No part of a report of a marine casualty investigation shall be admissible
as evidence in any civil or administrative proceeding, other than an administrative proceeding initiated by
the United States. 46 U.S.C. §6308.

U.S. Department of Homeland Security
United States Coast Guard

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16717/P024884
Serial C3-2501740
21 May 2025

MEMORANDUM

From: [redacted]
CG MSC (MSC-4), Tonnage Division Chief

To: [redacted]
COMDT (CG-INV), Deputy Chief

Subj: TONNAGE ESTIMATE - OCEAN GATE SUBMERSIBLE TITAN (CG1788361)

Ref: (a) Title 46 Code of Federal Regulation, Part 69 *Measurement of Vessels*
(b) Marine Safety Center Technical Note MTN 01-99 CH-10 *Tonnage Technical Policy*

1. Your office's email dated May 7th (MSC doc# 2513338) requested a tonnage estimate for the subject vessel. An official admeasurement of the vessel could not be conducted due to the lack of detailed plans sufficient for conducting the required calculations, nor is the vessel available for survey as it was destroyed in the 2023 marine casualty. Based on our informal assessment described below, the vessel is estimated to be 4 GRT / 3 NRT.

2. As is typical of small submersibles, tonnage was assessed using subpart E of reference (a) *Simplified Regulatory Measurement System*, with amplifying guidance in reference (b). The vessel's principal dimensions of Overall Breadth, Overall Depth, and Overall Length are as defined in the referenced standards, noting the vessel to be novel in nature. The Gross Register Tonnage (GRT) was based off the buoyant hull dimensions (22' x 5.5' x 5.5') and a form factor of 0.67 for 'a vessel not designed for sailing.' The Net Register Tonnage (NRT) was calculated as 80 percent of the GRT, considering the arrangement of the propulsion machinery with respect to the buoyant boundaries of the vessel. These dimensions were taken from partial plans of the vessel provided by your office. The plans contained detailed dimensions of the pressure hull, but incomplete information regarding the general arrangements, structural fairings, and the segregated buoyancy box considered part of the hull and included in the overall dimensions. To supplement the plans, photographs were used to estimate overall dimensions and volumes.

3. To verify the general characterization of the vessel's tonnage as being under 5 NRT, an estimated 'formal measurement' was conducted using the *Standard Regulatory Measurement System* found in Subpart C of reference (a). This calculation was not conclusive due to the limited information available and detailed measurements required; but confirmed that the 'simplified tonnage calculation' provides a valid estimate of the vessel's tonnage. I also note that the *Convention Measurement System* found in Subpart B of reference (a) does not apply to this vessel due to its overall length being less than 79' as noted in 46 CFR 69.111(a)(2)(ii).

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Copy: COMDT (CG-CVC)