

U.S. Department of
Homeland Security

United States
Coast Guard



Commanding Officer
United States Coast Guard
Marine Safety Center

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STABILITY LETTER

16710/P022765

Serial: H1-2003651

November 12, 2020

Master, BLUE PARADISE, O. N. 1304537
Gold Coast Yachts, Inc. Hull No. GCY133
78.2' x 28.3' x 7.0' Catamaran Small Passenger Vessel (T)

You are responsible for maintaining this vessel in a satisfactory stability condition at all times and for following the instructions and precautions listed below. You are reminded that 46 CFR 185.315 requires you to verify your compliance with these instructions and precautions after loading and prior to departure on each voyage.

A deadweight survey, witnessed by the U.S. Coast Guard, was conducted on the BLUE PARADISE, O. N. 1304537, at Salt River, St. Croix, on October 6, 2020. On the basis of that survey, and a conservative estimate of the vessel's lightship vertical center of gravity, stability calculations have been performed. Results indicate that the stability of BLUE PARADISE, as presently outfitted and equipped, is satisfactory for operation on Exposed Waters, provided that the following restrictions are observed.

DAMAGE SURVIVAL

When operated as indicated below, calculations indicate this vessel will stay upright (no more than 7 degrees of list under ideal conditions) after side or bottom damage, when the damage is limited to any one major compartment in either hull and not more than 1 foot 2-5/8 inches inboard from the side of either hull or from the bottom of either hull without limit. A major compartment is the total space between any two adjacent Main Transverse Watertight Bulkheads (MTWB's). For this vessel, the MTWB's are located at the following longitudinal locations aft of the forward perpendicular in each hull: 8 feet, 21 feet, 40 feet, and 66 feet.

Calculations further indicate this vessel will remain afloat and upright when damage is limited to both hulls (concurrently) forward of the collision bulkheads, which are located 6 feet aft of the forward perpendicular. To maintain the vessel upright after flooding (damage), the heeling forces imposed by wind, wave, and passenger movements must be minimized.

OPERATING RESTRICTIONS

1. ROUTE: Operation on Exposed Waters may be permitted. Since the vessel's route is based upon other considerations in addition to stability, you are cautioned that the route may be further limited to that specified on the Certificate of Inspection (COI).

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2. PERSONNEL: A maximum of 134 persons may be carried on this two-deck vessel, of which 125 may be passengers. A maximum of 42 persons may be carried on the upper deck. These numbers are based on an average weight of 185 pounds per person. Since the personnel capacity is based upon other considerations in addition to stability, you are cautioned that the number of persons carried and their distribution may be further limited to that specified on the COI.

3. FREEBOARD AND DRAFT: A minimum freeboard of 2 feet 11-3/8 inches to the main deck at the amidships loading marks must be maintained. This corresponds to a maximum baseline (mean) draft of 6-5/8 inches. The amidships loading marks are located 43 feet 6 inches aft of the forward perpendicular. The maximum draft, as measured on the loading marks from baseline of 5-1/4 inches (forward) and 6-1/2 inches (aft) is permitted in any condition of loading and trim, so long as the maximum midships draft is not exceeded. The forward and aft loading marks are located 2 feet and 75 feet 6 inches aft of the forward perpendicular, respectively.

4. WATERTIGHT DOORS AND BULKHEADS: There are no doors located in any MTWB's. No watertight doors or bulkheads shall be added, removed, or altered without the authorization and supervision of the cognizant Officer in Charge, Marine Inspection (OCMI).

5. HULL OPENINGS: Any openings that could allow water to enter the hull or deckhouse should be kept closed when rough weather or sea conditions exist or are anticipated.

6. WEIGHT CHANGES: This stability letter has been issued based upon the following lightship parameters:

Displacement	21.05	Long Tons (LT)
VCG (Conservative Estimate)	4.54	Feet Above the Baseline
LCG	42.42	Feet Aft of Forward Perpendicular
TCG	0.31	Feet Port of Centerline

The FP is located 1 foot 6 inches aft of the bow. The baseline is located at the design waterline. Any alteration resulting in a change in these parameters may invalidate this stability letter. The vessel is not fitted with fixed ballast. No fixed ballast or other such weights shall be added, removed, altered, and/or relocated without the authorization and supervision of the OCMI.

7. TANKS: The number of slack tanks should be minimized. Any cross-connections between port and starboard tank pairs shall be kept closed at all times when underway.

8. BILGES: The vessel's bilges and voids shall be kept pumped to minimum content at all times consistent with pollution prevention requirements.

9. LIST: You should make every effort to determine the cause of any list of the vessel before taking corrective action.

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10. FREEING PORTS: Deck freeing ports and drains shall be maintained operable and completely unobstructed at all times.

This stability letter shall be posted under glass or other suitable transparent material at the operating station in the pilothouse so that all pages are visible.



J. B. BYBEE
Lieutenant Commander, U. S. Coast Guard
By direction

