

OVERSEAS SHIPHOLDING GROUP INC
Form 10-K
March 12, 2018
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 10-K

FOR ANNUAL AND TRANSITION REPORTS
PURSUANT TO SECTION 13 OR 15(d) OF THE
SECURITIES EXCHANGE ACT OF 1934

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2017

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT
OF 1934

For the Transition Period from _____ to _____.

Commission File Number 1-6479-1

OVERSEAS SHIPHOLDING GROUP, INC.
(Exact name of registrant as specified in its charter)

Delaware 13-2637623
(State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification Number)

302 Knights Run Avenue, Tampa, Florida 33602
(Address of principal executive offices) (Zip Code)

Registrant's telephone number, including area code: 813-209-0600

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Name of each exchange on which registered
Class A Common Stock (par value \$0.01 per share)	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.
Yes No

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Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes No

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (Section 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company or an emerging growth company. See definitions of "large accelerated filer," "accelerated filer," "smaller reporting company" and "emerging growth company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer <input type="radio"/>	Accelerated filer <input checked="" type="radio"/>	Non-accelerated filer <input type="radio"/> (Do not check if a smaller reporting company)	Smaller reporting company <input type="radio"/>	Emerging growth company <input type="radio"/>
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If emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

APPLICABLE ONLY TO ISSUERS INVOLVED IN BANKRUPTCY PROCEEDINGS DURING THE PRECEDING FIVE YEARS

Indicate by check mark whether the registrant has filed all documents and reports required to be filed by Sections 12, 13 or 15(d) of the Securities Exchange Act of 1934 subsequent to the distribution of securities under a plan confirmed by a court. Yes No

The aggregate market value of the common equity held by non-affiliates of the registrant on June 30, 2017, the last business day of the registrant's most recently completed second quarter, was \$121,143,471, based on the closing price of \$2.66 per share of Class A common stock on the NYSE exchange on that date. For this purpose, all outstanding shares of common stock have been considered held by non-affiliates, other than the shares beneficially owned by directors, officers and certain 5% stockholders of the registrant; certain of such persons disclaim that they are affiliates of the registrant.

The number of shares outstanding of the issuer's Class A common stock, as of January 31, 2018: Class A common stock, par value \$0.01 – 78,361,687 shares. Excluded from these amounts are penny warrants, which were outstanding as of January 31, 2018, for the purchase of 9,558,118 shares of Class A common stock without consideration of any withholding pursuant to the cashless exercise procedures.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the registrant's definitive proxy statement to be filed by the registrant in connection with its 2018 Annual Meeting of Stockholders are incorporated by reference in Part III

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References in this Annual Report on Form 10-K to the “Company”, “OSG”, “we”, “us”, or “our” refer to Overseas Shipholding Group, Inc. and, unless the context otherwise requires or otherwise is expressly stated, its subsidiaries.

A glossary of shipping terms (the “Glossary”) that should be used as a reference when reading this Annual Report on Form 10-K can be found immediately prior to Part I. Capitalized terms that are used in this Annual Report are either defined when they are first used or in the Glossary.

All dollar amounts are stated in thousands of U.S. dollars unless otherwise stated.

AVAILABLE INFORMATION

The Company makes available free of charge through its internet website www.osg.com, its Annual Report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to these reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended, as soon as reasonably practicable after the Company electronically files such material with, or furnishes it to, the Securities and Exchange Commission (the “SEC”). Our website and the information contained on that site, or connected to that site, are not incorporated by reference in this Annual Report on Form 10-K.

The public may also read and copy any materials the Company files with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549 (information on the operation of the Public Reference Room is available by calling the SEC at 1-800-SEC-0330). The SEC also maintains a website that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC at <http://www.sec.gov>.

The Company also makes available on its website its corporate governance guidelines, its code of business conduct, insider trading policy, anti-bribery and corruption policy and charters of the Audit Committee, Human Resources and Compensation Committee and Corporate Governance and Risk Assessment Committee of the Board of Directors. Neither our website nor the information contained on that site, or connected to that site, is incorporated by reference into this Annual Report on Form 10-K.

FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K contains forward looking statements. In addition, we may make or approve certain statements in future filings with the SEC, in press releases, or oral or written presentations by representatives of the Company. All statements other than statements of historical facts should be considered forward-looking statements. Words such as “may”, “will”, “should”, “would”, “could”, “appears”, “believe”, “intends”, “expects”, “estimates”, “targeted”, “anticipates”, “goal”, and similar expressions are intended to identify forward-looking statements but should not be considered as the only means through which these statements may be made. Such forward-looking statements represent the Company’s reasonable expectation with respect to future events or circumstances based on various factors and are subject to various risks and uncertainties and assumptions relating to the Company’s operations, financial results, financial condition, business, prospects, growth strategy and liquidity. Accordingly, there are or will be important factors, many of which are beyond the control of the Company, that could cause the Company’s actual results to differ materially from the expectations expressed or implied in these statements. Undue reliance should not be placed on any forward-looking statements and consideration should be given to the following factors when reviewing such statements. Such factors include, but are not limited to:

- the highly cyclical nature of OSG’s industry;

- market value of vessels fluctuates significantly
- an increase in the supply of Jones Act vessels without a commensurate increase in demand;
- changing economic, political and governmental conditions in the United States or abroad and general conditions in the oil and natural gas industry;
- changes in fuel prices;
- the adequacy of OSG's insurance to cover its losses, including in connection with maritime accidents or spill events;
- constraints on capital availability;
- public health threats;
- acts of piracy on ocean-going vessels or terrorist attacks and international hostilities and instability;
- the Company's compliance with 46 U.S.C. sections 50501 and 55101 (commonly known as the "Jones Act") and the heightened exposure to the Jones Act market fluctuations and reduced diversification following the spin-off from OSG on November 30, 2016 of International Seaways, Inc. (INSW), which owned or leased OSG's fleet of International Flag vessels;

- the effect of the Company's indebtedness on its ability to finance operations, pursue desirable business operations and successfully run its business in the future;
- the Company's ability to generate sufficient cash to service its indebtedness and to comply with debt covenants;
- changes in demand in specialized markets in which the Company currently trades;
- competition within the Company's industry and OSG's ability to compete effectively for charters;
- the Company's ability to renew its time charters when they expire or to enter into new time charters, to replace its operating leases on favorable terms or the loss of a large customer;
- the Company's ability to realize benefits from its acquisitions or other strategic transactions;
- the loss of, or reduction in business by, the Company's largest customers;
- refusal of certain customers to use vessels of a certain age;
- the Company's significant operating leases could be replaced on less favorable terms or may not be replaced;
- changes in credit risk with respect to the Company's counterparties on contracts or the failure of contract counterparties to meet their obligations;
- increasing operating costs, unexpected drydock costs or increasing capital expenses as the Company's vessels age, including increases due to limited shipbuilder warranties of the consolidation of suppliers;
- unexpected drydock costs for the Company's vessels;
- the potential for technological innovation to reduce the value of the Company's vessels and charter income derived therefrom;
- the impact of an interruption in or failure of the Company's information technology and communication systems upon the Company's ability to operate or a cybersecurity breach;
- work stoppages or other labor disruptions by the unionized employees of OSG or other companies in related industries or the impact of any potential liabilities resulting from withdrawal from participation in multiemployer plans;
- the Company's ability to attract, retain and motivate key employees;
- ineffective internal controls;
- the impact of a delay or disruption in implementing new technological and management systems;
- the impact of potential changes in U.S. tax laws;
- limitations on U.S. coastwise trade, the waiver, modification or repeal of the Jones Act limitations or changes in international trade agreements;
- government requisition of the Company's vessels during a period of war or emergency;
- the Company's compliance with complex laws, regulations and in particular, environmental laws and regulations, including those relating to the emission of greenhouse gases and ballast water treatment;
- the inability to clear oil majors' risk assessment process;
- the impact of litigation, government inquiries and investigations;
- the arrest of OSG's vessels by maritime claimants;
- the Company's U.S. federal income tax position in respect of certain credit agreement borrowings used by INSW is not free from doubt;
- the Company's ability to use its net operating loss carryforwards;
- market price of the Company's securities fluctuates significantly;
- the Company's ability to sell warrants may be limited and the exercise of outstanding warrants may result in substantial dilution;
- the Company's common stock is subject to restrictions on foreign ownership;
- OSG is a holding company and depends on the ability of its subsidiaries to distribute funds to it in order to satisfy its financial obligations or pay dividends;
- some provisions of Delaware law and the Company's governing documents could influence its ability to effect a change of control and
- securities analysts may not initiate coverage or continue to cover the Company's securities.

Investors should carefully consider these risk factors and the additional risk factors outlined in more detail in this Annual Report on Form 10-K and in other reports hereafter filed by the Company with the SEC under the caption “Risk Factors.” The Company assumes no obligation to update or revise any forward looking statements. Forward looking statements in this Annual Report on Form 10-K and written and oral forward looking statements attributable to the Company or its representatives after the date of this Annual Report on Form 10-K are qualified in their entirety by the cautionary statement contained in this paragraph and in other reports hereafter filed by the Company with the SEC.

SUPPLEMENTARY FINANCIAL INFORMATION

The Company reports its financial results in accordance with generally accepted accounting principles of the United States of America (“GAAP”). However, the Company has included certain non-GAAP financial measures and ratios, which it believes, provide useful information to both management and readers of this report in measuring the financial performance and financial

condition of the Company. These measures do not have a standardized meaning prescribed by GAAP and, therefore, may not be comparable to similarly titled measures presented by other publicly traded companies, nor should they be construed as an alternative to other titled measures determined in accordance with GAAP.

The Company presents three non-GAAP financial measures: time charter equivalent revenues, EBITDA and Adjusted EBITDA. Time charter equivalent revenues represent shipping revenues less voyage expenses, as a measure to compare revenue generated from a voyage charter to revenue generated from a time charter. EBITDA represents net income/(loss) from continuing operations before interest expense and income taxes and depreciation and amortization expense. Adjusted EBITDA consists of EBITDA adjusted for the impact of certain items that we do not consider indicative of our ongoing operating performance.

This Annual Report on Form 10-K includes industry data and forecasts that we have prepared based, in part, on information obtained from industry publications and surveys. Third-party industry publications, surveys and forecasts generally state that the information contained therein has been obtained from sources believed to be reliable. In addition, certain statements regarding our market position in this report are based on information derived from the Company's market studies and research reports. Unless we state otherwise, statements about the Company's relative competitive position in this report are based on our management's beliefs, internal studies and management's knowledge of industry trends.

GLOSSARY

Unless otherwise noted or indicated by the context, the following terms used in the Annual Report on Form 10-K have the following meanings:

Aframax—A medium size crude oil tanker of approximately 80,000 to 120,000 deadweight tons. Aframaxes can generally transport from 500,000 to 800,000 barrels of crude oil and are also used in Lightering. A coated Aframax operating in the refined petroleum products trades may be referred to as an LR2.

Articulated Tug Barge or ATB—A tug-barge combination system capable of operating on the high seas, coastwise and further inland. It combines a normal barge, with a bow resembling that of a ship, but having a deep indent at the stern to accommodate the bow of a tug. The fit is such that the resulting combination behaves almost like a single vessel at sea as well as while maneuvering.

Ballast — Any heavy material, including water, carried temporarily or permanently in a vessel to provide desired draft and stability.

Bareboat Charter—A Charter under which a customer pays a fixed daily or monthly rate for a fixed period of time for use of the vessel. The customer pays all costs of operating the vessel, including voyage and vessel expenses. Bareboat charters are usually long term.

b/d—Barrels per day.

CERCLA—The abbreviation for the U.S. Comprehensive Environmental Response, Compensation, and Liability Act.

Charter—Contract entered into with a customer for the use of the vessel for a specific voyage at a specific rate per unit of cargo ("Voyage Charter"), or for a specific period of time at a specific rate per unit (day or month) of time ("Time Charter").

Classification Societies—Organizations that establish and administer standards for the design, construction and operational maintenance of vessels. As a practical matter, vessels cannot trade unless they meet these standards.

Contract of Affreightment or COA—An agreement providing for the transportation between specified points for a specific quantity of cargo over a specific time period but without designating specific vessels or voyage schedules, thereby allowing flexibility in scheduling since no vessel designation is required. COAs can either have a fixed rate or a market-related rate. One example would be two shipments of 70,000 tons per month for two years at the prevailing spot rate at the time of each loading.

Crude Oil—Oil in its natural state that has not been refined or altered.

Deadweight tons or dwt—The unit of measurement used to represent cargo carrying capacity of a vessel, but including the weight of consumables such as fuel, lube oil, drinking water and stores.

Demurrage—Additional revenue paid to the shipowner on its Voyage Charters for delays experienced in loading and/or unloading cargo that are not deemed to be the responsibility of the shipowner, calculated in accordance with specific Charter terms.

Double Hull—Hull construction design in which a vessel has an inner and an outer side and bottom separated by void space, usually two meters in width.

Drydocking—An out-of-service period during which planned repairs and maintenance are carried out, including all underwater maintenance such as external hull painting. During the drydocking, certain mandatory Classification Society inspections are carried out and relevant certifications issued. Normally, as the age of a vessel increases, the cost and frequency of drydockings increase.

Exclusive Economic Zone—An area that extends up to 200 nautical miles beyond the territorial sea of a state's coastline (land at lowest tide) over which the state has sovereign rights for the purpose of exploring, exploiting, conserving and managing natural resources.

Floating Storage Offloading Unit or FSO—A converted or newbuild barge or tanker, moored at a location to receive crude or other products for storage and transfer purposes. FSOs are not equipped with processing facilities.

Handysize Product Carrier—A small size Product Carrier of approximately 29,000 to 50,000 deadweight tons. This type of vessel generally operates on shorter routes (short haul).

International Energy Agency or IEA — An intergovernmental organization established in the framework of the Organization for Economic Co-operation and Development in 1974. Among other things, the IEA provides research, statistics, analysis and recommendations relating to energy.

International Maritime Organization or IMO—An agency of the United Nations, which is the body that is responsible for the administration of internationally developed maritime safety and pollution treaties, including MARPOL.

International Flag—International law requires that every merchant vessel be registered in a country. International Flag refers to those vessels that are registered under a flag other than that of the United States.

International Flag vessel—A vessel that is registered under a flag other than that of the United States.

Jones Act—U.S. law that applies to port-to-port shipments within the continental U.S. and between the continental U.S. and Hawaii, Alaska, Puerto Rico, and Guam, and restricts such shipments to U.S. Flag Vessels that are built in the United States and that are owned by a U.S. company that is more than 75% owned and controlled by U.S. citizens, set forth in 46 U.S.C. sections 50501 and 55101.

Jones Act Fleet—A fleet comprised of vessels that comply with the Jones Act regulations.

Lightering—The process of off-loading crude oil or petroleum products from large size tankers, typically Very Large Crude Carriers, into smaller tankers and/or barges for discharge in ports from which the larger tankers are restricted due to the depth of the water, narrow entrances or small berths.

LNG Carrier—A vessel designed to carry liquefied natural gas, that is, natural gas cooled to -163° centigrade, turning it into a liquid and reducing its volume to 1/600 of its volume in gaseous form. LNG is the abbreviation for liquefied

natural gas.

LR1—A coated Panamax tanker. LR is an abbreviation of Long Range.

LR2—A coated Aframax tanker,

MarAd—The Maritime Administration of the U.S. Department of Transportation.

Maritime Security Program or MSP—The U.S. Maritime Security Program, which ensures that militarily useful U.S. Flag vessels are available to the U.S. Department of Defense in the event of war or national emergency. These vessels are required to trade outside the United States but are eligible for government sponsored business. Under the MSP, participants receive an annual fee in exchange for a guarantee that the vessels will be made available to the U.S. government in the event of war or national emergency.

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MARPOL—International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto. This convention includes regulations aimed at preventing and minimizing pollution from ships by accident and by routine operations.

MR—An abbreviation for Medium Range. Certain types of vessel, such as a Product Carrier of approximately 45,000 to 53,000 deadweight tons, generally operate on medium-range routes.

MSP vessels—U.S. Flag vessels that participate in the Maritime Security Program.

OECD—Organization for Economic Cooperation and Development is a group of developed countries in North America, Europe and Asia.

OPA 90—OPA 90 is the abbreviation for the U.S. Oil Pollution Act of 1990.

OPEC—Organization of Petroleum Exporting Countries, which is an international organization established to coordinate and unify the petroleum policies of its members.

P&I Insurance —Protection and indemnity insurance is a form of marine insurance provided by a P&I club. A P&I club is a mutual (i.e., a co-operative) insurance association that provides cover for its members, who will typically be ship-owners, ship-operators or demise charterers.

Panamax—A medium size vessel of approximately 53,000 to 80,000 deadweight tons. A coated Panamax operating in the refined petroleum products trades may be referred to as an LR1.

Product Carrier—General term that applies to any tanker that is used to transport refined oil products, such as gasoline, jet fuel or heating oil.

Safety Management System or SMS—A framework of processes and procedures that addresses a spectrum of operational risks associated with quality, environment, health and safety. The SMS is certified by ISM (International Safety Management Code), ISO 9001 (Quality Management) and ISO 14001 (Environmental Management).

Scrapping—The disposal of vessels by demolition for scrap metal.

Shuttle Tanker—A tanker, usually with special fittings for mooring, which lifts oil from offshore fields and transports it to a shore storage or refinery terminal on repeated trips.

Special Survey—An extensive inspection of a vessel by classification society surveyors that must be completed once within every five-year period. Special Surveys require a vessel to be drydocked.

Suezmax—A large crude oil tanker of approximately 120,000 to 200,000 deadweight tons. Suezmaxes can generally transport about one million barrels of crude oil.

Technical Management or technically managed—The management of the operation of a vessel, including physically maintaining the vessel, maintaining necessary certifications, and supplying necessary stores, spares, and lubricating oils. Responsibilities also generally include selecting, engaging and training crew, and arranging necessary insurance coverage.

Time Charter—A Charter under which a customer pays a fixed daily or monthly rate for a fixed period of time for use of the vessel. Subject to any restrictions in the Charter, the customer decides the type and quantity of cargo to be carried and the ports of loading and unloading. The customer pays all voyage expenses such as fuel, canal tolls, and port charges. The shipowner pays all vessel expenses such as the Technical Management expenses.

Time Charter Equivalent or TCE—TCE is the abbreviation for Time Charter Equivalent. TCE revenues, which are voyage revenues less voyage expenses, serve as an industry standard for measuring and managing fleet revenue and comparing results between geographical regions and among competitors.

Ton-mile demand—A calculation that multiplies the average distance of each route a tanker travels by the volume of cargo moved. The greater the increase in long haul movement compared with shorter haul movements, the higher the increase in ton-mile demand.

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U.S. Flag fleet — Our Jones Act Fleet together with our MSP vessels.

U.S. Flag vessel—Is a vessel that must be crewed by U.S. sailors, and owned and operated by a U.S. company.

Vessel Expenses—Includes crew costs, vessel stores and supplies, lubricating oils, maintenance and repairs, insurance and communication costs associated with the operations of vessels.

VLCC—VLCC is the abbreviation for Very Large Crude Carrier, a large crude oil tanker of approximately 200,000 to 320,000 deadweight tons. VLCCs can generally transport two million barrels or more of crude oil. These vessels are mainly used on the longest (long haul) routes from the Arabian Gulf to North America, Europe, and Asia, and from West Africa to the United States and Far Eastern destinations.

Voyage Charter—A Charter under which a customer pays a transportation charge for the movement of a specific cargo between two or more specified ports. The shipowner pays all voyage expenses, and all vessel expenses, unless the vessel to which the Charter relates has been time chartered in. The customer is liable for Demurrage, if incurred.

Voyage Expenses—Includes fuel, port charges, canal tolls, cargo handling operations and brokerage commissions paid by the Company under Voyage Charters. These expenses are subtracted from shipping revenues to calculate Time Charter Equivalent revenues for Voyage Charters.

PART I

ITEM 1. BUSINESS

OVERVIEW AND RECENT DEVELOPMENTS

Overseas Shipholding Group, Inc., a Delaware corporation incorporated in 1969, and its wholly owned subsidiaries own and operate a fleet of oceangoing vessels engaged in the transportation of crude oil and petroleum products in the U.S. Flag trades. The Company manages the operations of its U.S. Flag fleet through its wholly owned subsidiary, OSG Bulk Ships, Inc. (“OBS”), a New York corporation. At December 31, 2017, the Company owned or operated a fleet of 23 vessels totaling an aggregate of approximately 1 million deadweight tons (“dwt”). Additional information about the Company’s fleet, including its ownership profile, is set forth under “Fleet Operations— Fleet Summary,” as well as on the Company’s website, www.osg.com. Neither our website nor the information contained on that site, or connected to that site, is incorporated by reference in this Annual Report on Form 10-K, except to the extent otherwise included herein.

OSG primarily charters its vessels to customers for voyages for specific periods of time at fixed daily amounts through time charters. The Company also charters its vessels for specific voyages at spot rates. Spot market rates are highly volatile, while time charter rates provide more predictable streams of time charter equivalent (“TCE”) revenues because they are fixed for specific periods of time. For a more detailed discussion on factors influencing spot and time charter markets, see “Fleet Operations—Commercial Management” below.

Strategy

Our primary objective is to maximize stockholder value by generating strong cash flows through the combination of contracted time charter revenues and opportunistically trading vessels in the spot market; actively managing the size and composition of our fleet over the course of market cycles to increase investment returns and available capital; and entering into value-creating transactions, including acquisitions of competitive or adjacent businesses. The key elements of our strategy are to:

- Generate strong cash flows by capitalizing on our leading Jones Act market position, complementary time charter and spot market exposures, and long-standing customer relationships;
- Emphasize the quality of our operations and adhere to the highest safety standards attainable; and
- Seek out opportunities to increase scale and drive cost efficiencies through a disciplined approach to investment in core and adjacent asset classes to maximize return on capital across market cycles.

We believe we are well-positioned to generate strong cash flows by identifying and taking advantage of attractive chartering opportunities in the U.S. market. We currently operate one of the largest tanker fleets in the U.S. Flag market, with a strong presence in all major U.S. coastwise trades. Our market position allows us to maintain long-standing relationships with many of the largest energy companies, which in some cases date back many decades. We consider attaining the stability of cash flow offered by medium-term charters to be a fundamental characteristic of the objectives of our chartering approach. However, considerations about the appropriate amount of capacity to remain active in the spot market are a regular management discussion point and balancing time charter coverage with spot market exposure in an uncertain demand environment is a persistent challenge. Over time, we will pursue an overall chartering strategy that seeks to cover the majority of available operating days with medium-term time charters. A policy of medium-term charters will not, however, always be remunerative, nor prove achievable under certain market conditions. As such, during periods of uncertainty in the markets within which we operate, more of our

vessels will be exposed to the more volatile and less predictable spot market with a corresponding impact on the visibility and amount of revenue which our vessels may earn.

We believe that OSG has a good standing in the community of our customers, our peers and our regulators, with a long established reputation for a focus on maintaining the highest standards in both protecting the environment and maintaining the health and safety of all of our employees. We believe that continued improvement in these areas is important not only to the constituents directly affected, but equally as important in sustaining a key differentiating competitive factor amongst the customers whom we serve.

We plan to actively manage the size and composition of our fleet through opportunistic acquisitions and dispositions of vessel assets as part of our effort to achieve above-market returns on capital. Using our commercial, financial and operational expertise, we seek to opportunistically grow our fleet through the timely and selective acquisition of high-quality secondhand vessels or new-build contracts when we believe those acquisitions will result in attractive returns on invested capital and increased cash flow. We also intend to engage in opportunistic dispositions or repurposing of our vessel assets where we can achieve attractive values relative to their anticipated future earnings from operations as we assess market cycles and

1 Overseas Shipholding Group, Inc.

requirements. Taken together, we believe these activities will help us to maintain a diverse, high-quality and modern fleet of crude oil, refined product, and potentially other U.S. Flag vessels with an enhanced return on invested capital. We believe our diverse and versatile fleet, our experience and our long-standing relationships with participants in the crude and refined product shipping industry, position us to identify and take advantage of attractive acquisition opportunities in any vessel class and in the U.S. Flag market.

Customers

OSG's customers include major independent oil traders, refinery operators and U.S. and international government entities. The Company's top three customers comprised 41% of shipping revenues during the year ended December 31, 2017. The customers and their related percentage of revenues are as follows: Andeavor (16%), Petrobras America Inc. (15%) and Shell (10%). See Note 3 - "Summary of Significant Accounting Policies, Concentration of Credit Risk," to the Company's consolidated financial statements set forth in Item 8 for further information regarding the Company's customers for 2017, 2016 and 2015.

FLEET OPERATIONS

Fleet Summary

As of December 31, 2017, OSG's operating fleet consisted of 23 vessels, 13 of which were owned, with the remaining vessels chartered-in. Vessels chartered-in are on Bareboat Charters.

Vessel Type	Vessels Owned		Vessels Chartered-in		Total at December 31, 2017		
	Number	Weighted by Ownership	Number	Weighted by Ownership	Total Vessels	Vessels Weighted by Ownership	Total dwt ⁽²⁾
Handysize Product Carriers ⁽¹⁾	4	4.0	10	10.0	14	14.0	664,490
Refined Product ATBs	7	7.0	—	—	7	7.0	195,131
Lightering ATBs	2	2.0	—	—	2	2.0	91,112
Total Operating Fleet	13	13.0	10	10.0	23	23.0	950,733

⁽¹⁾ Includes two owned shuttle tankers, one chartered-in shuttle tanker and two owned U.S. Flag Product Carriers that trade internationally.

⁽²⁾ Total dwt is defined as total deadweight tons for all vessels of that type.

Commercial Management

Time-Charter Market

The Company's operating fleet currently includes a number of vessels that operate on time charters. Within a contract period, time charters provide a predictable level of revenues without the fluctuations inherent in spot-market rates. Once a time charter expires, however, the ability to secure a new time charter may be uncertain and subject to market conditions at such time. Time charters constituted 68% of the Company's shipping revenues in 2017, 80% in 2016 and 83% in 2015 and 74% of the Company's TCE revenues in 2017, 83% in 2016 and 85% in 2015.

Spot Market

Voyage charters constituted 32% of the Company's shipping revenues in 2017, 20% in 2016 and 17% in 2015 and 26% of the Company's aggregate TCE revenues in 2017, 17% in 2016 and 15% in 2015. Accordingly, the Company's shipping revenues are affected by prevailing spot rates for voyage charters in the markets in which the Company's vessels operate. Spot market rates are highly volatile because they are determined by market forces including local and worldwide demand for the commodities carried (such as crude oil or petroleum products), volumes of trade, distances that the commodities must be transported, the amount of available tonnage both at the time such tonnage is required and over the period of projected use, and the levels of seaborne and shore-based inventories of crude oil and refined products.

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Seasonal trends affect oil consumption and consequently vessel demand. While trends in consumption vary with seasons, peaks in demand quite often precede the seasonal consumption peaks as refiners and suppliers try to anticipate consumer demand. Seasonal peaks in oil demand have been principally driven by increased demand prior to winters and increased demand for gasoline prior to the summer driving season. Available tonnage is affected over time, by the volume of newbuilding deliveries, the number of tankers used to store clean products and crude oil, and the removal (principally through scrapping or conversion) of existing vessels from service. Scrapping is affected by the level of freight rates, scrap prices, vetting standards established by charterers and terminals and by U.S. governmental regulations that establish maintenance standards. Voyage charters include COAs on four vessels. Changes in the percentage contributions are therefore affected by Delaware Bay lightering volumes. In addition, as ships come off of their time charters, they may be forced into short-term trades.

Business Segment

The Company has one reportable business segment. The Company's U.S. Flag Fleet consists of twenty-one owned and chartered-in Jones Act Handysize Product Carriers and ATBs and two non-Jones Act U.S. Flag Handysize Product Carriers that participate in the U.S. Maritime Security Program. Under the Jones Act, shipping between U.S. ports, including the movement of Alaskan crude oil to U.S. ports, is reserved for U.S. Flag vessels that are built in the United States and owned by U.S. companies that are more than 75% owned and controlled by U.S. citizens. OSG is one of the largest commercial owners and operators of U.S. Flag vessels and participates in U.S. government programs, including the following:

Maritime Security Program—Two non-Jones Act U.S. Flag Product Carriers participate in the U.S. Maritime Security Program, which ensures that militarily useful U.S. Flag vessels are available to the U.S. Department of Defense in the event of war or national emergency. Each of the vessel owning companies with a ship that participates in the program receives an annual subsidy that is intended to offset the increased cost incurred by such vessels from operating under the U.S. Flag. Such subsidy was \$5.4 million on one vessel and \$4.5 million on one vessel in 2017, \$3.5 million on one vessel and \$2.7 million on one vessel in 2016 and \$3.2 million for each vessel in 2015.

Under the terms of the program, the Company expects to receive up to \$5.0 million annually for each vessel from 2018 through 2020, and up to \$5.2 million for each vessel beginning in 2021. The Company does not receive the subsidy with respect to any days for which one or both of the vessels operate under a time charter to a U.S. government agency, which was the case for one vessel during 2017.

Maritime Administration of the U.S. Department of Transportation ("MarAd") trading restrictions—Two of the modern U.S. Flag ATBs owned by the Company, which are currently used in the Delaware Bay Lightering business, had their construction financed with the Capital Construction Fund ("CCF"). As such, daily liquidated damages are payable by the Company to MarAd if these vessels operate in contiguous coastwise trades, which is not permitted under trading restrictions currently imposed by the CCF agreement between MarAd and the Company. There were no liquidated damages incurred during the years ended December 31, 2017 and 2016. The Company incurred liquidated damages that were not material in amount during the year ended December 31, 2015, for deploying these two ATBs on contiguous coastwise trade voyages.

The Company also has a 37.5% interest in Alaska Tanker Company, LLC ("ATC"), a joint venture that was formed in 1999 among OSG, Keystone Shipping Company and BP plc ("BP") to support BP's Alaskan crude oil transportation requirements. Each member in ATC is entitled to receive its respective share of any incentive charter hire payable by BP to ATC based on meeting certain predetermined performance standards. The Company's share of the income earned by ATC is recorded in equity in income of affiliated companies and amounted to \$3.8 million in 2017, \$3.6

million in 2016 and \$3.8 million in 2015.

Ten of the Handysize product carriers in our U.S. Flag fleet are chartered-in. Those chartered-in vessels provide for the payment of profit share to the owners of the vessels calculated in accordance with the respective charter-in agreements on a 50/50 basis following the funding of certain reserves such as for drydocking and the payment to OSG of a daily management fee and a preferred profit layer. Due to reserve funding requirements, no profits have yet been paid to the owners or are, based on management's current forecast, expected to be paid to the owners in respect of the charter term through December 31, 2019.

Technical Management

OSG's fleet operations are managed in-house. In addition to regular maintenance and repair, crews onboard each vessel and shore side personnel must ensure that the Company's fleet meets or exceeds regulatory standards established by the International Maritime Organization ("IMO") and U.S. Coast Guard ("USCG").

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The Company recruits, hires and trains the crews on its U.S. Flag vessels. The Company believes that its mandatory training and education requirements exceed the requirements of the USCG. The Company believes its ability to provide professional development for qualified U.S. Flag crew is necessary in a market where skilled labor shortages are expected to remain a challenge. The U.S. Flag fleet is supported by shore side staff that includes fleet managers, marine and technical superintendents, purchasing and marine insurance staff, crewing and training personnel and health, safety, quality and environmental (“SQE”) personnel.

Safety

The Company is committed to providing safe, reliable and environmentally sound transportation to its customers. Integral to meeting standards mandated by regulators and customers is the use of robust Safety Management Systems (“SMS”) by the Company. The SMS is a framework of processes and procedures that addresses a spectrum of operational risks associated with quality, environment, health and safety. The SMS is certified to the International Safety Management Code (“ISM Code,”) promulgated by the IMO. To support a culture of compliance and transparency, OSG has an open reporting system on all of its vessels, whereby seafarers can anonymously report possible violations of OSG’s policies and procedures. All open reports are investigated and appropriate actions are taken when necessary.

EMPLOYEES

As of December 31, 2017, the Company had approximately 1,123 employees comprised of 1,049 seagoing personnel and 74 shore side staff. The Company has collective bargaining agreements with three different U.S. maritime unions covering 633 seagoing personnel employed on the Company’s vessels. These agreements are in effect for periods ending between March 2018 and June 2022. Under the collective bargaining agreements, the Company is obligated to make contributions to pension and other welfare programs.

COMPETITION

OSG’s primary competitors are operators of U.S. Flag oceangoing barges and tankers, operators of rail transportation for crude oil and operators of refined product pipelines systems that transport refined petroleum products directly from U.S. refineries to markets in the United States. In addition, indirect competition comes from International Flag vessels transporting imported refined petroleum products.

ENVIRONMENTAL AND SECURITY MATTERS RELATING TO BULK SHIPPING

Government regulation significantly affects the operation of the Company's vessels. OSG's vessels operate in a heavily regulated environment and are subject to international conventions and international, national, state and local laws and regulations in force in the countries in which such vessels operate or are registered.

The Company's vessels undergo regular and rigorous in-house safety inspections and audits. In addition, a variety of governmental and private entities subject the Company's vessels to both scheduled and unscheduled inspections. These entities include USCG, local port state control authorities (harbor master or equivalent), coastal states, Classification Societies and customers, particularly major oil companies and petroleum terminal operators. Certain of these entities require OSG to obtain permits, licenses and certificates for the operation of the Company's vessels. Failure to maintain necessary documents or approvals could require OSG to incur substantial costs or temporarily suspend operation of one or more of the Company's vessels.

The Company believes that the heightened level of environmental, health, safety and quality awareness among various stakeholders, including insurance underwriters, regulators and charterers, is leading to greater regulatory requirements and a more stringent inspection regime on all vessels. In recognition of this heightened awareness, the Company has set appropriate internal goals intended to meet the higher expectations of our stakeholders. The Company is required to maintain operating standards for all of its vessels emphasizing operational safety and quality, environmental stewardship, preventive planned maintenance, continuous training of its officers and crews and compliance with international and U.S. regulations. OSG believes that the operation of its vessels is in compliance with applicable environmental laws and regulations. However, because such laws and regulations are changed frequently, and new laws and regulations impose new or increasingly stringent requirements, OSG cannot predict the cost of complying with requirements beyond those that are currently in force. The impact of future regulatory requirements on operations or the resale value or useful lives of its vessels may result in substantial additional costs in meeting new legal and regulatory requirements. See Item 1A, “Risk Factors-Compliance with complex laws, regulations, and, in particular, environmental laws or regulations, including those relating to the emission of greenhouse gases, may adversely affect OSG’s business.”

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U.S. Environmental and Safety Regulations and Standards

The United States regulates the shipping industry with an extensive regulatory and liability regime for environmental protection and cleanup of oil spills, consisting primarily of the Oil Pollution Act of 1990 ("OPA 90"), and the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"). OPA 90 affects all owners and operators whose vessels trade with the United States or its territories or possessions, or whose vessels operate in the waters of the United States, which include the U.S. territorial sea and the 200 nautical mile Exclusive Economic Zone around the United States. CERCLA applies to the discharge of hazardous substances (other than oil) whether on land or at sea. Both OPA 90 and CERCLA impact the Company's operations.

Liability Standards and Limits

Under OPA 90, vessel owners, operators and bareboat or demise charterers are "responsible parties" who are liable, without regard to fault, for all containment and clean-up costs and other damages, including property and natural resource damages and economic loss without physical damage to property, arising from oil spills and pollution from their vessels. Currently, the limits of OPA 90 liability with respect to (i) tanker vessels with a qualifying double hull are the greater of \$2,200 per gross ton or approximately \$18.8 million per vessel that is over 3,000 gross tons; and (ii) non-tanker vessels, the greater of \$1,100 per gross ton or \$0.9 million per vessel. The statute specifically permits individual states to impose their own liability regimes with regard to oil pollution incidents occurring within their boundaries, and some states have enacted legislation providing for unlimited liability for discharge of pollutants within their waters. In some cases, states that have enacted this type of legislation have not yet issued implementing regulations defining vessel owners' responsibilities under these laws. CERCLA, which applies to owners and operators of vessels, contains a similar liability regime and provides for cleanup, removal and natural resource damages associated with discharges of hazardous substances (other than oil). Liability under CERCLA is limited to the greater of \$300 per gross ton or \$5 million.

These limits of liability do not apply, however, where the incident is caused by violation of applicable U.S. federal safety, construction or operating regulations, or by the responsible party's gross negligence or willful misconduct. Similarly, these limits do not apply if the responsible party fails or refuses to report the incident or to cooperate and assist in connection with the substance removal activities. OPA 90 and CERCLA each preserve the right to recover damages under existing law, including maritime tort law.

OPA 90 also requires owners and operators of vessels to establish and maintain with the USCG evidence of financial responsibility sufficient to meet the limit of their potential strict liability under the statute. The USCG enacted regulations requiring evidence of financial responsibility consistent with the previous limits of liability described above for OPA 90 and CERCLA. Under the regulations, evidence of financial responsibility may be demonstrated by insurance, surety bond, self-insurance, guaranty or an alternative method subject to approval by the Director of the USCG National Pollution Funds Center. Under OPA 90 regulations, an owner or operator of more than one vessel is required to demonstrate evidence of financial responsibility for the entire fleet in an amount equal only to the financial responsibility requirement of the vessel having the greatest maximum strict liability under OPA 90 and CERCLA. OSG has provided the requisite guarantees and has received certificates of financial responsibility from the USCG for each of its vessels required to have one.

OSG has insurance for each of its vessels with pollution liability insurance in the amount of \$1 billion with deductibles ranging from \$0.025 million to \$0.1 million per vessel per incident. However, a catastrophic spill could exceed the insurance coverage available, in which event there could be a material adverse effect on the Company's

business.

Other U.S. Environmental and Safety Regulations and Standards

OPA 90 also amended the Federal Water Pollution Control Act to require owners and operators of vessels to adopt Vessel Response Plans (“VRP”), including marine salvage and firefighting plans, for reporting and responding to vessel emergencies and oil spill scenarios up to a “worst case” scenario and to identify and ensure, through contracts or other approved means, the availability of necessary private response resources to respond to a “worst case discharge.” The plans must include contractual commitments with clean-up response contractors and salvage and marine firefighters in order to ensure an immediate response to an oil spill/vessel emergency. OSG maintains USCG approved VRP's for each of its tank vessels and non-tank vessels, which are valid until August 11, 2022.

OPA 90 requires training programs and periodic drills for shore side staff and response personnel and for vessels and their crews. OSG conducts such required training programs and periodic drills.

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OPA 90 does not prevent individual U.S. states from imposing their own liability regimes with respect to oil pollution incidents occurring within their boundaries. In fact, most U.S. states that border a navigable waterway have enacted environmental pollution laws that impose strict liability on a person for removal costs and damages resulting from a discharge of oil or a release of a hazardous substance. These laws are in some cases more stringent than U.S. federal law.

In addition, the U.S. Clean Water Act (“CWA”) prohibits the discharge of oil or hazardous substances in U.S. navigable waters and imposes strict liability in the form of penalties for unauthorized discharges. The CWA also imposes substantial liability for the costs of removal, remediation and damages and complements the remedies available under the more recent OPA 90 and CERCLA, discussed above.

OSG’s vessels are subject to at least four regulatory regimes related to ballast water management. At the international level, the International Convention for the Control and Management of Ships’ Ballast Water and Sediments was adopted by the International Maritime Organization (“IMO”) in 2004, and it entered into force on September 8, 2017. The United States is not a signatory to the Convention, and is not expected to be in the future, since it regulates ballast water management under two federal, partially overlapping regulatory schemes. One is administered by the USCG under the National Aquatic Nuisance Prevention and Control Act of 1990, as amended by the National Invasive Species Act of 1996, and the other is administered by the EPA under the CWA. Several U.S. states also have their own supplemental requirements, most notably California whose performance standard for organisms in ballast water discharges is significantly more stringent than any of the other regulatory regimes.

In March 2012, the USCG promulgated its final rule on ballast water management for the control of nonindigenous species in U.S. waters. While generally in line with the performance standards set out in the BWM Convention, the final rule requires that treatment systems for domestic and foreign vessels operating in U.S. waters must be Type Approved by the USCG. The USCG first approved a treatment system in December 2016, and as of December 31, 2017 five more systems have been Type Approved. Under this rule, a treatment system is required to be installed (or equivalent method of management employed) by the vessel’s first regularly scheduled drydocking after January 1, 2016. The USCG issued over 14,000 extensions for vessels which generally delayed their compliance dates another 5 years, including 6 OSG vessels. The USCG is unlikely to continue issuing extensions to vessels with original compliance dates in 2019 and later. Therefore, OSG expects to begin installing ballast water treatment systems on its vessels in early 2019 with the final installation in 2023.

The discharge of ballast water and other substances incidental to the normal operation of vessels in U.S. ports also is subject to CWA permitting requirements. In accordance with the EPA’s National Pollutant Discharge Elimination System, the Company is subject to a Vessel General Permit (“VGP”), which addresses, among other matters, the discharge of ballast water and effluents. The VGP, which was first issued in 2008 and subsequently reissued in 2013, identifies twenty-six vessel discharge streams and establishes numeric ballast water discharge limits that generally align with the performance standards implemented under USCG’s 2012 final rule and the IMO Convention. It also sets more stringent effluent limits for oil to sea interfaces and exhaust gas scrubber wastewater. The EPA’s phase-in schedule generally matches that of the USCG. The EPA determined that it will not issue extensions under the VGP, but in December 2013 it issued an Enforcement Response Policy (“ERP”) to address this industry-wide issue. In the ERP, the EPA states that vessels that have missed their compliance dates to meet the numeric discharge limits for ballast, but have received an extension from the USCG, are in compliance with all of the VGP’s requirements, other than the numeric discharge limits, and meet certain other requirements, will be considered a “low enforcement priority”. While OSG believes that any vessel that is or may become subject to the VGP’s numeric discharge limits while in a USCG extension period will be entitled to such low priority treatment as per the ERP, no assurance can be given that they will do so. The VGP standards and requirements are due for modification and renewal in December 2018.

Legislation has been proposed in the U.S. Congress numerous times to combine the various federal and state regulatory regimes for regulation of ballast water discharges into a single federal regime. Such a development would be expected to make compliance for all shipowners and operators more simple and straightforward. However, it cannot currently be determined whether such legislation will eventually be enacted, and if enacted, how the Company's operations might be impacted under such legislation.

The VGP system also permits individual states and territories to impose more stringent requirements for discharges into the navigable waters of such state or territory. Certain individual states have enacted legislation or regulations addressing hull cleaning and ballast water management. For example, on October 10, 2007, California enacted law AB 740, legislation expanding regulation of ballast water discharges and the management of hull-fouling organisms. California has extensive requirements for more stringent effluent limits and discharge monitoring and testing requirements with respect to discharges in its waters. Due to delays by manufacturers in developing ballast water treatment systems that are able to comply with these effluent limits and in creating equipment to reliably test such compliance, the compliance date for all vessels making ballast

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water discharges in California waters has been deferred to the first scheduled drydocking after January 1, 2020. OSG's vessels and systems are currently in compliance with the California regulations.

New York State has imposed a more stringent bilge water discharge requirement for vessels in its waters than what is required by the VGP or IMO. Through its Section 401 Certification of the VGP, New York prohibits the discharge of all bilge water in its waters. New York State also requires that vessels entering its waters from outside the Exclusive Economic Zone must perform ballast water exchange in addition to treating it with a ballast water treatment system.

The Company anticipates that, in the next several years, compliance with the various conventions, laws and regulations relating to ballast water management that have already been adopted or that may be adopted in the future will require substantial additional capital and/or operating expenditures and could have operational impacts on OSG's business.

U.S. Air Emissions Standards

MARPOL Annex VI came into force in the United States in January 2009. In April 2010, EPA adopted regulations implementing the provisions of Annex VI. Under these regulations, both U.S. Flag and International Flag vessels subject to the engine and fuel standards of Annex VI must comply with the applicable Annex VI provisions when they enter U.S. ports or operate in most internal U.S. waters. The Company's vessels are currently Annex VI compliant. Accordingly, absent any new and onerous Annex VI implementing regulations, the Company does not expect to incur material additional costs in order to comply with this convention.

The U.S. Clean Air Act of 1970, as amended by the Clean Air Act Amendments of 1977 and 1990 ("CAA"), requires the EPA to promulgate standards applicable to emissions of volatile organic compounds and other air contaminants. OSG's vessels are subject to vapor control and recovery requirements for certain cargoes when loading, unloading, ballasting, cleaning and conducting other operations in regulated port areas. Each of the Company's vessels operating in the transport of clean petroleum products in regulated port areas where vapor control standards are required has been outfitted with a vapor recovery system that satisfies these requirements.

In addition, the EPA issued emissions standards for marine diesel engines. The EPA has implemented rules comparable to those of Annex VI to increase the control of air pollutant emissions from certain large marine engines by requiring certain new marine-diesel engines installed on U.S.-built ships to meet lower NOx standards. EPA Tier 2 standards were phased in beginning in 2004 and generally reduced NOx emissions by 27 percent and introduced a particulate matter limit for the first time. EPA Tier 3 standards were phased in beginning in 2009 and represented a 50% reduction in PM and a 20% reduction in NOx over Tier 2 levels. EPA Tier 4 standards were phased in beginning in 2014 and represented a 90% reduction in PM and 80% reduction in NOx compared to Tier 2 levels and generally required advanced technology such as selective catalytic reduction or exhaust gas recirculation. Adoption of these and emerging standards may require substantial modifications to some of the Company's existing marine diesel engines and may require the Company to incur substantial capital expenditures if the engines are replaced.

The North American ECA, encompassing the area extending 200 miles from the coastlines of the Atlantic, Gulf and Pacific coasts and the eight main Hawaiian Islands, became effective on August 1, 2012. The United States Caribbean Sea ECA, encompassing water around Puerto Rico and the U.S. Virgin Islands, became effective on January 1, 2014. Fuel used by all vessels operating in the ECA cannot exceed 0.1% sulfur, effective January 1, 2015. The Company believes that its vessels are in compliance with the current requirements of the ECAs. If other ECAs are approved by the IMO or other new or more stringent requirements relating to emissions from marine diesel engines or port operations by vessels are adopted by the EPA or the states where OSG operates, compliance could require or affect the

timing of fuel costs associated with operating in another ECA.

The CAA also requires states to draft State Implementation Plans (“SIPs”), designed to attain national health-based air quality standards in major metropolitan and industrial areas. Where states fail to present approvable SIPs, or SIP revisions by certain statutory deadlines, the EPA is required to draft a Federal Implementation Plan. Several SIPs regulate emissions resulting from barge loading and degassing operations by requiring the installation of vapor control equipment. Where required, the Company's vessels are already equipped with vapor control systems that satisfy these requirements. Although a risk exists that new regulations could require significant capital expenditures and otherwise increase its costs, the Company believes, based upon the regulations that have been proposed to date, that no material capital expenditures beyond those currently contemplated and no material increase in costs are likely to be required as a result of the SIPs program.

Individual states have been considering their own restrictions on air emissions from engines on vessels operating within state waters. California requires certain ocean going vessels operating within 24 nautical miles of the Californian coast to reduce air pollution by using only low-sulfur marine distillate fuel rather than bunker fuel in auxiliary diesel and diesel-electric engines,

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main propulsion diesel engines and auxiliary boilers. Vessels sailing within 24 miles of the California coastline whose itineraries call for them to enter any California ports, terminal facilities, or internal or estuarine waters must use marine gas oil or marine diesel oil with a sulfur content at or below 0.1% sulfur. The Company believes that its vessels that operate in California waters are in compliance with these regulations.

The Delaware Department of Natural Resources and Environment Control (“DNREC”) monitors OSG’s U.S. Flag lightering activities within the Delaware River. Lightering activities in Delaware are subject to Title V of the Coastal Zone Act of 1972, and OSG is the only marine operator with a Title V permit to engage in lightering operations. These lightering activities are monitored and regulated through DNREC’s Title V air permitting process. The regulations are designed to reduce the amount of VOCs entering the atmosphere during a crude oil lightering operation through the use of vapor balancing.

This defined process has reduced air emissions associated with venting of crude oil vapors to the atmosphere. In accordance with its Title V permit, OSG’s Delaware Lightering fleet is 100% vapor balance capable.

SOLAS

From January 1, 2014, various amendments to the SOLAS conventions came into force, including an amendment to Chapter VI of SOLAS, which prohibits the blending of bulk liquid cargoes during sea passage and the production process on board ships. This prohibition does not preclude the master of the vessel from undertaking cargo transfers for the safety of the ship or protection of the marine environment.

Chapter VII of SOLAS has also been amended to require certain transport information to be provided in respect of the carriage of dangerous goods in package form. A copy of one of these documents must be made available to any person designated by the port state authority before the ship’s departure.

The International Code on the Enhanced Program of inspections during surveys of Bulk Carriers and Oil Tankers, 2011 has been made mandatory (“ESP Code”) pursuant to an amendment to SOLAS. The ESP Code provides requirements for an enhanced program of inspection during surveys of tankers.

International and U.S. Greenhouse Gas Regulations

In February 2005, the Kyoto Protocol to the United Nations Framework Convention on Climate Change (“UNFCCC”) (commonly called the Kyoto Protocol) became effective. Pursuant to the Kyoto Protocol, adopting countries are required to implement national programs to reduce emissions of certain gases, generally referred to as greenhouse gases (“GHGs”), which contribute to global warming. The Kyoto Protocol, which was adopted by about 190 countries, commits its parties by setting internationally binding emission reduction targets. In December 2012, the Doha Amendment to the Kyoto Protocol was adopted to further extend the Kyoto Protocol’s GHG emissions reductions through 2020. The United Nations Climate Change Conference has continued negotiations and forged a new international framework in December 2015 (the “Paris Agreement”) that is to take effect by 2020. The Paris Agreement sets a goal of holding the increase in global average temperature to well below 2 degrees Celsius and pursuing efforts to limit the increase to 1.5 degrees Celsius, to be achieved by aiming to reach a global peaking of GHG emissions as soon as possible. To meet these objectives, the participating countries, acting individually or jointly, are to develop and implement successive “nationally determined contributions.” The countries will assess their collective programs toward achieving the goals of the Paris Agreement every five years beginning in 2023, referred to as the global stocktake, and subsequently are to update and enhance their actions on climate change.

The IMO's third study of GHG emissions from the global shipping fleet which concluded in 2014 predicted that, in the absence of appropriate policies, greenhouse emissions from ships may increase by 50% to 250% by 2050 due to expected growth in international seaborne trade. Methane emissions are projected to increase rapidly (albeit from a low-base) as the share of LNG in the fuel mix increases. With respect to energy efficiency measures, the Marine Environmental Protection Committee ("MEPC") adopted guidelines on the Energy Efficiency Design Index ("EEDI"), which reflects the primary fuel for the calculation of the attained EEDI for ships having dual fuel engines using LNG and liquid fuel oil (see discussion below). The IMO is committed to developing limits on greenhouse gases from international shipping and is working on proposed mandatory technical and operational measures to achieve these limits.

In 2011, the European Commission established a working group on shipping to provide input to the European Commission in its work to develop and assess options for the inclusion of international maritime transport in the GHG reduction commitment of the EU. The MRV Regulation was adopted on April 29, 2015 and creates an EU-wide framework for the monitoring, reporting and verification of carbon dioxide emissions from maritime transport. The MRV Regulation requires large ships (over 5,000 gross tons) conducting cargo operations in EU ports from January 1, 2018, to collect and later publish verified annual

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data on carbon dioxide emissions. The Company believes that its vessels are in compliance with this regulation. A similar scheme from the IMO is expected to take effect January 1, 2019 and to be administered by the USCG for U.S. flag vessels.

In the United States, pursuant to an April 2007 U.S. Supreme Court decision, the U.S. Environmental Protection Agency ("EPA") was required to consider whether carbon dioxide should be considered a pollutant that endangers public health and welfare, and thus subject to regulation under the U.S. Clean Air Act. On December 1, 2009, the EPA issued an "endangerment finding" regarding GHGs under the Clean Air Act. While this finding in itself does not impose any requirements on industry or other entities, the EPA is in the process of promulgating regulations of GHG emissions. To date, the regulations proposed and enacted by the EPA have not involved ocean-going vessels.

Future passage of climate control legislation or other regulatory initiatives by the IMO, EU, United States or other countries where OSG operates that restrict emissions of GHGs could require significant additional capital and/or operating expenditures and could have operational impacts on OSG's business. Although OSG cannot predict such expenditures and impacts with certainty at this time, they may be material to OSG's results of operations.

International Environmental and Safety Regulations and Standards

Liability Standards and Limits

Many countries have ratified and follow the liability plan adopted by the IMO and set out in the International Convention on Civil Liability for Oil Pollution Damage of 1969 (the "1969 Convention"). Some of these countries have also adopted the 1992 Protocol to the 1969 Convention (the "1992 Protocol"). Under both the 1969 Convention and the 1992 Protocol, a vessel's registered owner is strictly liable for pollution damage caused in the territorial waters of a contracting state by discharge of persistent oil, subject to certain complete defenses. These conventions also limit the liability of the shipowner under certain circumstances. As these conventions calculate liability in terms of a basket of currencies, the figures in this section are converted into U.S. dollars based on currency exchange rates on January 8, 2017 and are approximate. Actual dollar amounts are used in this section "Liability Standards and Limits" and in "U.S. Environmental and Safety Regulations and Standards-Liability Standards and Limits" below.

Under the 1969 Convention, except where the owner is guilty of actual fault, its liability is limited to \$4.0 million for a ship not exceeding 5,000 units of tonnage (a unit of measurement for the total enclosed spaces within a vessel) and \$565 per gross ton thereafter, with a maximum liability of \$80.1 million. Under the 1992 Protocol, the owner's liability is limited except where the pollution damage results from its personal act or omission, committed with the intent to cause such damage, or recklessly and with knowledge that such damage would probably result. Under the 2000 amendments to the 1992 Protocol, which became effective on November 1, 2003, liability is limited to \$6.1 million plus \$848 for each additional gross ton over 5,000 for vessels of 5,000 to 140,000 gross tons, and \$120.1 million for vessels over 140,000 gross tons, subject to the exceptions discussed above for the 1992 Protocol.

Vessels trading to states that are parties to these conventions must provide evidence of insurance covering the liability of the owner. The Company believes that its P&I insurance will cover any liability under the plan adopted by the IMO. See the discussion of insurance in "U.S. Environmental and Safety Regulations and Standards-Liability Standards and Limits" below.

The United States is not a party to the 1969 Convention or the 1992 Protocol. See "U.S. Environmental and Safety Restrictions and Regulations" above. In other jurisdictions where the 1969 Convention has not been adopted, various legislative schemes or common law govern, and liability is imposed either on the basis of fault or in a manner similar

to that convention.

The International Convention on Civil Liability for Bunker Oil Pollution Damage, 2001, which became effective on November 21, 2008, is a separate convention adopted to ensure that adequate, prompt and effective compensation is available to persons who suffer damage caused by spills of oil when used as fuel by vessels. The convention applies to damage caused to the territory, including the territorial sea, and in its exclusive economic zones, of states that are party to it. While the United States has not yet ratified this convention, vessels operating internationally would be subject to it, if sailing within the territories of those countries that have implemented its provisions. The Company believes that its vessels comply with these requirements.

Other International Environmental and Safety Regulations and Standards

Under the International Safety Management Code (“ISM Code”), promulgated by the IMO, vessel operators are required to develop a safety management system that includes, among other things, the adoption of a safety and environmental protection policy describing how the objectives of a functional safety management system will be met. The Company has a safety

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management system for its fleet, with instructions and procedures for the safe operation of its vessels, reporting accidents and non-conformities, internal audits and management reviews and responding to emergencies, as well as defined levels of responsibility. The ISM Code requires the Company to have a Document of Compliance (“DoC”) for the vessels it operates and a Safety Management Certificate (“SMC”) for each vessel it operates. Once issued, these certificates are valid for a maximum of five years. The Company in turn must undergo an annual internal audit and an external verification audit in order to maintain the DoC. In accordance with the ISM Code, each vessel must also undergo an annual internal audit at intervals not to exceed twelve months and vessels must undergo an external verification audit twice in a five-year period.

The Company maintains a DoC which was reissued for five years on September 17, 2017. The Company is also certified to the SQE requirements of the ABS Guide for Marine Health, Safety, Quality, Environmental and Energy Management, which includes meeting the requirements of the International Standards of Organization in ISO9001:2015 (Quality Management) and ISO14001:2015 (Environmental Management) for the management of operation of oil tankers, chemical tankers and other cargo ships.

The SMC for each vessel is issued after verifying that the company responsible for operating the vessel and its shipboard management operate in accordance with the approved safety management system. No vessel can obtain a certificate unless its operator has been awarded a DoC issued by the administration of that vessel’s flag state or as otherwise permitted under the International Convention for the Safety of Life at Sea, 1974, as amended (“SOLAS”).

Noncompliance with the ISM Code and other IMO regulations may subject the shipowner or charterer to increased liability, may lead to decreases in available insurance coverage for affected vessels and may result in the denial of access to, or detention in, some ports. For example, the USCG and EU authorities have indicated that vessels not in compliance with the ISM Code will be prohibited from trading to U.S. and EU ports.

IMO regulations also require owners and operators of vessels to adopt Shipboard Oil Pollution Emergency Plans (“SOPEPs”). Periodic training and drills for response personnel and for vessels and their crews are required. In addition to SOPEPs, OSG has adopted Shipboard Marine Pollution Emergency Plans (“SMPEPs”), which cover potential releases not only of oil but of any noxious liquid substances (“NLSs”). The Company SMPEP and SOPEP Plan were reapproved for five years in 2017 and remain valid until August 11, 2022.

The International Convention for the Control and Management of Ships' Ballast Water and Sediments (“BWM Convention”) is designed to protect the marine environment from the introduction of non-native (alien) species as a result of the carrying of ships’ ballast water from one place to another. The introduction of non-native species has been identified as one of the top five threats to biological diversity. Expanding seaborne trade and traffic have exacerbated the threat. Tankers must take on ballast water in order to maintain their stability and draft, and must discharge the ballast water when they load their next cargo. When emptying the ballast water, which they carried from the previous port, they may release organisms and pathogens that have been identified as being potentially harmful in the new environment.

The BWM Convention was adopted in 2004 and entered into force on September 8, 2017. The BWM Convention is applicable to new and existing vessels that are designed to carry ballast water. It defines a discharge standard consisting of maximum allowable levels of critical invasive species. This standard will likely be met by installing treatment systems that render the invasive species non-viable. In addition, each vessel flying the flag of a signatory to the Convention will be required to have on board a valid International Ballast Water Management Certificate, a Ballast Water Management Plan and a Ballast Water Record Book. Since the U.S. is not a signatory to the Convention, U.S. Flag vessels cannot be issued a Ballast Water Management Certificate. Instead, the American

Bureau of Shipping has been authorized to issue a Statement of Voluntary Compliance (with the Convention) to any U.S. flag vessel that has an approved Ballast Water Management Plan that contains the information required by the Convention. An SOVC is expected to satisfy the requirements of Port State Control (PSC) in countries that are a signatory to the Convention, but it is not guaranteed to do so.

OSG's vessels are subject to other international, national and local ballast water management regulations (including those described above under "U.S. Environmental and Safety Regulations and Standards"). OSG complies with these regulations through ballast water management plans implemented on each of the vessels it technically manages. To meet existing and anticipated ballast water treatment requirements, including those contained in the BWM Convention, OSG has a fleetwide action plan to comply with IMO, EPA, USCG and possibly more stringent U.S. state mandates as they are implemented and become effective, which may require the installation and use of costly control technologies. Compliance with the ballast water requirements expected to go into effect under the BWM Convention and other regulations may have material impacts on OSG's operations and financial results, as discussed above under "U.S. Environmental and Safety Regulations and Standards-Other U.S. Environmental and Safety Regulations and Standards."

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Other EU Legislation and Regulations

The EU has adopted legislation that: (1) bans manifestly sub-standard vessels (defined as those over 15 years old that have been detained by port authorities at least twice in the course of the preceding 24 months) from European waters, creates an obligation for port states to inspect at least 25% of vessels using their ports annually and provides for increased surveillance of vessels posing a high risk to maritime safety or the marine environment, and (2) provides the EU with greater authority and control over Classification Societies, including the ability to seek to suspend or revoke the authority of negligent societies. OSG believes that none of its vessels meet the "sub-standard" vessel definitions contained in the EU legislation. EU directives enacted in 2005 and amended in 2009 require EU member states to introduce criminal sanctions for illicit ship-source discharges of polluting substances (e.g., from tank cleaning operations) which result in deterioration in the quality of water and has been committed with intent, recklessness or serious negligence. Certain member states of the EU, by virtue of their national legislation, already impose criminal sanctions for pollution events under certain circumstances. The Company cannot predict what additional legislation or regulations, if any, may be promulgated by the EU or any other country or authority, or how these might impact OSG.

International Air Emission Standards

Annex VI to MARPOL ("Annex VI"), which was designed to address air pollution from vessels and which became effective internationally on May 19, 2005, sets limits on sulfur oxide ("SOx") and nitrogen oxide ("NOx") emissions from ship exhausts and prohibits deliberate emissions of ozone depleting substances, such as chlorofluorocarbons. Annex VI also regulates shipboard incineration and the emission of volatile organic compounds from tankers. Annex VI was amended in 2008 to provide for a progressive and substantial reduction in SOx and NOx emissions from vessels and allow for the designation of Emission Control Areas ("ECAs") in which more stringent controls would apply. The primary changes were that the global cap on the sulfur content of fuel oil was reduced to 3.50% from 4.50% effective from January 1, 2012, and such cap is to be further reduced progressively to 0.50% effective from January 1, 2020. Furthermore, the sulfur content of fuel oil for vessels operating in designated ECAs was progressively reduced from 1.5% to 1.0% effective July 2010 and further reduced to 0.1% effective January 2015. Currently designated ECAs are: the Baltic Sea area, the North Sea area, the North American area (covering designated coastal areas off the United States and Canada) and the United States Caribbean Sea area (around Puerto Rico and the United States Virgin Islands). For vessels over 400 gross tons, Annex VI imposes various survey and certification requirements. The U.S. Maritime Pollution Prevention Act of 2008 amended the U.S. Act to Prevent Pollution from Ships to provide for the adoption of Annex VI. In October 2008, the U.S. ratified Annex VI, which came into force in the United States on January 8, 2009.

In addition to Annex VI, there are regional mandates in ports and certain territorial waters within the EU regarding reduced SOx emissions. These requirements establish maximum allowable limits for sulfur content in fuel oils used by vessels when operating within certain areas and waters and while "at berth." In December 2012, an EU directive that aligned the EU requirements with Annex VI entered into force. For vessels at berth in EU ports, sulfur content of fuel oil is limited to 0.1%. For vessels operating in SOx Emission Control Areas ("SECAs"), sulfur content of fuel oil is limited to 1% as of June 18, 2014, which was reduced to 0.1% as of January 1, 2015. For vessels operating outside SECAs, sulfur content of fuel oil is limited to 3.5% as of June 18, 2014, further reducing to 0.5% as of January 1, 2020. Alternatively, emission abatement methods are permitted as long as they continuously achieve reductions of SOx emissions that are at least equivalent to those obtained using compliant marine fuels.

More stringent Tier III emission limits are applicable to engines installed on a ship constructed on or after January 1, 2016 operating in ECAs. NOx emission Tier III standards came into force on January 1, 2016 in ECAs.

Additional air emission requirements under Annex VI became effective on July 1, 2010 mandating the development of Volatile Organic Compound (“VOC”) Management Plans for tank vessels and certain gas ships.

In July 2011, the IMO further amended Annex VI to include energy efficiency standards for “new ships” through the designation of an EEDI. The EEDI standards apply to new ships of 400 gross tons or above (except those with diesel-electric, turbine or hybrid propulsion systems). “New ships” for purposes of this standard are those for which the building contract was placed on or after January 1, 2013; or in the absence of a building contract, the keel of which is laid or which is at a similar stage of construction on or after July 1, 2013; or the delivery of which is on or after July 1, 2015. The EEDI standards phase in from 2013 to 2025 and are anticipated to result in significant reductions in fuel consumption, as well as air and marine pollution. The composition of the Company’s fleet of vessels, as of December 31, 2017, does not include any vessels to which the EEDI standards apply.

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In 2011, IMO's Greenhouse Gas Work Group agreed on Ship Energy Efficiency Management Plan ("SEEMP") development guidelines, which were provided by the MEPC, Resolution MEPC.213 (63), which adopted the 2012 development guidelines on March 2, 2012, entered into force on January 1, 2013. The SEEMP, unlike the EEDI, applies to all ships of 400 gross tons and above. The verification of the requirement to have a SEEMP on board shall take place at the first or intermediate or renewal survey, whichever is the first, on or after January 1, 2013. Each of the vessels technically managed by the Company has a SEEMP, which was prepared in accordance with these development guidelines and addresses technically viable options that create value added strategies to reduce the vessels' energy footprint through the implementation of specific energy saving measures. An Energy Efficiency Certificate ("IEEC") is issued for both new and existing ships of 400 gross tons or above. The IEEC is issued once for each ship and remains valid throughout its lifetime, until the ship is withdrawn from service, unless a new certificate is issued following a major conversion of the ship, or until transfer of the ship to the flag of another state.

The Company believes that its vessels are compliant with the current requirements of Annex VI and that those of its vessels that operate in the EU are also compliant with the regional mandates applicable there. However, the Company anticipates that, in the next several years, compliance with the increasingly stringent requirements of Annex VI and other conventions, laws and regulations imposing air emission standards that have already been adopted or that may be adopted will require substantial additional capital and/or operating expenditures and could have operational impacts on OSG's business. Although OSG cannot predict such expenditures and impacts with certainty at this time, they may be material to OSG's financial statements.