

U.S. Department of  
Homeland Security

United States  
Coast Guard



Commanding Officer  
United States Coast Guard  
Marine Safety Center

US Coast Guard Stop 7430  
2703 Martin Luther King Jr. Ave SE  
Washington, DC 20593-7430  
Staff Symbol: MSC-1  
Phone: (202) 795-6729  
Email: msc@uscg.mil

16710/P021891/rib  
Serial: H1-1901655  
May 31, 2019

Walworth Yacht Designs, PC  
Attn: Mr. David Walworth  
P. O. Box 3792  
Kingshill, VI 00851  
david@walworthdesigns.com

Subj: EL TORO, O. N. 1292295  
Gold Coast Yachts Hull No. GCY129  
39.8' x 16.5' x 7.9' Catamaran Small Passenger Vessel (T)  
Stability and Lightship Characteristics

Dear Mr. Walworth:

We reviewed references (a) through (m) of Enclosure (1), submitted by your electronic correspondence dated April 18, 2019 (MSC Document No. 1912373), for compliance with 46 CFR Subchapters T and S. References (a) through (m) are **Examined**. Supporting calculations and plans such as these are not normally approved; however, we used the information to verify the vessel's compliance with applicable stability requirements. As with all calculations, the responsibility for their accuracy rests with the submitter. The following comments apply:

1. Based on our verification of the vessel's calculated lightship values and our review of the stability calculations, we concur that, as presently outfitted and configured, the vessel has adequate stability for service with a maximum of 32 persons, of which 30 may be passengers, on an Exposed Waters route. This analysis is based on an average weight per person of 185 pounds.

2. We agree that the assumed lightship vertical center of gravity of 3.58 feet above the design waterline is a conservative estimate. This height corresponds to 5.04 feet above the baseline.

3. As the subject vessel will operate on exposed waters, is under 65 feet in length, and will carry less than 50 passengers, typically only the collision bulkheads (Bulkhead 2) would be required for stability compliance. However, in this instance, all transverse watertight bulkheads are required for the bilge pump exemption special consideration discussed in reference (n). In addition, all of the bulkheads are necessary for structural compliance.

As an agreed-upon condition of your participation in the Marine Safety Center's electronic commerce program, you must provide the OCMI with a copy of this letter and identical paper copies of references (a) through (m).

Subj: EL TORO, O. N. 1292295  
Stability and Lightship Characteristics

16710/P021891/rib  
Serial: H1-1901655  
May 31, 2019

Our Project Number for this vessel is P021891. Please ensure that all future correspondence includes the Project Number and the Official Number that appears in the subject line.

Please contact Mr. Robert I. Barra at (831) 515-6025 with questions concerning our review.

Sincerely,



C. D. COOPER  
Lieutenant, U. S. Coast Guard  
Chief, Small Vessel Branch  
By direction

Encl: (1) List of References  
(2) Stability Letter for EL TORO, O.N. 1292295, dated May 31, 2019

Copy: Commander, Coast Guard Sector San Juan, Prevention Department  
Supervisor, Marine Safety Detachment St. Thomas

## List of References

- (a) Walworth Yacht Designs, PC (WYD) Doc. "Stability Calculations, M/V El Toro, Project # P021891, O.N. 1292295," 2 pages, dated April 17, 2019
- (b) WYD Doc. "Deadweight Survey El Toro," 5 pages, dated April 12, 2019
- (c) WYD Doc. "Freeboards to Drafts," 1 page, received April 18, 2019
- (d) WYD Doc. "Summary of Deadweight Survey Results," 1 page, received April 18, 2019
- (e) WYD Doc. "Stability Calculations," 4 pages, received April 18, 2019
- (f) WYD Doc. No. 129BDWGHT.PF, dated April 17, 2019
- (g) WYD Doc. No. 129BTANKS.PF, dated April 17, 2019
- (h) WYD Doc. No. 170170\_129B.PF, dated April 17, 2019
- (i) WYD Doc. No. 170173\_129B.PF, dated April 17, 2019
- (j) WYD Doc. No. 171050\_129B.PF, dated April 17, 2019
- (k) WYD Doc. No. 129Bstats.rf, dated April 17, 2019
- (l) WYD Dwg. No. WYD-GCY129-001, Rev. 0, "Deadweight Survey Locations," dated April 16, 2019
- (m) WYD Dwg. No. WYD-GCY129-002, Rev. 0, "Deadweight Survey Locations," dated April 16, 2019
- (n) Our letter Serial No. H1-1901448 dated May 15, 2019