



Verification Statement

Crowley

2020 and 2022 Greenhouse Gas Emissions Inventory

Verification Scope:

Ruby Canyon Environmental, Inc (RCE) was contracted by Switch to perform the third-party greenhouse gas (GHG) emissions inventory verification for Crowley's facilities reporting under operational control to the requirements of the GHG Protocol and the GHG Protocol Scope 2 and Scope 3 Guidance. RCE verified emissions for calendar year (CY) 2020 and CY 2022. The inventory includes emissions from the following GHGs: carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O) from direct, scope 1 sources (stationary fuel combustion, mobile fuel combustion, fugitive); indirect, scope 2 sources (purchased electricity) using both the location-based and market-based calculation methodologies, and Scope 3 emissions from the following categories: Purchased Goods and services, Capital Goods, Fuel-and-energy-related Activities (WTT), Waste Generated in Operations, Business Travel, Employee Commuting, Use of Sold Products, Downstream Leased Assets, and Investments.

Verification Objectives:

- To ensure that Crowley's GHG assertion is materially correct and that the verification is conducted to the agreed level of assurance,
- To assess the extent of conformity with the stated criteria,
- To determine the completeness of Crowley's reported data and information, and
- To evaluate Crowley's information systems and the controls and management of those systems.

Greenhouse Gas Reporting Criteria:

Switch was assessed against the requirements of *The Greenhouse Gas Protocol (GHG Protocol): Corporate Accounting and Reporting Standard*, *World Resources Institute and World Business Council for Sustainable Development* (March 2004), the *GHG Protocol Scope 2 Guidance* (2015), and *Technical Guidance for Calculating Scope 3 emissions* (2013). All requirements of the *GHG Protocol* including greenhouse gas reporting, management systems, quantification techniques, and emission factors were reviewed during the verification.

Greenhouse Gas Verification Criteria:

Verification activities were performed in accordance with *ISO 14064-3:2006 Greenhouse Gases – Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions*.

Level of Assurance:

A limited level of assurance was applied to Crowley's combined location-based Scope 1, Scope 2, and Scope 3 emissions during verification.

Organizational Boundaries:

Crowley consolidated the emissions reported in the GHG Inventory according to the operational control approach.

GHG Emissions Verified:**Table 1. Total Entity Emissions**

Emissions Verified	2020 MT CO₂e (metric tons)	2022 MT CO₂e (metric tons)
Stationary Combustion	15,231	20,511
Mobile Combustion	356,968	446,323
Refrigerants	11,255	12,650
Scope 1 Total	383,455	479,484
Purchased Electricity (location-based)	29,291	31,987
Scope 2 Total (Location based)	29,291	31,987
Purchased Electricity (market-based)	29,929	32,488
Scope 2 Total (Market based)	29,929	32,488
Scope 3 Total	3,318,711	3,650,927

*Individual categories may not sum to total due to rounding.

Verification Opinion:

☒ Verified without Qualification
☐ Unable to Verify

Signatures:


Jessica Stavole, Lead Verifier

Date December 7, 2023



Masury Lynch, Independent Peer Reviewer

Date December 7, 2023

Ruby Canyon Environmental, Inc.
 743 Horizon Court, Suite 385
 Grand Junction, CO 81506



RUBY CANYON ENVIRONMENTAL

Verification Statement

Crowley Maritime Corporation

2021 Greenhouse Gas Emissions Inventory

Verification Scope:

Ruby Canyon Environmental, Inc (RCE) was contracted by Crowley Maritime Corporation (Crowley) to perform the third-party greenhouse gas (GHG) emissions inventory verification for Crowley's facilities reporting under operational control to the requirements of the GHG Protocol. RCE verified emissions for calendar year 2021. The inventory included emissions of CO₂, CH₄, and N₂O from direct, Scope 1 sources (stationary and mobile fuel combustion); indirect, Scope 2 sources (purchased electricity) using the location-based and market-based calculation methodologies; and indirect, Scope 3 sources (Use of Sold Products, Purchased Goods and Services, Capital Goods, among others). There are no PFC or SF₆ emissions within Crowley's reporting boundary.

Verification Objectives:

- To ensure that Crowley's GHG assertion is materially correct and that the verification is conducted to the agreed level of assurance,
- To assess the extent of conformity with the stated criteria,
- To determine the completeness of Crowley's reported data and information, and
- To evaluate Crowley's information systems and the controls and management of those systems.

Greenhouse Gas Reporting Criteria:

Crowley was assessed against the requirements of *The Greenhouse Gas Protocol (GHG Protocol): Corporate Accounting and Reporting Standard*, World Resources Institute and World Business Council for Sustainable Development, dated March 2004. All requirements of the *GHG Protocol* including greenhouse gas reporting, management systems, quantification techniques, and emission factors were reviewed during the verification.

Greenhouse Gas Verification Criteria:

Verification activities were performed in accordance with *ISO 14064-3:2006 Greenhouse Gases – Part 3: Specification with guidance for the validation and verification of greenhouse gas assertions*.

Level of Assurance:

A limited level of assurance was applied to Crowley's Scope 1, 2 and 3 emissions during the verification.

Organizational Boundaries:

Crowley consolidated the emissions reported in the GHG Inventory according to the operational control approach.

GHG Emissions Verified:

Emissions Verified	MT CO ₂ e
Scope 1 Total	419,634
Scope 2 - Location Total	32,056
Scope 2 - Market Total	33,119
Scope 3 Total	3,461,962

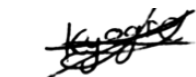
Verification Opinion:

RCE conducted a risk-based analysis of the Crowley GHG emissions inventory and a strategic review of the inventory data and calculations in conformance with the GHG Protocol.

Based on the data and information provided, RCE concludes with a limited level of assurance that there is no evidence that the GHG assertion:

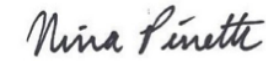
- Is not materially correct,
- Is not a fair representation of the GHG emissions data and information, and
- Is not prepared in accordance with the criteria listed above.

Signatures:



Miguel Freyermuth, Lead Verifier

Date: Feb 7, 2023



Nina Pinette, Independent Peer Reviewer

Date: Feb 7, 2023

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