | | | |
| Х | Scrap | | Total Inactive | 0 | | | | | | | | | | |
| Х | Donation | | Total Active | 99 | | | | | | | | | | |
| Х | Remove From Service | | Total Number of Ships* | 99 | | | * This repres | ents the total | number of | vessels gre | ater than 1, | 500 gross t | ons operate | d by MSC. |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| MSC Ship | s Utilized by Other Organizations (Not Part o | of MSC | C Inventory) | | | | | | | | | | | |
| - | HST-2 | MT | High Speed Transport | Util | 2004 | 15 | Leased to I | Bay Ferries | Ltd. of C | anada. O | perates be | etween M | aine and I | TBD |
| | | | Other Utilization * | 1 | | | 1 | ts MSC ow | | | | | | |
| | | | | | | | | | | | | č | | |
| CHANGES | S IN VESSEL STATUS FROM THE PREVIO | US FI | SCAL YEAR | | | | | | | | | | | |
| 1 | USS Ponce (AFSB-15) | | Afloat Forward Staging Base | Inactive | 1970 | 49 | The vessel | has been re | eturned to | the Navy | and is lis | ted on th | e Navy Ina | active Ship list |
| | USNS Lewis B Puller (MLP/AFSB 3) | MT | Expeditionary Sea Base | Inactive | 2015 | 4 | | | | | | | | Active ship list. |
| | USNS Lawrence H. Gianella (T-AOT 1125) | MT | Tanker | Active | 1985 | 34 | | disposal di | | | | | | 1 |
| | USNS Puerto Rico (HST 2) | MT | High Speed Transport | Active | 2004 | 15 | | was redesig | 1 | | <u> </u> | | | |

APPENDIX F

| | States Department of the Navy nactive Ships Office - (SEA 211) | | | | | | | | | | | | | |
|-----|---|------|-----------------------------|----------|-------|-----|-------------|-----------|-------|-------------|-------------|---------------|--------|-----------------|
| N. | News | т | VID | Status. | Year | Age | Disposal | Avail for | Fisca | l Year Remo | ved from Se | rvice (Retire | ement) | D. C |
| No. | Name | Type | Vessel Design | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Year |
| 1 | Ex-Kitty Hawk (CV-63) | С | Aircraft Carrier | Inactive | 1960 | 59 | Scrap | X | | | | | | 2009 |
| 2 | Ex-John F. Kennedy (CV-67) | С | Aircraft Carrier | Inactive | 1967 | 52 | Scrap | X | | | | | | 2007 |
| 3 | Ex-Ponce (AFSB-15) | MT | Afloat Forward Staging Base | Inactive | 1970 | 49 | Scrap | X | | | | | | 2017 |
| 4 | Ex-Peleliu (LHA-5) | MT | Amphibious Assault Ship | Inactive | 1978 | 41 | Retain | | | | | | | 2015 |
| 5 | Ex-Tarawa (LHA-1) | MT | Amphibious Assault Ship | Inactive | 1973 | 46 | Retain | | | | | | | 2009 |
| 6 | Ex-Nassau (LHA-4) | MT | Amphibious Assault Ship | Inactive | 1978 | 41 | Retain | | | | | | | 2011 |
| 7 | Ex-Charleston (LKA-113) | MT | Amphibious Cargo Ship | Inactive | 1967 | 52 | Scrap | X | | | | | | 2015 |
| 8 | Ex-Durham (LKA-114) | MT | Amphibious Cargo Ship | Inactive | 1968 | 51 | SINKEX | X | | | | | | 1994 |
| 9 | Ex-El Paso (LKA-117) | MT | Amphibious Cargo Ship | Inactive | 1969 | 50 | Scrap | X | | | | | | 1994 |
| 10 | Ex-Mobile (LKA-115) | MT | Amphibious Cargo Ship | Inactive | 1968 | 51 | Scrap | X | | | | | | 1994 |
| 11 | Ex-Shreveport (LPD-12) | MT | Amphibious Transport Dock | Inactive | 1966 | 53 | Scrap | X | | | | | | 2007 |
| 12 | Ex-Dubuque (LPD-8) | MT | Amphibious Transport Dock | Inactive | 1966 | 53 | Scrap | X | | | | | | 2011 |
| 13 | Ex-Denver (LPD-9) | MT | Amphibious Transport Dock | Inactive | 1965 | 54 | Scrap | X | | | | | | 2014 |
| 14 | Ex-Nashville (LPD-13) | MT | Amphibious Transport Dock | Inactive | 1967 | 52 | Scrap | X | | | | | | 2009 |
| 15 | Ex-Juneau (LPD-10) | MT | Amphibious Transport Dock | Inactive | 1966 | 53 | Scrap | X | | | | | | 2008 |
| 16 | Ex-Cleveland (LPD-7) | MT | Amphibious Transport Dock | Inactive | 1966 | 53 | Scrap | X | | | | | | 2011 |
| 17 | Ex-Charles F. Adams (DDG-2) | С | Destroyer | Inactive | 1959 | 60 | Scrap | X | | | | | | 1990 |
| 18 | Ex-Barry (DD-933) | С | Destroyer | Inactive | 1955 | 64 | Scrap | X | | | | | | 1982 |
| 19 | Ex-Ticonderoga (CG-47) | С | Guided Missile Destroyer | Inactive | 1981 | 38 | Scrap | X | | | | | | 2004 |
| 20 | Ex-Yorktown (CG-48) | С | Guided Missile Destroyer | Inactive | 1983 | 36 | Scrap | X | | | | | | 2004 |
| 21 | Ex-Vandegrift (FFG-48) | С | Guided Missile Frigate | Inactive | 1982 | 37 | Scrap | X | | | | | | 2015 |
| 22 | Ex-Elrod (FFG-55) | С | Guided Missile Frigate | Inactive | 1984 | 35 | FMS | X | | | | | | 2015 |
| 23 | Ex-Simpson (FFG-56) | С | Guided Missile Frigate | Inactive | 1984 | 35 | FMS | Х | | | | | | 2015 |
| 24 | Ex-Kauffman (FFG-59) | С | Guided Missile Frigate | Inactive | 1986 | 33 | FMS | X | | | | | | 2015 |
| 25 | Ex-Rodney M. Davis (FFG-60) | С | Guided Missile Frigate | Inactive | 1986 | 33 | Scrap | X | | | | | | 2015 |
| 26 | Ex-Ingraham (FFG-61) | С | Guided Missile Frigate | Inactive | 1988 | 31 | SINKEX | X | | | | | | 2015 |
| 27 | Ex-De Wert (FFG-45) | С | Guided Missile Frigate | Inactive | 1982 | 37 | FMS | X | | | | | | 2014 |
| 28 | Ex-Robert G. Bradley (FFG-49) | С | Guided Missile Frigate | Inactive | 1983 | 36 | FMS | X | | | | | | 2014 |

United States Navy Inactive Ships – SEA 211 - List of Vessels

| 1141911 | active Ships Office - (SEA 211) | | | | Year | Age | Disposal | Avail for | Fisco | l Year Remo | ved from So | rvice (Retire | ement) | |
|-----------------|---|---------------|---|----------------------|--------------|----------|--|----------------------------|-----------------------|--------------------------------------|-------------|---------------|-------------|-------------------------------------|
| No. | Name | Туре | Vessel Design | Status | Built | ngc | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Year |
| 29 | Ex-Halyburton (FFG-40) | С | Guided Missile Frigate | Inactive | 1981 | 38 | FMS | X | | | | | | 2014 |
| 30 | Ex-Ford (FFG-54) | С | Guided Missile Frigate | Inactive | 1984 | 35 | SINKEX | Х | | | | | | 2013 |
| 31 | Ex-Klakring (FFG-42) | С | Guided Missile Frigate | Inactive | 1982 | 37 | FMS | Х | | | | | | 2013 |
| 32 | Ex-Carr (FFG-52) | С | Guided Missile Frigate | Inactive | 1983 | 36 | FMS | Х | | | | | | 2013 |
| 33 | Ex-Curts (FFG-38) | С | Guided Missile Frigate | Inactive | 1982 | 37 | SINKEX | Х | | | | | | 2013 |
| 34 | Ex-Samuel B Roberts (FFG-58) | С | Guided Missile Frigate | Inactive | 1984 | 35 | Scrap | Х | | | | | | 2015 |
| 35 | Ex-Nicholas (FFG-47) | С | Guided Missile Frigate | Inactive | 1983 | 36 | Scrap | Х | | | | | | 2014 |
| 36 | Ex-Underwood (FFG-36) | С | Guided Missile Frigate | Inactive | 1982 | 37 | Scrap | Х | | | | | | 2013 |
| 37 | Ex-John L Hall (FFG-32) | С | Guided Missile Frigate | Inactive | 1981 | 38 | Scrap | Х | | | | | | 2012 |
| 38 | Ex-Boone (FFG-28) | С | Guided Missile Frigate | Inactive | 1980 | 39 | Scrap | Х | | | | | | 2012 |
| 39 | Ex-Stephen W Groves (FFG-29) | С | Guided Missile Frigate | Inactive | 1981 | 38 | Scrap | Х | | | | | | 2012 |
| 40 | Ex-Hawes (FFG-53) | С | Guided Missile Frigate | Inactive | 1984 | 35 | Scrap | Х | | | | | | 2010 |
| 41 | Ex-Rainier (T-AOE 7) | MT | Fast Combat Support Ship | Inactive | 1991 | 28 | Retain | | | | | | | 2016 |
| 42 | Ex-Bridge (T-AOE-10) | MT | Fast Combat Support Ship | Inactive | 1996 | 23 | Retain | | | | | | | 2014 |
| 43 | Ex-Navajo (T-ATF 169) | MT | Fleet Ocean Tug | Inactive | 1979 | 40 | LSA | Х | | | | | | 2016 |
| 44 | Ex-Mohawk (T-ATF-170) | MT | Fleet Ocean Tug | Inactive | 1980 | 39 | Scrap | Х | | | | | | 2015 |
| 45 | Ex-Hayes (T-AGOR-16) | MT | Oceanographic Research | Inactive | 1970 | 49 | Scrap | Х | | | | | | 2008 |
| 46 | Ex-Safeguard (T-ARS 50) | MT | Rescue/Salvage | Inactive | 1983 | 36 | Retain | | | | | | | 2017 |
| 47 | Ex-Grapple (T-ARS 53) | MT | Rescue/Salvage | Inactive | 1984 | 35 | Retain | | | | | | | 2017 |
| 48 | Ex-Boulder (LST-1190) | MT | Tank Landing Ship | Inactive | 1970 | 49 | Scrap | Х | | | | | | 1994 |
| MT | Legend Merchant Type Vessel | | Disposition Summa Retain | ry 7 | | | | Pla Avail for | | <mark>noval fro</mark> :al Year l | | | v | |
| C | Combatant Vessel | | SINKEX | 4 | | | | Disposal | | 1 | FY 21 | FY 22 | FY 23 | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | 8 | | | | 41 | 0 | 0 | 0 | 0 | 0 | |
| nactive | Non-operating/Non-retention status | | Scrap | 28 | | | | | v | Ŭ | 0 | v | Ū | |
| Х | Foreign Military Sales | | Logistics Support Asset | 1 | | | | Changes to | vessel disr | osition sta | tus and re | tirement d | ates are in | bold |
| Х | SINKEX | | Donation | 0 | | | | | r | | | | | |
| X | Logistics Support Asset | | TBD | 0 | | | | | | | | | | |
| Х | Scrap | | Total Inactive | 48 | | | * 51 | | 1 61 | | 1 | 1 1 500 | | d 0E4.011 |
| Х | Donation | | | - | | | | nts the total nu | | | | | | i the SEA 211 is less than 1,500 |
| X | Remove From Service | | Total Number of Ships* | 48 | | | gross tons | uc. Not menu | | apping is i a | | ai (10) Ca | | is 1655 utati 1,500 |
| | | | 11 | | | | Brons to the | | | | | | | |
| EA 4114 | thing the line of the One section of the | Destaff | | | | | | | | | | | | |
| 1 | hips Utilized by Other Organizations (Not Ex-Paul F. Foster (DD-964) | - | | Util | 1974 | 45 | Datain | Self Defen | an Test S | hin NO | WC Dout I | Juanama | | 2003 |
| 2 | | C | Destroyer | | | 43 | Retain | Utilized by | | | | lueneme | | |
| 2 | Ex-Cassin Young (DD-793) | C MT | Destroyer | Util | 1943 1979 | 40 | Retain | Utilized by | 1 | | | | | 1960 1999 |
| 4 | Ex-Narragansett (T-ATF-167) Ex-McKee (AS-41) | MT | Fleet Ocean Tug Submarine Tender | Util | 1979 | 40 39 | Retain | At Newpo | | | 1 | tion for m | dialagiaal | |
| 4 | EX-MURCE (AS-41) | MI | Other Utilization * | Util | 1980 | 39 | | ts SEA 211 | | | | | iulological | 1999 |
| | | | Other Othization | 4 | | | Represen | 115 SEA 211 | sinps uu | lizeu by u | niici orga | IIIZatiolis. | | |
| | | VIOUS F | ISCAL YEAR | | | | | | | | | | | |
| HANG | S IN VESSEL STATUS FROM THE PRE | | | Levelar | 1944 | 75 | Completed | in-place re | cycling at | Little Sa | nd Island | in Mobile | e, AL in F | ebruary 2018 |
| HANGH 1 | S IN VESSEL STATUS FROM THE PRE Ex-Shadwell (LSD-15) | MT | Dock Landing Ship | Inactive | 17.11 | | The vessel departed Philadelphia, PA in June 2018 for recycling. | | | | | | | |
| IANGE 1 2 | | - | Dock Landing Ship Guided Missile Frigate | Inactive | 1982 | 37 | The vessel | departed Ph | niladelphi | a, <u>PA</u> in J | une 2018 | for recyc | ling. | |
| 1 | Ex-Shadwell (LSD-15) | MT | | | | 37 49 | | departed Ph was added 1 | 1 | | | | ling. | |
| 1 2 | Ex-Shadwell (LSD-15) Ex-Doyle (FFG-39) | MT C | Guided Missile Frigate | Inactive | 1982 | | The vessel | 1 | to the Na | vy Inactiv | | | ling. | |
| 1 2 3 | Ex-Shadwell (LSD-15) Ex-Doyle (FFG-39) USS Ponce (AFSB-15) | MT C MT | Guided Missile Frigate Afloat Forward Staging Base | Inactive Inactive | 1982 1970 | 49 | The vessel Disposed v | was added t | to the Nav Septemb | vy Inactiv er 2018 | | | ling. | |

APPENDIX G

| N | N | m | Vessel Design S | 0 | Year | Age | Disposal Disposition | Avail for | Fisca | | | | | |
|----------|------------------------------------|------|------------------------|--------|-------|-----|-------------------------|--------------|------------------------------------|------------|------------|------------|------------|-----------------|
| No. | Name | Туре | | Status | Built | | | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Year |
| 1 | RV Sally Ride | MT | Research Vessel | Active | 2015 | 4 | | | | | | | | 2046 |
| 2 | RV Neil Armstrong | MT | Research Vessel | Active | 2014 | 5 | | | | | | | | 2045 |
| 3 | RV Atlantis | MT | Research Vessel | Active | 1997 | 22 | | | | | | | | 2042 |
| 4 | RV Roger Revelle | MT | Research Vessel | Active | 1996 | 23 | | | | | | | | 2041 |
| 5 | RV Thomas G Thompson | MT | Research Vessel | Active | 1991 | 28 | | | | | | | | 2036 |
| 6 | RV Kilo Moana | MT | Research Vessel | Active | 2002 | 17 | | | | | | | | 2032 |
| | | | | | | | | | | | | | | |
| | Legend | | Disposition Summa | ry | | | | Pla | nned Rei | noval fro | m Servic | e Summa | iry | |
| MT | Merchant Type Vessel | | Retain | 0 | | | | Avail for | · Fiscal Year Removed from Service | | | | | |
| С | Combatant Vessel | | SINKEX | 0 | | | | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Inactive | Non-operating/Non-retention status | | Scrap | 0 | | | | | | | | | | |
| X | Foreign Military Sales | | Donation | 0 | | | | Changes to | bold | | | | | |
| Х | SINKEX | | TBD | 0 | | | | | | | | | | |
| Х | Scrap | | Total Inactive | 0 | | | | | | | | | | |
| X | Donation | | Total Active | 6 | | | * This repr | esents the t | otal numb | er of vess | els greate | r than 1,5 | 00 gross t | ons owned by |
| | Remove From Service | | Total Number of Ships* | 6 | 1 | | ONR | | | | | | | |

United States Navy Office of Naval Research – List of Vessels

APPENDIX H

| N | N | m | e Vessel Design S | 0 | Year | Age | Disposal | Avail for | Fisca | De av | | | | |
|----------|------------------------------------|------|------------------------|--------|-------|-----|---------------|----------------|------------------------------------|-------------|-------------|--------------|-----------|-----------------|
| No. | Name | Туре | | Status | Built | | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Year |
| 1 | Rainier | MT | Research Vessel | Active | 1967 | 52 | | | | | | | | 2028 |
| 2 | Fairweather | MT | Research Vessel | Active | 1968 | 51 | | | | | | | | 2025 |
| 3 | Thomas Jefferson | MT | Research Vessel | Active | 1991 | 28 | | | | | | | | 2028 |
| 4 | Gordon Gunter | MT | Research Vessel | Active | 1989 | 30 | | | | | | | | 2025 |
| 5 | Okeanos Explorer | MT | Research Vessel | Active | 1988 | 31 | | | | | | | | 2025 |
| 6 | Oscar Elton Sette | MT | Research Vessel | Active | 1987 | 32 | Retain | | | | | X | | 2022 |
| 7 | Hi'ialakai | MT | Research Vessel | Active | 2002 | 17 | | | | | | | | 2025 |
| 8 | Reuben Lasker | MT | Research Vessel | Active | 2012 | 7 | | | | | | | | TBD |
| 9 | Pisces | MT | Research Vessel | Active | 2007 | 12 | | | | | | | | TBD |
| 10 | Oscar Dyson | MT | Research Vessel | Active | 2004 | 15 | | | | | | | | TBD |
| 11 | Henry B. Bigelow | MT | Research Vessel | Active | 2005 | 14 | | | | | | | | TBD |
| 12 | Bell M. Shimada | MT | Research Vessel | Active | 2010 | 9 | | | | | | | | TBD |
| 13 | Ronald Brown | MT | Research Vessel | Active | 1997 | 22 | | | | | | | | TBD |
| | Legend | | Disposition Summary | | | | | Pla | anned Removal from Service Summary | | | | | |
| MT | Merchant Type Vessel | | Retain | 1 | | | | Avail for | | | | from Ser | ¥. | |
| С | Combatant Vessel | | SINKEX | 0 | | | | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | 0 | | | | 0 | 0 | 0 | 0 | 1 | 0 | |
| Inactive | Non-operating/Non-retention status | | Scrap | 0 | | | | | | | | | | |
| Х | Foreign Military Sales | | Donation | | | | Changes to | vessel disp | osition sta | tus and re | tirement da | ates are in | bold | |
| Х | SINKEX | | TBD | 0 | | | | | 1 | | | | | |
| Х | Scrap | | Total Inactive | 0 | | | | | | | | | | |
| X | Donation | | Total Active | 13 | | | | | | | | | · | |
| X | Remove From Service | 1 1 | Total Number of Ships* | 13 | | | * This renres | ents the total | number of | vessels ore | ater than 1 | 500 aross to | one owned | hy NOAA |

National Oceanic and Atmospheric Administration – List of Vessels

APPENDIX I

National Science Foundation – List of Vessels

| National | Science Foundation - NSF | | | | | | | | | | | | | | |
|----------|------------------------------------|-------------------|------------------------|--------|-------|-----|-------------------------|---|---|-------------|--------------|--------------|-----------|-----------------|--|
| No | News | Tran | Vessel Destan | Status | Year | Age | Disposal Disposition | Avail for | Fiscal Year Removed from Service (Retirement) | | | | | D. (* | |
| No. | Name | Туре | Vessel Design | Status | Built | | | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | Retirement Year | |
| 1 | RV Sikuloaq | MT | Research Vessel | Active | 2012 | 7 | | | | | | | | 2044 | |
| 2 | RV Marcus Langseth | MT | Research Vessel | Active | 1991 | 28 | | | | | | | | 2030 | |
| | | | | | | | | | | | | | | | |
| | Legend | Disposition Summa | ry | | | | Pla | nned Rei | moval fro | om Servic | e Summa | ry | | | |
| MT | Merchant Type Vessel | | Retain | 0 | | | | Avail for Fiscal Year Removed from Service | | | | | | | |
| С | Combatant Vessel | | SINKEX | 0 | | | | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | | |
| Active | Operating/Readiness/Support status | | Foreign Military Sales | 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Inactive | Non-operating/Non-retention status | | Scrap | 0 | | | | | | | | | | | |
| Х | Foreign Military Sales | | Donation | 0 | | | | Changes to vessel disposition status and retirement dates are in bold | | | | | | | |
| Х | SINKEX | | TBD | 0 | | | | | | | | | | | |
| Х | Scrap | | Total Inactive | 0 | | | | | | | | | | | |
| X | Donation | | Total Active | 2 | | | | | | | | | | | |
| X | Remove From Service | | Total Number of Ships* | 2 | | | * This repres | ents the total | number of | vessels gre | ater than 1, | 500 gross to | ons owned | oy NSF | |

APPENDIX J

United States Coast Guard – List of Vessels

| United S | tates Coast Guard - USCG | | | | | | | | | | | | | | | |
|------------|--|----------|---|------------------|---------------|----------|---|----------------|-------------|--------------|--------------|--------------|--------------|---------------------------------------|--|--|
| No. | Name | Туре | Vessel Design | Status | Year | Age | Disposal | Avail for | | l Year Remo | | | | Retirement Year | | |
| | Midgett WHEC 726 | MT | High Endurance Cutter | Active | Built 1971 | 48 | Disposition | Disposal | FY 19 | FY 20 | FY 21 | FY 22 | FY 23 | TBD | | |
| | Mellon WHEC 717 | MT | High Endurance Cutter | Active | 1967 | 52 | | | | | | | | TBD | | |
| | Munro WMSL-724 | MT | High Endurance Cutter | Active | 1971 | 48 | | | | | | | | TBD | | |
| 4 | Polar Sea WAGB-11 | MT | Heavy Ice Breaker | Inactive | 1977 | 42 | Retain | | | | | | | TBD | | |
| 5 | Polar Star WAGB-10 | MT | Heavy Ice Breaker | Active | 1976 | 43 | | | | | | | | TBD | | |
| | Forward WMEC 911 | MT | Medium Endurance Cutter | Active | 1989 | 30 | | | | | | | | TBD | | |
| | Alex Haley WMEC-39 | MT | Medium Endurance Cutter | Active | 1968 | 51 | | | | | | | | TBD | | |
| | Bear WMEC 901 | MT | Medium Endurance Cutter | Active | 1980 | 39 | | | | | | | | TBD | | |
| | Escanaba WMEC 907 | MT MT | Medium Endurance Cutter | Active | 1985 1984 | 34 35 | | | | | | | | TBD TBD | | |
| 10 | Harriet Lane WMEC 903 Legare WMEC 912 | MT | Medium Endurance Cutter Medium Endurance Cutter | Active Active | 1984 | 30 | | | | | | | | TBD | | |
| | Mohawk WMEC 913 | MT | Medium Endurance Cutter | Active | 1989 | 30 | | | | | | | | TBD | | |
| | NorthlandWMEC 904 | MT | Medium Endurance Cutter | Active | 1982 | 37 | | | | | | | | TBD | | |
| | Seneca WMEC 906 | MT | Medium Endurance Cutter | Active | 1984 | 35 | | | | | | | | TBD | | |
| 15 | Spencer WMEC 905 | MT | Medium Endurance Cutter | Active | 1984 | 35 | | | | | | | | TBD | | |
| 16 | Tahoma WMEC 908 | MT | Medium Endurance Cutter | Active | 1987 | 32 | | | | | | | | TBD | | |
| | Tampa WMEC 902 | MT | Medium Endurance Cutter | Active | 1984 | 35 | | | | | | | | TBD | | |
| | Thetis WMEC 910 | MT | Medium Endurance Cutter | Active | 1986 | 33 | + | | | | | | | TBD | | |
| 19 20 | Campbell WMEC 909 | MT MT | Medium Endurance Cutter National Security Cutter | Active | 1986 | 33 | | | | | | | | TBD TBD | | |
| 20 | Kimball WMSL 756 Bertholf WMSL 750 | MT | National Security Cutter | Active Active | 2017 2006 | 13 | + | | | | | | | TBD | | |
| | Waesche WMSL 751 | MT | National Security Cutter | Active | 2008 | 15 | + | | | | | | | TBD | | |
| | Stratton WMSL 752 | MT | National Security Cutter | Active | 2000 | 9 | 1 | | | | | | | TBD | | |
| 24 | Hamilton WMSL 753 | MT | National Security Cutter | Active | 2013 | 6 | | | | | | | | TBD | | |
| 25 | James WMSL 754 | MT | National Security Cutter | Active | 2014 | 5 | | | | | | | | TBD | | |
| 26 | Munro WMSL-755 | MT | National Security Cutter | Active | 2015 | 4 | | | | | | | | TBD | | |
| 27 | Mackinaw WLBB-30 | MT | Heavy Ice Breaker | Active | 2005 | 14 | | | | | | | | TBD | | |
| | Healy WAGB-20 | MT | Medium Icebreaker | Active | 1997 | 22 | | | | | | | | TBD | | |
| | Barque EAGLE (WIX 327) | MT | Multi-Use Heritage | Active | 1936 | 83 | | | | | | | | TBD | | |
| | Juniper (WLB 201) Willow (WLB 202) | MT MT | Buoy Tender Seagoing | Active Active | 1995 1996 | 24 23 | | | | | | | | 2026 | | |
| | Kukui (WLB 202) | MT | Buoy Tender Seagoing Buoy Tender Seagoing | Active | 1990 | 23 | | | | | | | | 2020 | | |
| | Elm (WLB 204) | MT | Buoy Tender Seagoing Buoy Tender Seagoing | Active | 1998 | 21 | | | | | | | | 2027 | | |
| | Walnut (WLB 205) | MT | Buoy Tender Seagoing | Active | 1998 | 21 | | | | | | | | 2029 | | |
| 35 | Spar (WLB 206) | MT | Buoy Tender Seagoing | Active | 2000 | 19 | | | | | | | | 2031 | | |
| 36 | Maple (WLB 207) | MT | Buoy Tender Seagoing | Active | 2001 | 18 | | | | | | | | 2031 | | |
| | Aspen (WLB 208) | MT | Buoy Tender Seagoing | Active | 2001 | 18 | | | | | | | | 2031 | | |
| | Sycamore (WLB 209) | MT | Buoy Tender Seagoing | Active | 2001 | 18 | | | | | | | | 2032 | | |
| | Cypress (WLB 210) | MT | Buoy Tender Seagoing | Active | 2001 | 18 | | | | | | | | 2032 | | |
| | Oak (WLB 211) Hickory (WLB 212) | MT MT | Buoy Tender Seagoing | Active Active | 2002 2003 | 17 16 | | | | | | | | 2032 2033 | | |
| | Fir (WLB 213) | MT | Buoy Tender Seagoing Buoy Tender Seagoing | Active | 2003 | 16 | | | | | | | | 2033 | | |
| 43 | Hollyhock (WLB 214) | MT | Buoy Tender Seagoing Buoy Tender Seagoing | Active | 2003 | 16 | 1 | | | | | | | 2033 | | |
| | Sequoia (WLB 215) | MT | Buoy Tender Seagoing Buoy Tender Seagoing | Active | 2003 | 16 | 1 | 1 | | | | | | 2033 | | |
| | Alder (WLB 216) | MT | Buoy Tender Seagoing | Active | 2004 | 15 | | | | | | | | 2034 | | |
| | | | | | | | | | | | | | | | | |
| | Legend | | Disposition Summa | | | | | | | moval fro | | | · • | | | |
| | Merchant Type Vessel | | Retain | | | | | Avail for | | al Year | | | | | | |
| | Combatant Vessel | | SINKEX | | | | | Disposal | | | | | | | | |
| | Operating/Readiness/Support status | | Foreign Military Sales | | - | | | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Inactive | Non-operating/Non-retention status Foreign Military Sales | | Scrap Donation | 0 | | | | Changes to | vessel dier | nosition sto | tus and ro | tirement d | ates are in | hold | | |
| | | | Donation | | | | | Changes to | .casei uß | sosnon sta | anu re | cintiit u | aces are ill | | | |
| Х | SINKEX | | TBD | 0 | | | | | | | | | | | | |
| | Scrap | | Total Inactive | 1 | | | | | | | | | | | | |
| X | Donation Remove From Service | - | Total Active Total Number of Ships* | 44 45 | ł | | * 11 ' | | | | - 6 | 500 | | | | |
| А | Remove F10III SCIVICE | 1 | Total Number of Ships* | 43 | I | 1 | 1 nis repres | ents the total | number of | vessels gre | ater than 1, | 200 gross to | ons owned b | by USCG | | |
| CHANGES IN | VESSEL STATUS FROM THE PREVIOUS FISCAL YEAR | | | | 1 | | | | | | | | | | | |
| 1 | USS Oak Ridge | MT | Floating Dry-Dock | Active | 1944 | 75 | | | | | | | | Ridge was sold at vice in New Port | | |
| | | | | | | | News, VA. | | | | | , | | | | |
| | Sherman WHEC 720 | MT | High Endurance Cutter | Active | 1967 | 52 | | as transferred | | | y in August | of 2018 | | | | |
| | Midgett WHEC 726 | MT | High Endurance Cutter | Active | 1971 | 48 | | tirement date | - | | | | | | | |
| 4 | Mellon WHEC 717 | MT | High Endurance Cutter | Active | 1967 | 52 | | tirement date | | | | | | | | |
| | Munro WMSL-724 | MT | High Endurance Cutter | Active | 1971 | 48 | | tirement date | | | | 2019 | | | | |
| 6 | Vessels No. 29-45 | MT | | Active | I | | These vessels were added to the list of USCG vessels in FY-2018 | | | | | | | | | |