

CNA's Integrated Ship Database

Second Quarter 2012 Update

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Photo credit

"Description: (Cropped Version) An aerial view of the aircraft carriers USS INDEPENDENCE (CV 62), left, and USS KITTY HAWK (CV 63), right, tied up at the same dock in preparation for the change of charge during the exercise RIMPAC '98. Location: PEARL HARBOR, HAWAII (HI) UNITED STATES OF AMERICA (USA) The USS INDEPENDENCE was on its way to be decommissioned, it was previously home ported in Yokosuka, Japan. The crew from the USS INDEPENDENCE cross decked onto the USS KITTY HAWK and brought it back to Atsugi, Japan. The USS INDEPENDENCE was destined for a ship yard in Washington. Source: ID"DN-SD-00-01114 / Service Depicted: Navy / 980717-N-3612M-001 / Operation / Series: RIMPAC `98. Author: Camera Operator: PH1(NAC) JAMES G. MCCARTER," Jul. 17, 1998, WIKIMEDIA COMMONS, last accessed Dec. 20, 2012, at [http://commons.wikimedia.org/wiki/File:USS_Independence_\(CV-62\)_and_USS_Kitty_Hawk_\(CV-63\)_at_Pearl_Harbor_crop.jpg](http://commons.wikimedia.org/wiki/File:USS_Independence_(CV-62)_and_USS_Kitty_Hawk_(CV-63)_at_Pearl_Harbor_crop.jpg)

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Background

In December 2005, we published the first edition of the Center for Naval Analyses (CNA) Integrated Ship Database (ISDB) [1]. Our intent then, as now, was to bring together data on naval ships readily available from separate online government sources into a single combined database tool. We wanted to keep this integrated information current. We wanted to make it readily accessible for analysis and reporting. And finally, we wanted to be able to rapidly respond to requests from our sponsor¹, from other CNA research scientists and analysts, and from others in government as well.

Since 2005, we have published 25 quarterly updates [2–26]. They are all available online on the [Integrated Ship Database page](#) of CNA's website, www.cna.org [27].

In this CNA Interactive Software document, we present the update for the second quarter of calendar year 2012.

1. This work is being conducted as part of CNA's *Historic Fleet Employment Database Project*, sponsored by the Deputy Chief of Naval Operations for Operations, Plans and Strategy (N3/N5).

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Changes in this quarter's update

Routine update of source data





We modified the database to account for the changes in our three major data sources through the quarter. Our sources include: (1) the Naval Vessel Register (NVR) [28], the Military Sealift Command's (MSC's) Ship Inventory [29], and the Maritime Administration's (MARAD's) National Defense Reserve Fleet (NDRF) Inventory [30].

We obtained the data from NVR by email [31]; from MSC's Ship Inventory "Show changes" web site [32]; and from MARAD's monthly reports on the NDRF Inventory [33–35].

Accommodating MSC's realignment in the Status field

In January 2012, MSC announced an organizational realignment intended to improve its efficiency [36]. We have modified the ISDB accordingly. We have revised the Status field to reflect the changes in the lineup of MSC's mission-driven business programs. Table 1 shows the change in structure.

Table 1. MSC program realignment

Previous alignment		New alignment
Naval Fleet Auxiliary Force (NFAF)		Combat Logistics Force Service Support Program
Special Mission Program		Special Mission Program
Prepositioning Program		Prepositioning Program
Sealift Program		Sealift Program

Of the ships formerly in the Naval Fleet Auxiliary Force (NFAF), the underway replenishment ships (T-AOEs, T-AKEs, T-AEs, and T-AOs) now are assigned to the Combat Logistics Force.

Two hospital ships (T-AHs), four fleet ocean tugs (T-ATFs), and four salvage and rescue ships (T-ARSS) moved from the NFAF to the new Service Support Program.

Other ships re-assigned to the Service Support Program included two submarine tenders (ASs), one command ship(LCC), and one cable laying and repair ship (T-ARC) previously in the Special Mission Program.

The remaining ships in the Special Mission Program were: one missile range instrumentation ship (T-AGM), five ocean surveillance ships (T-AGOSs), six oceanographic survey and navigation test support ships (T-AGSs), and eight submarine and special warfare support vessels.

The compositions of the Prepositioning and Sealift Programs were unchanged in the realignment.

We noted these changes in the Status field in column G of the database worksheet. We indicated the MSC program in bracketed italics. The Status assignments in the Naval Vessel Register are shown in the unitalicized text. For example, the Status of USNS *Mercy* (T-AH 19) now reads:

Military Sealift Command (MSC) Naval Fleet Auxiliary
Force *{Service Support Program}*

And the Status of USS *Mount Whitney* (LCC 20) with its hybrid USN/ MSC crewing is now:

Active, in commission / Military Sealift Command (MSC)
{Service Support Program}.

Replacement of MARAD's PMARS hyperlinks with Ship History links

Two years ago, MARAD notified us that the web pages with individual ship history data under the Property Management & Archive Record

System (PMARS) would no longer be active online. Furthermore, we were told that the historical data would be made available in MARAD's redesigned web site.

Since that time, we retained the PMARS links in the field in column Q named "MARAD NDRF Program-Type / Status (PMARS Link)" for the historical record. In this update, we have removed the old PMARS links and replaced them with links to the new Ship History data pages.

We present two examples of MARAD's Ship History pages. Figure 1 displays the page for the former USS *Iowa*, a Battleship. Figure 2 shows the page for the former Fleet Oiler USNS *Shoshone*.

You can see from these two pages that the content varies substantially. The page for *Iowa* contains history, photos, and a link to the ship's Dictionary of American Fighting Ships (DANFS) page of the Naval History and Heritage Command (we include that link in our DANFS field in column R.)

In contrast, the page for *Shoshone* contains only photos and a link to MARAD's National Register Eligibility Assessment of the ship. An Eligibility Assessment is performed during the disposal process to determine whether a ship should be retained because of historic significance. Figure 3 is the first page of *Shoshone's* assessment report. We have added links to these reports in the field in column AF named "Additional Comments, References."

Figure 1. MARAD Ships History page for the former USS *Iowa* (BB 61)
http://www.marad.dot.gov/ships_shipping_landing_page/Ships_History/Iowa.htm [37])

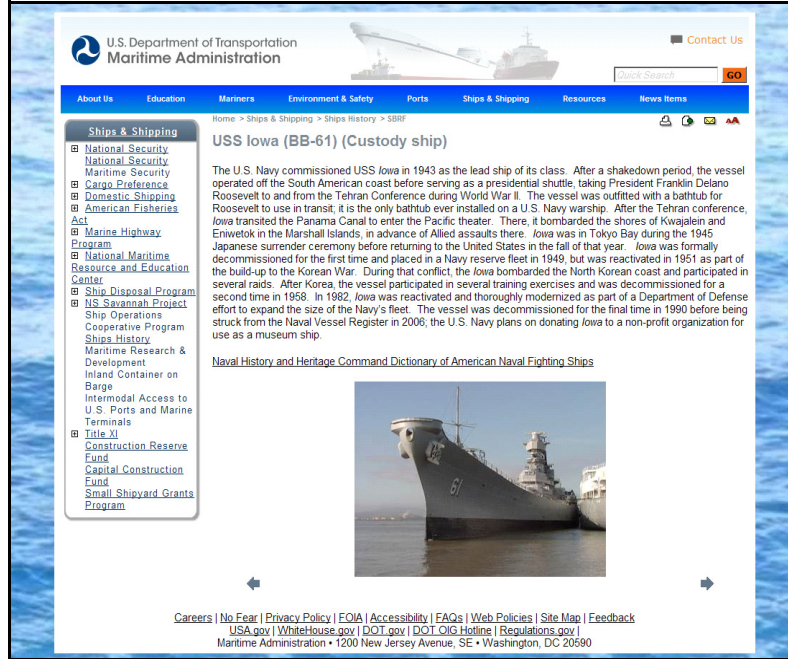


Figure 2. MARAD Ships History page for the former USNS *Shoshone* (T-AO 151)
http://www.marad.dot.gov/ships_shipping_landing_page/Ships_History/Shoshone.htm [38])

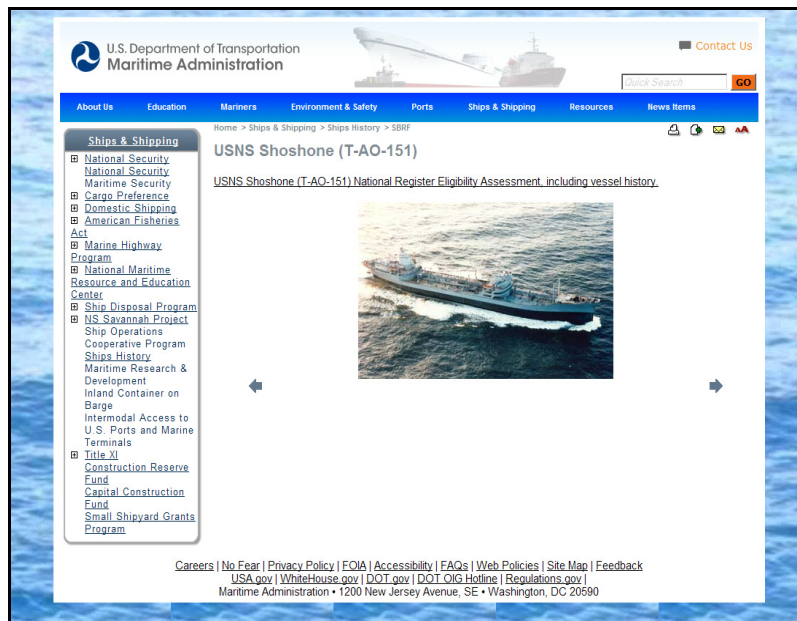


Figure 3. NHPA Eligibility Assessment Report for the former USNS *Shoshone* (T-AO 151) (http://www.marad.dot.gov/documents/Shoshone_NHPA_History.pdf [39])

**NATIONAL REGISTER ELIGIBILITY ASSESSMENT
VESSEL: USNS *Shoshone* (T-AO-151)**



USNS *Maumee*, the first ship of the class and a sistership of the USNS *Shoshone*. Maritime Administration photograph.

Vessel History

The product tanker USNS *Shoshone* (AOT-151) was built by Sun Shipbuilding and Dry Dock Company of Chester, Pennsylvania, and was the third of four *Maumee*-class tankers. The *Maumee* class was the first of the Navy's new "super tankers," which were significantly larger than previous classes.¹ Sun Shipbuilding produced the plans and specifications for the U.S. Navy's Bureau of Ships. The ships were also built in accordance with commercial practice under the supervision of the Maritime Administration, which gave it the designation T5-S-12a.² In keeping with the Navy's naming system, the vessels were named for American rivers: USNS *Maumee* (T-AO-149); USNS *Potomac* (T-AO-150); USNS *Shoshone* (T-AO-151); and USNS *Yukon* (T-AO-152).

The ships were designed and built to operate in a non-commissioned status by the Military Sea Transportation Service (MSTS),³ later the Military Sealift Command (MSC), with civilian crews

¹The era of "super-size" commercial tankers began in 1947 with the *Ulysses*, a 27,928 dwt (dead weight tonnage) tanker built by Welding Shipyards of Norfolk, Virginia. The *Ulysses* was the largest tanker in the world, approaching twice the size of its predecessors. In comparison, the *Shoshone* had a dwt of 26,940.

²This is the Maritime Administration's design classification. "T" signifies ship type, in this case a tanker, the "5" signifies the vessel's length, the "S" signifies machinery type, number of propellers, and under 12 passengers, and "12a" signifies the chronological design number and alteration, in other words version "a" of design 12.

³MSTS was a post-World War II combination of four predecessor government agencies that handled similar sealift functions. These included the Navy's Naval Transportation Service and Fleet Support Service, the Army Transport Service, and the War Shipping Administration of the United States Maritime Commission. In 1970, MSTS was renamed the Military Sealift Command (MSC).

Changes in the ship forces

SECNAVINST 5030.8A Battleforce increases to 286 ships

During the second quarter, the number of ships in the Battleforce as defined in SECNAVINST 5030.8A [40] increased from 282 to 286 ships [41]. Four ships were delivered to the Navy and MSC:

- USNS *Medgar Evers* (T-AKE 13) on April 24
- PCU *Mississippi* (SSN 782) on May 2
- PCU *Michael Murphy* (DDG 112) on May 4
- PCU *Fort Worth* (LCS 3) on June 6.

In addition, USS *Ponce* (LPD 15) underwent conversion to an interim Afloat Forward Staging Base between January and April. Its new ship type and hull number designation, AFSB(I) 15, became effective on March 31 [41].

Figure 4 shows the composition of the Battleforce at the end of the quarter by the classification scheme in the 5030.8A instruction. This figure comes directly from ISDB's QuikLook Pivot Table for the 5030.8A Battleforce.

We verified this count and these changes against the Navy Operations Center's "OPNOTES/Worldwide Navy Distribution" and "CNO's Current Ops Brief" products at [42].

SECNAVINST 5030.8A Non-Battleforce ship count at 55

During the second quarter the Navy's Non-Battleforce fleet was unchanged. The makeup of the force from our QuikLook_5030.8A_NonBattleForce pivot table is shown in figure 5. Our data are consistent with the Navy Ship Annual Supplemental Data Table (SASDT) of June 2012 [43].

NVR Ship Battle Forces at 286 ships

The composition of the Ship Battle Forces according to NVR's ship classification system as presented in ISDB's Quiklook_NVR Ship Battle Forces pivot table is shown in figure 6. The ships included here are the same as in the 5030.8A Battleforce. But the two ship

Figure 4. Composition of the 5030.8A Battleforce by ship classification and ship type

Count of Ship Name	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name	Total
5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name	Total
⊖ Battleforce	⊖ Combatant Ship	⊖ Warship/Aircraft Carrier	⊖ Conventional Take Off and Landing Aircraft Carriers/Multi-purpose Aircraft Carrier (nuclear-powered)			11
		Warship/Aircraft Carrier Total				11
		⊖ Warship/Surface Combatant	⊖ Cruisers/Guided Missile Cruiser			22
			⊖ Destroyers/Guided Missile Destroyer			62
			⊖ Frigates/Guided Missile Frigate			23
			⊖ Littoral Combat Ship/Littoral Combat Ship			3
		Warship/Surface Combatant Total				110
		⊖ Warship/Submarine	⊖ Attack Submarines/Submarine (nuclear-powered)			54
			⊖ Ballistic Missile Submarines/Ballistic Missile Submarine (nuclear-powered)			14
			⊖ Guided Missile Submarines/Guided Missile Submarine (nuclear-powered)			4
		Warship/Submarine Total				72
		⊖ Warship/Amphibious Warfare	⊖ Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (general purpose)			1
			⊖ Amphibious Helicopter and Landing Craft Carriers/Amphibious Assault Ship (multi-purpose)			8
			⊖ Amphibious Helicopter and Landing Craft Carriers/Amphibious Transport Dock			7
			⊖ Landing Craft Carriers/Dock Landing Ship			12
		Warship/Amphibious Warfare Total				28
		⊖ Other Combatant/Combat Logistics	⊖ Underway Replenishment/Fast Combat Support Ship			4
			⊖ Underway Replenishment/Ammunition Ship			1
			⊖ Underway Replenishment/Dry Cargo and Ammunition Ship			13
			⊖ Underway Replenishment/Oiler			15
		Other Combatant/Combat Logistics Total				33
		⊖ Other Combatant/Fleet Support	⊖ Command/Command Ship			2
			⊖ Fleet Ocean Tugs/Fleet Ocean Tugs			4
			⊖ Material Support/Submarine Tender			2
			⊖ Salvage Ships/Salvage Ships			4
			⊖ Surveillance/Surveillance			5
			⊖ Seabasing Support/Afloat Forward Staging Base (Interim)			1
		Other Combatant/Fleet Support Total				18
		⊖ Other Combatant/Mine Warfare Type Ships	⊖ Mine Countermeasures Ships/Mine Countermeasures Ship			14
		Other Combatant/Mine Warfare Type Ships Total				14
	Combatant Ship Total					286
Grand Total						286

Figure 5. Composition of the 5030.8A Non-Battleforce by ship classification and ship type

Count of Ship Name	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name	Total
5030.8A Force	5030.8A Ship Category	5030.8A Ship Classification	5030.8A Ship Type	Hull No.	Ship Name	Total
⊖ Non-Battleforce	⊖ Combatant Craft	⊖ Patrol Combatant	⊖ Patrol Ships/Patrol Coastal			13
	⊖ Auxiliary Ship	⊖ Auxiliary/Support Type Ship	⊖ Other Auxiliaries/Vehicle Cargo Ship			19
			⊖ Other Auxiliaries/Cargo Ship			11
			⊖ Other Auxiliaries/Oceanographic Research Ship			7
			⊖ Other Auxiliaries/Hospital Ship			2
			⊖ Other Auxiliaries/Missile Range Instrumentation Ship			1
			⊖ Other Auxiliaries/Cable Repairing Ship			1
			⊖ Other Auxiliaries/Transport Oiler			1
Grand Total						55

classification schemes are different. A comparison of the two systems can be found in the documentation accompanying the December 2011 ISDB update [25].

The display in figure 6 is new. It reflects the changes we made to account for the realignment of MSC business programs discussed earlier.

NVR Local Defense and Miscellaneous Support Forces at 113 ships

According to the NVR's classification scheme, ships not in the Ship Battle Forces may fall into its Local Defense and Miscellaneous Support Forces organization. The ships in these Forces include the ships in the 5030.8A Non-Battleforce. And they include ships in the Ready Reserve Force, reported in MARAD's National Defense Reserve Fleet Inventory reports. Figure 7 shows the makeup of these forces from our Quiklook_NVRLocDef&MiscSptForce pivot table.

A note on MSC Ship Inventory changes

During the quarter, the MSC added three vessels to its Ship Inventory:

- USS *Ponce* (AFSB(I) 15)
- USNS *Guam* (HST 1)
- USNS *Puerto Rico* (HST 2)

USS *Ponce* was added to the MSC Ship Inventory as it will be crewed by a combination of Active USN personnel and MSC civilian mariners.

The two High Speed Transports, USNS *Guam* and USNS *Puerto Rico*, were added to MSC's Service Support Program.

Figure 6. Composition of the NVR Ship Battle Forces

Count of Ship Name NVR Force	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total			
Battle Force	Active	Active, in commission	CG Guided Missile Cruiser			22			
			CVN Multi-Purpose Aircraft Carrier (Nuclear-Propulsion)			11			
			DDG Guided Missile Destroyer			61			
			FFG Guided Missile Frigate			15			
			LCC Amphibious Command Ship			1			
			LCS Littoral Combat Ship			2			
			LHA Amphibious Assault Ship (General Purpose)			1			
			LHD Amphibious Assault Ship (Multi-Purpose)			8			
			LPD Amphibious Transport Dock			6			
			LSD Dock Landing Ship			12			
			MCM Mine Countermeasures Ship			14			
			SSBN Ballistic Missile Submarine (Nuclear-Powered)			14			
			SSGN Guided Missile Submarine (Nuclear-Powered)			4			
			SSN Submarine (Nuclear-Powered)			53			
			Active, in commission Total						224
Military Sealift Command, Contract Operated	Active, in service	Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Combat Logistics Force)	T-AE Ammunition Ship			1			
			T-AO Oiler			15			
			T-AOE Fast Combat Support Ship			4			
			T-AKE Dry Cargo and Ammunition Ship			13			
			Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Combat Logistics Force) Total						33
			Active, in commission / Military Sealift Command (MSC)	Active, in commission / Military Sealift Command (MSC) (Service Support Program)	Active, in commission / Military Sealift Command (MSC) (Service Support Program)	LCC Amphibious Command Ship			1
AFSB Afloat Forward Staging Base Interim						1			
Active, in commission / Military Sealift Command (MSC) (Service Support Program) Total						2			
Mobilization Cat. A	Naval Reserve Force, Active	Naval Reserve Force, Active	FFG Guided Missile Frigate			8			
			Naval Reserve Force, Active Total						8
Support Force	Military Sealift Command, Contract Operated	Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)	T-ARS Salvage Ship			4			
			T-ATF Fleet Ocean Tug			4			
			Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program) Total						8
			Military Sealift Command (MSC), Special Mission Ships (Special Mission Program)			T-AGOS Ocean Surveillance Ship		5	
			Military Sealift Command (MSC), Special Mission Ships (Special Mission Program) Total						5
			Active, in commission / Military Sealift Command (MSC) (Service Support Program)	Active, in commission / Military Sealift Command (MSC) (Service Support Program)	Active, in commission / Military Sealift Command (MSC) (Service Support Program)	AS Submarine Tender			2
Active, in commission / Military Sealift Command (MSC) (Service Support Program) Total						2			
Grand Total						288			

Figure 7. Composition of the NVR Local Defense & Miscellaneous Support Forces

Count of Ship Name	Status Group	Status	NVR Type	Hull No. (NVR Link)	Ship Name	Total
⊖ Auxiliary	⊖ Active	⊖ Active, in commission	⊖ PC Patrol Coastal			13
		Active, in commission Total				13
	⊖ Military Sealift Command, Contract	⊖ Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)	⊖ T-ARC Cable Repairing Ship			1
		Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program) Total				1
		⊖ Military Sealift Command (MSC), Special Mission Ships (Special Mission Program)	⊖ T-AGS Surveying Ship			7
			⊖ T-AGM Missile Range Instrumentation Ship			1
		Military Sealift Command (MSC), Special Mission Ships (Special Mission Program) Total				8
⊖ Strategic Sealift	⊖ Military Sealift Command, Contract	⊖ Military Sealift Command (MSC), in service, contract operated (Prepositioning Program)	⊖ T-AK Cargo Ship			11
			⊖ T-AKR Vehicle Cargo Ship			9
			⊖ T-AOT Transport Oiler			1
		Military Sealift Command (MSC), in service, contract operated (Prepositioning Program) Total				21
		⊖ Military Sealift Command (MSC), in service, contract operated (Sealift Program)	⊖ T-AKR Vehicle Cargo Ship			10
		Military Sealift Command (MSC), in service, contract operated (Sealift Program) Total				10
		⊖ Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program)	⊖ T-AH Hospital Ship			2
		Military Sealift Command (MSC) Naval Fleet Auxiliary Force (Service Support Program) Total				2
	⊖ Special, Miscellaneous	⊖ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)	⊖ AK Cargo Ship			4
			⊖ AG Miscellaneous			1
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program) Total				5
		⊖ Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Sealift Program)	⊖ AK Cargo Ship			2
		Special, chartered by MSC, listed here as part of the U.S. Navy Ship Forces. (Sealift Program) Total				2
		⊖ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program)	⊖ AVB Aviation Logistic Support Ship			2
		Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Prepositioning Program) Total				2
		⊖ Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Sealift Program)	⊖ ACS Auxiliary Crane Ship			6
			⊖ AK Cargo Ship			2
			⊖ AKR Vehicle Cargo Ship			37
			⊖ AOT Transport Oiler			1
		Special, MARAD titled ship, assigned to the Ready Reserve Force (RRF), listed here as part of the U.S. Navy Ship Forces. (Sealift Program) Total				46
	⊖ Disposed	⊖ Disposed of by Navy title transfer to the Maritime Administration	⊖ AOT Transport Oiler			3
		Disposed of by Navy title transfer to the Maritime Administration Total				3
Grand Total						113

Glossary

ISDB	Integrated Ship Database
HST	High Speed Transport
MARAD	Maritime Administration
MSC	Military Sealift Command
NDRF	National Defense Reserve Fleet
NFAF	Naval Fleet Auxiliary Force
NHPA	National Historic Preservation Act of 1966
NVR	Naval Vessel Register
PCU	Pre-Commissioning Unit
PMARS	Property Management and Archive Record System
SASDT	Ship Annual Supplemental Data Table
SECNAVINST	Secretary of the Navy Instruction
USNS	United States Naval Ship
USS	United States Ship

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