

United States General Accounting Office Report to Congressional Requesters

October 1991

STRATEGIC SEALIFT

Part of the National Defense Reserve Fleet Is No Longer Needed





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United States General Accounting Office Washington, D.C. 20548

National Security and International Affairs Division

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October 7, 1991

The Honorable Walter B. Jones Chairman, Committee on Merchant Marine and Fisheries House of Representatives

The Honorable Ron Wyden Chairman, Subcommittee on Regulation,

Business Opportunities, and Energy Committee on Small Business House of Representatives

The Honorable William S. Broomfield House of Representatives

As requested we reviewed the National Defense Reserve Fleet's viability as a national sealift asset and evaluated several aspects of the Maritime Administration's management of the fleet. Our report addresses the changing character of this fleet and its contribution in deploying and sustaining U.S. troops during the recent Persian Gulf crisis. Also addressed are the revenue implications of the domestic and foreign scrapping of Reserve Fleet ships and the administration's maintenance and management practices with respect to the fleet's older, less-ready portion. We present matters for congressional consideration and recommendations whose aim is to ensure that the Reserve Fleet continues to be a viable sealift asset.

We are sending copies of this report to the Chairmen, Senate and House Committees on Armed Services; the Administrator of the Maritime Administration; and the Secretaries of Defense, Navy, and Transportation. Copies will also be made available to others upon request.

Please contact me on (202) 275-6504 if you or your staff have any questions concerning this report. Major contributors to this report are listed in appendix IV.

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Martin M Ferber Director, Navy Issues

Executive Summary

Purpose	Reserve Fleet as the cerned about the com management by the I Committee on Merch mittee on Regulation mittee on Small Busin requested a GAO revie GAO's report addresse Defense Reserve Flee U.S. troops during th cations of the domest and (3) the activation Reserve Fleet as well	have described part of the National Defense "ghost fleet" and its ships as "rust buckets." Con- tinued utility of the Reserve Fleet and its overall Maritime Administration, the Chairman, House ant Marine and Fisheries, the Chairman, Subcom- Business Opportunities, and Energy, House Com- ness, and the Honorable William S. Broomfield ew. es (1) the changing character of the National et and its contribution in deploying and sustaining e recent Persian Gulf crisis; (2) the revenue impli- tic and foreign scrapping of Reserve Fleet ships; n capability of the older, less-ready portion of the as the Maritime Administration's maintenance and cractices with respect to these ships.
Background	 One component—the are routinely mainta days. The Maritime A ships. The other component class ships built duri time in reserve statu, than RRF ships and w between 30 and 120 	e Reserve Fleet is divided into two components. Ready Reserve Force (RRF)—includes 96 ships that ned so that they could be activated in 5, 10, or 20 Administration budgets about \$225 million for RRF (the non-RRF) consists of 116 ships: 71 Victory- ng World War II and 45 others of varying age and s. The non-RRF ships receive far less maintenance ould require much longer activation times— days. The Maritime Administration spends about \$2 in these ships. Some of them are being held for for other programs.
	Because of their phy referred to as "rust b oped a plan to gradu ment of Defense (DOI	sical appearance, the non-RRF ships are often buckets." The Maritime Administration has devel- ally scrap them over the next decade. The Depart- b) is continuing to study total sealift requirements. Intinued usefulness of the non-RRF ships are the
Results in Brief	Persian Gulf war, bu	apabilities were severely strained during the recent t the non-RRF ships were not used during this crisis. der, less-ready ships are no longer needed, given the
	Page 2	GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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	Executive Summary
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	availability and capability of other, quicker-response sealift assets (including the ships in the RRF).
	GAO estimates that scrapping the obsolete Reserve Fleet ships could (1) save about \$10 million in direct maintenance costs over the next 10 years and (2) generate an estimated \$38 million to \$42 million to improve the RRF if the ships were sold to the highest foreign or domestic bidders. Legislation pending before Congress that would limit the sale of Reserve Fleet ships (built before 1946) to domestic scrapping companies would lower these revenue estimates.
	Despite the non-RRF ships' physical appearance, they could probably be activated. However, GAO believes that these ships need to be better maintained and managed if they are to be relied on as viable sealift assets.
Dringing Finding	
Principal Findings	···
Principal Findings Questionable Need for All Reserve Ships	Although the recent U.S. deployment to Saudi Arabia during the Persian Gulf crisis was the largest concentrated sealift activity since World War II, the non-RRF ships in the Reserve Fleet were not used. These ships were excluded because of (1) the lack of indication that there would be enough time to activate and use them; (2) their relatively small size, slow speed, and long unloading times compared with other ships used; and (3) the ready availability of privately owned U.S. and foreign com- mercial ships.

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GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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Executive Summary

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GAO's review of sale records shows that domestic firms usually bid con- siderably lower than foreign firms and that limiting future sales to domestic firms would substantially reduce sale proceeds. GAO's esti- mated impact for scrapping most non-RRF ships was calculated antici- pating the foreign scrapping firms' higher bids.
Assisted by marine surveyors from the American Bureau of Shipping and the Maritime Administration, GAO conducted physical inspections of selected non-RRF ships. It found that while their appearance was poor, the ships could probably be activated if necessary. But GAO's inspections and a review of ship records also indicated that the Maritime Adminis- tration had not made necessary repairs or performed enough preventive maintenance.
Although corrective actions to remedy maintenance deficiencies were recommended by independent marine surveyors in 1983 and Maritime Administration personnel in 1985, effective actions have not been taken to correct such conditions. Officials cited the less-ready ships' historic lack of funding and lower priority compared with RRF ships as the prin- cipal reasons corrective actions were not taken.
The Maritime Administration also does not have formal plans or arrangements to obtain crews for the non-RRF ships as it does for the RRF. Crews would be hired at the time the ships were activated; how- ever, crew member availability depends on many factors, such as the time required to activate the ships and the individual mariner's willing- ness to serve when needed. Current crew member data is both inaccu- rate and insufficient to establish crew availability at any given time.
GAO did not predict the amount of the increased cost to correct these conditions.
While the non-RRF ships could probably be activated in a national emer- gency, it appears that they are neither technologically suitable nor likel to be activated and operated efficiently enough to justify their con- tinued retention. Therefore, Congress should consider directing the Mar itime Administrator to scrap most of the non-RRF ships as soon as practicable and use the sale proceeds to enhance the RRF. In its consider ation, Congress should take into account the significant difference between the amount of revenue likely to be generated from the sale of non-RRF ships to domestic and foreign scrapping companies.

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GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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	Executive Summary	
	Executive Summary	
	If Congress decides that the non-RRF ships should continue to be gradu- ally phased out, the Maritime Administrator should be directed to improve the ships' maintenance and management. GAO has not estimated the additional costs that would be necessary to better maintain these ships, but Congress will need to consider the increased costs' likely impact on the overall Reserve Fleet's budget. Without a budget increase additional funds spent improving the non-RRF ships would likely reduce the resources available to the RRF.	
Recommendations	GAO makes specific recommendations to the Maritime Administrator in chapter 4 directed at making the Reserve Fleet a viable sealift asset if Congress decides that the non-RRF ships should continue to be gradually phased out.	
Agency Comments	Both DOD and the Maritime Administration commented on GAO's draft report (see app. II and III). Although neither agency disagreed with the facts in this report, both felt that GAO's suggestion to accelerate the planned scrapping of the ships was premature. The agencies said that such a decision should be made only after completion of the Defense Department's Mobility Requirements Study.	
	The Maritime Administration plans to sell the non-RRF ships over the next decade. Legislation pending in Congress would direct the acceler- ated sale of the non-RRF ships. GAO does not believe the existence of an ongoing Mobility Requirements Study justifies a delay in deciding to accelerate scrapping the non-RRF ships. The Mobility Study is already 7 months overdue and, according to a Defense Department official, is not designed to identify specific requirements for non-RRF ships.	
	The Maritime Administration said it would take corrective actions in response to GAO's recommendations and stated that many of these improvements could be done without an increase in funds. If properly implemented, these actions should give considerably more assurance that the ships will be a viable strategic sealift asset. It is still not clear, however, that the Maritime Administration has made a commitment to keeping the non-RRF ships properly dehumidified.	

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4

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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Contents

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Executive Summary			2
Chapter 1 Introduction	Management and Utilization of the Fleet Ship Disposal Congressional Concern Objectives, Scope, and Methodology Congressional Hearings	÷.	8 10 11 11 11 13
Chapter 2 Non-RRF Ships Are No Longer Needed	Improvements in Sealift Capabilities Persian Gulf War Experience Questionable Need for Non-RRF Ships Accelerated Scrapping of Non-RRF Ships Matters for Congressional Consideration Agency Comments and Our Evaluation		14 14 15 16 17 17
Chapter 3 Domestic Scrapping Would Limit Sale Proceeds	Pros and Cons of Domestic-Only Scrapping MARAD's Unrestricted Sale Proceeds Agency Comments and Our Evaluation		20 20 21 22
Chapter 4 Non-RRF Ships Could Be Activated, but MARAD's Management Practices Are Weak	Successful Activation of Non-RRF Ships Dehumidification Requirement Spare Parts Uncertain Crew Availability for Non-RRF Ships Weak Ship Disposal Processes Matters for Congressional Consideration Recommendations Agency Comments and Our Evaluation		23 23 27 31 33 36 37 37 38
Appendixes	 Appendix I: MARAD's Management of the 510(i) Ship Exchange Program Appendix II: Comments From the Maritime Administration Appendix III: Comments From the Department of Defense Appendix IV: Major Contributors to This Report 		40 43 53 56

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

Contents

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Tables	Table 1.1: Reserve Fleet Inventory as of May 31, 1991	9
	Table 2.1: Strategic Sealift Assets Available as of August 7, 1990	15
	Table 2.2: Sealift Assets Used in Persian Gulf War	16
•	Table 3.1: Comparison of Revenue Gained From Foreign and Domestic Scrapping	21
Figures	Figure 1.1: Rusty Non-RRF Ships at the James River Fleet Site	10
	Figure 4.1: Non-RRF Victory Ship: Before Activation	25
	Figure 4.2: Non-RRF Victory Ship: After Activation	26
	Figure 4.3: Hole in Dehumidifier Exhaust Pipe	29
	Figure 4.4: Water on Floor in Emergency Generator Room	30

Abbreviations

DOD	Department of Defense
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GAO General Accounting Office

MARAD Maritime Administration

Non-RRF Non-Ready Reserve Force

RRF Ready Reserve Force

Page 7

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

Introduction

The Merchant Ship Sales Act of 1946 created a government-owned and administered National Defense Reserve Fleet of inactive but potentially useful merchant ships. The Reserve Fleet was created to provide a surge capability to meet national emergency shipping requirements. In 1976, the Reserve Fleet was separated into two parts: (1) a Ready Reserve Force (RRF) consisting of ships maintained in a more-ready condition to meet more immediate shipping requirements and (2) a less-ready component of ships preserved and retained at very little government expense. This non-Ready Reserve Force (non-RRF) is the principal focus of this report.

The Maritime Administration (MARAD) maintains custody of the Reserve Fleet ships. Over the years, reserve ships have been activated during emergencies, including the conflicts in Korea and Vietnam. For example, 40 percent of the materiel moving to Vietnam in 1967 was transported by ships of the Reserve Fleet. Most recently, 78 of the 96 ships in the RRF were activated to assist in sending and resupplying U.S. troops in Saudi Arabia after Iraq invaded Kuwait. With the exception of two ships that were test-activated in 1985, none of the non-RRF ships has been activated since the Vietnam War.

At one time over 2,000 Reserve Fleet ships were stored at eight different anchorages along the Atlantic, Gulf, and Pacific coasts. Since 1946, a large number of these ships have been sold for scrap, traded for other vessels, or used for purposes not related to transportation. Table 1.1 shows that as of May 31, 1991, the total number of Reserve Fleet ships was down to 212—96 RRF and 116 non-RRF ships.

Table 1.1: Reserve Fleet Inventory as ofMay 31, 1991

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Type of ship	RRF	Non-RRF	Total
Dry cargo			
Break-bulk ^a	51	93 ^b	144
Auxiliary crane	8	2	10
Roll-on/roll-off	17	0	17
Barge carrier	4	0	4
Heavy lift	3	2	5
Other	0	4	4
Subtotal	83	101	184
Tankers '	· 11	12	23
Troopships	2	3	5
Total	96	. 116°	212

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^aShips with conventional storage for noncontainerized general cargo.

^bIncludes 71 Victory ships.

°Includes 22 ships held for upgrade or other designated purposes.

The RRF was created in 1976 to improve the overall readiness of the Reserve Fleet. RRF ships are maintained so that they can be activated in 5, 10, or 20 days at predesignated shipyards, repair facilities, or ports, without the need for dry-docking or more expensive repairs (which would be necessary for the other Reserve Fleet ships). These ships are located at Reserve Fleet sites in James River, Virginia; Beaumont, Texas; Suisun Bay, California; and at various other locations (mainly in the United States).

The 116 non-RRF ships include 71 Victory ships, 3 ships built before 1946, and 42 others acquired at later dates. These ships are kept in a much less-ready status than the RRF ships and, according to MARAD, would require from 30 to 120 days to activate. Because these ships receive very little exterior maintenance, they are quite rusty. This portion of the Reserve Fleet has been dubbed the "ghost fleet" and the ships themselves "rust buckets" by members of Congress and the press. As of May 31, 1991, most of the non-RRF ships were anchored at three Reserve Fleet sites located in James River, Virginia (39 ships); Beaumont, Texas (25 ships); and Suisun Bay, California (44 ships). Figure 1.1 shows some of the rusty non-RRF ships anchored at the James River, Virginia, site. Chapter 1 Introduction



Figure 1.1: Rusty Non-RRF Ships at the James River Fleet Site

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Management and Utilization of the Fleet

MARAD, under the Department of Transportation, is responsible for the preservation and maintenance of Reserve Fleet ships. In consultation with the Department of the Navy, MARAD retains those ships that are determined to have a national defense purpose and disposes of those that are no longer militarily useful. During military emergencies, Reserve Fleet ships are activated at the request of the Department of Defense (DOD), assigned to the Military Sealift Command, and operated by private ship-operating firms. These firms are responsible for overseeing repairs, providing crews and stores, and, in general, performing those duties necessary to maintain a vessel in active status.

The RRF budget for fiscal year 1991 is about \$225 million. This budget provides for additions, replacements, and upgrades of RRF ships, as well as for maintenance facilities and ship maintenance and operation. The Navy's plan is to increase the number of RRF ships to 142 by 1994 in order to meet its current sealift surge capacity requirements.¹

The cost to preserve the non-RRF ships is relatively small. For example, the non-RRF ships' fiscal year 1991 budget is only about \$7 million, about \$2 million of which is for direct costs to provide for ship preservation. The ships' interiors, including all their machinery, are to be kept dehumidified, and their hulls are to be provided cathodic protection (which also prevents deterioration). DOD and MARAD officials have continued to justify keeping the non-RRF ships for three main reasons: (1) the ships

¹This plan could change depending on an overall Mobility Requirements Study that is currently being conducted by DOD. The study will identify likely scenarios that place demands on lift assets and define alternative lift methods to meet requirements in the year 1999.

Chapter 1 Introduction

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	could help make up for shortfalls in U.S. sealift capability; (2) they would become necessary as fillers if there were a prolonged global war with heavy shipping losses (such as in World War II); and (3) their gradual sale as scrap metal provides additional funds that are used to help expand and maintain the Reserve Fleet.
Ship Disposal	The Reserve Fleet's size has steadily decreased as older ships have been sold for scrap and others have been given to state governments (for use as artificial reefs), nonprofit organizations, and the Navy (for target practice). Since 1977, section 510(i) of the Merchant Marine Act, 1936, as amended (46 app. U.S.C.1160 (i)), has been a primary method used to dispose of older ships and acquire newer, larger ships for the Reserve Fleet. (More information on this program is provided in app. I.) Until recently, this legislation authorized the Secretary of Transportation to acquire newer vessels in direct exchange for obsolete Reserve Fleet ves- sels at their respective scrap values. Because this simultaneous exchange may not have fully maximized the return to the government, section 510(i) was amended in November 1990. MARAD is now authorized by law (P.L. 101-595) to acquire suitable vessels with funds derived from the sale of obsolete reserve vessels. The previous requirement of a ship exchange is no longer applicable, and now the Secretary of Trans- portation can sell scrap vessels when prices are high and later use the funds at the most opportune time to acquire militarily useful vessels for the Reserve Fleet.
Congressional Concern	In June 1990, we were asked to review the Reserve Fleet program because Congress had become increasingly concerned over the overall management and continued military usefulness of the non-RRF ships. Also, during the last congressional session, legislation was introduced that would require all Reserve Fleet ships built prior to 1946 to be scrapped domestically. Although this legislation was not passed, similar legislation was reintroduced in the current congressional session.
Objectives, Scope, and Methodology	Our review addressed the changing character of the Reserve Fleet and its contribution in deploying and sustaining U.S. troops during the recent Persian Gulf crisis; sought to determine whether the non-RRF ships were in the physical condition necessary to be considered viable sealift assets; and assessed MARAD's managerial practices to determine whether they were conducive to ensuring the viability of the non-RRF portion of the National Defense Reserve Fleet. Specific objectives were

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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to (1) ascertain the criteria used to retain ships in the Reserve Fleet, (2) determine the effect of domestically scrapping reserve ships, and (3) evaluate MARAD's administration of its Ship Exchange Program.

We gathered and evaluated data concerning the domestic scrapping of excess Reserve Fleet ships and examined the likely impact of these ships' being required to be scrapped domestically.

To assess the viability of the non-RRF ships as a military asset, we examined (1) the overall condition of the ships, (2) the availability of spare parts, and (3) the likely availability of crew members.

As an aid to determining the overall condition of the non-RRF ships, we reviewed MARAD ship files and interviewed region and fleet office officials. We also obtained individual ship condition information from a 1983 marine survey of the Victory ships—the "Victory Ship Validation Study." In addition, we reviewed a 1985 report on the congressionally mandated test activation of two Victory ships.

To obtain more current information on the condition of the Victory ships, we conducted physical inspections of 18 ships. The ships we selected comprised (1) those ships with the highest humidity readings or the highest number of specific deficiencies (as cited in the validation study) and (2) those with few or no deficiencies. Because of the costs involved, the condition of the hulls and the internal machinery was not analyzed in the validation study and, subsequently, in our review.

Independent marine surveyors from the American Bureau of Shipping, an international ship classification society that establishes standards for the design, construction, and periodic survey of merchant vessels and other marine structures, assisted us with the physical survey at each fleet site. We accompanied these surveyors on each ship and asked them to comment on the significance of specific deficiencies listed in the validation study. We also asked their opinions on (1) whether the condition of the ships had become worse since the original study, (2) what the impacts of high humidity levels were, and (3) how these conditions would effect activation of the ships.

In addition, we inspected six other ships (not Victory ships), two at each fleet site. To determine the condition of these ships, we reviewed individual ship files and questioned MARAD's marine surveyors who accompanied us on our inspections. The ships we inspected were selected in

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·	Chapter 1 Introduction
	consultation with MARAD's fleet site officials as representing the best and the worst of the other non-RRF ships at each fleet site.
•	To determine the availability of shipboard spare parts, we evaluated the fleet's spare parts reports and tested the accuracy of inventory records where applicable. For shore-based spare parts, we determined whether MARAD had current inventory records and tested their accuracy.
	To determine the likely availability of crews for non-RRF ship activa- tions, we interviewed various maritime labor union officials and govern- ment officials of the U.S. Coast Guard, the Federal Communications Commission, and MARAD.
	We reviewed MARAD's ship disposal procedures to determine whether (1) periodic assessments of the ships' condition were performed, (2) current information on the ships' condition was maintained and used in management decisions, (3) criteria for ship disposal had been developed, and (4) written procedures or policies for the removal of parts or equipment prior to ship disposal were available and followed.
	MARAD's administration of aspects of its Ship Exchange Program were also evaluated on the basis of transactions between fiscal years 1980 and 1990 during which scrapped ships were exchanged for newer, mili- tarily useful ships no longer needed by their owners.
	Our review was performed between June 1990 and May 1991 in accordance with generally accepted government auditing standards.
Congressional Hearings	A joint hearing on the status of the non-RRF ships was conducted by the Subcommittee on Merchant Marine, House Committee on Merchant Marine and Fisheries, and the Subcommittee on Regulation, Business Opportunities, and Energy, House Committee on Small Business, on July 11, 1991. GAO and MARAD testimony at that hearing covered most of the information contained in our June 25, 1991, draft report. Our report has been updated to reflect additional information from that hearing and material subsequently submitted for the record. ²

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²Part of the National Defense Reserve Flect Is No Longer Needed (GAO/T-NSIAD-91-44, July 11, 1991).

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GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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Non-RRF Ships Are No Longer Needed

	 The utility of DOD's sealift capability expenditures during the 1980s was clearly demonstrated during the recent deployment of U.S. forces to the Persian Gulf, which resulted in the largest concentrated sealift activity since World War II. However, the non-RRF ships were not needed or used during this crisis. Given the increased capabilities of other, quicker-response types of sealift assets, including the RRF, the non-RRF ships are no longer needed. This chapter discusses scrapping the non-RRF ships as soon practicable and applying the proceeds from their sale—currently estimated at about \$38 million to \$42 million—to expand the RRF.
Improvements in Sealift Capabilities	 During the 1980s DOD spent over \$7 billion to improve military sealift capabilities. These expenditures provided funding for improvements or expansions of government-owned or controlled sealift assets. Key increases in sealift capabilities were as follows: A 25-ship prepositioned force (costing almost \$4.2 billion) was deployed. This force includes 13 Maritime Prepositioning Ships, which are grouped into three squadrons. Each squadron is capable of equipping and supplying a Marine Expeditionary Brigade of about 16,500 combat Marines. Another 12 ships constitute the Afloat Prepositioning Ships, which carry Army and Air Force equipment and supplies and a Navy field hospital. Supplies from some of these ships were the first to arrive in Saudi Arabia during the Persian Gulf crisis. Eight Fast Sealift Ships (about \$827 million) were added. These ships are large, fast, converted container ships modified to a roll-on/roll-off configuration and especially suited to transport Army unit equipment such as tanks, large vehicles, and helicopters. They are maintained in a reduced operating status with a partial crew, allowing activation in 4 days or less. Two aviation logistics support ships¹ and two hospital ships were added, and 10 crane ships (about \$717 million) were converted. The two aviation logistics support ships provide equipment and support for the maintenance of U.S. Marine Corps fixed and rotary wing aircraft. These ships can be activated in 5 days. The two hospital ships are large, acute-care
v	medical facilities that were converted from commercial tankers. Each ship is capable of being activated in 5 days. The crane ships, part of the

¹These ships are technically considered part of the non-RRF and were activated for the Persian Gulf war. However, because of their 5-day availability and modernization in the late 1980s, we do not consider them representative of the much older ships in the non-RRF.

	Chapter 2 Non-RRF Ships Are No Longer Needed	
	 RRF with activation expectations of 5 days, can provide mobile los and off-loading capabilities for non-self-sustaining container ship The RRF was expanded to 96 ships (about \$1 billion). The increase accomplished by the direct purchase of ships no longer needed by mercial ship operators, the exchange of scrap Reserve Fleet ships obsolete commercial ships, and the acquisition of ships formerly ated by the Navy. 	es. e was 7 com- s for
· · · · · · · · · · · · · · · · · · ·	Table 2.1 shows the government-owned or government-chartered tegic sealift assets that were available to DOD on August 7, 1990, whe President decided to send troops to Saudi Arabia in response Iraq's invasion of Kuwait.	when
Table 2.1: Strategic Sealift Assets Available as of August 7, 1990		
Available as of August 7, 1990	Type of ship	Numb
	Maritime prepositioning	
	Afloat prepositioning Fast sealift	
	Ready reserve force	
	Non-RRF ships	1
	Total	24
	Source: Data extracted from various DOD and MARAD reports.	
Persian Gulf War Experience	As a result of the Iraqi invasion of Kuwait and the U.S. and inter- tional response that followed, our sealift capabilities were given a matic practical test. According to the Military Sealift Command, a April 15, 1991, 10 million tons of cargo had been shipped to the P Gulf. The ships utilized for this massive operation, as shown in ta were chartered from U.S. and foreign-flag commercial operators of vated from our own organic sealift assets.	a dra- as of Persiar able 2.1

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Table 2.2:	Sealift	Assets	Used	in	Persian
Gulf War					

Type of ship	Number
Maritime prepositioning	13
Afloat prepositioning	12
Fast sealift	. 8
Aviation logistics/hospital ships	4
Controlled fleet ships	24
Ready reserve force	74
Newly chartered ships ^a	212
Allied ships on loan	12
Total	359

^aIncludes 180 foreign ships and 32 U.S. ships.

Although the U.S. deployment to the Persian Gulf was the largest concentrated sealift activity since World War II, the non-RRF portion of the Reserve Fleet was not needed. These ships were excluded primarily because of (1) the lack of indication that there would be enough time to activate and use them; (2) their relatively small size, slow transit speeds, and long off-loading times compared with RRF and other ships used; and (3) the ready availability of U.S. and foreign-flag commercial ships. Such factors raise questions about when non-RRF ships would ever be needed.

Questionable Need for Non-RRF Ships According to DOD officials, there is still a requirement that the United States have a combined airlift and sealift capability to deploy and resupply a multidivisional armed force, without allied assistance, in response to a major regional conflict. However, because of the non-RRF's limitations, it is difficult to envision when that portion of the Reserve Fleet would be needed.

> In a sudden regional conflict there would likely not be time to activate the non-RRF ships, as the Persian Gulf crisis showed. In a longer regional conflict it seems likely that sufficient resupply sealift would be available with commercial U.S. container ships, as was the case after the initial deployments to the Persian Gulf. These commercial ships would also be assisted in resupply missions by RRF ships and other government-owned and controlled cargo ships after they initially deployed combat forces. Finally, the probability of a global war, which would include large losses of merchant ships, is probably lower now than it has ever been since the Reserve Fleet was first formed.

Chapter 2			
Non-RRF Ships	Are No	Longer	Needed

Accelerated Scrapping of Non-RRF Ships	DOD plans to increase the RRF to 142 ships by 1994. To help accomplish this expansion, MARAD continues to scrap non-RRF ships and use the pro- ceeds to acquire commercial cargo vessels as they become available. As of April 1991, MARAD planned to gradually scrap all non-RRF ships by the year 2000. We concur with this scrapping decision but see little reason for delay. Most of the 116 non-RRF ships could be scrapped, and the pro- ceeds could be used to help improve the RRF.		
	As discussed previously, MARAD spends about \$2 million annually in direct costs to preserve the non-RRF Ships. Assuming a steady decrease in the ships over the next 10 years as they are sold, we expect that MARAD would spend about \$10 million for ship maintenance. This figure is conservative because (1) it is not adjusted for inflation and (2) we do not account for the additional cost of management improvements we consider necessary if the ships are to remain viable sealift assets during the interim (see chapter 4).		
	About a year ago MARAD estimated the non-RRF ships could yield from \$97 million to \$109 million if the entire fleet were sold. These estimates were based on scrap prices of \$130 to \$145 per ton. Since then, scrap prices have apparently softened. MARAD's most recent sale of two non- RRF ships to a foreign firm, was for \$76 per ton. MARAD estimates that future near-term sales might bring \$85 per ton. Accordingly, our esti- mated range of about \$38 million to \$42 million in sale proceeds is based upon scrap prices in this \$76 to \$85 per ton range, which we believe is conservative. However, as discussed in chapter 3, congressional action that would restrict sales of non-RRF ships to domestic scrapping firms would significantly alter this figure.		
	Therefore, scrapping the non-RRF ships now would (1) save about \$10 million in direct preservation expenses that would have been incurred to retain the ships during the next 10 years and (2) generate revenue of about \$38 million to \$42 million, depending on scrap prices.		
Matters for Congressional Consideration	Given the increase in strategic sealift assets during the 1980s and the fact that the non-RRF ships were not used in the Persian Gulf war, we believe that the likelihood of the future need for the non-RRF ships is extremely remote. These ships are neither technologically suitable nor able to be activated and operated efficiently enough to justify their continued retention. Therefore, Congress should consider directing the Maritime Administrator to scrap all of the non-RRF ships (not being held for		

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

	Chapter 2 Non-RRF Ships Are No Longer Needed
	RRF upgrade or other purposes) as soon as practicable and use the sale proceeds to enhance the RRF.
Agency Comments and Our Evaluation	Both DOD and MARAD provided comments on our draft report (see app. II and III). MARAD said that the non-RRF ships were technically well suited for carrying ammunition and other break-bulk military cargoes. Both agencies said that any decision on the future need for the non-RRF ships should be made only after there were final results from DOD's ongoing Mobility Requirements Study. The agencies also stated that if the study determined that some or all of the non-RRF ships were no longer needed, they should be scrapped. DOD said that it would support a recommenda- tion from us that, together with MARAD, they develop criteria for deter- mining the size of the non-RRF portion of the Reserve Fleet and then apply this criteria to developing a schedule for scrapping ships that are no longer needed. DOD further said that non-RRF ship reductions should be linked to the planned expansion of the RRF.
	After evaluating DOD's and MARAD's comments, we continue to believe that (1) the ships are no longer technologically suitable for modern day strategic sealift requirements and (2) all of the non-RRF ships (not being held for upgrade or other specific purposes) should be scrapped as soon as practicable because of their questionable future need.
	MARAD points out that the non-RRF ships are especially well suited for carrying ammunition. We do not disagree. However, for the following reasons, we do not believe this factor is sufficient justification to retain the ships:
	 There are thousands of break-bulk cargo ships worldwide. Enough of these ships would be available from our allies in most emergencies, as was the case in the Persian Gulf war. The RRF currently has 51 break-bulk ships—each larger and more modern than the non-RRF Victory ships. The Afloat and Maritime Prepositioning ships also carry ammunition and can be used to resupply our troops. As the Defense Department continues to further containerize supplies, ammunition shipping should become less dependent on break-bulk shipping.
·	MARAD's plan to scrap the non-RRF ships over the next 10 years— without regard to their specific technological merits—contradicts its argument to retain these ships as ammunition carriers. Furthermore,

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Page 18

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GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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DOD officials responsible for the Mobility Requirements Study told us that the study is not designed to identify specific requirements for the non-RRF ships.

We continue to believe that a decision should be made on the status of the non-RRF ships. As this report states, the non-RRF ships are slower, take longer to load and unload, carry smaller amounts of cargo, and require more crew than the newer, larger sealift assets added during the 1980s. The RRF is currently planned to expand to 142 ships by 1994, and the Congress has provided DOD with billions of dollars in additional funding to buy or construct new sealift ships.

MARAD implied that our estimated \$38 million to \$42 million revenue from the sale of the non-RRF ships assumed that all of them would be scrapped at the same time. Our estimate does not assume that all the ships would be scrapped at once. Rather, our report suggests that Congress direct MARAD to scrap the non-RRF ships (not being held for RRF upgrade or other purposes) as soon as practicable. The decision to scrap the ships would be made now—resulting in a \$10 million savings of future preservation costs compared with MARAD's current 10-year scrapping plan. The \$38 million to \$42 million sales proceeds estimate is based on MARAD's receiving from \$76 to \$85 per ton. MARAD could sell the ships "as soon as practicable" according to market conditions, as is its current plan.

Chapter 3

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Domestic Scrapping Would Limit Sale Proceeds

• • •	During the last two congressional sessions, legislation was introduced that would require all Reserve Fleet ships built prior to 1946 to be scrapped domestically. Under present scrap market conditions, domestic ship scrappers have bid much less than foreign firms because of various economic, environmental, and safety factors that result in higher costs to U.S. firms. Requiring domestic scrapping would substantially reduce sale proceeds.
Pros and Cons of Domestic-Only Scrapping	U.S. scrapping industry representatives state that under the current ship sales policy, they cannot compete with foreign ship-breaking com- panies because they are subject to various U.S. regulations that signifi- cantly increase their operating costs. Industry representatives state that the cost to comply with U.S. fair labor laws, environmental safeguards, and work place safety standards puts them at a disadvantage in the bid- ding process.
	Proponents of a domestic scrapping requirement argue that MARAD should consider factors other than dollar value when determining how the United States can benefit from the sale of these ship assets. They believe that while domestic scrapping may yield less direct revenues, indirect revenue generated from a revitalized economy could help com- pensate for the difference. Domestic scrapping advocates point out that a U.S. ship-breaking requirement would generate new jobs in scrapping and related industries. They assert that revitalizing the industry would restore depressed local economies that were affected by the decline of the maritime industry.
: : .	Conversely, MARAD officials expressed support for continued open com- petition between domestic and foreign scrapping companies, viewing it as the best means to maximize the U.S. government's return on the dis- posal of these vessels. They believe that a domestic scrapping require- ment would limit competition, resulting in lower bid offers and less income for the government. MARAD officials assert that limiting offerings to domestic scrapping companies would prevent MARAD from obtaining fair value for the scrapped ships and affect its ability to acquire newer ships for the Reserve Fleet. They also expressed concern that U.S. firms would be unlikely to invest in new ship-breaking capabilities because there was only a limited number of non-RRF ships.

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Chapter 3 Domestic Scrapping Would Limit Sale Proceeds

MARAD's Unrestricted Sale Proceeds

MARAD currently solicits and receives offers from both domestic and foreign ship-breaking companies and brokers, awarding contracts to the highest responsible bidder. MARAD's records indicate that business entities that arrange to have ships scrapped overseas have consistently outbid domestic ship-breaking companies. As shown in table 3.1, of the most recent sales of non-RRF ships in which U.S. bidders submitted offers, domestic scrapping would have resulted in substantially lower revenue than MARAD obtained for foreign scrapping.

Table 3.1: Comparison of RevenueGained From Foreign and DomesticScrapping

Dollars per ton

Dollars per ton	•*		
Bid due date	Foreign scrapping ^a	Domestic scrapping	Percent reduction ^b
05/21/87	\$99.48	\$55.00	45
05/21/87	99.48	5.71	94
06/25/87	102.50	55.00	46
11/30/87	66.01	22.80	65
02/16/88	132.28	51.06	61
02/16/88	132.28	40.65	69
03/28/88	. 120.02	· 12.41	90
03/28/88	106.17	12.00	89
12/19/89	86.46	7.36	91
02/15/91	76.00	41.60	45

^aIn some cases this data represents the final average price per ton for several ships sold by MARAD.

^bLimiting sales to domestic scrap firms would have resulted in total sale proceeds being reduced by the stated percentages.

We found that, historically, the disparity between domestic and foreign offers has been fairly consistent. Of the 163 ships traded out for scrap in fiscal years 1980 through 1990, only 21 were scrapped domestically, the last in fiscal year 1986.

If Congress were to pass legislation requiring MARAD to sell only non-RRF-ships to be scrapped domestically, sale proceeds would be substantially less. Further, since only 94 ships in the current Reserve Fleet could be affected by a domestic-only scrapping requirement, we believe the market is limited and would be temporary.

· ·	Chapter 3 Domestic Scrapping Would Limit Sale Proceeds
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Agency Comments and Our Evaluation	DOD commented that our report should be more specific about the poten- tial revenue reduction if MARAD were to restrict sales of non-RRF ships to domestic scrapping firms. MARAD agreed that limiting scrapping to domestic firms would substantially reduce sale proceeds.
· · ·	We did not attempt to predict future scrap prices—either domestically or from firms overseas. MARAD's own sales history shows that contracts awarded to foreign firms ranged from about \$66 to \$132 per ton over the last 4 years. Our estimate of the revenue to be obtained from the sale of non-RRF ships was based on the range between MARAD's most recent estimate (\$85 per ton) and their most recent sale (\$76 per ton). We believe that our report clearly shows that domestic firms have been consistently outbid by foreign firms—from 45 to 94 percent over the past 4 years—and, accordingly, that a domestic-only restriction on MARAD would likely significantly reduce income from non-RRF ship sales.

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Chapter 4

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Non-RRF Ships Could Be Activated, but MARAD's Management Practices Are Weak

	After reviewing a 1983 Victory ship survey study and records from the 1985 test activations of two Victory ships, we conducted physical inspections of selected non-RRF ships. We determined that despite their poor appearance, the ships probably could be activated if needed. However, MARAD's current management practices do not ensure that the non-RRF ships can continue to be relied on as viable sealift assets. Our review shows that (1) dehumidification systems are not always effective and deficiencies are not corrected promptly; (2) spare parts are not adequately controlled; (3) the availability of sufficient mariners to crew all the ships is in doubt; (4) current ship condition documentation is not available to make decisions on which ships should be activated first in
	an emergency or, conversely, which ships should be scrapped first; and (5) written criteria and procedures for ship disposal do not exist.
Successful Activation of Non-RRF Ships	A 1983 study of the condition of the Reserve Fleet's Victory ships, con- ducted by an independent marine survey firm, concluded that MARAD's preservation methods had been adequate and the ships were in the con- dition necessary to be activated. The successful activation of two Vic- tory ships in 1985 also demonstrated the ships' adequate condition. Adding this evidence to the results of our own inspections of selected Reserve Fleet ships, we concluded that the fleet's outward appearance was not indicative of its activation potential.
1983 "Victory Ship Validation Study"	In 1982, at the direction of the Joint Chiefs of Staff, MARAD contracted with George G. Sharp, Inc., a marine systems analysis and design firm, to assess the material condition of the Reserve Fleet's Victory-class ships. This study, known as the "Victory Ship Validation Study," was initiated because of the concern over the condition of these older ships built during World War II.
	The marine surveyors conducted surveys, visually examining the Vic- tory ships (none of which was activated). Although the internal exami- nation of machinery items and other equipment was facilitated through previous disassembly, no on-board machinery was opened for inspection by the surveyors. On each ship the surveyors examined and rated approximately 200 items. They noted specific deficiencies on each ship and any needed repairs previously identified in the ships' records.
v	On the basis of the ship surveys and an examination of available records, the surveyors found the Victory ships to be in good to excellent

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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condition. In general, it was found that external and internal preservation methods employed for the Victory ships had been adequate. In their final 1983 report, they concluded that all the ships could be activated in a national emergency in less time and at a lower cost than it would take to build new ships. The George G. Sharp, Inc., surveyors did not examine the underwater 1985 Test Activations of hull or estimate the magnitude of work needed to activate and operate **Two Victory Ships** the ships. Consequently, Congress appropriated funds in fiscal year 1985 for MARAD to activate two Victory ships to determine the extent of required repairs and the cost of activation. The ships chosen were the American Victory, from the James River Reserve Fleet site, and the Hattiesburg Victory, from the Beaumont Reserve Fleet site. According to MARAD's later report to Congress, these were among the Victory ships in the best condition. Using single-shift workdays, the Norfolk Shipbuilding and Dry Dock Corporation successfully activated the American Victory in 60 days at a cost of about \$2.3 million. The ship successfully completed a 24-hour sea trial and then was placed back in the Reserve Fleet. The Hattiesburg Victory was activated at two Texas shipyards within 108 days at a cost of almost \$2 million. After a 24-hour sea trial, the ship completed a 43-day sealift mission that took it to Honduras, Panama, and Cuba. The ship experienced some mechanical problems during the voyage, primarily with pumps, that necessitated both shorebased and at-sea repairs. As the following pictures depict, the exterior of the Hattiesburg Victory shows considerable improvement after the ship's activation.

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

Figure 4.1: Non-RRF Victory Ship: Before Activation - Car -

Source: MARAD.



Figure 4.2: Non-RRF Victory Ship: After Activation

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Source: MARAD.

MARAD concluded from the activations of the <u>American Victory</u> and the <u>Hattiesburg Victory</u> that the Reserve Fleet Victory ships could be successfully activated. It noted that a shipyard could reduce labor costs by as much as 33 percent per ship if several ships were activated. It reported that a decision to scrap the Victory ships was more dependent upon the technological suitability of the ships than the ships' condition or activation cost.

GAO's Ship Inspections	One of the purposes of our physical inspection of selected Victory ships was to determine whether the condition of the Victory ships at the three Reserve Fleet sites had worsened since the "Victory Ship Validation Study" was completed in 1983.
•	All of the American Bureau of Shipping surveyors who accompanied us on the inspections of the 18 Victory ships at the three Reserve Fleet sites stated that the ships toured were in the material condition neces- sary to be activated. The surveyors rated the condition of the ships they inspected from fair to excellent. They noted, however, that it was impos- sible to determine the exact physical condition of each ship without opening up the internal machinery and making specific tests on the hull, which would have required dry-docking each vessel to be examined.
	We also studied the physical condition of six non-RRF ships that were not Victory ships, two selected from each of the three fleet sites. Our selec- tion represented those ships MARAD fleet personnel believed were in the best and worst condition at each site. Inspections were conducted using MARAD's marine surveyors. In conducting these inspections we asked the surveyors to accompany us on each ship and comment on the interior and exterior conditions of the ships using the same method of evaluation that was used previously on the Victory ships. After the inspection, MARAD's marine surveyors concluded that the three ships considered to be in the worst condition could still be activated if necessary, but were in worse condition than the Victory ships in the fleet. The remaining three ships were in much better condition.
Dehumidification Requirement	Dehumidification systems remove moisture from the air within the ship to prevent deterioration caused by the corrosion of metal and the growth of mold or mildew. To ensure proper operation of the systems, key interior spaces on each ship are sealed to prevent moisture leaks. According to criteria established by MARAD, the relative humidity aboard dehumidified ships should be maintained between 35 and 40 percent. To ensure that the ships are properly preserved, MARAD requires that humidity readings be taken monthly and that corrective action be taken if the readings are greater than the required percentages. ¹ We found little indication that MARAD had taken effective action to keep the non-
: . v	¹ In evaluating the effectiveness of the preservation systems used by MARAD to protect ships, we addressed only the dehumidification system. We could not measure the effectiveness of the cathodic protection system, which protects the underwater portion of the hull, without having the ships dry-docked and measuring their hull thickness.

Chapter 4 Non-RRF Ships Could Be Activated, but MARAD's Management Practices Are Weak RRF ships properly dehumidified. American Bureau of Shipping surveyors cautioned that the continued lack of proper dehumidification might cause rusting and corrosion of interior spaces and machinery and might eventually have a negative effect on the ships' activation. At the Suisun Bay fleet, where 44 non-RRF Ships are kept, we found that **Observed** Problems With contrary to MARAD's own requirements fleet personnel did not maintain MARAD's humidity records on non-RRF ships before April 1990, although they told Dehumidification us that they monitored humidity levels monthly. We were told by fleet **Procedures** office personnel that they interpreted the record-keeping requirement to cover only the first year that a ship was in the fleet. Records kept since April 1990 showed that humidity levels frequently exceeded MARAD's standards. Fleet records showed that a December 1988 wind storm caused a major power outage that resulted in a 2- to 24-month delay before power was restored to all ships. This lack of power was cited by MARAD officials as the main reason for the high humidity levels on some ships from April 1990 to October 1990. Two ships, however, had no dehumidification systems installed. One of the non-RRF ships we inspected reportedly lacked a dehumidification system because the ship was at one time slated to be upgraded to the RRF. According to MARAD's regional officials, the ship was not upgraded because of a lack of funds, and subsequently it deteriorated and became a scrap candidate. At the James River Reserve Fleet a review of humidity readings from a 3-year period disclosed that only 1 of the fleet's 38 dehumidified non-RRF ships had been checked at least monthly for proper humidity levels. Moreover, that ship had been in the fleet for only 5 months. For the other 37 ships, some monthly readings were not recorded, and in some cases 2 to 6 months had elapsed between humidity readings. In addition to the 38 dehumidified non-RRF ships at the fleet, 4 Reserve Fleet ships had no dehumidification systems installed at all. Similarly, only one of the fleet's ships had relative humidity that averaged (over a 3-year period) within the desired range of 35 to 40 percent. The majority of the remaining ships had relative humidity readings averaging between 47 and 61 percent. The highest average relative humidity reading was 76 percent. Some of these high humidity readings could easily have been caused by inadequate attention paid to maintaining the dehumidification equipment or water that entered sealed areas.

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

Chapter 4 Non-RRF Ships Could Be Activated, but **MARAD's Management Practices Are Weak** As shown in figure 4.3, one of the ships we inspected had an obvious hole in the dehumidifier machine's vent pipe, allowing moist air to be pumped back into the sealed ship compartments that the machine was attempting to keep dry. Figure 4.4 shows standing water in a non-RRF ships' emergency generator room. This is part of the interior space that is supposed to be sealed and kept dry by dehumidification. Figure 4.3: Hole in Dehumidifier Exhaust Pipe



Figure 4.4: Water on Floor in Emergency Generator Room

Our analysis of Beaumont Reserve Fleet records over a 3-year period disclosed that fleet personnel did not always take the required monthly humidity readings. We also found that they did not always maintain the relative humidity levels required by MARAD. However, the records for the 24 non-RRF ships we reviewed showed that 17 ships had average humidity levels below 40 percent, and the remaining 7 ships had levels between 40 and 50 percent.

Our review disclosed that one ship that arrived in September 1989 did not have dehumidification equipment installed until 1 year later. Also, in February 1988, fleet personnel removed dehumidification machines from 10 Victory ships that were declared scrap candidates. In 1989, MARAD decided to keep eight of these ships and place them back under dehumidification protection. Fleet personnel reinstalled new machines on these eight ships by October 1990. Two other Victory ships have a loose asbestos problem that has prevented fleet workers from taking readings since August 1989. Numerous leaks have allowed water and moisture inside these ships.

	Chapter 4 Non-RRF Ships Could Be Activated, but MARAD's Management Practices Are Weak
Reasons Cited for Noncompliance With Dehumidification Requirements	 The following are reasons offered by MARAD officials as to why the ships' humidity readings did not average between the required 35 and 40 percent: Most of the ships' interior spaces need resealing, and cargo hatches need to be recovered. Because of a lack of scaffolding, it has been too costly and dangerous to repair holes in the tops of the ships' exhaust stacks. The dehumidification machines are nearing the end of their useful lives, and replacement parts are difficult to find. Maintenance of the RRF is a higher priority than dehumidification of the non-RRF ships.
	The Reserve Fleet officials stated that being without proper dehumidifi- cation had not helped the ships, but they did not believe that a serious delay in activations would result. Surveyors with the American Bureau of Shipping, who accompanied us on inspections of selected ships, agreed that there did not yet appear to be any significant deterioration of internal areas resulting from improper dehumidification. However, they cautioned that continued lack of proper dehumidification might cause rusting and corrosion of interior spaces and machinery and might eventually have a negative effect on the ability to activate the ships.
Spare Parts	The non-RRF ships' spare parts inventory consists of parts (1) stored aboard each ship and (2) removed from scrapped ships and stored at the fleet sites. MARAD refers to these parts as "shipboard" and "shore- based," respectively. MARAD's inventories of shipboard spare parts are inadequate to ensure quick availability. Moreover, although fleet sites have systems to record and control parts cannibalization, they appar- ently do not always adhere to the systems' requirements. MARAD's 1985 report on the Victory ship test activation recommended a larger, well- catalogued inventory of spare parts to ensure activations in emergency situations. We saw little evidence of this recommendation's implementation.
Varied Accountability of Spare Parts in Inventories	Among the three Reserve Fleet sites we visited, the accuracy and availa- bility of spare parts' inventories varied. At the Suisun Bay Reserve Fleet site, shipboard inventory records prepared at the time ships entered the fleet were available for 28 of its 44 non-RRF ships (64 percent). These records were available for 22 of the 33 Victory ships and 5 of the 11 other ships. Of the 22 shipboard inventory records available for Victory

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GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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ships, 12 were complete and 10 were incomplete. An inventory was considered to be complete if it was keyed to the ship's allowance list and included such information as the equipment supported, the manufacturer, the location of the spare parts, and the number of spare parts on hand, short, or in excess of the allowance list.

We tested the accuracy of records for Victory ship shipboard inventories by comparing recorded inventory balances with on-hand quantities for 19 spare part sets on two Victory ships. About 21 percent of the sets could not be located and 16 percent could not be visually inspected because they were in a sealed container or area. The remaining 63 percent were found as indicated on ship inventory records. In two instances, the ships had more parts than were indicated on inventory records. We did not test the accuracy of the shipboard inventory records for ships other than Victory ships.

The Victory ship shore-based spare parts were being stored under dehumidification, and some parts were not accessible without opening sealed areas. However, we tested the accuracy of the inventory by tracing 33 items from the more accessible areas to inventory records. We found one discrepancy: an item had been improperly tagged. There were no shorebased spare parts for ships other than Victory ships.

The James River Reserve Fleet's personnel stated that they did not maintain an inventory of shipboard spare parts. However, shore-based parts for Victory ships were inventoried and protected by dehumidification. Our limited tests verified the accuracy of this inventory list and confirmed that these parts were protected by dehumidification. There were no shore-based spare parts for other non-RRF ships.

The Beaumont Reserve Fleet had no inventory records showing the types or amounts of spares actually on board the non-RRF ships, but it did have some allowance or requirements lists identifying the types and number of parts needed on board. In contrast, the fleet site had inventory records for Victory ship shore-based spares but no allowance lists. Our limited tests disclosed that these records were accurate and the shore-based parts were protected by dehumidification and were not deteriorating from the elements. There were no shore-based spare parts at the Beaumont Reserve Fleet for non-RRF ships other than Victory ships.

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Parts Cannibalization	The process of re	moving parts from one ship to repair another is called
Practices	"cannibalization upgraded to RRF can occur. We fo Reserve Fleet loc	"According to MARAD officials, when non-RRF ships are status, some cannibalization of similar non-RRF ships and cannibalization of parts was common at all three ations. However, our review of MARAD's fleet records rts removal in most cases was not well documented or
	resulted in the u corporation that from another not personnel that th monitored or cor taken from the s of Transportatio	y Reserve Fleet, failure to follow procedures may have nauthorized removal of some spare parts. A nonprofit was given a Victory ship was authorized to obtain parts n-RRF ship storing spare parts. We were told by fleet he removal of these spare parts from inventory was not trolled. An allegation that more parts than needed were hip is currently under investigation by the Department n. MARAD officials assured us that inventory procedures llowed to control parts removals.
	numerous cases without complet	Reserve Fleet, our review of ship files disclosed n which parts were removed from non-RRF ships e documentation. Our inspection aboard some ships also moved equipment was not always replaced.
Uncertain Crew Availability for Non- RRF Ships	ships. Approxim bers would be ne hired at the time would depend or needed. The poo the information	mal arrangements to obtain crews for the non-RRF ately 1,300 licensed and 3,500 unlicensed crew mem- eded for the current inventory. These crews would be the ships were activated, and their actual availability crew members' willingness and ability to serve when from which crew members are drawn is limited, and on mariners that is currently maintained is often inaccu- nt to accurately estimate actual crew availability at any
Probable Complications Because of Lax Planning	MARAD official sa would probably manner as the RI	ntractual arrangements to crew the non-RRF ships. A id that if the non-RRF ships were activated, MARAD hire private firms to manage and crew them in the same EF ships. However, MARAD has not developed plans to n the event of activation.
		rrangement non-RRF ship managers would rely on spe- s to provide crews when notified of ship activations.
	Page 33	GAO/NSIAD-92.03 Status of the Older Reserve Fleet Shin

Page 33

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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	Chapter 4 Non-RRF Ships Could Be Activated, but MARAD's Management Practices Are Weak	
	The maritime labor unions would attempt to secure crews by posting job opportunities in their hiring halls or by calling individual members, including retirees and members currently on leave. This system does no guarantee that the crews will be available when needed, since both availability and willingness to respond may vary under different circumstances.	
	would be necessary for agers were asked to re- crew members to mee telephone verification ness to serve. Of the 7	the procedural and coordination requirements that or a large-scale activation of the RRF. Ship man- ecommend manning levels and identify specific t those levels. MARAD officials then made follow-up s to determine seafarers' availability and willing- 43 licensed mariners sampled, about 49 percent I at all because of inaccurate or missing
	that the listed crew m not verify licenses for fied in the exercise be	participated in the test by attempting to verify embers had valid licenses. The Coast Guard could almost 10 percent of the licensed personnel ident cause of incorrect information or administrative ing license transactions to Coast Guard
Insufficient Mariner Information	MARAD, and the mariti estimate actual crew a Also, labor union offic could provide crews c However, the followir	ariners that is available at the Coast Guard, me labor unions we contacted is insufficient to availability for the non-RRF ships at any given tim cials we contacted were not sure whether they oncurrently for all the ships in the Reserve Fleet. ng factors give reason for both optimism and pessive to crew all the Reserve Fleet ships:
	• MARAD, the Coast Guard, and labor union officials we contacted believe that a large number of licensed and unlicensed mariners is currently available. According to MARAD, there are about 2.6 merchant mariners for each operating merchant ship position (although their actual availability and qualifications are unknown). However, MARAD officials point out that as mariners move to shore occupations, the pool of qualified mariners will diminish.	
	Last year MARAD commissioned a study to determine methods for achieving adequate manning of merchant vessels for defense-related needs during mobilization. The final report did not address the specific	
	Page 34	GAO/NSIAD-92-03 Status of the Older Reserve Fleet Shi
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manning requirements of non-RRF vessels.² However, it concluded that under various scenarios and assumptions, significant shortages of specific manpower skills required for mobilization could be expected. The study points to the continual decrease in the number of U.S flag ships as the reason for the decline in the number of available mariners and the expected mariner shortfall.

The report also states that implementation of a tracking system for mariners would increase crew availability. Such a system would require more specific, accurate, and timely information than is currently maintained and would offer much more assurance that sufficient crews could be identified during a future mobilization.

- Individual mariners have no commitment to serve if requested, and an undetermined number of licensed and unlicensed mariners currently employed in shore occupations may not be willing to sail because of the possible loss of accrued benefits and because their reemployment rights are not guaranteed. This concern may be alleviated somewhat by recent legislation (HR 1578) that provides employment protection for mariners called to meet national emergencies.
- Non-RRF ships should be comparatively easy to operate. Labor union officials we contacted are confident that union members could operate the older, steam-powered reserve ships. Because most licensed marine engineers are trained on both steam and diesel propulsion systems, it should take only a short period of training to operate these relatively simple power plants. Union officials also consider the cargo handling equipment on many of the older reserve ships to be simple to operate.
- Government officials we contacted indicated that in national emergencies, the number of potential crew members could be increased by (1) the Coast Guard's relaxing some requirements for unlicensed personnel with prior sea experience, (2) the Federal Communication Commission's modifying its schedule for testing and licensing radio operators, (3) the various federal and state maritime academies' providing special accelerated training programs and allowing students to take license examinations ahead of graduation schedules, and (4) the maritime union training schools' providing accelerated training for updating experienced crew members' rating levels.

MARAD officials said that although they did not have definite plans to request any of these specific actions, they could be initiated whenever necessary.

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

²Crewing the Merchant Marine for Mobilization (Jan. 1991).

	Chapter 4 Non-RRF Ships Could MARAD's Managemen	
	reserve program gram, qualified n gencies would sig type of ship they better ensure the	re considering the establishment of a merchant marine to help ensure future crew availability. Under this pro- nariners willing to crew reserve ships in national emer- gn a contract obligating them to train annually on the would likely be serving, and they would be tracked to ir availability in emergencies. MARAD is not planning to am to non-RRF ships at this time.
Weak Ship Disposal Processes	there is no establ of assessing indi- ships for disposa teria for ship dis	ent documentation on the non-RRF ships' condition, and ished periodic review of the fleet for the sole purpose vidual ship condition. Thus, MARAD's ability to identify I is limited. Moreover, MARAD has no formal written cri- posal or written procedures or policies regarding equip- noval from ships chosen for disposal.
MARAD Lacks Current Ship Condition Documentation	dition of non-RRF ships were assign hensive reports of years ago after t ously, an inspect dation Study"; h machinery were inspections or re according to MAR ships have not be not been periodic a result, there is	and that the most recent documents describing the con- ships were the reports and surveys prepared when the ned to the Reserve Fleet. In addition, the only compre- on the condition of Victory ships were prepared over 20 heir return from service in Vietnam. As discussed previ- ion was conducted during the 1983 "Victory Ship Vali- owever, underwater hulls and some items of unopened not inspected. Since that time, no overall ship condition gular test activations have been conducted. Also, AD officials, established periodic reviews of individual een done to assess their condition, and the ships have cally ranked on the basis of their physical condition. As no current documentation to aid in making ship activa- ted condition.
MARAD Lacks Written Disposal Criteria	of Reserve Fleet dations for down subsequently dis that individual s usefulness (as sp	osed that MARAD has no written criteria for the disposal ships. However, MARAD officials noted that recommen- agrading specific ships originated in MARAD and were cussed with Navy officials. MARAD officials also noted hips were selected for disposal on the basis of military pecified by the Navy), ship condition, and tonnage. How- o written guidance governing the selection process.
	-	Congress on the 1985 test activations of the two Vic- mended the establishment of criteria for the disposal of
	Page 36	GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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	Chapter 4 Non-RRF Ships Could Be Activated, but MARAD's Management Practices Are Weak
	the ships and the removal of equipment and parts. However, no apparent action has been taken regarding this recommendation. The rec ommendation specified that as long as there was a possibility that a large number of Victory ships would be retained for possible activation, any further scrapping should be deferred until
、	 formalized scrapping criteria had been established on the basis of national defense needs, and a procedure had been established to determine which equipment and spare parts should be removed and stored for possible Victory ship use.
	From the time the report was issued in September 1985 until May 1991, 31 Victory ships had been scrapped.
	MARAD officials indicated that there were also no written policies or pro- cedures for stripping Reserve Fleet ships before their disposal. One offi- cial noted that MARAD's Division of Reserve Fleet authorized the remova of valuables and some equipment and components common to other reserve ships before they were sold for scrap. However, we found no evidence of a systematic approach for such removal. In addition, MARAD officials indicated that some ships were not stripped before sale because scrappers assessed a ship's value on the basis of both tonnage and content.
	We believe current ship condition information is important to identify the order in which ships would be activated and, conversely, to deter- mine the logical order in which ships should be removed from the fleet.
Matters for Congressional Consideration	We did not estimate the additional costs that would be necessary to better maintain these ships; however, Congress will need to consider the likely impact on the overall Reserve Fleet's budget. Without a budget increase, additional funds spent improving the non-RRF ships will likely reduce the resources available to the RRF. If Congress chooses to con- tinue with the gradual 10-year phaseout of the non-RRF ships, consideration should be given to directing that the Maritime Administrator improve the ships' maintenance and management by following the spe- cific steps we outline in our recommendations.
Recommendations	We recommend that the Maritime Administrator take the following actions:

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GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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-	Chapter 4 Non-RRF Ships Could Be Activated, but MARAD's Management Practices Are Weak
	Establish managerial practices that ensure (1) recommendations of various studies and reports on the non-RRF ships receive prompt attention; (2) ships are preserved and maintained in accordance with existing regulations; and (3) spare parts inventories are complete, current, accurate, and based on established requirements, including proper controls over parts cannibalization. Establish a formal plan for crewing non-RRF ships, providing assurance that crews would be available when needed. Under this plan, MARAD would (1) include non-RRF crew requirements in future Reserve Fleet mobilization exercises and (2) periodically review or test mariners' availability and willingness to crew the entire sealift Reserve Fleet. Direct that current non-RRF ship condition information be maintained and that this data be required as a basis for identifying specific ships for upgrade to the RRF or for scrapping. Ensure that policies and procedures are established and followed to control the removal of needed equipment and parts prior to disposal of Reserve Fleet ships.
Agency Comments and Our Evaluation	DOD did not comment on this part of our report. MARAD generally con- curred with our management findings and agreed to take actions in response to our four specific recommendations. Further, MARAD said that many of the improvements we sought could be made without an increase in funds. Although we believe that the promised improvements could increase the overall viability of the fleet, we remain concerned that additional funds may be required to fully implement our recommer dations concerning the preservation of the ships.
	MARAD stated that if the Mobility Requirements Study identified a con- tinued need for non-RRF ships, it would (1) upgrade and centralize man- agement of the non-RRF ships' spare parts; (2) establish formal plans for crewing all Reserve Fleet ships, exercise these plans, and periodically test mariner availability; (3) survey the condition of new ships as they enter the fleet; (4) use information from these surveys, as well as the first-hand knowledge of field ship management and reserve fleet staffs, to make upgrading and scrapping decisions; and (5) formalize policies and procedures for the removal of parts and equipment in a ship dis- posal guide. MARAD also stated that it would immediately ensure that all required dehumidification system readings were taken as prescribed (or otherwise be fully documented) and that headquarters staff would exer cise closer oversight of fleet preservation operations.

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GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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It appears to us that MARAD's planned response to our report will satisfy most of our recommendations regarding the importance of obtaining sufficient crews for the non-RRF ships, adequately controlling spare parts, and formalizing policies and procedures for spare parts removals. We remain concerned, however, about (1) the inattention to the preservation of the non-RRF ships and (2) the need for additional funds to adequately maintain and manage these ships.

As discussed in our report and in recent testimony, we found instances where water had penetrated into spaces on non-RRF ships that were supposed to be kept dry and under dehumidification. Fleet personnel told us that necessary repairs to such things as hatch coverings and door seals had to be deferred. We were also told that a number of the dehumidifying machines had reached the end of their economical lives, repair parts were increasingly difficult to obtain, and many machines needed to be replaced. Priority attention on the RRF and funding shortfalls were cited as reasons why such maintenance was not being accomplished on the non-RRF ships.

MARAD's intent regarding the continued preservation of the non-RRF ships appears limited to taking monthly humidity readings or documenting why they were not taken. As mentioned earlier, American Bureau of Shipping surveyors told us that continued high humidity readings could eventually have a negative effect on MARAD's ability to activate the ships. Accordingly, we continue to believe that if it is decided to keep them, additional funding may be required to better protect the non-RRF ships.

MARAD's Management of the 510(i) Ship Exchange Program

As requested, we also evaluated various aspects of MARAD's Ship Exchange Program, authorized in section 510(i) of the Merchant Marine Act of 1936 (as amended). These investigated areas included MARAD's management and administration of the overall program and its conduct in the trade-out of the ex-USS <u>Shangri-La</u>. Our evaluation revealed only one instance in which MARAD officials should have exercised better judgment in the trade-in of two ships. This instance, however, occurred in 1983, and we found no indications that similar situations had transpired since that time. With regard to the USS <u>Shangri-La</u> trade, we believe MARAD acted properly.

Background

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Section 510(i) of the Merchant Marine Act of 1936, as amended in 1977, specifies the ship disposal method predominately used by MARAD. Until November 1990 the Secretary of Transportation was authorized to acquire suitable vessels, which had been constructed in the United States and had never been under foreign documentation, in exchange for obsolete Reserve Fleet ships. In November 1990 section 510(i) was amended to authorize the acquisition of suitable U.S. vessels with funds derived from the sale of obsolete Reserve Fleet vessels. From 1977 to that time, MARAD's administration of the section 510(i) program began when a commercial ship owner reported to MARAD its intention to dispose of a ship considered uneconomical to operate. Officials from the Navy and MARAD then determined whether the potential trade-in candidate ship(s) met their needs.

To acquire the trade-in ship(s), MARAD's headquarters officials (in consultation with Navy officials and MARAD regional directors and fleet superintendents) identified Reserve Fleet vessels for trade-out that were no longer considered militarily useful. As previously discussed, we found no written guidelines or criteria for selecting specific trade-out ships.

Under past and present procedures, MARAD advertises the trade-out ships to scrappers, both domestic and foreign, by preparing solicitation packages and sales notices. This information is mailed to a large number of interested parties. MARAD also places advertisements in the <u>Commerce</u> <u>Business Daily</u>. Interested parties are invited to inspect the vessels.

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

Appendix I MARAD's Management of the 510(i) Ship Exchange Program

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	Offers are reviewed by a three-member MARAD vessel disposal committee to determine whether they reflect fair value for the trade-out vessels. The committee then compares these offers with the current market value for scrap metal and previous 510(i) transactions. If the offer is found acceptable, MARAD's contracting officer awards a contract to the highest offerer.
MARAD's Administration of the Section 510(i) Program	From fiscal year 1980 through 1990, 163 vessels of various types (including some former Navy ships) have been traded out in exchange for 47 newer, generally larger, more militarily useful cargo vessels. We reviewed only the 510(i) transactions that involved the trade-in and trade-out of ships prior to the recent change allowing cash sales and the retention of funds by MARAD for future ship acquisitions.
	Our review of program records involving the 47 newer trade-in ships during this period revealed only one example of possible poor judgment in MARAD's administration of the program.
	In 1983, MARAD arranged for two ships, the Jeff Davis and Thomas Nelson, to be surveyed because they were being considered as trade-in candidates. The surveyors reported that the ships were in poor condi- tion and a MARAD official issued a memorandum indicating that the ves- sels were not suitable RRF candidates. However, MARAD officials subsequently decided to acquire these two ships because they did not consider them beyond economical repair and they were potentially more productive than the Victory ships that were being maintained in the Reserve Fleet at that time. The ships were traded in to the Reserve Fleet in August 1983 at a cost of about \$1.7 million. Both ships were subse- quently traded out 2 years later for about \$0.8 million. Had MARAD not acquired these two ships in 1983, but sold its reserve ships 2 years later, it would have received an additional \$3.1 million because scrap prices had substantially increased during the interim.
	The Jeff Davis and Thomas Nelson were selected as trade-out candi- dates and scrapped instead of other ships they were supposed to replace—Victory ships, which remain in the Reserve Fleet. We believe their acquisition was an unwise decision that resulted in a premature loss of trade-out assets to the government; however, we were unable to find specific documentation of the rationale for the trade-out.
	Our review did not disclose any other instances in which MARAD exercised poor judgment in its administration of the $510(i)$ program.

Page 41

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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	Appendix I MARAD's Management of the 510(i) Ship Exchange Program
The Shangri-La Trade- Out Was Proper	We were specifically asked to analyze the processes employed by MARAD in administering the trade-out of the former USS <u>Shangri-La</u> , a World War II aircraft carrier. This former Navy ship was transferred to MARAD to be scrapped.
	We found that MARAD's attempts to dispose of the ship domestically, as initially requested by the Navy, resulted in unacceptably low offers. With Navy approval, MARAD then offered the ship on the world market. A contract to scrap the ship was awarded to the highest bidder (a Taiwanese company) in August 1988, in exchange for a cargo ship of less value and a cash payment. The <u>Shangri-La</u> sale generated \$5.1 mil- lion in cash and a trade-in vessel valued at \$2.1 million.
	The Shangri-La trade was unusual for two reasons: (1) a former military combatant ship was sold to a foreign entity, and (2) there was a \$5.1 million difference between the traded ships. However, the Department of the Navy had demilitarized the Shangri-La by removing militarily sensitive equipment and materials before transferring it to MARAD. Records indicated that the Secretary of the Navy approved the ship's transfer to MARAD for disposal. In the case of the difference in value between the Shangri-La and the traded in cargo ship, MARAD documents show that the \$5.1 million was properly deposited in the Vessel Operations Revolving Fund, as required by section 510(i).

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Comments From the Maritime Administration

400 Seventh Street, S.W Washington, D.C. 20590 Administrator U.S. Department of Transportation Maritime Administration 0.2.5113 (991 Mr. Frank C. Conahan Assistant Comptroller General National Security and International Affairs Division U.S. General Accounting Office 441 G Street, N.W. 20548 Washington, D.C. Dear Mr. Conahan: As requested in your June 25, 1991, letter, we have reviewed your draft report entitled Strategic Sealift: Part of the National Defense Reserve Fleet is No Longer Needed. Our comments are enclosed. Sincerely, eback em CAPTAIN WARREN G. LEBACH Maritime Administrator Enclosure

DEPARTMENT OF TRANSPORTATION REPLY <u>TO</u> GAO DRAFT REPORT OF JUNE 25, 1991 <u>ON</u> STRATEGIC SEALIFT: Part of the National Defense Reserve Fleet Is No Longer Needed (Code 394382) SUMMARY OF GAO FINDINGS AND RECOMMENDATIONS GAO believes that the non-Ready Reserve Force (RRF) segment of the National Defense Reserve Fleet (NDRF) is no longer needed and suggests that Congress consider directing the Maritime Administration (MARAD) to scrap most of the non-RRF ships on an accelerated basis. GAO found that requiring domestic scrapping would substantially reduce sales proceeds. GAO found that the non-RRF ships probably could be activated and, if Congress decides to retain these ships, recommends that MARAD institute an enhanced maintenance and management program for the ships, requiring additional costs. GAO did not estimate the additional costs needed to better maintain the ships, nor did GAO indicate to what level beyond the 30 to 120-days ships should be maintained. SUMMARY OF DEPARTMENT OF TRANSPORTATION POSITION The Department of Transportation (DOT) believes that any decision on the future need for these ships should be made only after the results are known of the ongoing Mobility Requirements Study (MRS), being conducted by the Joint Chiefs of Staff. If the ships are then found to be not needed for national emergencies, the disposal of the ships should be managed in such a way as to maximize monetary returns to the Government by continuing to accept bids from firms worldwide and by disposing of the ships when market conditions are most favorable. DOT agrees with the GAO finding that the non-RRF ships could be successfully activated; DOT also believes that MARAD can continue to preserve these ships effectively without the expenditure of added funds. POSITION STATEMENT Finding: GAO believes that the non-RRF ships are no longer needed because of improvements in sealift capabilities that were made during the 1980's. GAO supports this position by stating that these ships were not called upon during the Persian Gulf War. (Technically, two "NDRF" aviation-support ships (TAVB's), the CURTISS and the WRIGHT, were called into DESERT STORM use.) GAO believes that the non-RRF ships

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the expeditious c written plans exi- of the Persian Gu	f experience, MARA	hips. No similar ships. As a result D, DOD, and others	
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program is needed that would ensure rights to guarante	Equally importan civilian seafarers their return to lowing a national	t is legislation ' reemployment their normal	
as they are for t activated over 30	e RRF ships. The to 120-day periods	. Most of these	
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insurmountable pro RRF ships in the done in World War Wars. For example two-year program, in being. MARAD licenses and prov training course. increased their ca	bblems in providing to 120-day time II and for the Kor the maritime aca accelerating train established schools de refresher train The labor union sc pacities and accel	crews for the non- frame. This was ean and Vietnam demies went on a ing of classes then to upgrade ing, using a 90-day hools also erated training.	
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ships should be ro Maritime Administ: as set forth below these ships. GAO consider a budget such an increase,	tained, GAO recomm ator implement fou 7, aimed at enhanci	r recommendations, ng the condition of ngress will need to and that, without roving the non-RRF	
DOT Response: The	non-RRF ships and	the RRF ships are . Thus, added work	

Page 49

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Page 50

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	Appendix II Comments From the Maritime Administration	
	for upgrade to the RRF or for scrapping.	
	DOT Response: As GAO's draft report indicates, condition surveys of the Victory Ships were conducted upon their return to the NDRF. They were immediately placed under DH and cathodic preservation. The condition surveys of these ships should still be essentially valid. Any parts removal or subsequent damage to the ships should be noted in each ship's file. Thus, good data on the Victories is available. Given the effectiveness of the DH and cathodic preservation systems, we see no need to spend money to conduct new surveys or on such possible items as drydockings. As new ships enter the NDRF, condition surveys will be performed. This information, as well as the first-hand knowledge of MARAD's field ship management and reserve fleet staffs, will be relied on to make upgrading and scrapping decisions. <u>Recommendation 4</u> : Ensure that policies and procedures are established and followed to control the removal of needed equipment and parts prior to disposal of Reserve Fleet ships.	
	DOT Response: Our current policies and procedures for the removal of parts and equipment prior to disposal will be formalized and included in the ship disposal guide to be developed, as mentioned above. We expect to complete the guide in about four months.	
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GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

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	Appendix II Comments From the Maritime Administration
	The following are GAO's comments on the letter dated August 2, 1991, from the Maritime Administration.
- GAO Comments	1. This report does not suggest that MARAD improve non-RRF ship cond tions any more than necessary to meet current activation requirement
	2. During the course of our review, MARAD could not provide any speci civil agency requirements for the non-RRF ships.

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Appendix III

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Comments From the Department of Defense

ASSISTANT SECRETARY OF DEFENSE WASHINGTON, D.C. 20301-8000 LOGISTICS August 12, 1991 (L/TP)Mr. Frank C. Conahan Assistant Comptroller General National Security and International Affairs Division U.S. General Accounting Office Washington, DC 20548 Dear Mr. Conahan: This is the Department of Defense (DoD) response to the General Accounting Office (GAO) draft report entitled "STRATEGIC SEALIFT: Part of the National Defense Reserve Fleet is No Longer Needed," dated June 25, 1991 (GAO Code 394382/OSD Case 8744). The DoD generally agrees with the GAO discussion of ship disposal. The GAO should, however, state very clearly the expected revenue reduction if legislation limits the sale of Reserve Fleet ships to domestic scrapping companies. Table 3.1 of the report shows that the reduction in revenue could be from 45 percent to 94 percent. That should be noted prominently in the narrative. The DoD is not in agreement with the GAO on the subject of the future contribution of non-Ready Reserve Force ships. The GAO does not substantiate the claim that OPERATION DESERT SHIELD or DESERT STORM severely strained U.S. sealift capabilities. On the contrary, the President's success in assembling a broad coalition resulted in numerous allied ships being offered for charter without having to requisition a single U.S.-flag ship. (In contrast, the U.S. did requisition both passenger and cargo aircraft from the U.S. air carriers.) Additionally, it is premature to conclude that all of the non-Ready Reserve Force ships in the National Defense Reserve Fleet are no longer needed. The DoD is currently conducting a congressionally-mandated mobilization requirements study that should be completed later this year. Any action to resize the National Defense Reserve Fleet should take into account the results of this mobilization study.



Page 54

GAO/NSIAD-92-03 Status of the Older Reserve Fleet Ships

accelerated National Defense Reserve Fleet scrapping schedule only if tied to Ready Reserve Force expansion. Any scrapping of the Reserve Fleet should also consider existing market conditions and be scheduled in a manner that will maximize the economic return. Most of the GAO findings and suggestions to the Congress, and all of its recommendations, are directed to the management of the Reserve Fleet by the Maritime Administration. While the DoD is interested in the outcome of the efforts by the Maritime Administration to do the best job within the funds available, the DoD is not the appropriate agency to comment on most of these issues. Nevertheless, the opportunity to provide Department comments on the report in draft form is appreciated. Sincerely, Harid J. Butean David J. Berteau Principal Deputy ASD(P&L)

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