NATIONAL REGISTER ELIGIBILITY ASSESSMENT
Vessel: SS Cape Johnson / ex-Mormacsaga / ex-M.M. Dant

Cape Johnson in service during Operation DESERT SHEILD. Maritime Administration photograph.

Vessel History

The break-bulk vessel Cape Johnson, originally named M.M. Dant and later Mormacsaga, was constructed for States Steamship Company (commonly known as States Lines) by the National Steel and Shipbuilding Company (NASSCO) in San Diego, California in November 1962. It was the fifth of six sister ships; Newport News Shipbuilding and Drydock Company in Newport News, Virginia built the first four. M.M. Dant and its sister ship C.E. Dant were named for members of the Dant family of San Francisco who owned States Lines. M. M. Dant began service for States Lines in 1963.

Charles Dant, a lumber merchant in Portland, Oregon, founded States Steamship Company in 1921 with its headquarters in San Francisco. The Dant family owned the company until its bankruptcy and eventual dissolution. Until the 1930s, the company operated routes to Europe and the Far East. The European routes were abandoned prior to World War II. States originally operated a fleet of World War I-era U.S. Shipping Board vessels, but after World War II it upgraded its fleet with more modern Maritime Commission vessels. States was one of the smallest of the subsidized carriers in the postwar era and expanded by acquiring Pacific Transport Lines. By the late 1950s the combined States–Pacific Transport fleet was nearing its statutory replacement age and States embarked on a new construction program based on the successful Mariner.¹

¹ The Mariners were the first new class of cargo ships built in the U.S. after WWII by the Maritime Commission, MARAD’s predecessor.
design. The first six replacement vessels of the *California* Class (MA design C4-S-1u) were delivered in 1962 and 1963. *California, Oregon, Washington* and *Hawaii* were constructed by Newport News Shipbuilding; *M.M. Dant* and *C.E. Dant* were constructed by NASSCO. The vessels were externally indistinguishable from one another; the significant differences between the Newport News and NASSCO vessels being the suppliers of the propulsion machinery.

The rapid development of containerization in the transatlantic trade took longer to take hold in the Pacific; however, States did not construct ships capable of carrying significant numbers of containers until the mid-1970s, well after other Pacific carriers had done so. In the interim, the company constructed five large break-bulk vessels of the *Colorado* class (MA design C4-S-69b). The *Colorado’s* were designed from the outset to carry a small number (200) of containers on deck; the *California’s* were modified after construction to carry a similar number of containers on deck. The last vessels constructed for States Lines, beginning in 1976, were the four very large Roll-On/Roll-Off vessels of the *Maine* Class (C7-S-95a). These vessels could carry a combination of vehicular cargo and containers (max 1,000); however, they were not successful in the market and proved to be an excessive financial drain on the company. States was forced into bankruptcy in 1979 a few years after the delivery of the last vessel of the class.

The six *California* -class vessels were chartered or sold to other U.S. shipping companies in the mid-1970s. During this time, Moore McCormack Lines purchased *M.M. Dant* and changed its name to *Mormacsaga*. On September 20, 1985 *Mormacsaga* was delivered to MARAD’s James River Reserve Fleet for service in its Ready Reserve Force (RRF). On November 11, 1986 title was transferred to MARAD and the ship’s name was changed to *Cape Johnson*. The vessel saw little service other than periodic test activations and maintenance periods prior to the first Gulf War. MARAD eventually acquired all six of the *California* Class; four of which (*California, Hawaii, M.M. Dant* and *C.E. Dant*) were upgraded to RRF status. The intended upgrade of *Oregon* was cancelled in 1987, which made the vessel available for conversion into the Training Ship *Empire State VI*. The sixth vessel, *Washington*, under the name *Mormacwave*, was retained in MARAD’s National Defense Reserve Fleet (NDRF) until it was scrapped in 2005.

*Cape Johnson* (right) conducting at-sea replenishment operations during Composite Unit Exercises in 1997 off Puerto Rico. Maritime Administration photograph.
Cape Johnson was one of 79 RRF vessels activated for participation in Operations DESERT SHIELD/DESERT STORM. The U.S. Navy’s Military Sealift Command (MSC) ordered the ship’s activation on April 23, 1990. In October 1990, Cape Johnson transported 1,257 tons of equipment from Naval Air Station Jacksonville, Florida, to Ad Dammam, Saudi Arabia. In December the ship carried 1,887 tons of materiel from Rotterdam, Netherlands to Ad Dammam. On February 22, 1991, while transporting ammunition from Sunny Point, North Carolina to the war zone, the ship was diverted after Iraq surrendered. After deactivation Cape Johnson returned to the JRRF.

In 1997 the vessel was activated to support the USS George Washington (CVN-73) Battle Group as a replenishment vessel during Composite Unit Training (COMPUTEX), which involved battle group training events, naval surface fire support training, and air-to-ground bombing off of Roosevelt Roads Naval Station in Puerto Rico. During this exercise, Modular Cargo Delivery Stations (MCDS) were used for the first time at sea to support cargo transfer to the battle group. The transfer system used tensioned high lines to transfer cargo from one ship to another while underway.

In January 2000, Cape Johnson participated in a joint task force exercise (JTFX 00-2) as an underway MCDS platform off the North Carolina coast. In November 2002, Cape Johnson participated in Operation ENDURING FREEDOM.
RRF Modifications

In 1976 the U.S. Navy developed the Merchant Ship Naval Augmentation Program (MSNAP) in response to the need for more auxiliary forces, including at-sea replenishment vessels, to support the U.S. Navy’s combatant fleet. As originally conceived, MSNAP vessels would serve as “shuttle ships” to resupply the dry cargo replenishment vessels, which could then remain on station with battle groups for extended periods of time. These shuttle ships were modified internally to suit the permanent carriage of palletized ammunition. This required fitting of tracked dunnage systems on cargo hold decks to secure the pallets, isolation bulkheads were installed to reduce heat transfer into the cargo holds from the engine room, and means were installed to support at-sea transfer of the ammunition to the primary replenishment vessels. All modified vessels had their personnel complements increased to support specialized navy cargo handling battalions.

Eight RRF vessels\(^2\) were modified under the MSNAP program prior to Operations DESERT SHIELD/DESERT STORM. A ninth vessel, Cape Alexander, completed modifications after the conflict ended. Cape Alexander was fitted with a much more capable underway replenishment system than that installed on the previous ships. The original shuttle ships were fitted with Sliding Padeyes (SPEs), which were a receive-only installation that required the replenishment vessel to control the ship-to-ship transfer operation. Cape Alexander was fitted with two Modular Cargo Delivery System (MCDS) stations. The MCDS was a fully-capable installation that allowed the equipped vessel to control the ship-to-ship transfer operation. An MCDS-equipped vessel could effectively operate as an underway replenishment vessel, thus freeing the larger and more sophisticated naval auxiliaries for more important assignments. Given the enhanced capability of the MCDS-equipped vessels, the program was renamed Sealift Enhancement Features (SEF), with the term generally applied to the entire suite of modifications. Six additional RRF vessels were modified under the SEF program; the four C4-S-1u Cape J class, and two larger vessels of the C5-S-75a class, Cape Gibson and Cape Girardeau.

**Vertical Replenishment (VERTREP)**

VERTREP is the ability to transfer cargo between ships while underway using helicopters. It is a versatile improvement to underway replenishment, and allows material transfers to be performed at distances well beyond traditional alongside operations. Nine of the RRF MSNAP/SEF vessels were equipped with elevated platforms and controls to support VERTREP operations. Three SPE-equipped Cape A-class vessels\(^3\) (C4-S-58a; similar to but not including Cape Ann) were fitted with VERTREP platforms that were certified for hover-only operations. This required the receiving ship to supply the helicopter, which could not land on the RRF vessel.

\(^2\) These included: Agent; Aide; Ambassador; Adventurer; Cape Alava; Cape Archway; Cape Ann; and Cape Avinof.
\(^3\) Cape Archway; Cape Ann; and Cape Avinof.
Palletized cargo was delivered to the platform by electric forklift trucks using a ramp located on one side of the ship. Because the MCDS consoles were much heavier than the SPE, Cape Ann did not have sufficient stability to permit installation of a VERTREP platform; it was the only MCDS ship that did not have VERTREP capability.

Cape Johnson and its three RRF sisters, along with Cape Gibson and Cape Girardeau were fitted with VERTREP platforms similar to those fitted to the Cape A vessels. Like the previous ships, these installations did not include helicopter support facilities and the platforms were certified for hover-only operations.

The combination of MCDS and VERTREP required significantly larger complements of navy cargo handling personnel than the SPE-equipped vessels. The Cape J’s passenger staterooms were converted into navy troop and officer berthing for these teams. This was the only significant internal change to the ships accommodations spaces.

Description/Characteristics of Vessel Type

**Type:** C4-S-1U  
**Official Number:** 289547  
**Previous names:** Mormacsaga; M. M. Dant  
**Builder:** National Steel and Shipbuilding Company, San Diego CA  
**Year:** 1962  
**Sister Ships:** Cape Juby, Cape Jacob, Cape John, Mormacwave, Empire State (VI)  
**Location:** James River Reserve Fleet  
**Length:** 528’ (between perpendiculars; 565’overall)  
**Beam:** 76’  
**Depth:** 46’ (at centerline; 44.5 at side)  
**Draft, design:** 29.83’  
**Displacement (maximum):** 22,630 LY  
**Deadweight (maximum):** 12,740 LT  
**Gross Tonnage (GRT):** 8,150 Measurement Tons  
**Net Tonnage (NRT):** 8,150 Measurement Tons  
**Cargo Capacity:** 683,000 cubic feet  
**Power (Normal):** 17,500 SHP (19,250 maximum)  
**Speed (Service):** 20 knots (20.75 maximum)  
**Main Engine:** General Electric Cross-Compound, Geared Steam Turbines (2) Two Water Tube Foster-Wheeler Boilers.

The C4-S-1u class, including Cape Johnson, is a typical “modified Mariner” of domestic design and construction. At the time that these ships were designed, most break-bulk vessels being built in the United States were modifications of, or derivatives from, MARAD’s basic Mariner design. The C4-S-1a Mariner program of the mid-1950s was a government effort to design new and improved standardized, subsidized vessels to replace aging WWII-era Maritime Commission ships that were then nearing the end of their service lives and were being rapidly eclipsed in foreign trades by more modern and efficient European and Japanese competitors. The Mariners were not fully successful at first, but soon developed a strong following, particularly in the transpacific trades, which could make best use of their speed and range characteristics. The Mariners eventually proved to be very popular ships and through the early 1960s, a total of about
65 modified and derivative Mariner-class vessels were built for several U.S. steamship companies.

*Cape Johnson* follows the typical Mariner arrangements and hull form. Seven cargo holds are arranged, four forward of the machinery space, and three aft. A single superstructure is fitted above the machinery space, which provides accommodations for licensed officers, crew, and up to 12 passengers. The cargo gear features booms and kingposts topped with crosstrees with four booms provided for each hold except holds one and seven, which each have two booms. The forecastle is raised and continues over cargo holds one and two and features an attractive curved transition to the main deck. As originally constructed, there were no provisions for stowage of containers. *Cape Johnson* is propelled by cross-compound geared marine steam turbines driving a single propeller. The boilers are typical marine “D” type operating at about 600 psi.

As mentioned previously, the Cape J class was constructed at two different shipyards. Of the four RRF vessels in the Cape J class, two (Cape Jacob and Cape Juby) were built by Newport News Shipbuilding & Dry Dock Company and delivered in 1962. The other two vessels (Cape Johnson and Cape John) were built by the National Steel & Shipbuilding Company. The differences between the Newport News and National Steel vessels were minor. Except for a forecastle that is stated to be 15 feet longer in the National ships, and some differences in the capacity of the cargo handling gear, they appear to be essentially the same. The National vessels have General Electric turbines, whereas the Newport News vessels have turbines manufactured by the shipyard; however, all six vessels (including *Empire State VI* and the scrapped *Mormacwave*) were fitted with the same design Foster-Wheeler boilers.

*Cape Johnson* and *Cape John* were fitted with an additional “tween deck” in several cargo holds during their SEF modifications. This was possible because the height of standard palletized ammunition was low enough to allow an intermediate deck to be fitted in what were otherwise very high cargo holds, thus allowing for denser stowage of ammunition. The change did not significantly alter the ships total cargo capacity because the volume of the holds remained close to the original (some break-bulk stowage capacity was lost due to the volume of the new deck structure). This modification did not significantly alter the basic design parameters of the vessel and had no external impact or impact to machinery.
Statement of Significance

_Cape Johnson_ is a good, but not unique example of the final evolutionary development of the break-bulk general cargo ship in the age just before the containerization revolution. It is an equally good representative of the domestic Mariner design, which dominated the U.S. foreign trade in the latter half of the 1950s and through the mid-1960s. The C4-S-1u was among the last modified-Mariner classes constructed, yet paradoxically is nearly the closest to the original C4-S-1a design from among the five major design variants built (C4-S-1q; 1s; 1sa; 1t and 1u). Consequently, _Cape Johnson_ is not significant from a technical standpoint.

The activation of the RRF during the build-up to DESERT SHIELD/DESERT STORM was the first large-scale activation and operation of the force since its creation in 1976, and the first major sustained sealift operation since the end of the Vietnam War. _Cape Johnson_ delivered military cargoes and provided desperately needed services in a time of national need. _Cape Johnson_ later served a similar function during Operation IRAQI FREEDOM. Subsequent crises involving MARAD’s role of assisting the military during national emergencies have generally utilized more efficient ship types more in keeping with modern logistics operations. The employment of _Cape Johnson_ in the aforementioned operations thus represented the end of the era of traditional oceangoing shipping.

Historical Integrity

The overall condition of _Cape Johnson_ is good; it has experienced only normal wear and aging for a vessel of its age. The late 1980’s SEF program did not significantly change the ship’s structure, arrangements or equipment. Throughout its service life _Cape Johnson_ has retained much of its original form and its overall historical integrity is good.

National Register Eligibility Statement

_Cape Johnson_ is the fifth of six of its class and type built at a time of rapidly changing commercial shipping needs. The ship is just short of 50-years-old and does not possess the extraordinary historical significance in any category necessary to be eligible for listing on the National Register of Historic Places. It remains a fairly typical break-bulk ship, similar in size, construction, machinery, propulsion, cargo capacity and other features to many of the 100 or so other break-bulk vessels constructed domestically in the 1950s and 60s. It was one of 79 RRF vessels activated by the navy to support Operations DESERT SHIELD/DESERT STORM and later for Operation IRAQI FREEDOM; however, its role was not significant enough to qualify under Criteria A, particularly considering the recent nature of those operations.

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Determination: NOT ELIGIBLE
Sources

