"Biodegradable" means, the following for purposes of the VGP:

- Regarding cleaning products and environmentally acceptable lubricants, biodegradable
  means products and lubricants that demonstrate either the removal of at least 70 percent
  of dissolved organic carbon, production of at least 60 percent of the theoretical carbon
  dioxide, or consumption of at least 60 percent of the theoretical oxygen demand within
  28 days. Acceptable test methods include: Organization for Economic Co-operation and
  Development Test Guidelines 301 A-F, 306, and 310, and International Organization for
  Standardization 14593:1999.
- Regarding biocidal substances, biodegradable means a compound or mixture that yields 60 percent of theoretical maximum carbon dioxide and demonstrate a removal of at least 70 percent of dissolved organic carbon within 28 days as described in EPA 712-C-98-075 (OPPTS 835.3100 Aerobic Aquatic Biodegradation).

"Boat Engine Wet Exhaust" means the seawater that is mixed and discharged with small boat propulsion engine exhaust to cool the exhaust and quiet the engine. [source: 40 C.F.R 1700.4]

"Captain of the Port" (COTP) means the Coast Guard officer designated as the COTP, or a person designated by that officer, for the COTP zone covering the U.S. port of destination. These COTP zones are listed in 33 CFR Part 3. [source: 33 CFR § 151.2025]

"Chain Locker Effluent" means the accumulated precipitation and seawater that is emptied from the compartment used to store the vessel's anchor chain. [source: 40 CFR § 1700.4]

"Coastal Exchange Zone" means an area greater than 50 nm from shore and greater than 200 meters in depth.

"Commercial fishing vessel" means any vessel which is documented under the laws of the United States or, if under five net tons, registered under the laws of any state, and used for commercial fishing or activities directly related to commercial fishing. (source: modified from 50 CFR § 296.2)

"Commercial vessel" means any "vessel" other than a "recreational vessel" or a vessel of the U.S. armed forces.

"Constructed' means a state of construction of a vessel at which—

- "the keel is laid:
- "construction identifiable with the specific vessel begins;
- "assembly of the vessel has begun comprising at least 50 tons or 1 percent of the estimated mass of all structural material of the vessel, whichever is less; or
- "the vessel undergoes a major conversion;" [patterned after the <u>International</u> <u>Convention for the Control and Management of Ships' Ballast Water and Sediments, 2004,</u> regulation A-1(4)]

"Control measure" means any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

#### **ANNEX**

### REGULATIONS FOR THE CONTROL AND MANAGEMENT OF SHIPS' BALLAST WATER AND SEDIMENTS

#### **SECTION A - GENERAL PROVISIONS**

#### **Regulation A-1** *Definitions*

For the purposes of this Annex:

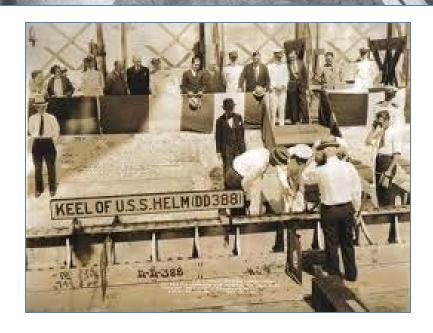
- 1 "Anniversary date" means the day and the month of each year corresponding to the date of expiry of the Certificate.
- 2 "Ballast Water Capacity" means the total volumetric capacity of any tanks, spaces or compartments on a ship used for carrying, loading or discharging Ballast Water, including any multi-use tank, space or compartment designed to allow carriage of Ballast Water.
- "Company" means the owner of the ship or any other organization or person such as the manager, or the bareboat charterer, who has assumed the responsibility for operation of the ship from the owner of the ship and who on assuming such responsibility has agreed to take over all the duties and responsibilities imposed by the International Safety Management Code<sup>1</sup>.
- 4 "Constructed" in respect of a ship means a stage of construction where:
  - .1 the keel is laid; or
  - .2 construction identifiable with the specific ship begins;
  - .3 assembly of the ship has commenced comprising at least 50 tonnes or 1 percent of the estimated mass of all structural material, whichever is less; or
  - .4 the ship undergoes a major conversion.
- 5 "Major conversion" means a conversion of a ship:
  - .1 which changes its ballast water carrying capacity by 15 percent or greater, or
  - .2 which changes the ship type, or
  - .3 which, in the opinion of the Administration, is projected to prolong its life by ten years or more, or
  - .4 which results in modifications to its ballast water system other than component replacement-in-kind. Conversion of a ship to meet the provisions of regulation D-1 shall not be deemed to constitute a major conversion for the purpose of this Annex.

Refer to the ISM Code adopted by the Organization by resolution A.741(18), as amended.

#### **HISTORICAL KEEL LAYING PHOTOS**







#### **COMMERCIAL SHIPBUILDING YARDS**













#### SHIP KEEL LAYING













# KOREA · SHIP-BUILDING SCHEDULE

THE ZOSEN NEWS SHA CO., LTD. 7-13, Iwamoto-cho 2-chome, Chiyoda-ku, Tokyo, 101-0032, Japan ☎Tokyo 03 (3861) 3091 FAX 03 (3861) 3093

Send Orders and Inquiries to: FAX: +81 3-3861-3093 THE ZOSEN NEWS SHA Co., Ltd E-Mail: morizosen@aol.com 7-13, Iwamoto-cho, 2chome, Chiyoda-ku, Tokyo, 101-0032, Japan

This graph shows the current holdings of ship-building under construction at the four leading shipbuilders (Hyundai Heavy Inc. Co., Ltd. Korea Shipbuilding and Engineering Corp. Daewoo Shipbuilding and Heavy Machinery Ltd. Samsung Shipbuilding and Heavy Ind. Co., Ltd.) in Korea. The number in parentheses of Hull Number column therein indicates the quantity Slewing Rings ® Main Office: Fukide Bldg.7F,Toranomon 4-1-13,Minato-ku,Tokyo Japan Tel: +81(03)3434-4341 Fax: +81(03)3434-4340

 Double hull/Botom Type LAYINGKEEL LAUNCHED

For Deck Crane
Offshore Crane
Provision Crane
LNG Loading Arm
Mooring Buoy
..., etc. of ships which are in process of a business talk and are not yet contracted. Osaka Office : Yamadahigashi 3-3-10,Suita-shi,Osaka Japan Tel: +81(06)4864-0227 Fax: +81(06)4864-4711 Overseas Price (Annual Subscription fee including air mail postage) \$100.00 \* Prices are Subject to change without notice.

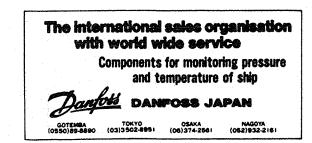
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18 9 10 11 12 1 2 3 4 5 6  18 9 10 11 12 1 2 3 4 5 6

THE ZOSEN NEWS SHA Co., Ltd.

7-13, Iwamoto-cho, 2-chome, Chiyoda-ku, Tokyo, 101-0032, Japan **T**Tokyo 03 (3861) 3091

This graph is designed to give you a list of ships under construction which enables you to learn their schedule of construction at a glance. N. B. Parentheses stand for "undecided"

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ABBRE VIATIONS MANUFACTURER OF MAIN ENGINE

Aka Akasaka Iron Works Co., Ltd.

Dei Daihatsu Disel Manufacturing Co., Ltd.

DU Disel United Co., Ltd.

Han Hanshin Disel Works Ltd.

HIZ Hitachi Zosen Corporation

MAIN ENGINE

KHI Kawasaki Heavy Industries, Ltd.

MISubisgi Heavy Industries, Ltd.

NI Niigata Power Systems Co., Ltd.

NIKK Nipoon Kokan K. K. ₩ Double hull/Botom Type LAYINGKEEL LAUNCHED DELIVERY

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MSC Center Bidg. 22-23,3-chome	3292 3329 D 3325 -5001	Unknown Unknown Unknown Chevron[Mitsui & Co]	Bulk 56,000 FSO 1,000,000bb	3325	3292 3329 5001				Heavy Industries.Ltd.		Bulk 37,000 " "  RoRo 10,500GT " "						
Kaigan Minato-ku. Tokyo	3320 N 3321 3322 2 3326	NK Kyowa Sansho(Japan) Unknown Unknown Unknown	Bulk 56,000	3320				. 1	Marunouchi Chiyoda ku Tokyo Capacity	Meimon Taiyo Ferry(Japan)  ( )  4  B  ( )  Ministry of Defense (Japan)	Ferry 12,500GT // // // // // // // // // // // // //						
Capacity Yokohama 3D 85,000G/T Kure 2D 88,000G/T	B 3324 3330 3331 3335 3333	Unknown Unknown Unknown  WK Wippon Oil Tanker(Japan) Unknown	Tanker 120,000 Bulk 56,000		3334 3330 3331	3335 3333			Kobe 3B 69,000G/T Shimonoseki 2B 19,800G/T	1293   NK   Mitsui OSK Lines(Japan)   3   1294   "   " ( " )	PCTC 6,500cars	1293	1295				
3D 170,000G/T Aich B 11,000G/T	3317 1	NK   *■NYK (Japan)[9300TEU Container:3282→VLC  K.Line		KHI-B&W12k98ME-C 93,120	3286 3287 3288	3339			Nagasaki 1D 117,000G/T 1-2B 47,900G/T Koyagi D 250,000G/T	1 2270 Ministry of Defense(Japan)	DD 5,000LDT		270	2280			
	3 3289 3 3290 B 3306 D 3307	NK SK Shipping NK Unknown NK *Nippon Oil Tanker(Japan)	Bulk 180,000	,	3200	3290 3306 3307 3332			200,0000	2 2280	PCTC 6,550cars PCTC 6,550cars	2264	2265	2280	2290		
	-3336 I -3308 I -3337 I	NK Daiichi Chuo Kisen(Japan) NK Unknown NK Daiichi Chuo Kisen(Japan) NK Daiichi Chuo Kisen(Japan)	Bulk 97,000 Bulk 180,000 Bulk 97,000 Bulk 97,000			3336 330	3338			1   2284   NV   Wallenius Wilhelmsen(Norway)   1   ·2285   %   % ( % )	PCTC 6,550cars  Container 8,560TEU		2284	2285 2298 2294			
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Heavy Indust- ries Marine & Engineering Co. Ltd. 9-11,5-chome Kitashinagawa		//	Tanker 165,000 Tanker 105,000		1366	376				V	LPG 78,000 m <sup>2</sup> RoRo 16,000GT Ferry 17,000GT	2274	2276				
Shinagawa-ku Tokyo Capacity Yokosuka D 210,000G/T Uraga 3B 16,800G/T	•( )	W / Unknown	Bulk 90,000							D   -2279   NK   NYK	Bulk   175,000     LPG   83,000 m		2279 2288 2281 2281 228	86			
<b>(4)</b>	1 ( ) B ( )	Ministry of Defense(Japan)  NK Itochu Corporation(Japan)  Marubeni Corporation(Japan)	SS 2,900LDT  ,  Bulk 58,000							-2288 NK Yuyo Kaiun(Japan) -2291 NV Petroleum Geo-Services ASA(Norway -2289 LR NYK[LNG Marine Transport][Tokyo Electric -( ) Osaka Gas/Mitsui OSK Lines(Japan)	LPG 83,000 m <sup>2</sup> 3D Ramform 27,000GT c Powerl LNG 145,400 m <sup>2</sup> LNG 155,000 m <sup>2</sup>			2288   2291	2289		
KAWASAKI Heavy Industries Ltd Ship & Offshore	1 1D 1 1001	Unknown  NK Mitsui & Co(Japan)  Itochu Corporation  Mitsui & Co  Marubeni Corporation	11 11 11 11 11 11 11 11 11 11 11 11 11		1701 1648 1649 1650					-2292 Petroleum Geo-Services ASA(Norway Unknown Osaka Gas/Mitsui OSK Lines(Japan) Petroleum Geo-Services ASA(Norway	LNG 147,000 m <sup>2</sup> LNG 155,000 m <sup>2</sup>			2292			
Structure Company 1-1,3-Chome Higashikawasa-		Unknown  /  /  /  NK ORIX(Japan)	LPG 80,000m	1643		1704 1705				0060 AB   Sanko Steam Ship(Japan)	AHTS 4,800	006)	0061   0062	0074		Сопри	pletion October 2015
kicho Chuo-ku Kobe Capacity	1 1680 I 1681 I 1 1665 I D 1676 I	NK NYK(Japan) NK Daiichi Chuo Kisen(Japan) NK K.Line(Japan) NK NYK(Japan) NK Japan Owner NK Sanko Steam Ship(Japan)	Bulk 180,000 Bulk 180,000 Bulk 180,000 LNG 177,000 m Bulk 180,000 LPG 80,000 m	10	680 1681 1676	1670			UNIVERSAL SHIPBULDING		Tug 3,100 , , , , , , , , , , , , , , , , , ,	135		0075			
Kobe 4B 29,000G/T Sakaide 1D 121,000G/T 2D 125,000G/T	2 1689 1690 1691 1692	Unknown  / / / / / /	Bulk 58,000		1689	690 == 1691 == 1692 == 1693			CORPORATION 28-1,1-chome	137	Bulk 205,000 Bulk 207,000 Bulk 207,000 Bulk 205,000	140	1167				
3D 170,000G/T	D 1694 -1695 -1696 -1697 -1702	" " " " "	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1694 1695 1696 1697 1702			Oi Shinagawa-ku Tokyo Capacity	172   Unknown   Unknown	Bulk 205,000 Bulk 180,000 Bulk 205,000 Bulk 205,000 Bulk 205,000		152 170 150	0 171			
	1786 1818	Unknown  NK Meiji Shipping Unknown  NK Mitsui Soko	LNG   177,000 m	7 1786	818				Keihin 2B 20,000G/T Tsu 1D 235,000G/T	151 NK Formosa Plastics(Taiwan) 154 Unknown	Bulk 205,000 Bulk 205,000 Bulk 205,000 Bulk 205,000			158 151 154			
MITSUI	1787 1 1833 1 1808 1 1819 1	NK Yamamaru Kisen(Japan) NK Meiji Shipping NK Handbell Shipping NK **Mitsui OSK Lines(Japan) NK Mitsui Soko	Bulk 185,000 Bulk 56,000 Bulk 56,000 VLCC 310,000 Bulk 110,000	),	1733 1787 1833 1808 1819				Maizuru 1B 21,000G/T 3D 40,400G/T Ariake 1D 161,000G/T	162 Unknown ( ) Unknown	Bulk 205,000 Bulk 205,000 Bulk 205,000 Bulk 205,000 Bulk 205,000			161			
Engineering Shipbulding Co.,Ltd.	H 2 1834 1 1836 1 1825 1 1847 1 1831 1 1 1831 1 1 1 1 1 1 1 1 1 1 1 1	NK Handbell Shipping Unknown Unknown Unknown Unknown NK Unknown	Bulk 56,000 Bulk 177,000 Bulk 56,000 Bulk 56,000 Bulk 56,000 Bulk 56,000		1836	825   1847   1831   1232			2D 167,000G/T Kanagawa 2B 499G/T	( ) Unknown ( ) Unknown	Bulk 205,000 Bulk 205,000 PSV 4,800	1000					
6-4,5-chome Tsukiji Chuo-ku. Tokyo	1837 1856 1857 1851 1849	Unknown Unknown Unknown Unknown Unknown Unknown	Bulk 73,000 Bulk 56,000 Bulk 56,000 Bulk 56,000 Bulk 56,000 Bulk 56,000			1837 1856 1857 1857 1851				1 10007	PSV 4,800		1007	10008			
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	1773 1 1709 1 1778 1	NK Yasa Shipping NK Unknown NK Unknown LR Samos Steamship NK Unknown NK Unknown	Bulk 56,000 Bulk 56,000 Bulk 56,000 Bulk 56,000 Bulk 56,000 Bulk 56,000	2 170b	1778 1784					D   177	Bulk 80,000 Bulk 80,000			156	8		
	1794 1830 ( ) 1781	NK Mitsui Soko NK Mitsui Soko Unknown	Bulk 56,000  Bulk 56,000  '' '  Bulk 56,000	*	1794 1830	835				125 AB %Cido Shipping 129 AB/CR %Formosa Plastics(Taiwan) 148 NV NEU Seeschiffahrt	VLCC 298,300 VLCC 298,300 ORE 300,000	125					
	ONAMA B ( ) 1840 B ( ) 1829 1828	NK Venus Ocean Navigation NK Unknown Ministry of Defense(Japan) NK Unknown NK Mitsui Soko	Bulk 56,000 Bulk 56,000 DD 5,000LDT Bulk 56,000 Bulk 56,000	// // MES-B&W		1841				148   NV   NEU Seeschiffant	ORE 300,000 VLCC 298,300 VLCC 298,300 ORE 300,000		130   131   163				
	1846	NK Venus Ocean Navigation NK Unknown Unknown Unknown  V	Bulk 56,000 Bulk 56,000  Bulk 56,000	0 0 0		1842 1846 1844 1843				1	ORE 300,000  ORE 300,000  VLCC 298,300  ORE 300,000  VLCC 298,300		167	9 159 174 168			
	( ) ( ) 1855 1858 1848 1849	Unknown Unknown Unknown Unknown	Bulk 56,000 Bulk 66,000 Bulk 56,000 Bulk 56,000	0 0 0			1855 = 1858 = 1848			D	VLCC 298,300 VLCC 325,000 VLCC 325,000			169			
	1859	Unknown Unknown Unknown	Bulk 66,000 Bulk 56,000 Bulk 56,000				1853			( )	ORE 300,000						

## SHIP-BUILDING SCHEDULE MINOR EDITION

Bulk 180,000
Bulk 95,000
Bulk 9,000
Bulk 9
Bulk 6
Bulk 7
Bulk 7
Bulk 8
Bulk 180,000

This graph is designed to give you a list of ships under construction which enables you to learn their schedule of construction at a glance. N. B. Parentheses stand for "undecided"

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673 NK Japan Owner 1217 AB Daiichi Chuo Kisen(Japan)

222 NK Venus Ocean Navigation S.A 1223 NK Venus Ocean Navigation S.A

1233 NK Venus Ocean Navigation S.A[Ma 1225 NK Chowgule Steamship(India)

1226 AB Daiichi Chuo Kisen(Japan)

1227 AB Sumitomo Corporation 1228 AB Sumitomo Corporation

504 NK Toda Kisen

1218 AB Sumitomo Corporation(Japan)
1230 NK/CR ■Brave Pescadores S.A[1220:37BC→1230]

LPG RoRo

Container 900TEU

7,200 m 6,600 ″

ABBRE VIATIONS **OMANUFACTURER OF MAIN ENGINE** ka Akasaka Iron Works Co., Ltd. KHI Kawasaki Heavy Industries, Ltd. Disel United Co., Ltd. MH Mitsubisgi Heavy Industries, Ltd.
NII Niigata Engineering Co., Ltd.
NKK Nippon Kokan K. K. Double hull/Botom Type

Foreign Price: Major&Minor combined annual Subscription rate 7-13, Iwamoto-cho, 2-chome, Chiyoda-ku, US \$ 265.00 air mail charge US \$ 18.00 Totsl US \$ 283.00 GOTEMBA TOKYO OSAKA NAGOYA (0550)89-8890 (03)3502-8951 (06)374-2561 (052)932-2161 LAYINGKEEL LAUNCHED DELIVERY THE ZOSEN NEWS SHA Co., Ltd. Tokyo, 101-0032, Japan 2 Tokyo 03 (3861) 3091 \* Prices are Subject to change without notice. 20142015 **NATIONALITIES** 2012**NATIONALITIES NATIONALITIES** TYPE D/W ENGINE **ENGINE** D/W TYPE D/W SHIP-OWNER SHIP-OWNER SHIP-OWNER 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 6 7 8 9 10 11 12 1 2 3 4 5 1011121234567891011121 23456789101121 234567891011 2 3 4 5 6 7 8 9 1011121 2 3 4 5 6 7 8 9 1011121 2 3 4 5 6 7 8 9 1011 101112123456789101 62,000
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Chip
Bulk

Laker
Chip
Bulk Oomachou/JRTT(Japan) 749 NK Mitsubishi Corporation[Nissho Shipping]
750 NK Lauritzen Bulkers 
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PCC
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Bulk 37,800 HIZ-B&W ·739 NK Foreign Owner ·745 NK Lauritzen Bulkers Bulk Ferry 190GT 33,000 33,000 33,000 33,000 524 NK Japan Owner 526 NK Foreign Owner 528 NK Foreign Owner 33,000 33,000 33,000 32,700 32,700 32,700 529 NK Foreign Owner 527 NK Japan Owner 532 NK Japan Owner 533 NK Japan Owner 534 NK Japan Owner K.Line(Japan)
Sanko Steamship(Japan)
Gear Bulk(Norway)
K.Line
NYK
Emarat Maritime
Daiichi Chuo Kisen(Japan
Mitsui OSK Lines
Mitsubishi Ore Transport
K.Line
Gear bulk Bulk | S726 | NK | Unknown | S653 | Unknown | Unknown | S666 | % WUnknown | S666 | NK | Mitsui & C | S667 | NK | Mitsui & C | S665 | NK | Mitsui & S665 | NK | Mi Bulk
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Wisdom Marine Lines(Taiwan)

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730 NK Mitsui OSK Lines(Japan) Chip 3,800,000cf B&W6S50MC-C7 Chip 3,800,000cf B&W6S50MC-C7 732 NK Mitsui OSK Lines(Japan Chemical 19,900

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" Chemical 19,900 \*\*Bottiglieri di Navigazion
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Chemical 25,000
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Ferry 999GT

Ferry 1,700GT

Chemical 19,990

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#### Sea-web Ship Analysis Report - Top 100 Ship Status by Total No. of Ships

RankDetail	TotalDWT	TotalGT	TotalTEU	TotalHP	AvgAge	Ships
1 On Order/Not Commenced	221,096,898	147,461,682	3,582,441	56,053,261	0.0	3,829
2 Keel Laid	62,678,626	38,645,071	281,654	18,097,019	0.0	2,039
3 Launched	41.530,406	26,824,797	328,176	14,362,682	0.0	1,377
4 Under Construction	26,437,415	16,614,138	279,405	6,984,813	0.0	352
Grand Totals	351,743,345	229,545,688	4,471,676	95,497,775	-0.7	7,597

- New Buildings (except Projected)
- All ship types
- All sizes

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TITLE 46 - SHIPPING

CHAPTER I - COAST GUARD, DEPARTMENT OF HOMELAND SECURITY

SUBCHAPTER D - TANK VESSELS

PART 30 - GENERAL PROVISIONS

30.10 - 37 - Keel laying dateTB/ALL.

The term keel laying date means the date upon which progressive construction identifiable with a specific vessel begins, including construction of the first module or prefabricated section of the hull that is identifiable with that vessel.

[CGD 74127, 41 FR 3843, Jan. 26, 1976]