

# DOCUMENT OF COMPLIANCE FOR THE CARRIAGE OF DANGEROUS GOODS

Issued in pursuance of the requirement of regulation II-2/19.4 of the International Convention for Safety of Life at Sea, 1974, as amended  
under the authority of the Government of

## THE REPUBLIC OF LIBERIA

by **DNV GL**

### Particulars of Ship

Name of Ship:	<b>IRENES WAVE</b>
Distinctive Number or Letters:	<b>17176</b>
Port of Registry:	<b>MONROVIA</b>
Type of Ship:	<b>Container ship</b>
Date on which keel was laid	<b>2007-06-27</b>
IMO Number:	<b>9331165</b>

### This is to certify:

- That the construction and equipment of the above mentioned ship was found to comply with the provisions of regulation II-2/19.3 as applicable according to II-2/1.2.4 of the International Convention for the Safety of Life at Sea, 1974, as amended.
- That the ship is suitable for the carriage of those classes of dangerous goods specified in the appendix hereto, subject to any provisions in the IMDG Code for individual substances, materials or articles also being complied with.

This document is valid until **2023-01-22**.

Issued at **Shanghai, China** on **2017-12-21**



for **DNV GL**

*This document is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication can be obtained from [trust.dnvgl.com](http://trust.dnvgl.com) by using the Unique Tracking Number (UTN): n1095217-ygv and ID: 26253*

**Xing Quan Gong**  
Surveyor

There are no special requirements in the above-mentioned regulation II-2/19 for the carriage of dangerous goods of classes 6.2 and 7, and for the carriage of dangerous goods in limited quantities, as required in chapter 3.4 of the IMDG Code, and excepted quantities, as required in chapter 3.5 of the IMDG Code.



**Endorsement where the renewal survey has been completed and regulation I/14(d) applies**

ERC

The ship complies with the relevant requirements of the Convention, and this Certificate shall, in accordance with regulation I/14(d) of the Convention, be accepted as valid until .....

Place: ..... Date: .....

Signature: .....

Stamp \_\_\_\_\_ Surveyor, DNV GL

**Endorsement to extend the validity of the Certificate until reaching the port of survey or for a period of grace where regulation I/14(e) or I/14(f) applies**

EEV

This Certificate shall, in accordance with regulation I/14(e) or I/14(f)<sup>1</sup> of the Convention, be accepted as valid until .....

Place: ..... Date: .....

Signature: .....

Stamp \_\_\_\_\_ Surveyor, DNV GL

**Endorsement for advancement of anniversary date where regulation I/14(h) applies**

EAA

In accordance with regulation I/14(h) of the Convention, the new anniversary date is .....

Place: ..... Date: .....

Signature: .....

Stamp \_\_\_\_\_ Surveyor, DNV GL

In accordance with regulation I/14(h) of the Convention, the new anniversary date is .....

Place: ..... Date: .....

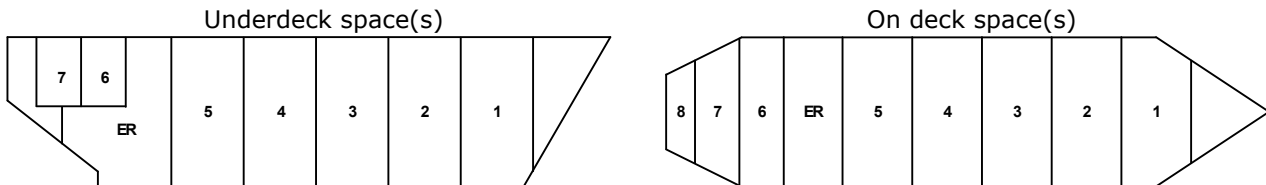
Signature: .....

Stamp \_\_\_\_\_ Surveyor, DNV GL

<sup>1</sup> Delete as appropriate.

**Sketch of the vessel**

Cargo spaces indicated in the sketch are corresponding with the table(s) hereafter

**Packaged goods**

Class	Underdeck space(s)					On deck space(s)		
	1	2 to 4	5	6, 7		1 to 5	6, 7	8
1.1 to 1.6	X	X	X	X		P	X	P
1.4S	P	P	P	P		P	P	P
2.1 hydrogen and hydrogen mixtures exclusively	X	X	X	X		P	P	P
2.1 other than hydrogen and hydrogen mixtures	X	X	X	X		P	P	P
2.2	P	P	P	X		P	P	P
2.3 flammable	X	X	X	X		P	P	P
2.3 non-flammable	X	X	X	X		P	P	P
3 FP < 23°C	X	X	X	X		P	P	P
3 23°C ≤ FP ≤ 60°C	P	P	P	X		P	P	P
4.1	P <sup>1)</sup>	P <sup>1)</sup>	P <sup>1)</sup>	X		P	P	P
4.2	P <sup>1)</sup>	P <sup>1)</sup>	P <sup>1)</sup>	X		P	P	P
4.3 liquids	X	C <sup>2)</sup>	X	X		P	P	P
4.3 solids	C	C	C	X		P	P	P
5.1	P <sup>1)</sup>	P <sup>1)</sup>	P <sup>1)</sup>	P <sup>1)3)</sup>		P	P	P
5.2	X	X	X	X		P	P	P
6.1 liquids FP < 23°C	X	X	X	X		P	P	P
6.1 liquids 23°C ≤ FP ≤ 60°C	X	X	X	X		P	P	P
6.1 liquids FP > 60°C	X	X	X	X		P	P	P
6.1 solids	P <sup>4)</sup>	P <sup>1)</sup>	P <sup>4)</sup>	P <sup>4)</sup>		P	P	P
8 liquids FP < 23°C	X	X	X	X		P	P	P
8 liquids 23°C ≤ FP ≤ 60°C	X	C <sup>5)</sup>	X	X		P	P	P
8 liquids FP > 60°C	P <sup>5)</sup>	P <sup>5)</sup>	P <sup>5)</sup>	P <sup>5)</sup>		P	P	P
8 solids	P	P	P	P		P	P	P
9 goods evolving flammable vapour exclusively	X	X	X	X		P	P	P
9 other than goods evolving flammable vapour	P <sup>4)</sup>	P <sup>1)</sup>	P <sup>4)</sup>	P <sup>4)</sup>		P	P	P

**P** Indicates PACKAGED GOODS PERMITTED**C** Indicates IN CLOSED FREIGHT CONTAINERS OR PORTABLE TANKS PERMITTED**X** Indicates NOT PERMITTED

Remarks:

- 1) If stowage in a "mechanically ventilated space" is stipulated by the IMDG Code, in closed freight containers.**
- 2) Except goods having a flashpoint less than 23°C listed in the IMDG Code.**
- 3) Except goods for which stowage "protected from sources of heat" is stipulated by the IMDG Code.**
- 4) Except goods for which stowage in a "mechanically ventilated space" is stipulated by the IMDG Code.**
- 5) Except goods having a subsidiary risk class 6.1.**

**Solid bulk cargoes**

Bulk cargo shipping name	Class	Underdeck space(s)					
ALUMINIUM FERROSILICON POWDER UN 1395	4.3						
ALUMINIUM NITRATE UN 1438	5.1						
ALUMINIUM SILICON POWDER, UNCOATED UN 1398	4.3						
ALUMINIUM SMELTING BY-PRODUCTS or REMELTING BY-PRODUCTS UN 3170	4.3						
AMMONIUM NITRATE BASED FERTILIZER UN 2067	5.1						
AMMONIUM NITRATE BASED FERTILIZER UN 2071	9						
AMMONIUM NITRATE UN 1942	5.1						
BARIUM NITRATE UN 1446	5.1						
CALCIUM NITRATE UN 1454	5.1						
CASTOR BEANS UN 2969	5.1						
COPRA (dry) UN 1363	4.2						
FERROSILICON UN 1408	4.3						
FERROUS METAL BORING, SHAVINGS, TURNINGS or CUTTINGS UN 2793	4.2						
FISHMEAL (FISHSCRAP), STABILIZED UN 2216	9						
IRON OXIDE, SPENT or IRON SPONGE, SPENT UN 1376	4.2						
LEAD NITRATE UN 1469	5.1						
MAGNESIUM NITRATE UN 1474	5.1						
METAL SULPHIDE CONCENTRATES, CORROSIVE UN 1759	8						
POTASSIUM NITRATE UN 1486	5.1						
SEED CAKE UN 2217	4.2						
SEED CAKE, containing vegetable oil UN 1386 (a)	4.2						
SEED CAKE, containing vegetable oil UN 1386 (b) mechanically expelled seeds	4.2						
SEED CAKE, containing vegetable oil UN 1386 (b) solvent extracted seeds	4.2						
SODIUM NITRATE UN 1498	5.1						
SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE UN 1499	5.1						
SULPHUR UN 1350	4.1						
ZINC ASHES UN 1435	4.3						

**B** Indicates SOLID BULK CARGOES PERMITTED**X** Indicates NOT PERMITTED

Remarks:

**None.**

## List of equipment

According to the provisions of regulation 19.3 as applicable according to II-2/1.2.4

Para	Requirement	Equipment provided
1.1	Compliance with reg. 10.7.2	<b>Hold 1 to 7: Fixed CO2 system</b>
3.1.1	Immediate supply of water	<b>Remote start of the main fire pumps from the navigation bridge</b>
3.1.2	Quantity of water and arrangement of hydrants	<b>Provided</b>
3.1.3	Water cooling	<b>Not provided</b>
3.1.4	Cargo hold flooding	<b>Not provided</b>
3.2	Sources of ignition	<b>Explosion protection of electrical equipment in Hold 1 to 7: all electrical equipment non-ex.-proof</b>
3.3	Detection system	<b>Hold 1 to 7: Sample extraction smoke detection and alarm system</b>
3.4.1	Mechanical ventilation	<b>Hold 2 to 4: Two air changes/h (Exhaust from upper and lower part)</b>
3.4.2.1	Safety of fans	<b>Hold 1, 5 to 7: Not applicable</b>
3.4.2.2	Wire mesh guards	<b>Hold 1, 5 to 7: Not applicable</b>
3.4.3	Natural ventilation	<b>Not applicable</b>
3.5	Bilge pumping	<b>Not provided</b>
3.6.1	Full protective clothing	<b>Four sets</b>
3.6.2	Additional self-contained breathing apparatuses	<b>Two sets in addition to fire-fighter's outfits</b>
3.7	Portable fire extinguishers	<b>Additional total of 12 kg dry powder</b>
3.8	Insulation of machinery space boundaries	<b>Hold 6, 7: Located above engine room (deck(s) not insulated)</b>
3.9	Water spraying system	<b>Not applicable</b>
3.10	Separation of ro-ro spaces	<b>Not applicable</b>