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TECHNICAL INFORMATION

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Subject: KR Notation Guide 2014

1. Please be informed that the “KR Notation Guide 2014” including the typical example notation for each ship type and the relevant rule reference, etc. has been developed for internal/external customer’s better understanding and practical use of KR’s class notations as attached.

Attachment: KR Notation Guide 2014 --- 1 copy. (The End)

Kim Chang-wook 
Executive Vice President of Technical Division

Distributions: KR surveyors, Ship owners, Other relevant parties.

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2014

Notation Guide

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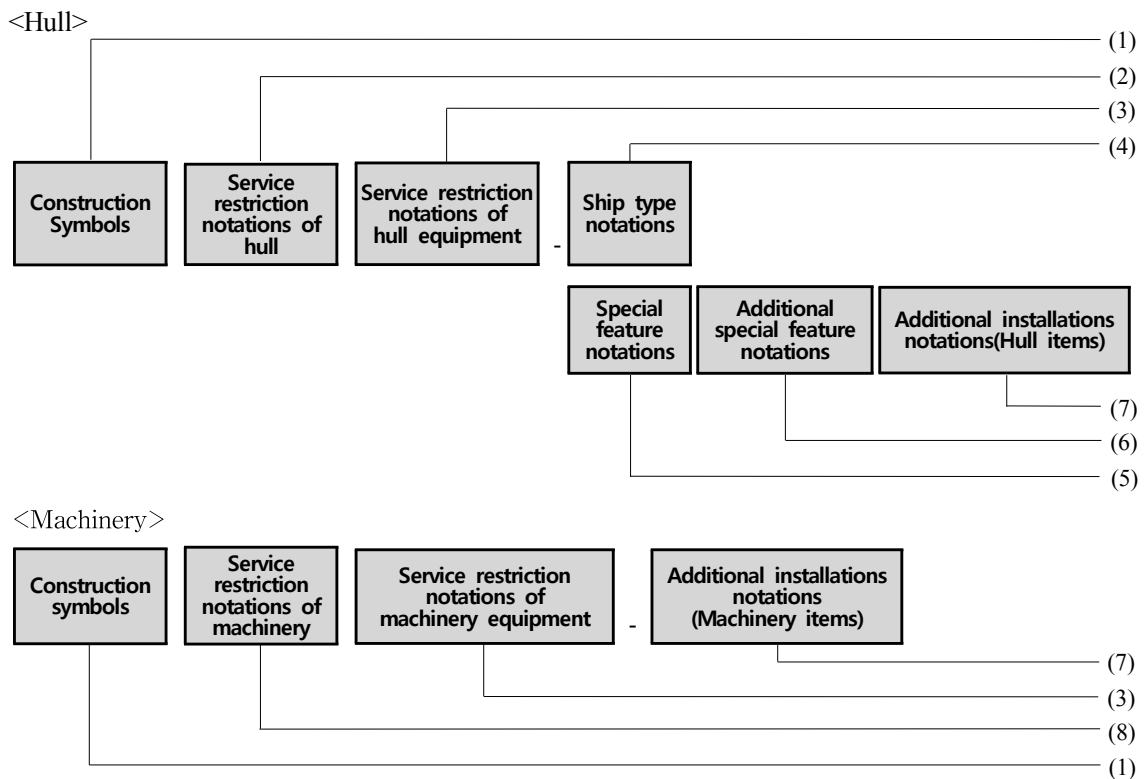
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CHAPTER 1 GENERAL

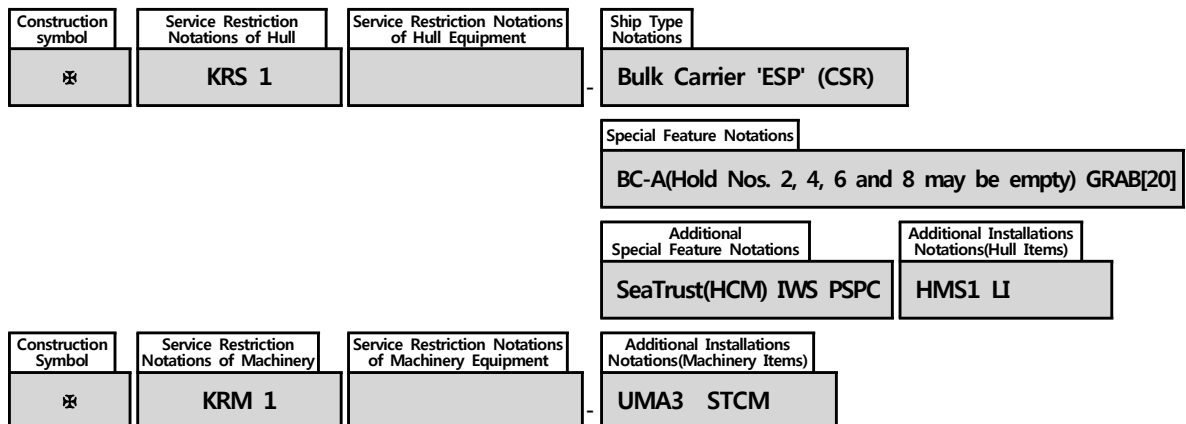
1. Ships built and surveyed for the classification in accordance with the Rules of the Society or in accordance with requirements deemed to be equivalent to the Rules by the Society will be assigned a class and registered in the Register of Ships.

2. Class Notation Configuration

The class will be distinguished by the class notations and the typical arrangement of class notations will consist of the following structure.



Example)



(1) Construction Symbols

The Construction Symbols assigned to the ships according to the distinction of Classification Survey are to be in accordance with the followings:

- ⌘ : For ships built under the supervision of the Society.
- No symbol : For ships considered to be fit as the result of surveys by the Surveyor after construction with the exception of the above mentioned construction symbols

(2) Service Restriction Notations of Hull

The following Service Restriction Notations will be assigned for ships with hull construction and strength found to be in compliance with the Rules:

(refer to the **Guidance Pt 1 Ch 1 201. 4** for the reduced requirements according to the restricted service area)

KRS 1 : For ships unrestricted in service area

KRS 0 : For ships restricted in service area

(3) Service Restriction Notation of Hull Equipment or Machinery Equipment

The following Service Restriction Notations will be assigned for ships with hull equipment or machinery equipment found to be in compliance with the Rules:

(refer to the **Guidance Pt 1 Ch 1 201. 4** for the reduced requirements according to the restricted service area)

No symbol : For ships unrestricted in service area

C : For ships approved with the condition of coastal service

S : For ships approved with the condition of smooth water service

(4) Ship Type Notations

The Ship Type Notations such as **Oil Tanker 'ESP'(FBC), Bulk Carrier 'ESP', Cargo Ship, Passenger Ship, Tug Boat, Barge**, etc. will be assigned to indicate the type of the ship. (refer **Ch 2**)

(5) Special Feature Notations

The Special Feature Notations will be appended to the Ship Type Notations if applicable for the relevant Ship Type Notation. These Special Feature Notations could consist of the hull structure and the cargo tank type fitted for the kind and nature of cargoes, cargo loading condition, design temperature, design pressure, the apparent specific gravity of cargoes, etc. (refer **Ch 2**)

(6) Additional Special Feature Notations

When the additional special features are complying with the relevant requirements, the Additional Special Feature Notations will be appended to the Special Feature Notations. The Additional Special Feature Notations are to be located under Service Restriction Notations of Hull after Special Feature Notations regardless whether they are hull items or machinery items. (refer **Ch 3**)

(7) Additional Installations Notations

When the additional installations are complying with the relevant requirements, the Additional Installations Notations may be appended. The hull items such as **HMS, HMS1, CHA, LI, EQ-SPM, PKS, SUR, BOU, SAT** will be appended at the end of hull side notations and the machinery items such as **UMA, UMA1, UMA2, UMA3, CMA, STCM, DPS(0), DPS(1), DPS(2), DPS(3), NBS, NBS1, NBS2, IGS, COW, RMC, GFS(dual fuel)** will be appended at the end of machinery side notations. (refer **Ch 4**)

(8) Service Restriction Notations of Machinery

The following Service Restriction Notations will be assigned for ships, which have main propulsion machinery, with machinery and electrical installations found to be in compliance with the Rules:

(refer to the **Guidance Pt 1 Ch 1 201. 4** for the reduced requirements according to the restricted service area)

KRM 1 : For ships unrestricted in service area.

KRM 0 : For ships restricted in service area.

3. The class notations of large yachts classed with the Society are to be in accordance with the requirements specified in **Pt 1, Ch 1, 103.** of the **Guidance for Large Yachts** and the class notations of recreational crafts classed with the Society are to be in accordance with the requirements specified in **Ch 1, 103.** of the **Guidance for Recreational Crafts.**



(NOTES) 1. Unless otherwise specified elsewhere, the "Rules" means the Society's "Rules for the Classification of Steel Ships" and the "Guidance" means the Society's "Guidance Relating to the Rules for the Classification of Steel Ships".

2. This Notation Guide is made based on the KR Technical Rules which are effective on or after 1 July 2014.

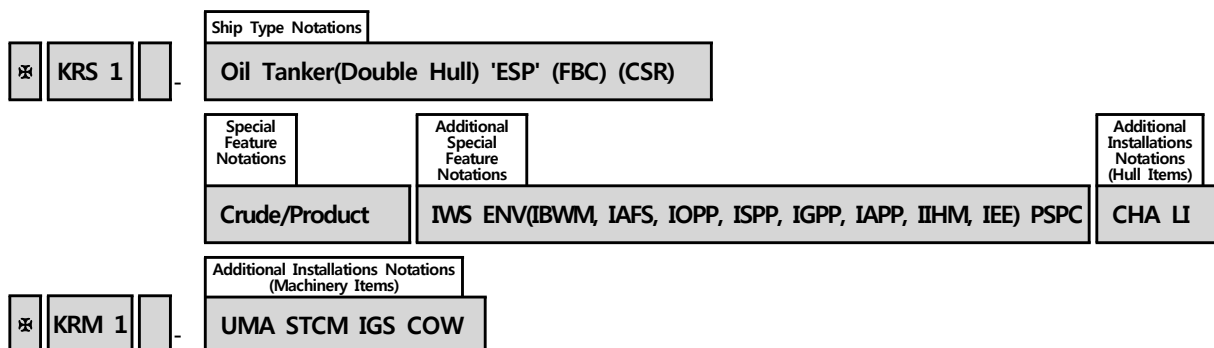
CHAPTER 2 SHIP TYPE NOTATIONS AND SPECIAL FEATURE NOTATIONS

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Oil Tanker

Ship Type Notations		Special Feature Notations
Oil Tanker (Double Hull) (FAC) (FAO) (FBC) (CSR)	'ESP'	Crude Product Crude/Product Product/Asphalt Asphalt
		Asphalt

< Typical Example >



Oil Tanker

NOTATIONS (Ship Type Notations)

Oil Tanker
 Oil Tanker(Double Hull)
 Oil Tanker 'ESP'
 Oil Tanker(Double Hull) 'ESP'

DESCRIPTIONS

Oil Tanker : to be assigned to ships which are constructed primarily for the carriage of oil in bulk.

(Double Hull) : to be assigned to ships which are constructed primarily for the carriage of oil in bulk, which have the cargo tanks protected by a double hull which extends for the entire length of the cargo area, consisting of double sides and double bottom spaces for the carriage of water ballast or void spaces.

'ESP' : to be assigned to ships which are constructed generally with integral tanks and intended primarily to carry oil in bulk. This type notation shall be assigned to tankers of both single and double hull construction, as well as tankers with alternative structural arrangements, e.g. mid-deck designs.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Oil Tanker	Pt 7 Ch 1	Pt 1 Ch 2
Oil Tanker(Double Hull)	Pt 7 Ch 10	Pt 1 Ch 2
Oil Tanker 'ESP'	Pt 7 Ch 1	Pt 1 Ch 2, Pt 1 Ch 3 Sec 3
Oil Tanker(Double Hull) 'ESP'	Pt 7 Ch 10	Pt 1 Ch 2, Pt 1 Ch 3 Sec 5

EXAMPLES

 ✕ KRS 1 - **Oil Tanker** (FAO)
 Asphalt IWS ENV(IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 ✕ KRM 1

✕ KRS 1 - **Oil Tanker 'ESP'** (FBC)
 Product ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA LI
 ✕ KRM 1 - UMA STCM IGS COW

✕ KRS 1 - **Oil Tanker(Double Hull) 'ESP'** (FBC) (CSR)
 Crude/Product IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, VEC-2, IIHM, IEE) PSPC CHA LI
 ✕ KRM 1 - UMA3 STCM IGS COW

Oil Tanker

NOTATIONS (Ship Type Notations – Flash Point/Tank Vent)

(FAC)

(FAO)

(FBC)

DESCRIPTIONS

(FAC) : to be assigned to ships which are carrying cargoes of flash point above 60°C with controlled tank vents

(FAO) : to be assigned to ships which are carrying cargoes of flash point above 60°C with open tank vents

(FBC) : to be assigned to ships which are carrying cargoes of flash point of 60°C and below with controlled tank vents

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(FAC)	Pt 7 Ch 1 Sec 10	-
(FAO)	Pt 7 Ch 1 Sec 10	-
(FBC)	Pt 7 Ch 1 Sec 10	-

EXAMPLES

 ✖ KRS 1 - Oil Tanker **(FAO)**

Asphalt IWS ENV(IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI

✖ KRM 1

 ✖ KRS 1 - Oil Tanker 'ESP' **(FBC)**

Product ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA LI

✖ KRM 1 - UMA STCM IGS COW

 ✖ KRS 1 - Oil Tanker(Double Hull) 'ESP' **(FBC)** (CSR)

Crude/Product IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, VEC-2, ITHM, IEE) PSPC CHA LI

✖ KRM 1 - UMA3 STCM IGS COW

Oil Tanker

NOTATIONS (Ship Type Notations – Common Structural Rules)

(CSR)

DESCRIPTIONS

(CSR) : to be assigned to ships comply with the requirements of IACS's Common Structural Rules for Double Hull Oil Tankers(Pt 12).

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(CSR)	Pt 12	Pt 1 Ch 2, Pt 1 Ch 3, Pt 12

EXAMPLES

-
- ⊗ KRS 1 - Oil Tanker(Double Hull) 'ESP' (FBC) **(CSR)**
Crude/Product IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, VEC-2, IHM, IEE) PSC CHA LI
 - ⊗ KRM 1 - UMA3 STCM IGS COW
-

Oil Tanker

NOTATIONS (Special Feature Notations)

Crude
Product
Crude/Product
Product/Asphalt
Asphalt

DESCRIPTIONS

Crude : to be assigned to ships carrying crude oil in bulk primarily.

Product : to be assigned to ships carrying product oil in bulk primarily.

Crude/Product : to be assigned to ships carrying crude oil and product oil in bulk primarily.

Product/Asphalt : to be assigned to ships carrying product oil and asphalt in bulk primarily.

Asphalt : to be assigned to ships carrying asphalt in bulk primarily. For asphalt carriers of which all cargo tanks are independent type, the 'ESP' notation is not to be assigned and the additional requirements for Oil Tanker 'ESP' and Oil Tanker(Double Hull) 'ESP' specified in Pt 1(i.e. ESP requirements) are not to be applied.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Crude	Pt 7 Ch 1	-
Product	Pt 7 Ch 1	-
Crude/Product	Pt 7 Ch 1	-
Product/Asphalt	Pt 7 Ch 1	-
Asphalt	Pt 7 Ch 1	-

EXAMPLES

✧ KRS 1 - Oil Tanker (FAO)

Asphalt IWS ENV(IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI

✧ KRM 1

(Remarks : For asphalt carriers of which all cargo tanks are independent type, the 'ESP' notation is not to be assigned)

✧ KRS 1 - Oil Tanker 'ESP' (FBC)

Product ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA LI

✧ KRM 1 - UMA STCM IGS COW

✧ KRS 1 - Oil Tanker(Double Hull) 'ESP' (FBC) (CSR)

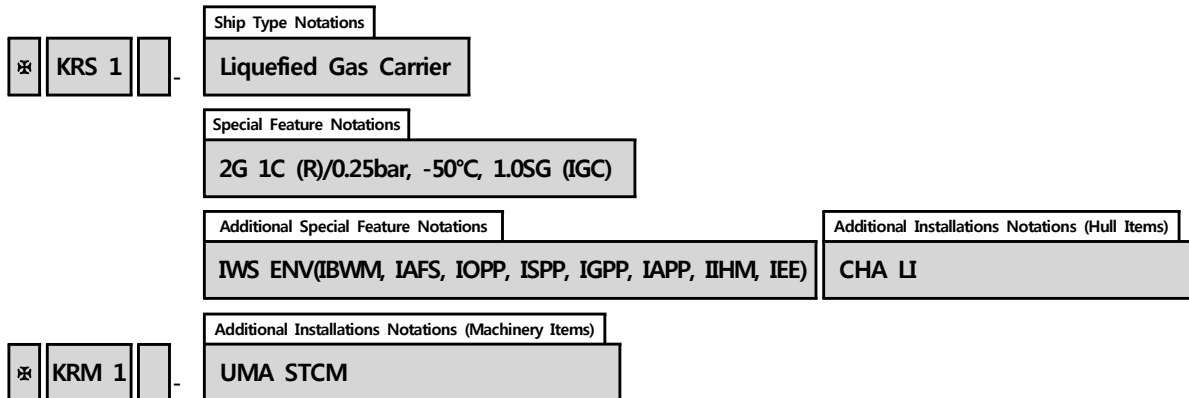
Crude/Product IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, VEC-2, IIM, IEE) PSPC CHA LI

✧ KRM 1 - UMA3 STCM IGS COW

Liquefied Gas Carrier

Ship Type Notations	Special Feature Notations				
	Type of Ship	Type of Tank	Transportation Mode	Design Aspect or Exclusive Cargo	IMO Code
Liquefied Gas Carrier	1G	2I	(R)	Design Pressure, Minimum Temperature and Specific Gravity(SG)	(IGC) (GC) (GCX)
	2G	3M	(P)		
	2PG	3S	(RP)	Name of Liquefied Gas when exclusively carried	
	3G	1A			
		1B			
		1C			
		1N			
		2N			
	LPG				

< Typical Example >



Liquefied Gas Carrier

NOTATIONS (Ship Type Notations)

Liquefied Gas Carrier

DESCRIPTIONS

Liquefied Gas Carrier : to be assigned to ships carrying liquefied gas in bulk.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Liquefied Gas Carrier	Pt 7 Ch 5	Pt 1 Ch 2

EXAMPLES

 ✕ KRS 1 - **Liquefied Gas Carrier**
 2G 1C (R)/0.25bar, -50°C, 1.0SG (IGC)
 ✕ KRM 1

 ✕ KRS 1 - **Liquefied Gas Carrier**
 1C (P)/Propane (GCX)
 ✕ KRM 1

 ✕ KRS 1 - **Liquefied Gas Carrier**
 LPG
 ✕ KRM 1

Liquefied Gas Carrier

NOTATIONS (Special Feature Notations – Type of Ship)

1G
2G
2PG
3G

DESCRIPTIONS

This notations will be assigned according to the ship's type which are to be determined by Pt 7, Ch 5, Sec 2, 205. (damage assumption), 206. (location of cargo tanks), 208. (standard of damage) and 209. (survival requirements) as followings.

1G : to be assigned to ships intended to transport products which require maximum preventive measures to preclude the escape of such cargo. (Refer to Pt 7 Ch 5 Sec 2 and Sec 19 Summary of Minimum Requirements)

2G : to be assigned to ships intended to transport products which require significant preventive measures to preclude the escape of such cargo. (Refer to Pt 7 Ch 5 Sec 2 and Sec 19 Summary of Minimum Requirements)

2PG : to be assigned to ships of 150 m in length or less intended to transport products which require significant preventive measures to preclude the escape of such cargo, and where the products are carried in independent type C tanks designed for a MARVS(Maximum Allowable Relief Valve Setting) of at least 7 bar gauge and a cargo containment system of design temperature of -55°C or above. However, a ship of this description, but over 150 m in length is to be considered a type **2G** ship. (Refer to Pt 7 Ch 5 Sec 2 and Sec 19 Summary of Minimum Requirements)

3G : to be assigned to ships intended to transport products which require moderate preventive measures to preclude the escape of such cargo. (Refer to Pt 7 Ch 5 Sec 2 and Sec 19 Summary of Minimum Requirements)

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
1G	Pt 7 Ch 5 Sec 2	-
2G	Pt 7 Ch 5 Sec 2	-
2PG	Pt 7 Ch 5 Sec 2	-
3G	Pt 7 Ch 5 Sec 2	-

EXAMPLES

-
- ✕ KRS 1 - Liquefied Gas Carrier
 2G 1C (R)/0.25bar, -50°C, 1.0SG (IGC)
 - ✕ KRM 1
-

Liquefied Gas Carrier

NOTATIONS (Special Feature Notations – Type of Tank)

2I
3M
3S
1A
1B
1C
1N
2N

DESCRIPTIONS

2I : Integral Tank

- to be assigned to ships having tanks to form a structural part of the ship's hull(primary barrier for containment of cargo). ($P_o \leq 0.25 \text{ bar}$ (Max. 0.7 bar), $T_o \geq -10 \text{ }^\circ\text{C}$) (Refer to Pt 7 Ch 5 Sec 4)

3M : Membrane Tank

- to be assigned to ships having non-self supporting tanks which consist of a thin layer(membrane) supported through insulation by the adjacent hull structure(primary barrier for containment of cargo). ($P_o \leq 0.25 \text{ bar}$ (Max. 0.7 bar), Thickness $\leq 10 \text{ mm}$) (Refer to Pt 7 Ch 5 Sec 4)

3S : Semi-membrane Tank

- to be assigned to ships having non-self supporting tanks in the loaded condition, which consist of a layer, part of which is supported through insulation by the adjacent hull structure(primary barrier for containment of cargo). ($P_o \leq 0.25 \text{ bar}$ (Max. 0.7 bar)) (Refer to Pt 7 Ch 5 Sec 4)

1A : Independent Tank Type A

- to be assigned to ships having gravity tanks. (Tanks designed using the requirements of Pt 3, Ch 15, $P_o \leq 0.7 \text{ bar}$ (for plane surfaces)) (Refer to Pt 7 Ch 5 Sec 4)

1B : Independent Tank Type B

- to be assigned to ships having gravity tanks or pressure vessels. (Tanks designed using model tests, refined analytical tools and analysis methods, $P_o \leq 0.7 \text{ bar}$ (for gravity tanks)) (Refer to Pt 7 Ch 5 Sec 4)

1C : Independent tank type C

- to be assigned to ships having pressure vessels. (Tanks designed using the requirements of Pt 5, Ch 5, Design vapour pressure to be specially considered) (Refer to Pt 7 Ch 5 Sec 4)

1N : Internal Insulation Tank Type 1

- to be assigned to ships having tanks in which the insulation or a combination of the insulation and one or more liners functions only as the primary barrier. (Inner hull or an independent tank structure to function as the secondary barrier when required. The inner surface of the insulation is not exposed to the cargo, Design criteria same as **2I**, **3M** and **3S**) (Refer to Pt 7 Ch 5 Sec 4)

2N : Internal Insulation Tank Type 2

- to be assigned to ships having tanks in which the insulation or a combination of the insulation and one or more liners functions only as both the primary and the secondary barrier. (Design criteria same as **2I**, **3M** and **3S**) (Refer to Pt 7 Ch 5 Sec 4)

(Remarks) 1 : Independent, 2 : Integral, 3 : Membrane

P_o : Design Vapour Pressure, T_o : Boiling Point of the Cargo

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
2I	Pt 7 Ch 5 Ch 4	-
3M	Pt 7 Ch 5 Ch 4	-
3S	Pt 7 Ch 5 Ch 4	-
1A	Pt 7 Ch 5 Ch 4	-
1B	Pt 7 Ch 5 Ch 4	-
1C	Pt 7 Ch 5 Ch 4	-
1N	Pt 7 Ch 5 Ch 4	-
2N	Pt 7 Ch 5 Ch 4	-

EXAMPLES

-
- ✧ KRS 1 - Liquefied Gas Carrier
2G **1C** (R)/0.25bar, -50°C, 1.0SG (IGC)
 - ✧ KRM 1
-

Liquefied Gas Carrier

NOTATIONS (Special Feature Notations – Transportation Mode)

(R)
(P)
(RP)

DESCRIPTIONS

(R) : to be assigned to ships having fully refrigerated transportation mode.

(P) : to be assigned to ships having fully pressurized transportation mode.

(RP) : to be assigned to ships having refrigerated and pressurized transportation mode.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(R)	Pt 7 Ch 5	-
(P)	Pt 7 Ch 5	-
(RP)	Pt 7 Ch 5	-

EXAMPLES

 ✕ KRS 1 - Liquefied Gas Carrier
 2G 1C (R)/0.25bar, -50°C, 1.0SG (IGC)
 ✕ KRM 1

Liquefied Gas Carrier

NOTATIONS (Special Feature Notations - Design Pressure, Minimum Temperature and Specific Gravity(SG) or Name of Liquefied Gas when exclusively carried)

Design Pressure, Minimum Temperature and Specific Gravity(SG) or
Name of Liquefied Gas when exclusively carried

DESCRIPTIONS

Design Pressure, Minimum Temperature and Specific Gravity(SG) or Name of Liquefied Gas when exclusively carried : Design pressure, minimum temperature and specific gravity(SG) or name of liquefied gas when exclusively carried shall be assigned.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Design Pressure, Minimum Temperature and Specific Gravity(SG)	Pt 7 Ch 5	-
Name of Liquefied Gas when exclusively carried	Pt 7 Ch 5	-

EXAMPLES

-
- ✧ KRS 1 - Liquefied Gas Carrier
2G 1C (R)/**0.25bar, -50℃, 1.0SG** (IGC)
 - ✧ KRM 1
-

Liquefied Gas Carrier

NOTATIONS (Special Feature Notations - IMO Code)

(IGC)
(GC)
(GCX)

DESCRIPTIONS

(IGC) : to be assigned to ships built in compliance with the requirements given in Pt 7, Ch 5 of the Rules and constructed on or after 1 July 1986.

(GC) : to be assigned to ships built in compliance with the IMO Res.A.328(IX).

(GCX) : to be assigned to ships built in compliance with IMO Res.A.329(IX).

For the ships except the above, additional notation is not assigned.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(IGC)	Pt 7 Ch 5	-
(GC)	IMO Res.A.328(IX)	-
(GCX)	IMO Res.A.328(IX)	-

EXAMPLES

 ✕ KRS 1 - Liquefied Gas Carrier
 2G 1C (R)/0.25bar, -50°C, 1.0SG **(IGC)**
 ✕ KRM 1

 ✕ KRS 1 - Liquefied Gas Carrier
 1C (P)/Propane **(GCX)**
 ✕ KRM 1

Liquefied Gas Carrier

NOTATIONS (Special Feature Notations - LPG)

LPG

DESCRIPTIONS

LPG : to be assigned to liquefied gas carriers carrying only propane and butane. However, the names of the following cargoes, instead of propane and butane, may be given for ships carrying cargoes other than propane and butane under the approval of the Society. (Example) Ammonia, Butadiene, Propylene, VCM, Ethylene Oxide, Ethylene, etc.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
LPG	Pt 7 Ch 5	-

EXAMPLES

 ✕ KRS 1 - Liquefied Gas Carrier

LPG

✕ KRM 1

 ✕ KRS 1 - Liquefied Gas Carrier

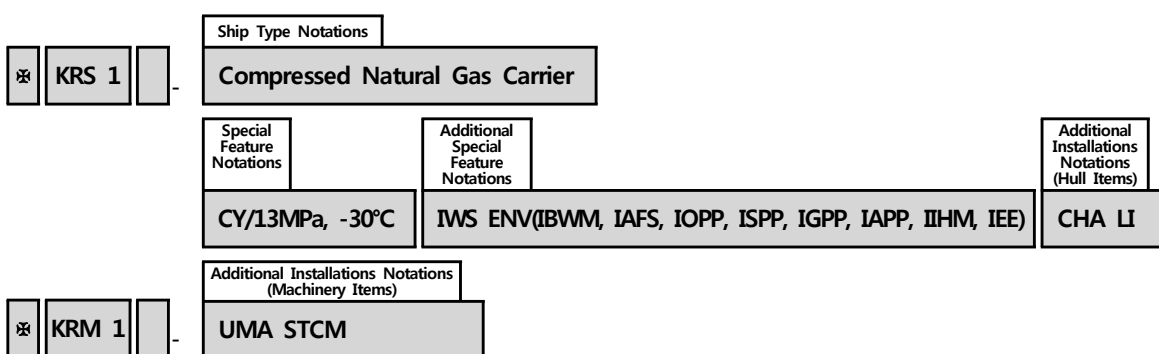
VCM

✕ KRM 1

Compressed Natural Gas Carrier

Ship Type Notations	Special Feature Notations	
	Type of Cargo Tank	Design Aspect
Compressed Natural Gas Carrier	CO CY	Design Pressure, Minimum Temperature

< Typical Example >



Compressed Natural Gas Carrier

NOTATIONS (Ship Type Notations)

Compressed Natural Gas Carrier

DESCRIPTIONS

Compressed Natural Gas Carrier : to ships complied with Guidance for Ships Carrying CNG in Bulk.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Compressed Natural Gas Carrier	Guidance for Ships Carrying CNG in Bulk	Guidance for Ships Carrying CNG in Bulk

EXAMPLES

 ✕ KRS 1 - **Compressed Natural Gas Carrier**

CY/13MPa, -30°C

✕ KRM 1

Compressed Natural Gas Carrier

NOTATIONS (Special Feature Notations – Type of Cargo Tank)

CO
CY

DESCRIPTIONS

CO : to be assigned to ships having coiled cargo tanks which are complied with Ch 3, 402. 1 (2) (A) of the Guidance for Ships Carrying CNG in Bulk.

CY : to be assigned to ships having cylindrical cargo tanks which are complied with Ch 3, 402. 1 (2) (B) of the Guidance for Ships Carrying CNG in Bulk.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
CO	Guidance for Ships Carrying CNG in Bulk	-
CY	Guidance for Ships Carrying CNG in Bulk	-

EXAMPLES

⊗ KRS 1 - Compressed Natural Gas Carrier

CY/13MPa, -30°C

⊗ KRM 1

Compressed Natural Gas Carrier

NOTATIONS (Special Feature Notations - Design Pressure, Minimum Temperature)

Design Pressure, Minimum Temperature

DESCRIPTIONS

Design Pressure, Minimum Temperature : Design Pressure, Minimum Temperature is to be assigned.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Design Pressure, Minimum Temperature	Guidance for Ships Carrying CNG in Bulk	-

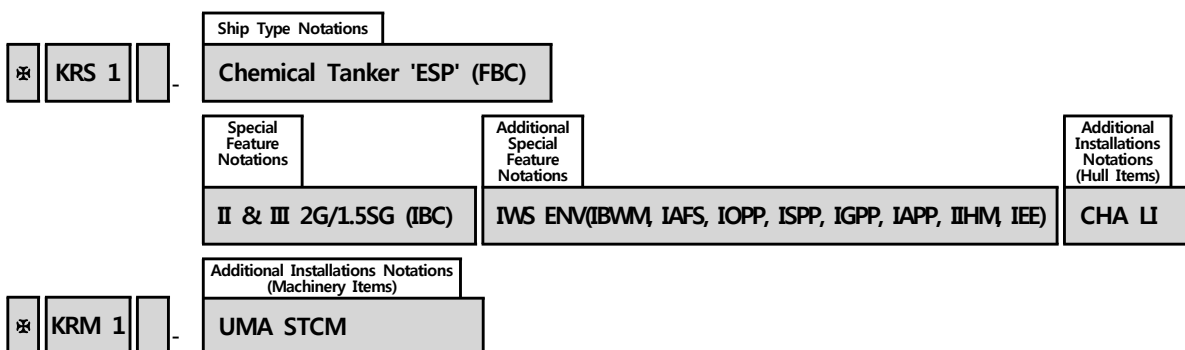
EXAMPLES

-
- ✧ KRS 1 - Compressed Natural Gas Carrier
CY/**13MPa, -30℃**
 - ✧ KRM 1
-

Chemical Tanker

Ship Type Notations		Special Feature Notations			
Chemical Tanker (FAC) (FAO) (FBC)	'ESP'	Type of Ship	Type of Tank	Design Aspect or Exclusive Cargo	IMO Code
		I II III II&III	1G 2G 1P	Apparent Specific Gravity (SG) Name of Chemical when exclusively carried	(IBC) (BCH) (BCX)

< Typical Example >



Chemical Tanker

NOTATIONS (Ship Type Notations)

Chemical Tanker
Chemical Tanker 'ESP'

DESCRIPTIONS

Chemical Tanker : to be assigned to ships which are constructed primarily for the carriage of chemicals(liquid cargoes specified in(Pt 7, Ch 6, Sec 17 of the Rules) in bulk.

'ESP' : to be assigned to ships which are constructed generally with integral tanks and intended primarily to carry chemicals(liquid cargoes specified in Pt 7, Ch 6, Sec 17 of the Rules) in bulk. This type notation shall be assigned to chemical tankers of both single or double hull construction, as well as chemical tankers with alternative structural arrangements.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Chemical Tanker	Pt 7 Ch 6	Pt 1 Ch 2
Chemical Tanker 'ESP'	Pt 7 Ch 6	Pt 1 Ch 2, Pt 1 Ch 3 Sec 4

EXAMPLES

-
- ⊗ KRS 1 - **Chemical Tanker** (FAO)
III 1G/Sulphur Molten (IBC) IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ⊗ KRM 1
-
- ⊗ KRS 1 - **Chemical Tanker 'ESP'** (FBC)
II & III 2G/1.5SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ⊗ KRM 1 - UMA STCM
-

Chemical Tanker

NOTATIONS (Ship Type Notations – Flash Point/Tank Vent)

(FAC)

(FAO)

(FBC)

DESCRIPTIONS

(FAC) : to be assigned to ships which are carrying cargoes of flash point above 60°C with controlled tank vents

(FAO) : to be assigned to ships which are carrying cargoes of flash point above 60°C with open tank vents

(FBC) : to be assigned to ships which are carrying cargoes of flash point of 60°C and below with controlled tank vents

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(FAC)	Pt 7 Ch 1 Sec 10	-
(FAO)	Pt 7 Ch 1 Sec 10	-
(FBC)	Pt 7 Ch 1 Sec 10	-

EXAMPLES

 ✕ KRS 1 - Chemical Tanker **(FAO)**
 III 1G/Sulphur Molten (IBC) IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 ✕ KRM 1

 ✕ KRS 1 - Chemical Tanker 'ESP' **(FBC)**
 II & III 2G/1.5SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 ✕ KRM 1 - UMA STCM

Chemical Tanker

NOTATIONS (Special Feature Notations – Type of Ship)

I
II
III
II & III

DESCRIPTIONS

This notations will be assigned according to the ship's type which are to be determined by Pt 7, Ch 6, Sec 2, 205. (damage assumption), 206. (location of cargo tanks), 208. (standard of damage) and 209. (survival requirements) as followings.

I : to be assigned to ships intended to transport products with very severe environmental and safety hazards which require maximum preventive measures to preclude an escape of such cargo. (Refer to Pt 7 Ch 6 Sec 17 Summary of Minimum Requirements, column E)

II : to be assigned to ships intended to transport products with appreciably severe environmental and safety hazards which require significant preventive measures to preclude an escape of such cargo. (Refer to Pt 7 Ch 6 Sec 17 Summary of Minimum Requirements, column E)

III : to be assigned to ships intended to transport products with sufficiently severe environmental and safety hazards which require a moderate degree of containment to increase survival capability in a damaged condition. (Refer to Pt 7 Ch 6 Sec 17 Summary of Minimum Requirements, column E)

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
I	Pt 7 Ch 6 Sec 2	-
II	Pt 7 Ch 6 Sec 2	-
III	Pt 7 Ch 6 Sec 2	-
II & III	Pt 7 Ch 6 Sec 2	-

EXAMPLES

-
- ⊗ KRS 1 - Chemical Tanker (FAO)
 - III 1G/Sulphur Molten (IBC) IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ⊗ KRM 1
-
- ⊗ KRS 1 - Chemical Tanker 'ESP' (FBC)
 - II & III 2G/1.5SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ⊗ KRM 1 - UMA STCM
-

Chemical Tanker

NOTATIONS (Special Feature Notations – Type of Tank)

1G
2G
1P

DESCRIPTIONS

1 : Independent Tank

- to be assigned to ships having independent gravity tanks or pressure vessels as a cargo containment envelope which is not contiguous with or part of the hull structure.

(Tanks designed using the requirements of Pt 3, Ch 15 and Pt 5, Ch 5 of the Rules)

2 : Integral Tank

- to be assigned to ships having self-supporting hull construction tanks.

($P_o \leq 0.25 \text{ bar}$ (Max. 0.7 bar), $T_o \geq -10 \text{ }^\circ\text{C}$)

G : Gravity Tank

- to be assigned to ships having independent or integral tanks.

($P_o \leq 0.7 \text{ bar}$)

P : Pressure Tank

- to be assigned to ships having independent pressure tanks.

(Tanks designed using the requirements of Pt 5, Ch 5 of the Rules, $P_o > 0.7 \text{ bar}$)

(Remarks) P_o : Design Pressure, T_o : Boiling Point of the Cargo

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
1G	Pt 7 Ch 6 Sec 4	-
2G	Pt 7 Ch 6 Sec 4	-
1P	Pt 7 Ch 6 Sec 4	-

EXAMPLES

⌘ KRS 1 - Chemical Tanker (FAO)

III **1G**/Sulphur Molten (IBC) IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI

⌘ KRM 1

⌘ KRS 1 - Chemical Tanker 'ESP' (FBC)

II & III **2G**/1.5SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI

⌘ KRM 1 - UMA STCM

Chemical Tanker

NOTATIONS (Special Feature Notations - Apparent Specific Gravity(SG) or Name of Chemical when exclusively carried)

Apparent Specific Gravity(SG) or
Name of Chemical when exclusively carried

DESCRIPTIONS

Apparent Specific Gravity(SG) or Name of Chemical when exclusively carried : Apparent specific gravity(SG) or name of Chemical when exclusively carried shall be assigned.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Apparent Specific Gravity(SG)	Pt 7 Ch 6	-
Name of Chemical when exclusively carried	Pt 7 Ch 6	-

EXAMPLES

-
- ⊗ KRS 1 - Chemical Tanker (FAO)
III 1G/**Sulphur Molten** (IBC) IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ⊗ KRM 1
-
- ⊗ KRS 1 - Chemical Tanker 'ESP' (FBC)
II & III 2G/**1.5SG** (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ⊗ KRM 1 - UMA STCM
-

Chemical Tanker

NOTATIONS (Special Feature Notations – IMO Code)

(IBC)
(BCH)
(BCX)

DESCRIPTIONS

(IBC) : to be assigned to ships built in compliance with the requirements given in Pt 7, Ch 6 of the Rules and constructed on or after 1 July 1986.

(BCH) : to be assigned to ships built in compliance with the requirements given in Pt 7, Ch 6 of the Rules and constructed before 30 June 1986 and on or after 12 April 1972.

(BCX) : to be assigned to ships built in compliance with Par 1.7.3 of BCH Code and constructed before 11 April 1972.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(IBC)	Pt 7 Ch 6	-
(BCH)	Pt 7 Ch 6	-
(BCX)	BCH Code 1.7.3	-

EXAMPLES

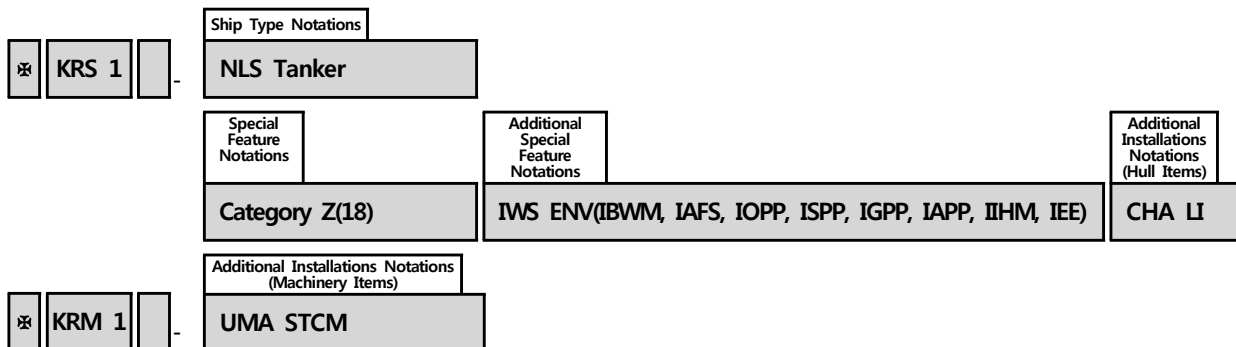
 ✕ KRS 1 - Chemical Tanker (FAO)
 III 1G/Sulphur Molten **(IBC)** IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 ✕ KRM 1

✕ KRS 1 - Chemical Tanker 'ESP' (FBC)
 II & III 2G/1.5SG **(IBC)** IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 ✕ KRM 1 - UMA STCM

NLS Tanker

Ship Type Notations	Special Feature Notations
NLS Tanker	Category Z(18)

< Typical Example >



NLS Tanker

NOTATIONS (Ship Type Notations)

NLS Tanker

DESCRIPTIONS

NLS Tanker : to be assigned to ships carrying only cargoes in bulk, except chemical(liquid cargoes specified in Pt 7, Ch 6, Sec 17 of the Rules), classified as pollution category Z, or category Z and OS, which are not subject to IBC Code and specified in Pt 7, Ch 6, Sec 18 of the Rules.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
NLS Tanker	Pt 7 Ch 6 Sec 18	Pt 1 Ch 2

EXAMPLES

-
- ✧ KRS 1 - **NLS Tanker**
Category Z(18)
 - ✧ KRM 1
-

NLS Tanker

NOTATIONS (Special Feature Notations)

Category Z(18)

DESCRIPTIONS

Category Z(18) : to be assigned to ships carrying only cargoes in bulk, except chemical(liquid cargoes specified in Pt 7, Ch 6, Sec 17 of the Rules), classified as pollution category Z, or category Z and OS, which are not subject to IBC Code and specified in Pt 7, Ch 6, Sec 18 of the Rules.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Category Z(18)	Pt 7 Ch 6 Sec 18	-

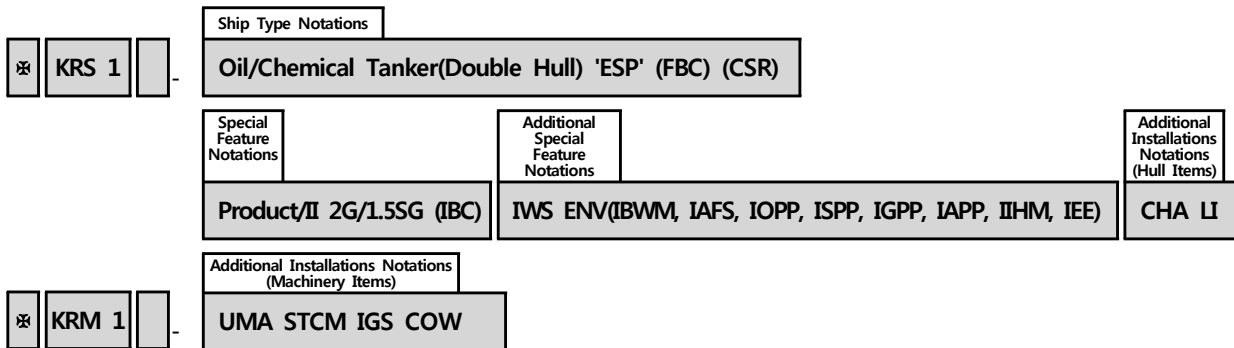
EXAMPLES

-
- ✧ KRS 1 - NLS Tanker
Category Z(18)
 - ✧ KRM 1
-

Oil/Chemical Tanker

Ship Type Notations	Special Feature Notations				
	Oil Tanker	Chemical Tanker			
Oil/Chemical Tanker (Double Hull) 'ESP' (FAC) (FAO) (FBC) (CSR)	Type of Cargo	Type of Ship	Type of Tank	Design Aspect or Exclusive Cargo	IMO Code
	Crude Product Crude/Product Product/Asphalt Asphalt	I II III II&III	1G 2G 1P	Apparent Specific Gravity (SG) Name of Chemical when exclusively carried	(IBC) (BCH) (BCX)

< Typical Example >



Oil/Chemical Tanker

NOTATIONS (Ship Type Notations)

Oil/Chemical Tanker
 Oil/Chemical Tanker(Double Hull)
 Oil/Chemical Tanker 'ESP'
 Oil/Chemical Tanker(Double Hull) 'ESP'

DESCRIPTIONS

Oil/Chemical Tanker : to be assigned to ships which are constructed primarily for the carriage of oil or chemicals(liquid cargoes specified in(Pt 7, Ch 6, Sec 17 of the Rules) in bulk.

(Double Hull) : to be assigned to ships which have the cargo tanks for the carriage of oil in bulk protected by a double hull which extends for the entire length of the cargo area, consisting of double sides and double bottom spaces for the carriage of water ballast or void spaces.

'ESP' : to be assigned to ships which are constructed generally with integral tanks and intended primarily to carry oil or chemicals(liquid cargoes specified in Pt 7, Ch 6, Sec 17 of the Rules) in bulk. This type notation shall be assigned to ships of both single or double hull construction, as well as ships with alternative structural arrangements.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Oil/Chemical Tanker	Pt 7 Ch 1, Pt 7 Ch 6	Pt 1 Ch 2
Oil/Chemical Tanker(Double Hull)	Pt 7 Ch 10, Pt 7 Ch 6	Pt 1 Ch 2
Oil/Chemical Tanker 'ESP'	Pt 7 Ch 1, Pt 7 Ch 6	Pt 1 Ch 2, Pt 1 Ch 3 Sec 3 & 4
Oil/Chemical Tanker(Double Hull) 'ESP'	Pt 7 Ch 10, Pt 7 Ch 6	Pt 1 Ch 2, Pt 1 Ch 3 Sec 5 & 4

EXAMPLES

-
- ✧ KRS 1 - **Oil/Chemical Tanker 'ESP'** (FBC)
Product/III 2G/1.2SG (IBC) IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-
- ✧ KRS 1 - **Oil/Chemical Tanker(Double Hull) 'ESP'** (FBC) (CSR)
Product/II 2G/1.5SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-

Oil/Chemical Tanker

NOTATIONS (Ship Type Notations – Flash Point/Tank Vent)

(FAC)
(FAO)
(FBC)

DESCRIPTIONS

(FAC) : to be assigned to ships which are carrying cargoes of flash point above 60°C with controlled tank vents

(FAO) : to be assigned to ships which are carrying cargoes of flash point above 60°C with open tank vents

(FBC) : to be assigned to ships which are carrying cargoes of flash point of 60°C and below with controlled tank vents

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(FAC)	Pt 7 Ch 1 Sec 10	-
(FAO)	Pt 7 Ch 1 Sec 10	-
(FBC)	Pt 7 Ch 1 Sec 10	-

EXAMPLES

 ✕ KRS 1 - Oil/Chemical Tanker 'ESP' **(FBC)**
 Product/III 2G/1.2SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 ✕ KRM 1 - UMA STCM IGS COW

✕ KRS 1 - Oil/Chemical Tanker(Double Hull) 'ESP' **(FBC)** (CSR)
 Product/II 2G/1.5SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 ✕ KRM 1 - UMA STCM IGS COW

Oil/Chemical Tanker

NOTATIONS (Ship Type Notations – Common Structural Rules)

(CSR)

DESCRIPTIONS

(CSR) : to be assigned to ships comply with the requirements of IACS's Common Structural Rules for Double Hull Oil Tankers(Pt 12).

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(CSR)	Pt 12	Pt 1 Ch 2, Pt 1 Ch 3, Pt 12

EXAMPLES

-
- ※ KRS 1 - Oil/Chemical Tanker(Double Hull) 'ESP' (FBC) **(CSR)**
Product/II 2G/1.5SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ※ KRM 1 - UMA STCM IGS COW
-

Oil/Chemical Tanker

NOTATIONS (Special Feature Notations – Type of Ship)

I
II
III
II & III

DESCRIPTIONS

This notations will be assigned according to the ship's type which are to be determined by Pt 7, Ch 6, Sec 2, 205. (damage assumption), 206. (location of cargo tanks), 208. (standard of damage) and 209. (survival requirements) as followings.

I : to be assigned to ships intended to transport products with very severe environmental and safety hazards which require maximum preventive measures to preclude an escape of such cargo. (Refer to Pt 7 Ch 6 Sec 17 Summary of Minimum Requirements, column E)

II : to be assigned to ships intended to transport products with appreciably severe environmental and safety hazards which require significant preventive measures to preclude an escape of such cargo. (Refer to Pt 7 Ch 6 Sec 17 Summary of Minimum Requirements, column E)

III : to be assigned to ships intended to transport products with sufficiently severe environmental and safety hazards which require a moderate degree of containment to increase survival capability in a damaged condition. (Refer to Pt 7 Ch 6 Sec 17 Summary of Minimum Requirements, column E)

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
I	Pt 7 Ch 6 Sec 2	-
II	Pt 7 Ch 6 Sec 2	-
III	Pt 7 Ch 6 Sec 2	-
II & III	Pt 7 Ch 6 Sec 2	-

EXAMPLES

-
- ✧ KRS 1 - Oil/Chemical Tanker 'ESP' (FBC)
Product/III 2G/1.2SG (IBC) IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-
- ✧ KRS 1 - Oil/Chemical Tanker(Double Hull) 'ESP' (FBC) (CSR)
Product/II 2G/1.5SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-

Oil/Chemical Tanker

NOTATIONS (Special Feature Notations – Type of Tank)

1G
2G
1P

DESCRIPTIONS

1 : Independent Tank

- to be assigned to ships having independent gravity tanks or pressure vessels as a cargo containment envelope which is not contiguous with or part of the hull structure.
(Tanks designed using the requirements of Pt 3, Ch 15 and Pt 5, Ch 5 of the Rules)

2 : Integral Tank

- to be assigned to ships having self-supporting hull construction tanks.
($P_o \leq 0.25 \text{ bar}$ (Max. 0.7 bar), $T_o \geq -10 \text{ }^\circ\text{C}$)

G : Gravity Tank

- to be assigned to ships having independent or integral tanks.
($P_o \leq 0.7 \text{ bar}$)

P : Pressure Tank

- to be assigned to ships having independent pressure tanks.
(Tanks designed using the requirements of Pt 5, Ch 5 of the Rules, $P_o > 0.7 \text{ bar}$)

(Remarks) P_o : Design Pressure, T_o : Boiling Point of the Cargo

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
1G	Pt 7 Ch 6 Sec 4	-
2G	Pt 7 Ch 6 Sec 4	-
1P	Pt 7 Ch 6 Sec 4	-

EXAMPLES

-
- ✧ KRS 1 - Oil/Chemical Tanker 'ESP' (FBC)
Product/III **2G**/1.2SG (IBC) IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-
- ✧ KRS 1 - Oil/Chemical Tanker(Double Hull) 'ESP' (FBC) (CSR)
Product/II **2G**/1.5SG (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-

Oil/Chemical Tanker

NOTATIONS (Special Feature Notations - Apparent Specific Gravity(SG) or Name of Chemical when exclusively carried)

Apparent Specific Gravity(SG) or
Name of Chemical when exclusively carried

DESCRIPTIONS

Apparent Specific Gravity(SG) or Name of Chemical when exclusively carried : Apparent specific gravity(SG) or name of Chemical when exclusively carried shall be assigned.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Apparent Specific Gravity(SG)	Pt 7 Ch 6	-
Name of Chemical when exclusively carried	Pt 7 Ch 6	-

EXAMPLES

-
- ✧ KRS 1 - Oil/Chemical Tanker 'ESP' (FBC)
Product/III 2G/**1.2SG** (IBC) IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-
- ✧ KRS 1 - Oil/Chemical Tanker(Double Hull) 'ESP' (FBC) (CSR)
Product/II 2G/**1.5SG** (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-

Oil/Chemical Tanker

NOTATIONS (Special Feature Notations – IMO Code)

(IBC)
(BCH)
(BCX)

DESCRIPTIONS

(IBC) : to be assigned to ships built in compliance with the requirements given in Pt 7, Ch 6 of the Rules and constructed on or after 1 July 1986.

(BCH) : to be assigned to ships built in compliance with the requirements given in Pt 7, Ch 6 of the Rules and constructed before 30 June 1986 and on or after 12 April 1972.

(BCX) : to be assigned to ships built in compliance with Par 1.7.3 of BCH Code and constructed before 11 April 1972.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(IBC)	Pt 7 Ch 6	-
(BCH)	Pt 7 Ch 6	-
(BCX)	BCH Code 1.7.3	-

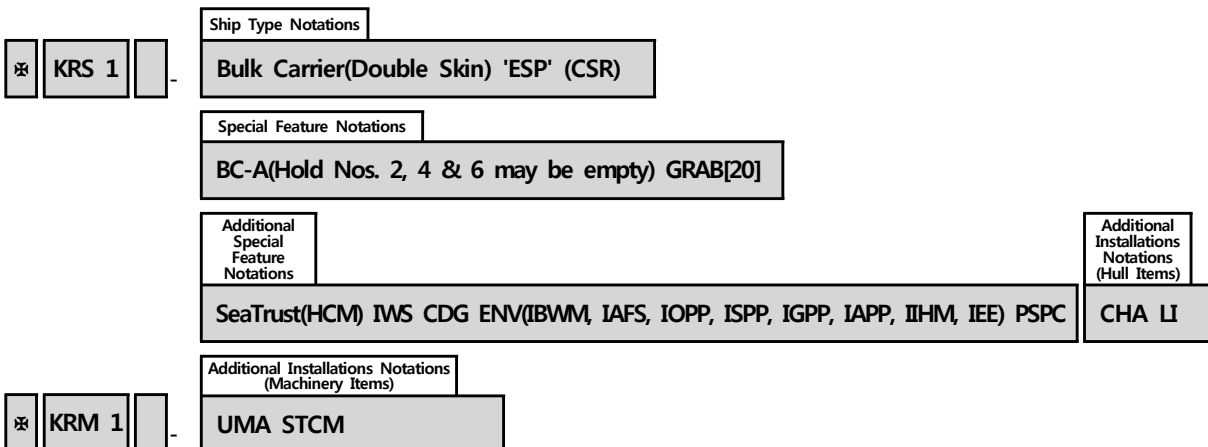
EXAMPLES

-
- ✧ KRS 1 - Oil/Chemical Tanker 'ESP' (FBC)
Product/III 2G/1.2SG **(IBC)** IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-
- ✧ KRS 1 - Oil/Chemical Tanker(Double Hull) 'ESP' (FBC) (CSR)
Product/II 2G/1.5SG **(IBC)** IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-

Bulk Carrier

Ship Type Notations	Special Feature Notations	
Bulk Carrier (Double Skin) 'ESP' 'ESP'(EXP) (CSR)	- HC HC/E BC-A BC-B BC-C (no MP) (max cargo density --- t/m ³) (Hold Nos. --- may be empty)	GRAB[X]

< Typical Example >



Bulk Carrier

NOTATIONS (Ship Type Notations)

Bulk Carrier
Bulk Carrier(Double Skin)
Bulk Carrier 'ESP'
Bulk Carrier(Double Skin) 'ESP'
Bulk Carrier 'ESP'(EXP)
Bulk Carrier(Double Skin) 'ESP'(EXP)

DESCRIPTIONS

Bulk Carrier : Where ships constructed before 1 July 2010 with other structural configurations than stated for Bulk Carrier 'ESP' below comply with the applicable requirements specified in Pt 7, Ch 3 of the Rules, the notation Bulk Carrier upon the request of the Owners, may be assigned to the concerned ships to the satisfaction of the Society. In such cases, the additional requirements for Bulk Carrier 'ESP' and Bulk Carrier(Double Skin) 'ESP' specified in Pt 1 of the Rules shall not be applied.

Bulk Carrier 'ESP' : to be assigned to ships which are constructed generally with single deck, double bottom, hopper side tanks and topside tanks and with single or double side skin construction in cargo length area and intended primarily to carry dry cargoes in bulk.

'ESP'(EXP) : to be assigned to ships which are constructed generally with single deck, double bottom, hopper side tanks and topside tanks and with single or double side skin construction in cargo length area and intended primarily to carry dry cargoes in bulk. For ships constructed on or after 1 July 2010, however, the notation 'ESP' shall be assigned even if they lack some or all of the specified constructional feature above and (EXP) notation shall be followed.

(Double Skin) : to be assigned in the following cases. (Note: The relevant requirements specified in Pt 1, Ch 3, Sec 6 Double Skin Bulk Carriers are to be applied if applicable even if the ship has no (Double Skin) notation.

- (1) the ships, constructed before 1 July 1999, have double side skin construction
- (2) the ships, constructed before 1 January 2000, have double side skin construction of not less than 760 mm breadth at any location within the hold length, measured perpendicular to the side shell
- (3) the ships, constructed on or after 1 January 2000, have double side skin construction of not less than 1000mm breadth at any location within the hold length, measured perpendicular to the side shell

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Bulk Carrier	Pt 7 Ch 3	Pt 1 Ch 2
Bulk Carrier(Double Skin)	Pt 7 Ch 3	Pt 1 Ch 2
Bulk Carrier 'ESP'	Pt 7 Ch 3	Pt 1 Ch 2, Pt 1 Ch 3 Sec 2
Bulk Carrier(Double Skin) 'ESP'	Pt 7 Ch 3	Pt 1 Ch 2, Pt 1 Ch 3 Sec 6
Bulk Carrier 'ESP'(EXP)	Pt 7 Ch 3	Pt 1 Ch 2, Pt 1 Ch 3 Sec 2
Bulk Carrier(Double Skin) 'ESP'(EXP)	Pt 7 Ch 3	Pt 1 Ch 2, Pt 1 Ch 3 Sec 6

EXAMPLES

✧ KRS 1 - **Bulk Carrier**
HC

✧ KRM 1 - UMA STCM

✧ KRS 1 - **Bulk Carrier(Double Skin)**
HC/E(Hold Nos. 2 & 4 may be empty)

✧ KRM 1 - UMA STCM

✧ KRS 1 - **Bulk Carrier 'ESP'**
HC/E(Hold Nos. 2, 4 & 6 may be empty)

✧ KRM 1 - UMA STCM

✧ KRS 1 - **Bulk Carrier(Double Skin) 'ESP'** (CSR)
BC-A(Hold Nos. 2, 4 & 6 may be empty) GRAB[20]

✧ KRM 1 - UMA STCM

✧ KRS 1 - **Bulk Carrier 'ESP'(EXP)**
HC/E(Hold Nos. 2, 4 & 6 may be empty)

✧ KRM 1 - UMA STCM

✧ KRS 1 - **Bulk Carrier(Double Skin) 'ESP'(EXP)**
HC/E(Hold Nos. 2, 4 & 6 may be empty)

✧ KRM 1 - UMA STCM

Bulk Carrier

NOTATIONS (Ship Type Notations – Common Structural Rules)

(CSR)

DESCRIPTIONS

(CSR) : to be assigned to ships comply with the requirements of IACS's Common Structural Rules for Bulk Carriers(Pt 11).

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(CSR)	Pt 11	Pt 1 Ch 2, Pt 1 Ch 3, Pt 11

EXAMPLES

-
- ⊗ KRS 1 - Bulk Carrier(Double Skin) 'ESP' **(CSR)**
BC-A(Hold Nos. 2, 4 & 6 may be empty) GRAB[20]
 - ⊗ KRM 1 - UMA STCM
-

Bulk Carrier

NOTATIONS (Special Feature Notations)

HC
 HC/E
 BC-A
 BC-B
 BC-C
 GRAB[X]
 (no MP)
 (max cargo density --- t/m³)
 (Hold Nos. --- may be empty)

DESCRIPTIONS

HC : to be assigned to ships with the double bottom structure specially strengthened for the carriage of heavy cargoes having mass density, γ , specified in Pt 3, Ch 7, 101. 6 of the Rules, not less than 1.25 t/m³.

HC/E : to be assigned to ships intended for the alternate loading, in addition to the requirements for HC above.

BC-A : to be assigned to Bulk Carriers designed to carry dry bulk cargoes of cargo density of 1.0 t/m³ and above with specified holds empty at maximum draught in addition to BC-B conditions as Pt 7, Ch 3, Sec 2 or Pt 11, Ch 1, Sec 1 of the Rules.

BC-B : to be assigned to Bulk Carriers designed to carry dry bulk cargoes of cargo density of 1.0 t/m³ and above with all cargo holds loaded in addition to BC-C conditions as Pt 7, Ch 3, Sec 2 or Pt 11, Ch 1, Sec 1 of the Rules.

BC-C : to be assigned to Bulk Carriers designed to carry dry bulk cargoes of cargo density of less than 1.0 t/m³ as Pt 7, Ch 3, Sec 2 or Pt 11, Ch 1, Sec 1 of the Rules.

GRAB[X] : to be assigned to ships with holds designed for loading/unloading by grabs having a maximum specific weight up to [X] tons in compliance with the requirements of Pt 11, Ch 12, Sec 1 of the Rules, the GRAB[X] notation is mandatory for ships having one of BC-A or BC-B, according to Pt 11, Ch 1, Sec 1 of the Rules and these ships are to be complied with for an unladen grab weight X equal to or greater than 20 tons. For all other ships GRAB[X] is voluntary.

(no MP) : to be assigned to ships have not been designed for loading and unloading in multiple ports in accordance with the conditions specified in Pt 7, Ch 3, 201. 5 or Pt 11, Ch 4, Sec 7, [3.3].

(max cargo density --- t/m³) : to be assigned for BC-A or BC-C ships if the maximum cargo density is less than 3.0 t/m³.

(Hold Nos. --- may be empty) : to be assigned for ships designed to carry cargoes with specified holds empty.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
HC	Pt 3 Ch 7 ¹⁾	-
HC/E	Pt 3 Ch 7 ¹⁾	-
BC-A	Pt 7 Ch 3, Pt 11 Ch 1	-
BC-B	Pt 7 Ch 3, Pt 11 Ch 1	-
BC-C	Pt 7 Ch 3, Pt 11 Ch 1	-
GRAB[X]	Pt 11 Ch 12 Sec 1	-
(no MP)	Pt 7 Ch 3, Pt 11 Ch 1	-
(max cargo density --- t/m³)	Pt 7 Ch 3, Pt 11 Ch 1	-
(Hold Nos. --- may be empty)	Pt 7 Ch 3, Pt 11 Ch 1	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

(1) For ships with double bottom structures specially strengthened for the carriage of heavy cargoes:

✧ KRS 1 - Bulk Carrier

HC

✧ KRM 1 - UMA STCM

(2) For ships with double bottom structures specially strengthened for the carriage of heavy cargoes as an alternate loading:

✧ KRS 1 - Bulk Carrier

HC/E(Hold Nos. 2 & 4 may be empty)

✧ KRM 1 - UMA STCM

(3) For BC-B ships:

✧ KRS 1 - Bulk Carrier 'ESP'

BC-B

✧ KRM 1 - UMA STCM

(4) For BC-B ships of which the maximum cargo density is less than 3.0t/m³ :

✧ KRS 1 - Bulk Carrier 'ESP'

BC-B(max cargo density --- t/m³)

✧ KRM 1 - UMA STCM

(5) For BC-A ships:

✧ KRS 1 - Bulk Carrier 'ESP'

BC-A(Hold Nos. 2, 4, 6 & 8 may be empty)

✧ KRM 1 - UMA STCM

(6) For BC-A ships of which the maximum cargo density is less than 3.0t/m³ :

✧ KRS 1 - Bulk Carrier 'ESP'

BC-A(Hold Nos. 2, 4, 6 & 8 may be empty, with max cargo density --- t/m³)

✧ KRM 1 - UMA STCM

(7) For ships which have not been designed for loading and unloading in multiple ports in accordance with the conditions specified in Pt 7, Ch 3, 201. 5 or Pt 11, Ch 4, Sec 7, [3.3].

✧ KRS 1 - Bulk Carrier 'ESP'

BC-A(or BC-B, BC-C) (no MP)

✧ KRM 1 - UMA STCM

(8) For ships with holds designed for loading/unloading by grabs having a maximum specific weight up to [20] tons in compliance with the requirements of Pt 11, Ch 12, Sec 1 of the Rules:

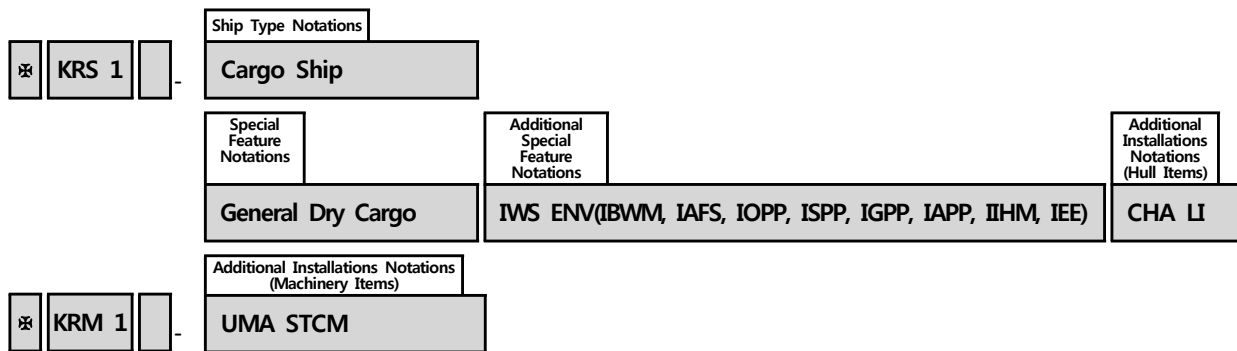
✧ KRS 1 - Bulk Carrier 'ESP' (CSR)
BC-A(or BC-B) **GRAB[20]**

✧ KRM 1 - UMA STCM

Cargo Ship

Ship Type Notations	Special Feature Notations	
Cargo Ship	- General Dry Cargo General Dry Cargo(Double Skin) Liquid Cargo(Category OS only)	HC

< Typical Example >



Cargo Ship

NOTATIONS (Ship Type Notations)

Cargo Ship

DESCRIPTIONS

Cargo Ship : to be assigned to general cargo ships carrying general cargoes, except ships which are distinguished by specific Ship Type Notations such as Oil Tanker, Chemical Tanker, Bulk Carrier, Ore Carrier, Container Ship, RoRo Ship, Passenger Ship, Refrigerated Cargo Carrier, etc.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Cargo Ship	Pt 3 ¹⁾	Pt 1 Ch 2
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

 ✕ KRS 1 - **Cargo Ship**

General Dry Cargo HC IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✕ KRM 1 - UMA STCM

✕ KRS 1 - **Cargo Ship**

General Dry Cargo(Double Skin) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✕ KRM 1 - UMA STCM

✕ KRS 1 - **Cargo Ship**

Liquid Cargo(Category OS only) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✕ KRM 1 - UMA STCM

✕ KRS 1 - **Cargo Ship**

HC IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✕ KRM 1 - UMA STCM

Cargo Ship

NOTATIONS (Special Feature Notations)

<p>General Dry Cargo General Dry Cargo(Double Skin) Liquid Cargo(Category OS only) HC</p>

DESCRIPTIONS

General Dry Cargo : to be assigned to all self-propelled general dry cargo ships of 500GT and above carrying solid cargoes and the additional requirements for General Dry Cargo Ship specified in Pt 1, Ch 2, Sec 14 of the Rules are to be applied. However the following ships are to be omitted.

- bulk carriers and double skin bulk carriers subject to the enhanced survey programme(ESP)
- dedicated container carriers
- ro-ro cargo ships
- refrigerated cargo ships
- dedicated wood chip carriers
- dedicated cement carriers
- livestock carriers
- deck cargo ships(A ships that is designed to carry cargo exclusively above deck without any access for cargo below deck)
- general dry cargo ships of double side-skin construction, with double side-skin extending for the entire length of the cargo area, and for the entire height of the cargo hold to the upper deck

General Dry Cargo(Double Skin) : to be assigned to general dry cargo ships of double side-skin construction, with double side-skin extending for the entire length of the cargo area, and for the entire height of the cargo hold to the upper deck.

Liquid Cargo(Category OS only) : to be assigned to ships carrying only liquid cargoes in bulk classified as pollution category OS, which are not subject to IBC Code, specified in Pt 7, Ch 6, Sec 18 of the Rules.

HC : to be assigned to ships with the double bottom structure specially strengthened for the carriage of heavy cargoes having mass density, γ , specified in Pt 3, Ch 7, 101. 6 of the Rules, not less than 1.25 t/m³.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
General Dry Cargo	Pt 3 ¹⁾	Pt 1 Ch 2 Sec 14
General Dry Cargo(Double Skin)	Pt 3 ¹⁾	Pt 1 Ch 2
Liquid Cargo(Category OS only)	Pt 3 ¹⁾	Pt 1 Ch 2
HC	Pt 3 Ch 7 ¹⁾	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

 ✕ KRS 1 - Cargo Ship

General Dry Cargo HC IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) CHA LI

✕ KRM 1 - UMA STCM

✕ KRS 1 - Cargo Ship

General Dry Cargo(Double Skin) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI

✕ KRM 1 - UMA STCM

✕ KRS 1 - Cargo Ship

Liquid Cargo(Category OS only) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI

✕ KRM 1 - UMA STCM

✕ KRS 1 - Cargo Ship

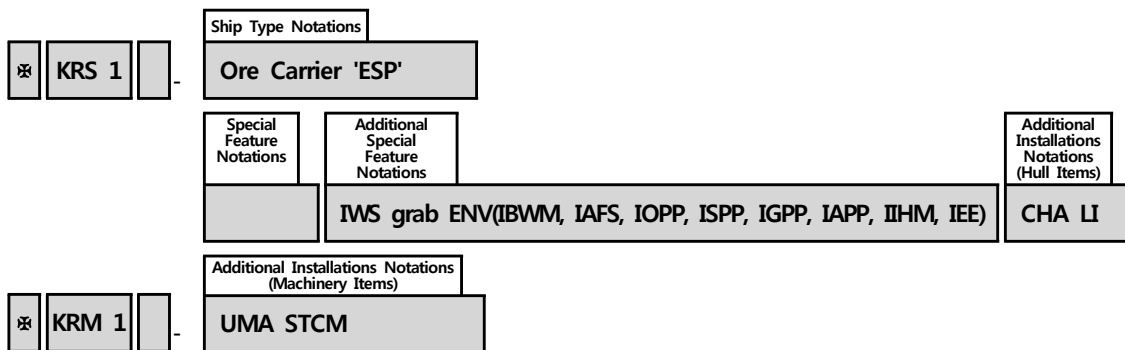
HC IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) CHA LI

✕ KRM 1 - UMA STCM

Ore Carrier

Ship Type Notations	Special Feature Notations
Ore Carrier 'ESP'	

< Typical Example >



Ore Carrier

NOTATIONS (Ship Type Notations)

Ore Carrier
Ore Carrier 'ESP'

DESCRIPTIONS

Ore Carrier : to be assigned to ships intended primarily to carry ore cargoes in bulk.

'ESP' : to be assigned to ships which are constructed generally with single deck, two longitudinal bulkheads and a double bottom throughout the cargo length area and intended primarily to carry ore cargoes in the centre holds only.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Ore Carrier	Pt 7 Ch 2	Pt 1 Ch 2
Ore Carrier 'ESP'	Pt 7 Ch 2	Pt 1 Ch 2, Pt 1 Ch 3 Sec 6

EXAMPLES

✧ KRS 1 - **Ore Carrier 'ESP'**

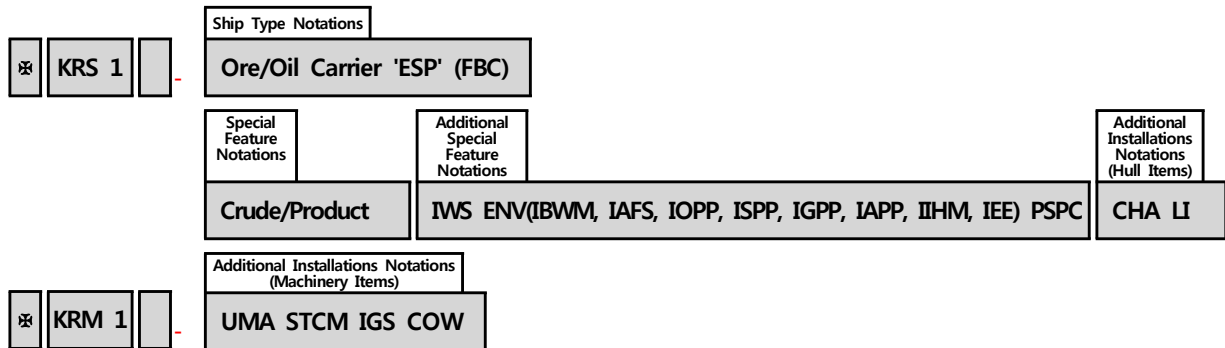
IWS grab ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IHHM, IEE) CHA LI

✧ KRM 1 - UMA STCM

Ore/Oil Carrier

Ship Type Notations	Special Feature Notations	
	Ore Carrier	Oil Tanker
Ore/Oil Carrier 'ESP' (FAC) (FAO) (FBC)		Crude Product Crude/Product Product/Asphalt Asphalt

< Typical Example >



Ore/Oil Carrier

NOTATIONS (Ship Type Notations)

Ore/Oil Carrier
Ore/Oil Carrier 'ESP'

DESCRIPTIONS

Ore/Oil Carrier : to be assigned to ships which are constructed primarily for the carriage of ore or oil in bulk.

'ESP' : to be assigned to ships which are constructed generally with single deck, two longitudinal bulkheads and a double bottom throughout the cargo length area and intended primarily to carry ore cargoes in the centre holds or of oil cargoes in center holds and wing tanks. However, these cargoes are not carried simultaneously.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Ore/Oil Carrier	Pt 7 Ch 2, Pt 7 Ch 1	Pt 1 Ch 2
Ore/Oil Carrier 'ESP'	Pt 7 Ch 2, Pt 7 Ch 10	Pt 1 Ch 2, Pt 1 Ch 3

EXAMPLES

- ⌘ KRS 1 - **Ore/Oil Carrier 'ESP'** (FBC)
Product ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA LI
- ⌘ KRM 1 - UMA STCM IGS COW

Ore/Oil Carrier

NOTATIONS (Ship Type Notations – Flash Point/Tank Vent)

(FAC)

(FAO)

(FBC)

DESCRIPTIONS

(FAC) : to be assigned to ships which are carrying cargoes of flash point above 60°C with controlled tank vents

(FAO) : to be assigned to ships which are carrying cargoes of flash point above 60°C with open tank vents

(FBC) : to be assigned to ships which are carrying cargoes of flash point of 60°C and below with controlled tank vents

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(FAC)	Pt 7 Ch 1 Sec 10	-
(FAO)	Pt 7 Ch 1 Sec 10	-
(FBC)	Pt 7 Ch 1 Sec 10	-

EXAMPLES

-
- ※ KRS 1 - Ore/Oil Carrier 'ESP' **(FBC)**
Product ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA LI
 - ※ KRM 1 - UMA STCM IGS COW
-

Ore/Oil Carrier

NOTATIONS (Special Feature Notations)

Crude
Product
Crude/Product
Product/Asphalt
Asphalt

DESCRIPTIONS

Crude : to be assigned to ships carrying crude oil in bulk primarily.

Product : to be assigned to ships carrying product oil in bulk primarily.

Crude/Product : to be assigned to ships carrying crude oil and product oil in bulk primarily.

Product/Asphalt : to be assigned to ships carrying product oil and asphalt in bulk primarily.

Asphalt : to be assigned to ships carrying asphalt in bulk primarily. For asphalt carriers of which all cargo tanks are independent type, the 'ESP' notation is not to be assigned and the additional requirements for Oil Tanker 'ESP' and Oil Tanker(Double Hull) 'ESP' specified in Pt 1(i.e. ESP requirements) are not to be applied.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Crude	Pt 7 Ch 1	-
Product	Pt 7 Ch 1	-
Crude/Product	Pt 7 Ch 1	-
Product/Asphalt	Pt 7 Ch 1	-
Asphalt	Pt 7 Ch 1	-

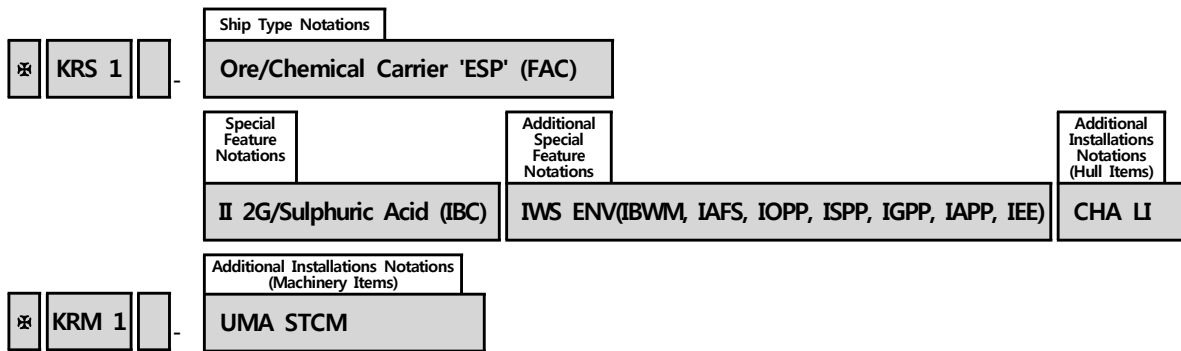
EXAMPLES

 ✖ KRS 1 - Ore/Oil Carrier 'ESP' (FBC)
 Product ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA LI
 ✖ KRM 1 - UMA STCM IGS COW

Ore/Chemical Carrier

Ship Type Notations	Special Feature Notations				
	Ore Carrier	Chemical Tanker			
Ore/Chemical Carrier 'ESP' (FAC) (FAO) (FBC)		Type of Ship	Type of Tank	Design Aspect or Exclusive Cargo	IMO Code
			I II III II&III	1G 2G 1P	Apparent Specific Gravity (SG) Name of Chemical when exclusively carried

< Typical Example >



Ore/Chemical Carrier

NOTATIONS (Ship Type Notations)

Ore/Chemical Carrier
Ore/Chemical Carrier 'ESP'

DESCRIPTIONS

Ore/Chemical Carrier : to be assigned to ships which are constructed primarily for the carriage of ore or chemicals(liquid cargoes specified in(Pt 7, Ch 6, Sec 17 of the Rules) in bulk.

'ESP' : to be assigned to ships which are constructed generally with single deck, two longitudinal bulkheads and a double bottom throughout the cargo length area and intended primarily to carry ore cargoes in the centre holds or of chemical cargoes(liquid cargoes specified in(Pt 7, Ch 6, Sec 17 of the Rules) in center holds and wing tanks. However, these cargoes are not carried simultaneously.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Ore/Chemical Carrier	Pt 7 Ch 2, Pt 7 Ch 6	Pt 1 Ch 2
Ore/Chemical Carrier 'ESP'	Pt 7 Ch 2, Pt 7 Ch 6	Pt 1 Ch 2, Pt 1 Ch 3 Sec 6 & 4

EXAMPLES

- ⌘ KRS 1 - **Ore/Chemical Carrier 'ESP'** (FAC)
II 2G/Sulphuric Acid (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIMM, IEE) PSPC CHA LI
- ⌘ KRM 1 - UMA STCM

Ore/Chemical Carrier

NOTATIONS (Ship Type Notations – Flash Point/Tank Vent)

(FAC)

(FAO)

(FBC)

DESCRIPTIONS

(FAC) : to be assigned to ships which are carrying cargoes of flash point above 60°C with controlled tank vents

(FAO) : to be assigned to ships which are carrying cargoes of flash point above 60°C with open tank vents

(FBC) : to be assigned to ships which are carrying cargoes of flash point of 60°C and below with controlled tank vents

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(FAC)	Pt 7 Ch 1 Sec 10	-
(FAO)	Pt 7 Ch 1 Sec 10	-
(FBC)	Pt 7 Ch 1 Sec 10	-

EXAMPLES

 ✕ KRS 1 - Ore/Chemical Carrier 'ESP' **(FAC)**

II 2G/Sulphuric Acid (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) PSPC CHA LI

✕ KRM 1 - UMA STCM

Ore/Chemical Carrier

NOTATIONS (Special Feature Notations – Type of Ship)

I
II
III
II & III

DESCRIPTIONS

This notations will be assigned according to the ship's type which are to be determined by Pt 7, Ch 6, Sec 2, 205. (damage assumption), 206. (location of cargo tanks), 208. (standard of damage) and 209. (survival requirements) as followings.

I : to be assigned to ships intended to transport products with very severe environmental and safety hazards which require maximum preventive measures to preclude an escape of such cargo. (Refer to Pt 7 Ch 6 Sec 17 Summary of Minimum Requirements, column E)

II : to be assigned to ships intended to transport products with appreciably severe environmental and safety hazards which require significant preventive measures to preclude an escape of such cargo. (Refer to Pt 7 Ch 6 Sec 17 Summary of Minimum Requirements, column E)

III : to be assigned to ships intended to transport products with sufficiently severe environmental and safety hazards which require a moderate degree of containment to increase survival capability in a damaged condition. (Refer to Pt 7 Ch 6 Sec 17 Summary of Minimum Requirements, column E)

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
I	Pt 7 Ch 6 Sec 2	-
II	Pt 7 Ch 6 Sec 2	-
III	Pt 7 Ch 6 Sec 2	-
II & III	Pt 7 Ch 6 Sec 2	-

EXAMPLES

✧ KRS 1 - Ore/Chemical Carrier 'ESP' (FAC)

II 2G/Sulphuric Acid (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IHM, IEE) PSC CHA LI

✧ KRM 1 - UMA STCM

Ore/Chemical Carrier

NOTATIONS (Special Feature Notations – Type of Tank)

1G
2G
1P

DESCRIPTIONS

- 1** : Independent Tank
- to be assigned to ships having independent gravity tanks or pressure vessels as a cargo containment envelope which is not contiguous with or part of the hull structure.
(Tanks designed using the requirements of Pt 3, Ch 15 and Pt 5, Ch 5 of the Rules)
- 2** : Integral Tank
- to be assigned to ships having self-supporting hull construction tanks.
($P_o \leq 0.25 \text{ bar}$ (Max. 0.7 bar), $T_o \geq -10 \text{ }^\circ\text{C}$)
- G** : Gravity Tank
- to be assigned to ships having independent or integral tanks.
($P_o \leq 0.7 \text{ bar}$)
- P** : Pressure Tank
- to be assigned to ships having independent pressure tanks.
(Tanks designed using the requirements of Pt 5, Ch 5 of the Rules, $P_o > 0.7 \text{ bar}$)

(Remarks) P_o : Design Pressure, T_o : Boiling Point of the Cargo

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
1G	Pt 7 Ch 6 Sec 4	-
2G	Pt 7 Ch 6 Sec 4	-
1P	Pt 7 Ch 6 Sec 4	-

EXAMPLES

-
- ✧ KRS 1 - Ore/Chemical Carrier 'ESP' (FAC)
II **2G**/Sulphuric Acid (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) PSPC CHA LI
- ✧ KRM 1 - UMA STCM
-

Ore/Chemical Carrier

NOTATIONS (Special Feature Notations - Apparent Specific Gravity(SG) or Name of Chemical when exclusively carried)

Apparent Specific Gravity(SG) or
Name of Chemical when exclusively carried

DESCRIPTIONS

Apparent Specific Gravity(SG) or Name of Chemical when exclusively carried : Apparent specific gravity(SG) or name of Chemical when exclusively carried shall be assigned.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Apparent Specific Gravity(SG)	Pt 7 Ch 6	-
Name of Chemical when exclusively carried	Pt 7 Ch 6	-

EXAMPLES

-
- ✧ KRS 1 - Ore/Chemical Carrier 'ESP' (FAC)
II 2G/**Sulphuric Acid** (IBC) IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) PSPC CHA LI
 - ✧ KRM 1 - UMA STCM
-

Ore/Chemical Carrier

NOTATIONS (Special Feature Notations – IMO Code)

(IBC)
(BCH)
(BCX)

DESCRIPTIONS

(IBC) : to be assigned to ships built in compliance with the requirements given in Pt 7, Ch 6 of the Rules and constructed on or after 1 July 1986.

(BCH) : to be assigned to ships built in compliance with the requirements given in Pt 7, Ch 6 of the Rules and constructed before 30 June 1986 and on or after 12 April 1972.

(BCX) : to be assigned to ships built in compliance with Par 1.7.3 of BCH Code and constructed before 11 April 1972.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(IBC)	Pt 7 Ch 6	-
(BCH)	Pt 7 Ch 6	-
(BCX)	BCH Code 1.7.3	-

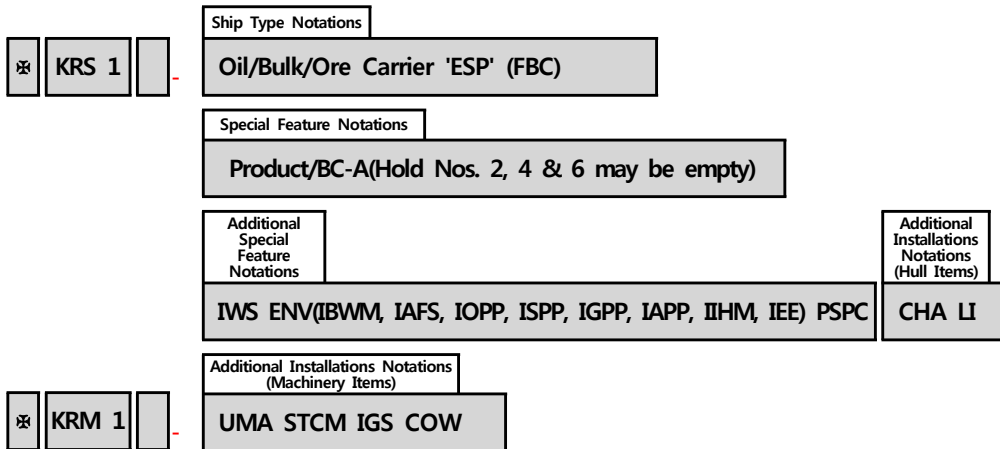
EXAMPLES

-
- ✧ KRS 1 - Ore/Chemical Carrier 'ESP' (FAC)
II 2G/Sulphuric Acid **(IBC)** IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) PSPC CHA LI
 - ✧ KRM 1 - UMA STCM
-

Oil/Bulk/Ore Carrier

Ship Type Notations	Special Feature Notations		
	Oil Tanker	Bulk Carrier	Ore Carrier
Oil/Bulk/Ore Carrier 'ESP' 'ESP'(EXP) (FAC) (FAO) (FBC)	Crude Product Crude/Product Product/Asphalt Asphalt	- HC HC/E BC-A BC-B BC-C (no MP) (max cargo density --- t/m ³) (Hold Nos. --- may be empty)	

< Typical Example >



Oil/Bulk/Ore Carrier

NOTATIONS (Ship Type Notations)

Oil/Bulk/Ore Carrier
 Oil/Bulk/Ore Carrier 'ESP'
 Oil/Bulk/Ore Carrier 'ESP'(EXP)

DESCRIPTIONS

Oil/Bulk/Ore Carrier : to be assigned to ships which are constructed primarily for the carriage of oil, bulk or ore in bulk.

'ESP' : to be assigned to ships which are constructed generally with single deck, double bottom, hopper side tanks and topside tanks and with single or double side skin construction in the cargo length area and intended primarily to carry oil or dry cargoes including ore, in bulk. However, these cargoes are not carried simultaneously.

'ESP'(EXP) : to be assigned to ships which are constructed generally with single deck, double bottom, hopper side tanks and topside tanks and with single or double side skin construction in the cargo length area and intended primarily to carry oil or dry cargoes including ore, in bulk. However, these cargoes are not carried simultaneously. For ships constructed on or after 1 July 2010, the notation 'ESP' shall be assigned even if they lack some or all of the specified constructional feature above and (EXP) notation shall be followed.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Oil/Bulk/Ore Carrier	Pt 7 Ch 1, 2 & 3	Pt 1 Ch 2
Oil/Bulk/Ore Carrier 'ESP'	Pt 7 Ch 1, 2 & 3	Pt 1 Ch 2, Pt 1 Ch 3
Oil/Bulk/Ore Carrier 'ESP'(EXP)	Pt 7 Ch 1, 2 & 3	Pt 1 Ch 2, Pt 1 Ch 3

EXAMPLES

-
- ✧ KRS 1 - **Oil/Bulk/Ore Carrier 'ESP' (FBC)**
 Product/BC-A(Hold Nos. 2, 4 & 6 may be empty)
 IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) PSPC CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-

Oil/Bulk/Ore Carrier

NOTATIONS (Ship Type Notations – Flash Point/Tank Vent)

(FAC)

(FAO)

(FBC)

DESCRIPTIONS

(FAC) : to be assigned to ships which are carrying cargoes of flash point above 60°C with controlled tank vents

(FAO) : to be assigned to ships which are carrying cargoes of flash point above 60°C with open tank vents

(FBC) : to be assigned to ships which are carrying cargoes of flash point of 60°C and below with controlled tank vents

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(FAC)	Pt 7 Ch 1 Sec 10	-
(FAO)	Pt 7 Ch 1 Sec 10	-
(FBC)	Pt 7 Ch 1 Sec 10	-

EXAMPLES

-
- ✧ KRS 1 - Oil/Bulk/Ore Carrier 'ESP' **(FBC)**
 Product/BC-A(Hold Nos. 2, 4 & 6 may be empty)
 IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IHM, IEE) PSPC CHA LI
 - ✧ KRM 1 - UMA STCM IGS COW
-

Oil/Bulk/Ore Carrier

NOTATIONS (Special Feature Notations)

Crude
Product
Crude/Product
Product/Asphalt
Asphalt

DESCRIPTIONS

Crude : to be assigned to ships carrying crude oil in bulk primarily.

Product : to be assigned to ships carrying product oil in bulk primarily.

Crude/Product : to be assigned to ships carrying crude oil and product oil in bulk primarily.

Product/Asphalt : to be assigned to ships carrying product oil and asphalt in bulk primarily.

Asphalt : to be assigned to ships carrying asphalt in bulk primarily. For asphalt carriers of which all cargo tanks are independent type, the 'ESP' notation is not to be assigned and the additional requirements for Oil Tanker 'ESP' and Oil Tanker(Double Hull) 'ESP' specified in Pt 1(i.e. ESP requirements) are not to be applied.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Crude	Pt 7 Ch 1	-
Product	Pt 7 Ch 1	-
Crude/Product	Pt 7 Ch 1	-
Product/Asphalt	Pt 7 Ch 1	-
Asphalt	Pt 7 Ch 1	-

EXAMPLES

 ✕ KRS 1 - Oil/Bulk/Ore Carrier 'ESP' (FBC)

Product/BC-A(Hold Nos. 2, 4 & 6 may be empty)

IWS ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) PSPC CHA LI

✕ KRM 1 - UMA STCM IGS COW

Oil/Bulk/Ore Carrier

NOTATIONS (Special Feature Notations)

HC
 HC/E
 BC-A
 BC-B
 BC-C
 (no MP)
 (max cargo density --- t/m³)
 (Hold Nos. --- may be empty)

DESCRIPTIONS

HC : to be assigned to ships with the double bottom structure specially strengthened for the carriage of heavy cargoes having mass density, γ , specified in Pt 3, Ch 7, 101. 6 of the Rules, not less than 1.25 t/m³.

HC/E : to be assigned to ships intended for the alternate loading, in addition to the requirements for HC above.

BC-A : to be assigned to Bulk Carriers designed to carry dry bulk cargoes of cargo density of 1.0 t/m³ and above with specified holds empty at maximum draught in addition to BC-B conditions as Pt 7, Ch 3, Sec 2 of the Rules.

BC-B : to be assigned to Bulk Carriers designed to carry dry bulk cargoes of cargo density of 1.0 t/m³ and above with all cargo holds loaded in addition to BC-C conditions as Pt 7, Ch 3, Sec 2 of the Rules.

BC-C : to be assigned to Bulk Carriers designed to carry dry bulk cargoes of cargo density of less than 1.0 t/m³ as Pt 7, Ch 3, Sec 2 of the Rules.

(no MP) : to be assigned to ships have not been designed for loading and unloading in multiple ports in accordance with the conditions specified in Pt 7, Ch 3, 201. 5.

(max cargo density --- t/m³) : to be assigned for BC-A or BC-C ships if the maximum cargo density is less than 3.0 t/m³.

(Hold Nos. --- may be empty) : to be assigned for ships designed to carry cargoes with specified holds empty.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
HC	Pt 3 Ch 7 ¹⁾	-
HC/E	Pt 3 Ch 7 ¹⁾	-
BC-A	Pt 7 Ch 3, Pt 11 Ch 1	-
BC-B	Pt 7 Ch 3, Pt 11 Ch 1	-
BC-C	Pt 7 Ch 3, Pt 11 Ch 1	-
(no MP)	Pt 7 Ch 3, Pt 11 Ch 1	-
(max cargo density --- t/m³)	Pt 7 Ch 3, Pt 11 Ch 1	-
(Hold Nos. --- may be empty)	Pt 7 Ch 3, Pt 11 Ch 1	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

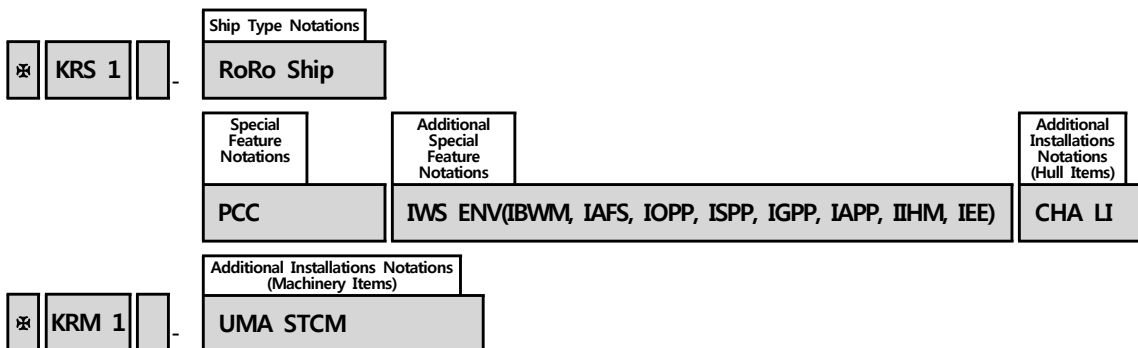
EXAMPLES

-
- (1) For ships with double bottom structures specially strengthened for the carriage of heavy cargoes:
 ✕ KRS 1 - Oil/Bulk/Ore Carrier 'ESP'
 Product/**HC**
 ✕ KRM 1 - UMA STCM
-
- (2) For ships with double bottom structures specially strengthened for the carriage of heavy cargoes as an alternate loading:
 ✕ KRS 1 - Oil/Bulk/Ore Carrier 'ESP'
 Product/**HC/E(Hold Nos. 2 & 4 may be empty)**
 ✕ KRM 1 - UMA STCM
-
- (3) For BC-B ships:
 ✕ KRS 1 - Oil/Bulk/Ore Carrier 'ESP'
 Product/**BC-B**
 ✕ KRM 1 - UMA STCM
-
- (4) For BC-B ships of which the maximum cargo density is less than 3.0t/m³ :
 ✕ KRS 1 - Oil/Bulk/Ore Carrier 'ESP'
 Product/**BC-B(max cargo density --- t/m³)**
 ✕ KRM 1 - UMA STCM
-
- (5) For BC-A ships:
 ✕ KRS 1 - Oil/Bulk/Ore Carrier 'ESP'
 Product/**BC-A(Hold Nos. 2, 4, 6 & 8 may be empty)**
 ✕ KRM 1 - UMA STCM
-
- (6) For BC-A ships of which the maximum cargo density is less than 3.0t/m³ :
 ✕ KRS 1 - Oil/Bulk/Ore Carrier 'ESP'
 Product/**BC-A(Hold Nos. 2, 4 & 6 may be empty, with max cargo density --- t/m³)**
 ✕ KRM 1 - UMA STCM
-
- (7) For ships which have not been designed for loading and unloading in multiple ports in accordance with the conditions specified in Pt 7, Ch 3, 201. 5.
 ✕ KRS 1 - Oil/Bulk/Ore Carrier 'ESP'
 Product/BC-A(또는 BC-B, BC-C) **(no MP)**
 ✕ KRM 1 - UMA STCM
-

RoRo Ship

Ship Type Notations	Special Feature Notations
RoRo Ship	PCC Car/Cargo Car/Container Car/Bulk Palette Cassette Car Ferry

< Typical Example >



RoRo Ship

NOTATIONS (Ship Type Notations)

RoRo Ship

DESCRIPTIONS

RoRo Ship : to be assigned to ships which are specially designed and constructed for the carriage of vehicles, and cargo in pallet form or in container, and loaded and unloaded by wheeled vehicles.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
RoRo Ship	Pt 7 Ch 7	Pt 1 Ch 2

EXAMPLES

 ✕ KRS 1 - **RoRo Ship**

PCC IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✕ KRM 1 - UMA STCM

 ✕ KRS 1 - **RoRo Ship**

Car/Cargo IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✕ KRM 1 - UMA STCM

 ✕ KRS 1 - **RoRo Ship**

Car/Container IWS CDG ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✕ KRM 1 - UMA STCM

 ✕ KRS 1 - **RoRo Ship**

Cassette IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✕ KRM 1 - UMA STCM

 ✕ KRS 1 - **RoRo Ship**

Car Ferry IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✕ KRM 1 - UMA STCM

RoRo Ship

NOTATIONS (Special Feature Notations)

PCC
Car/Cargo
Car/Container
Car/Bulk
Pallette
Cassette
Car Ferry
Car Ferry(open space)

DESCRIPTIONS

PCC : to be assigned to roro ships carrying vehicles.

Car/Cargo : to be assigned to roro ships carrying vehicles and general cargoes.

Car/Container : to be assigned to roro ships carrying vehicles and containers.

Car/Bulk : to be assigned to roro ships carrying vehicles and bulk cargoes.

Pallette : to be assigned to roro ships carrying cargoes with pallet.

Cassette : to be assigned to roro ships carrying cargoes with cassette.

Car Ferry : to be assigned to roro ships designed for the carriage of vehicles with loaded cargoes.

Car Ferry(open space) : to be assigned to roro ships having vehicle region with opening capable of being ventilated naturally throughout the exposed decks and side shell plates.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
PCC	Pt 7 Ch 7	-
Car/Cargo	Pt 7 Ch 7	-
Car/Container	Pt 7 Ch 7	-
Car/Bulk	Pt 7 Ch 7	-
Pallette	Pt 7 Ch 7	-
Cassette	Pt 7 Ch 7	-
Car Ferry	Pt 7 Ch 7	-
Car Ferry(open space)	Pt 7 Ch 7	-

EXAMPLES

⊗ KRS 1 - RoRo Ship

PCC IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) CHA LI

⊗ KRM 1 - UMA STCM

⊗ KRS 1 - RoRo Ship

Car/Cargo IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) CHA LI

⊗ KRM 1 - UMA STCM

⊗ KRS 1 - RoRo Ship

Car/Container IWS CDG ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) CHA LI

⊗ KRM 1 - UMA STCM

⊗ KRS 1 - RoRo Ship

Cassette IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) CHA LI

⊗ KRM 1 - UMA STCM

⊗ KRS 1 - RoRo Ship

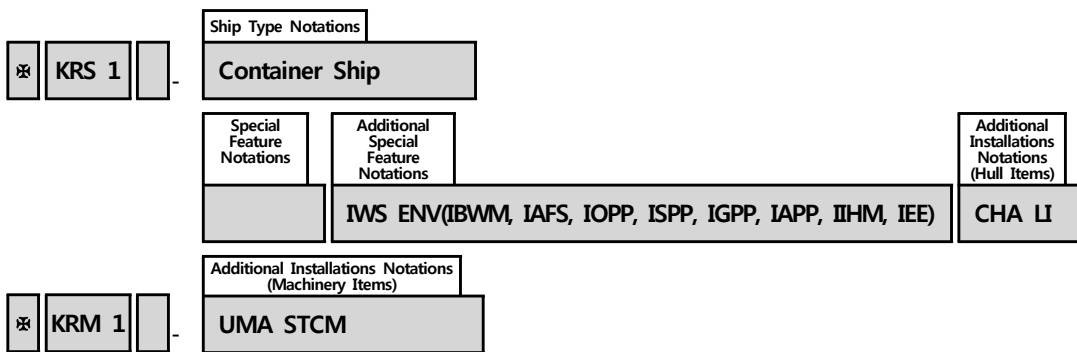
Car Ferry IWS ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIM, IEE) CHA LI

⊗ KRM 1 - UMA STCM

Container Ship

Ship Type Notations	Special Feature Notations
Container Ship	LS LS(CL) LS(CL, RS)

< Typical Example >



Container Ship

NOTATIONS (Ship Type Notations)

Container Ship

DESCRIPTIONS

Container Ship : to be assigned to ships designed and constructed to carry containers exclusively.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Container Ship	Pt 7 Ch 4	Pt 1 Ch 2

EXAMPLES

 ※ KRS 1 - **Container Ship**

IWS CDG ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IHM, IEE) CHA LI

※ KRM 1 - UMA STCM

Container Ship

NOTATIONS (Special Feature Notations)

LS
LS(CL)
LS(CL, RS)

DESCRIPTIONS

LS : to be assigned to ships where container securing arrangements are fitted, and design and construction of the system are in accordance with Pt 7, Annex 7-2 of the Guidance.

LS(CL) : to be assigned to ships where the program for lashing calculations is approved by the Society and installed and maintained onboard in accordance with Pt 7, Annex 7-2 of the Guidance in addition to LS above.

LS(CL, RS) : to be assigned to ships where the contents related to the application of the specific route reduction factors provided by the Society are included in Cargo Securing Manual and the specific route reduction factors are applicable to onboard lashing program in accordance with Pt 7, Annex 7-2 of the Guidance in addition to LS(CL) above.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
LS	Pt 7 Annex 7-2	-
LS(CL)	Pt 7 Annex 7-2	-
LS(CL, RS)	Pt 7 Annex 7-2	-

EXAMPLES

✧ KRS 1 - **Container Ship**

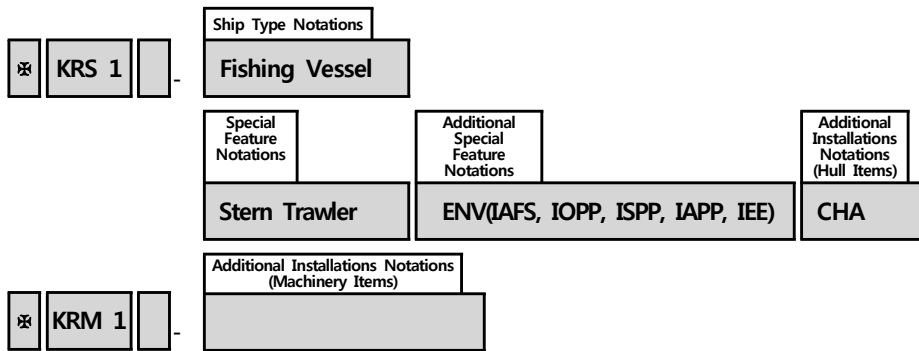
LS(CL, RS) IWS CDG ENV((IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IIHM, IEE) CHA LI

✧ KRM 1 - UMA STCM

Fishing Vessel

Ship Type Notations	Special Feature Notations
Fishing Vessel	Long Liner Stern Trawler Side Trawler Whaler Purse Seiner Gill Net Angling Stick-held Dip Net Bottom Long Liner Trap Stow Net Lift Net Dredge Net Seiner Stab Net Lighting

< Typical Example >



Fishing Vessel

NOTATIONS (Ship Type Notations)

Fishing Vessel

DESCRIPTIONS

Fishing Vessel : to be assigned to ships used for catching fish, whales, seals, walrus or other living resources of the sea.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Fishing Vessel	Pt 3 ^{1), 2)}	Pt 1 Ch 2
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) For ships of fibre reinforced plastics, the Rules for the Classification of FRP Ships are to be applied.		

EXAMPLES

 ✖ KRS 1 - **Fishing Vessel**
 Stern Trawler ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✖ KRM 1

✖ KRS 1 - **Fishing Vessel**
 Long Liner and Angling ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✖ KRM 1

Fishing Vessel

NOTATIONS (Special Feature Notations)

Long Liner
Stern Trawler
Side Trawler
Whaler
Purse Seiner
Gill Net
Angling
Stick-held Dip Net
Bottom Long Liner
Trap
Stow Net
Lift Net
Dredge Net
Seiner
Stab Net
Lighting

DESCRIPTIONS

Long Liner : to be assigned to long liner fishing vessels.

Stern Trawler : to be assigned to stern trawler fishing vessels.

Side Trawler : to be assigned to side trawler fishing vessels.

Whaler : to be assigned to whaler fishing vessels.

Purse Seiner : to be assigned to purse seiner fishing vessels.

Gill Net : to be assigned to gill net fishing vessels.

Angling : to be assigned to angling fishing vessels.

Stick-held Dip Net : to be assigned to stick-held dip net fishing vessels.

Bottom Long Liner : to be assigned to bottom long liner fishing vessels.

Trap : to be assigned to trap fishing vessels.

Stow Net : to be assigned to stow net fishing vessels.

Lift Net : to be assigned to lift net fishing vessels.

Dredge Net : to be assigned to dredge net fishing vessels.

Seiner : to be assigned to seiner fishing vessels.

Stab Net : to be assigned to stab net fishing vessels.

Lighting : to be assigned to lighting fishing vessels.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Long Liner	Pt 3 ^{1), 2)}	-
Stern Trawler	Pt 3 ^{1), 2)}	-
Side Trawler	Pt 3 ^{1), 2)}	-
Whaler	Pt 3 ^{1), 2)}	-
Purse Seiner	Pt 3 ^{1), 2)}	-
Gill Net	Pt 3 ^{1), 2)}	-
Angling	Pt 3 ^{1), 2)}	-
Stick-held Dip Net	Pt 3 ^{1), 2)}	-
Bottom Long Liner	Pt 3 ^{1), 2)}	-
Trap	Pt 3 ^{1), 2)}	-
Stow Net	Pt 3 ^{1), 2)}	-
Lift Net	Pt 3 ^{1), 2)}	-
Dredge Net	Pt 3 ^{1), 2)}	-
Seiner	Pt 3 ^{1), 2)}	-
Stab Net	Pt 3 ^{1), 2)}	-
Lighting	Pt 3 ^{1), 2)}	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) For ships of fibre reinforced plastics, the Rules for the Classification of FRP Ships are to be applied.		

EXAMPLES

 ✖ KRS 1 - Fishing Vessel

Stern Trawler ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✖ KRM 1

✖ KRS 1 - Fishing Vessel

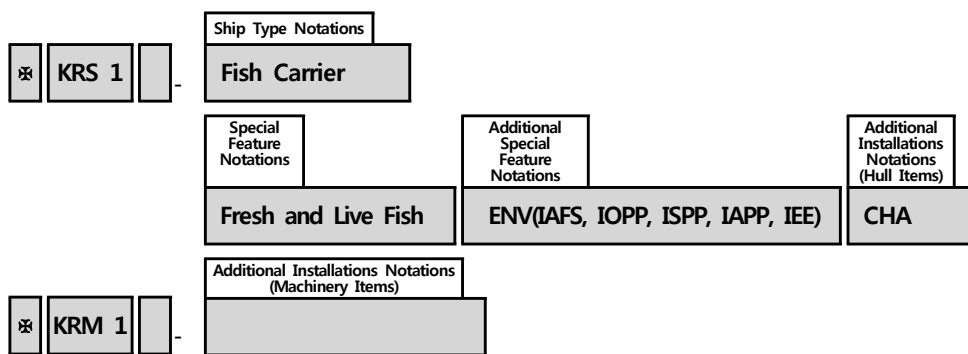
Long Liner and Angling ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✖ KRM 1

Fish Carrier

Ship Type Notations	Special Feature Notations
Fish Carrier	Fresh and Live Fish Fresh Fish Live Fish Fish Factory

< Typical Example >



Fish Carrier

NOTATIONS (Ship Type Notations)

Fish Carrier

DESCRIPTIONS

Fish Carrier : to be assigned to ship primarily carrying fishery.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Fish Carrier	Pt 3 ^{1), 2)}	Pt 1 Ch 2
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) For ships of fibre reinforced plastics, the Rules for the Classification of FRP Ships are to be applied.		

EXAMPLES

✧ KRS 1 - **Fish Carrier**

Fresh and Live Fish ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✧ KRM 1

✧ KRS 1 - **Fish Carrier**

Fish Factory ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✧ KRM 1

Fish Carrier

NOTATIONS (Special Feature Notations)

Fresh and Live Fish
 Fresh Fish
 Live Fish
 Fish Factory

DESCRIPTIONS

Fresh and Live Fish : to be assigned to ships carrying fresh and live fishes.

Fresh Fish : to be assigned to ships carrying fresh fishes.

Live Fish : to be assigned to ships carrying live fishes.

Fish Factory : to be assigned to fish factory ships.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Fresh and Live Fish	Pt 3 ^{1), 2)}	-
Fresh Fish	Pt 3 ^{1), 2)}	-
Live Fish	Pt 3 ^{1), 2)}	-
Fish Factory	Pt 3 ^{1), 2)}	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) For ships of fibre reinforced plastics, the Rules for the Classification of FRP Ships are to be applied.		

EXAMPLES

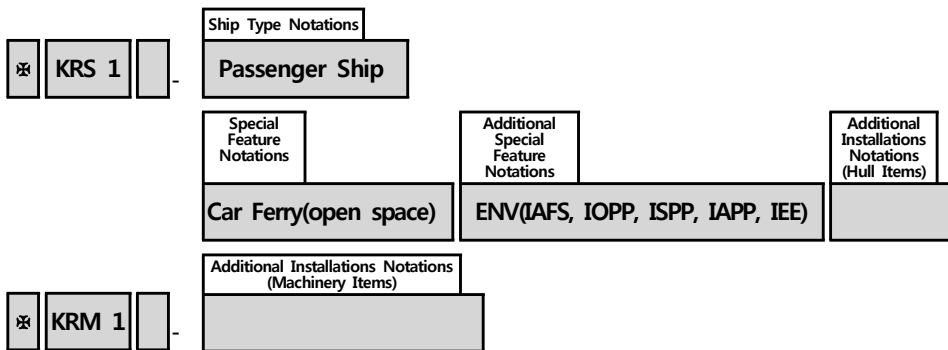
 ✕ KRS 1 - Fish Carrier
 Fresh and Live Fish ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA
 ✕ KRM 1

 ✕ KRS 1 - Fish Carrier
 Fish Factory ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA
 ✕ KRM 1

Passenger Ship

Ship Type Notations	Special Feature Notations		
	Type	Additional Purpose	Design Aspect
Passenger Ship	- Hydrofoil Side Wall Air Cushion Vehicle Hover Craft Catamaran Submersible	- Cargo Container Leisure Car Ferry Car Ferry(open space) Car Ferry(SCS) RoRo	Max. submerging depth and time for submersible

< Typical Example >



Passenger Ship

NOTATIONS (Ship Type Notations)

Passenger Ship

DESCRIPTIONS

Passenger Ship : to be assigned to ships which carries more than 12 passengers.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Passenger Ship	Pt 3 ^{1), 2)}	Pt 1 Ch 2
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) For ships of fibre reinforced plastics, the Rules for the Classification of FRP Ships are to be applied.		

EXAMPLES

✕ KRS 1 - **Passenger Ship**

Cargo/RoRo ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

✕ KRS 1 - **Passenger Ship**

Hydrofoil (HSLC-SA3) ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

✕ KRS 1 - **Passenger Ship**

Side Wall Air Cushion Vehicle ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

✕ KRS 1 - **Passenger Ship**

Catamaran/Car Ferry (HSLC-SA2) ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

✕ KRS 1 - **Passenger Ship**

Submersible/Leisure Max. 40M, 8Hrs

✕ KRM 1

Passenger Ship

NOTATIONS (Special Feature Notations – Type)

Hydrofoil
Side Wall Air Cushion Vehicle
Hover Craft
Catamaran
Submersible

DESCRIPTIONS

Hydrofoil : to be assigned to hydrofoil passenger ships.

Side Wall Air Cushion Vehicle : to be assigned to passenger ships of side wall air cushion vehicle type.

Hover Craft : to be assigned to passenger ships of hover craft type.

Submersible : to be assigned to submersible passenger ships.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Hydrofoil	Pt 3 ^{1), 2)}	-
Side Wall Air Cushion Vehicle	Pt 3 ^{1), 2)}	-
Hover Craft	Pt 3 ^{1), 2)}	-
Catamaran	Pt 3 ^{1), 2)}	-
Submersible	Pt 3 ^{1), 2)} , Rules for the Classification of Underwater Vehicles	Pt 1 Ch 2, Rules for the Classification of Underwater Vehicles
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) For ships of fibre reinforced plastics, the Rules for the Classification of FRP Ships are to be applied.		

EXAMPLES

 ✕ KRS 1 - Passenger Ship

Hydrofoil (HSLC-SA3) ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

✕ KRS 1 - Passenger Ship

Side Wall Air Cushion Vehicle ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

✕ KRS 1 - Passenger Ship

Catamaran/Car Ferry (HSLC-SA2) ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

✕ KRS 1 - Passenger Ship

Submersible/Leisure Max. 40M, 8Hrs

✕ KRM 1

Passenger Ship

NOTATIONS (Special Feature Notations – Additional Purpose)

Cargo
Container
Leisure
Car Ferry
Car Ferry(open space)
Car Ferry(SCS)
RoRo

DESCRIPTIONS

Cargo : to be assigned to passenger ships carrying general cargoes.

Container : to be assigned to passenger ships carrying containers.

Leisure : to be assigned to leisure passenger ships.

Car Ferry : to be assigned to passenger ships with Vehicle Areas specified in Pt 7, Annex 7-3 of the Guidance or passenger ships with spaces intended for the carriage of vehicle except Special Category Spaces or RoRo Spaces specified in SOLAS Ch.II-2.

Car Ferry(open space) : to be assigned to passenger ships having vehicle region with opening capable of being ventilated naturally throughout the exposed decks and side shell plates.

Car Ferry(SCS) : to be assigned to passenger ships with Special Category Spaces specified in SOLAS Ch.II-2.

RoRo : to be assigned to passenger ships with RoRo Spaces specified in SOLAS Ch.II-2.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Cargo	Pt 3 ^{1), 2)}	-
Container	Pt 3 ^{1), 2)}	-
Leisure	Pt 3 ^{1), 2)}	-
Car Ferry	Pt 3 ^{1), 2)} , Pt 7 Ch 7	-
Car Ferry(open space)	Pt 3 ^{1), 2)} , Pt 7 Ch 7	-
Car Ferry(SPS)	Pt 3 ^{1), 2)} , Pt 7 Ch 7	-
RoRo	Pt 3 ^{1), 2)}	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) For ships of fibre reinforced plastics, the Rules for the Classification of FRP Ships are to be applied.		

EXAMPLES

✧ KRS 1 - Passenger Ship
 Cargo/RoRo ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✧ KRM 1

✧ KRS 1 - Passenger Ship
 Catamaran/**Car Ferry** (HSLC-SA2) ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✧ KRM 1

✧ KRS 1 - Passenger Ship
 Submersible/**Leisure** Max. 40M, 8Hrs

✧ KRM 1

Passenger Ship

NOTATIONS (Special Feature Notations – Submersible)

Max. submerging depth and time for Submersible

DESCRIPTIONS

Max. ---M, ---Hrs : Max. submerging depth and time are to be assigned for submersible passenger ships.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Max. ---M, ---Hrs	Pt 3 ^{1), 2)}	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) For ships of fibre reinforced plastics, the Rules for the Classification of FRP Ships are to be applied.		

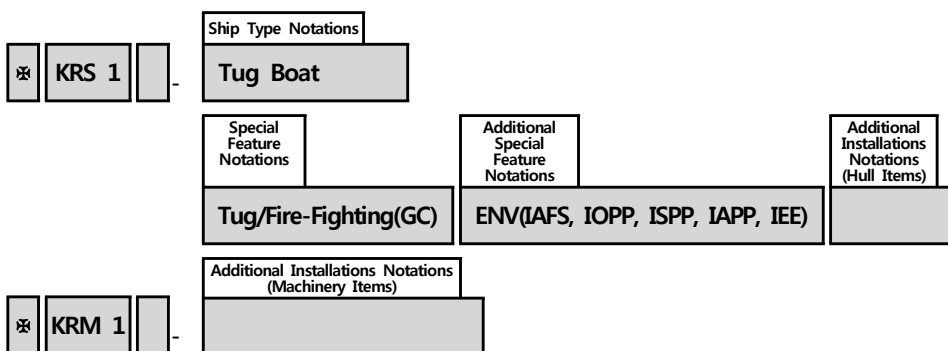
EXAMPLES

-
- ✕ KRS 1 - Passenger Ship
Submersible/Leisure **Max. 40M, 8Hrs**
 - ✕ KRM 1
-

Tug Boat

Ship Type Notations	Special Feature Notations
Tug Boat	- Tug/Salvage Tug/Supply Tug/Fire-Fighting(GA or GC) Tug/Anchor Tug/Oil Recovery(GA, GB or GC)

< Typical Example >



Tug Boat

NOTATIONS (Ship Type Notations)

Tug Boat

DESCRIPTIONS

Tug Boat : to be assigned to ships designed primarily for towing service.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Tug Boat (Notes)	Pt 7 Ch 9 ¹⁾	Pt 1 Ch 2
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

 ✕ KRS 1 - **Tug Boat**

✕ KRM 1

✕ KRS 1 - **Tug Boat**

Tug/Anchor ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

✕ KRS 1 - **Tug Boat**

Tug/Fire-Fighting(GC) ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

✕ KRS 1 - **Tug Boat**

Tug/Oil Recovery(GC) ENV(IAFS, IOPP, ISPP, IAPP, IEE)

✕ KRM 1

Tug Boat

NOTATIONS (Special Feature Notations)

Tug/Salvage
 Tug/Supply
 Tug/Fire-Fighting(GA or GC)
 Tug/Anchor
 Tug/Oil Recovery(GA, GB or GC)

DESCRIPTIONS

Tug/Salvage : to be assigned to tug boat designed for towing and salvage service.

Tug/Supply : to be assigned to tug boat designed for towing and supply service.

Tug/Fire-Fighting(GA or GC) : to be assigned to tug boat designed for towing and fire-fighting service.

Where,

GA : to be assigned to ships complied with the requirements for explosion-protected electrical equipment in dangerous zone.

GC : to be assigned to ships not applied to the requirements for explosion-protected electrical equipment in dangerous zone.

Tug/Anchor : to be assigned to tug boat designed for towing and anchor service.

Tug/Oil Recovery(GA, GB or GC) : to be assigned to tug boat designed for towing and oil recovery service.

Where,

GA : to be assigned to ships equipped for recovery and storage of spilled oil, and complied with the requirements for explosion-protected electrical equipment in dangerous zone.

GB : to be assigned to ships equipped for recovery and storage of spilled oil, and complied with the requirements for explosion-protected electrical equipment at work and storage spaces.

GC : to be assigned to ships equipped for recovery and storage of spilled oil, and not applied to the requirements for explosion-protected electrical equipment.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Tug/Salvage	Pt 7 Ch 9 ¹⁾	-
Tug/Supply	Pt 7 Ch 9 ¹⁾	-
Tug/Fire-Fighting(GA or GC)	Pt 7 Ch 9 ¹⁾	-
Tug/Anchor	Pt 7 Ch 9 ¹⁾	-
Tug/Oil Recovery(GA, GB or GC)	Pt 7 Ch 9 ¹⁾	-

(Notes)

1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.

EXAMPLES

⊗ KRS 1 - Tug Boat
⊗ KRM 1

⊗ KRS 1 - Tug Boat
Tug/Anchor ENV(IAFS, IOPP, ISPP, IAPP, IEE)
⊗ KRM 1

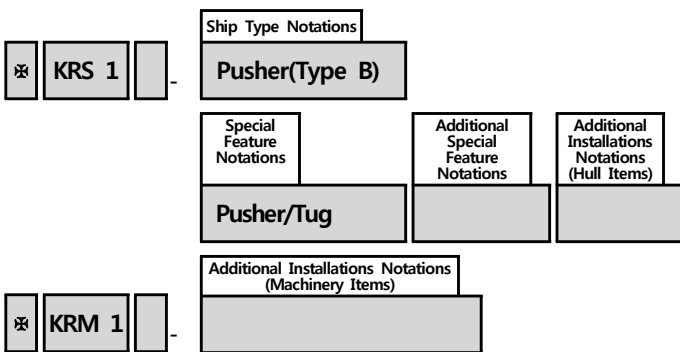
⊗ KRS 1 - Tug Boat
Tug/Fire-Fighting(GC) ENV(IAFS, IOPP, ISPP, IAPP, IEE)
⊗ KRM 1

⊗ KRS 1 - Tug Boat
Tug/Oil Recovery(GC) ENV(IAFS, IOPP, ISPP, IAPP, IEE)
⊗ KRM 1

Pusher

Ship Type Notations	Special Feature Notations
Pusher (Type A) (Type B)	- Pusher/Tug

< Typical Example >



Pusher

NOTATIONS (Ship Type Notations)

Pusher(Type A)

Pusher(Type B)

DESCRIPTIONS

Pusher : to be assigned to ships designed primarily for service of pushing other ship or barge, etc.

(Type A) : to be assigned to pusher with permanent connection type.

(Type B) : to be assigned to pusher with removable connection type.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Pusher	Pt 7 Ch 9 ¹⁾	Pt 1 Ch 2
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

⊗ KRS 1 - **Pusher(Type B)**

⊗ KRM 1

⊗ KRS 1 - **Pusher(Type B)**

Pusher/Tug

⊗ KRM 1

Pusher

NOTATIONS (Special Feature Notations)

Pusher/Tug

DESCRIPTIONS

Pusher/Tug : to be assigned to pushers designed primarily for towing service and service of pushing other ship or barge, etc.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Pusher/Tug	Pt 7 Ch 9 ¹⁾	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

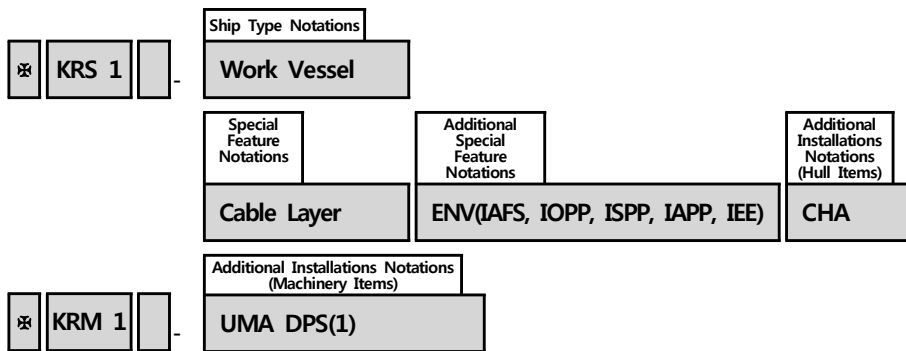
 ✕ KRS 1 - Pusher(Type B)
 ✕ KRM 1

 ✕ KRS 1 - Pusher(Type B)
 Pusher/Tug
 ✕ KRM 1

Work Vessel

Ship Type Notations	Special Feature Notations
<p>Work Vessel</p>	<p>- Launch Cable Layer Crane Anchor Ice Breaker Supply Oil Recovery(GA, GB or GC) Salvage Repair Work Tender</p>

< Typical Example >



Work Vessel

NOTATIONS (Ship Type Notations)

Work Vessel

DESCRIPTIONS

Work Vessel : to be assigned to ships designed for primarily carrying out intended work.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Work Vessel	Pt 3 ¹⁾	Pt 1 Ch 2
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

⊗ KRS 1 - **Work Vessel**

⊗ KRM 1

⊗ KRS 1 - **Work Vessel**

Cable Layer ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

⊗ KRM 1 - UMA DPS(1)

⊗ KRS 1 - **Work Vessel**

Oil Recovery(GC) ENV(IAFS, IOPP, ISPP, IAPP, IEE)

⊗ KRM 1

Work Vessel

NOTATIONS (Special Feature Notations)

<p>Launch</p> <p>Cable Layer</p> <p>Crane</p> <p>Anchor</p> <p>Ice Breaker</p> <p>Supply</p> <p>Oil Recovery(GA, GB or GC)</p> <p>Salvage</p> <p>Repair Work</p> <p>Tender</p>
--

DESCRIPTIONS

Launch : to be assigned to ships carrying out launch works.

Cable Layer : to be assigned to ships carrying out cable lay works.

Crane : to be assigned to ships carrying out crane works.

Anchor : to be assigned to ships carrying out anchor works.

Ice Breaker : to be assigned to ships carrying out ice break works.

Supply : to be assigned to ships carrying out supply works.

Oil Recovery(GA, GB or GC) : to be assigned to ships carrying out oil recovery works.

Where,

GA : to be assigned to ships equipped for recovery and storage of spilled oil, and complied with the requirements for explosion-protected electrical equipment in dangerous zone.

GB : to be assigned to ships equipped for recovery and storage of spilled oil, and complied with the requirements for explosion-protected electrical equipment at work and storage spaces.

GC : to be assigned to ships equipped for recovery and storage of spilled oil, and not applied to the requirements for explosion-protected electrical equipment.

Salvage : to be assigned to ships carrying out salvage works.

Repair Work : to be assigned to ships carrying out repair works.

Tender : to be assigned to ships carrying out tender works.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Launch	Pt 3 ¹⁾	-
Crane	Pt 3 ¹⁾	-
Crane	Pt 3 ¹⁾	-
Anchor	Pt 3 ¹⁾	-
Ice Breaker	Pt 3 ¹⁾	-
Supply	Pt 3 ¹⁾	-
Oil Recovery(GA, GB or GC)	Pt 3 ¹⁾	-
Salvage	Pt 3 ¹⁾	-
Repair Work	Pt 3 ¹⁾	-
Tender	Pt 3 ¹⁾	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

 ✕ KRS 1 - Work Vessel
 ✕ KRM 1

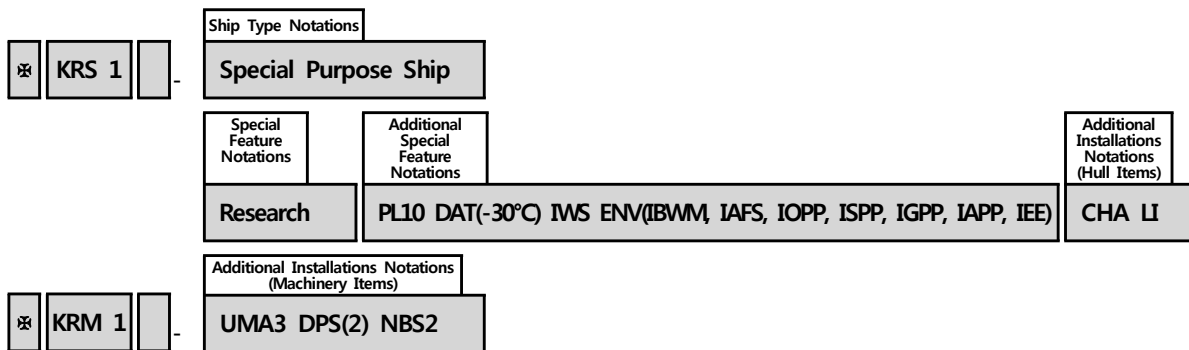
 ✕ KRS 1 - Work Vessel
 Cable Layer ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA
 ✕ KRM 1 - UMA DPS(1)

 ✕ KRS 1 - Work Vessel
 Oil Recovery(GC) ENV(IAFS, IOPP, ISPP, IAPP, IEE)
 ✕ KRM 1

Special Purpose Ship

Ship Type Notations	Special Feature Notations
<p>Special Purpose Ship</p>	<p>Soil Geological Survey Boat Submersible Support Diving Support Hopper/Waste Waste Hospital Hydro Survey Seismic Survey Fire-Fighting(GA or GC) Buoy Laying Fishery Training Fishery Patrol Fishery Research Patrol Pilot Observation Training Research</p>

< Typical Example >



Special Purpose Ship

NOTATIONS (Ship Type Notations)

Special Purpose Ship

DESCRIPTIONS

Special Purpose Ship : to be assigned to ships designed for carrying out intended special purposes.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Special Purpose Ship	Pt 3 ¹⁾	Pt 1 Ch 2
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

 ✕ KRS 1 - **Special Purpose Ship**

Fishery Patrol ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✕ KRM 1

 ✕ KRS 1 - **Special Purpose Ship**

Fishery Training ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✕ KRM 1

 ✕ KRS 1 - **Special Purpose Ship**

Hospital

✕ KRM 1

 ✕ KRS 1 - **Special Purpose Ship**

Research PL10 DT(-30°C) ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) HMS1 CHA LI

✕ KRM 1 - UMA3 DPS(2) NBS2

 ✕ KRS 1 - **Special Purpose Ship**

Waste ENV(IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI

✕ KRM 1

Special Purpose Ship

NOTATIONS (Special Feature Notations)

Soil
Geological
Survey Boat
Submersible Support
Diving Support
Hopper/Waste
Waste
Hospital
Hydro Survey
Seismic Survey
Fire-Fighting(GA or GC)
Buoy Laying
Fishery Training
Fishery Patrol
Fishery Research
Patrol
Pilot
Observation
Training
Research

DESCRIPTIONS

Soil : to be assigned to ships carrying out special purpose related soil matters.

Geological : to be assigned to ships carrying out special purpose related geological matters.

Survey Boat : to be assigned to ships carrying out special purpose related survey matters.

Submersible Support : to be assigned to ships carrying out special purpose related submersible support matters.

Diving Support : to be assigned to ships carrying out special purpose related diving support matters.

Hopper/Waste : to be assigned to ships carrying out special purpose related waste matter with hopper.

Waste : to be assigned to waste ships.

Hospital : to be assigned to hospital ships.

Hydro Survey : to be assigned to hydro survey ships.

Seismic Survey : to be assigned to seismic survey ships.

Fire-Fighting(GA or GC) : to be assigned to fire-fighting ships.

Where,

GA : to be assigned to ships complied with the requirements for explosion-protected electrical equipment in dangerous zone.

GC : to be assigned to ships not applied to the requirements for explosion-protected electrical equipment in dangerous zone.

Buoy Laying : to be assigned to buoy laying ships.

Fishery Training : to be assigned to fishery training ships.

Fishery Patrol : to be assigned to fishery patrol ships.

Fishery Research : to be assigned to fishery research ships.

Patrol : to be assigned to patrol fire-fighting ships.

Pilot : to be assigned to pilot ships.

Observation : to be assigned to observation ships.

Training : to be assigned to training ships.

Research : to be assigned to research ships.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Soil	Pt 3 ¹⁾	-
Geological	Pt 3 ¹⁾	-
Survey Boat	Pt 3 ¹⁾	-
Submersible Support	Pt 3 ¹⁾	-
Diving Support	Pt 3 ¹⁾	-
Hopper/Waste	Pt 3 ¹⁾	-
Waste	Pt 3 ¹⁾	-
Hospital	Pt 3 ¹⁾	-
Hydro Survey	Pt 3 ¹⁾	-
Seismic Survey	Pt 3 ¹⁾	-
Fire-Fighting(GA or GC)	Pt 3 ¹⁾	-
Buoy Laying	Pt 3 ¹⁾	-
Fishery Training	Pt 3 ¹⁾	-
Fishery Patrol	Pt 3 ¹⁾	-
Fishery Research	Pt 3 ¹⁾	-
Patrol	Pt 3 ¹⁾	-
Pilot	Pt 3 ¹⁾	-
Observation	Pt 3 ¹⁾	-
Training	Pt 3 ¹⁾	-
Research	Pt 3 ¹⁾	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

 ✕ KRS 1 - Special Purpose Ship

Fishery Patrol ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✕ KRM 1

✕ KRS 1 - Special Purpose Ship

Fishery Training ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✕ KRM 1

✕ KRS 1 - Special Purpose Ship

Hospital

✕ KRM 1

✕ KRS 1 - Special Purpose Ship

Research PL10 DT(-30°C) ENV(IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, IEE) HMS1 CHA LI

✕ KRM 1 - UMA3 DPS(2) NBS2

✕ KRS 1 - Special Purpose Ship

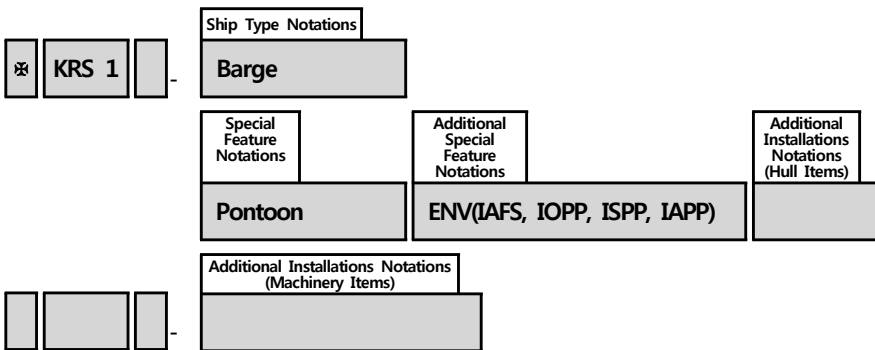
Waste ENV(IAFS, IOPP, ISPP, IGPP, IAPP, IEE) CHA LI

✕ KRM 1

Barge

Ship Type Notations	Special Feature Notations	
	Type	Loaded Cargo Name or Additional Purpose
Barge (FAC) (FAO) (FBC)	- Pontoon Integrated Pusher Barge (Type A) (Type B) Hopper(or Dump)	Chemical Oil Container Sand Crane Pipe-Laying Piling Cable-Laying Salvage Submersible Accommodation Waste Log Heavy Cargo Oil Recovery(GA, GB or GC)

< Typical Example >



Barge

NOTATIONS (Ship Type Notations)

Barge

DESCRIPTIONS

Barge : to be assigned to non self-propelled ships generally pulled or pushed by tug boat.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Barge	Rules for the Classification of Steel Barges	Rules for the Classification of Steel Barges

EXAMPLES

⊗ KRS 1 - **Barge** (FAO)
Oil ENV(IAFS, IOPP, ISPP, IAPP)

⊗ KRS 1 - **Barge**
Pontoon ENV(IAFS, IOPP, ISPP, IAPP)

⊗ KRS 1 - **Barge**
Pontoon/Crane CHA

⊗ KRS 1 - **Barge**
Integrated Pusher Barge(Type B)

Barge

NOTATIONS (Ship Type Notations – Flash Point/Tank Vent)

(FAC)

(FAO)

(FBC)

DESCRIPTIONS

(FAC) : to be assigned to ships which are carrying cargoes of flash point above 60°C with controlled tank vents

(FAO) : to be assigned to ships which are carrying cargoes of flash point above 60°C with open tank vents

(FBC) : to be assigned to ships which are carrying cargoes of flash point of 60°C and below with controlled tank vents

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(FAC)	Pt 7 Ch 1 Sec 10	-
(FAO)	Pt 7 Ch 1 Sec 10	-
(FBC)	Pt 7 Ch 1 Sec 10	-

EXAMPLES

※ KRS 1 - Barge **(FAO)**
Oil ENV(IAFS, IOPP, ISPP, IAPP)

Barge

NOTATIONS (Special Feature Notations – Type)

Pontoon
 Integrated Pusher Barge(Type A)
 Integrated Pusher Barge(Type B)
 Hopper (or Dump)

DESCRIPTIONS

Pontoon : to be assigned to box shape barges carrying cargoes on the freeboard deck only.

Integrated Pusher Barge(Type A) : to be assigned to barges, within pusher-barge combination, which are connected in permanent connection type to pushers that are operated by the pushing of pusher.

Integrated Pusher Barge(Type B) : to be assigned to barges, within pusher-barge combination, which are connected in removable connection type to pushers that are operated by the pushing of pusher.

Hopper (or Dump) : to be assigned to barges which are constructed so as to open the cargo hold bottom.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Pontoon	Rules for the Classification of Steel Barges, Ch 21	-
Integrated Pusher Barge(Type A)	Rules for the Classification of Steel Barges	-
Integrated Pusher Barge(Type B)	Rules for the Classification of Steel Barges	-
Hopper (or Dump)	Rules for the Classification of Steel Barges	-

EXAMPLES

 ✕ KRS 1 - Barge
 Pontoon ENV(IAFS, IOPP, ISPP, IAPP)

✕ KRS 1 - Barge
 Pontoon/Crane CHA

✕ KRS 1 - Barge
 Integrated Pusher Barge(Type B)

Barge

NOTATIONS (Special Feature Notations - Loaded Cargo Name or Additional Purpose)

<p>Chemical</p> <p>Oil</p> <p>Container</p> <p>Sand</p> <p>Crane</p> <p>Pipe-Laying</p> <p>Piling</p> <p>Cable-Laying</p> <p>Salvage</p> <p>Submersible</p> <p>Accommodation</p> <p>Waste</p> <p>Log</p> <p>Heavy Cargo</p> <p>Oil Recovery(GA, GB or GC)</p>

DESCRIPTIONS

Chemical : to be assigned to barges which are constructed primarily for the carriage of chemicals(liquid cargoes specified in(Pt 7, Ch 6, Sec 17 of the Rules) in bulk.

(Remarks: Additional Special Feature Notations are to be assigned in the same manner for those of Chemical Tankers.)

Oil : to be assigned to barges which are constructed primarily for the carriage of oil in bulk.

Container : to be assigned to barges which are constructed primarily for the carriage of containers.

Sand : to be assigned to barges which are constructed primarily for the carriage of sand.

Crane : to be assigned to barges carrying out crane works.

Pipe-Laying : to be assigned to barges carrying out pipe lay works.

Piling : to be assigned to barges carrying out piling works.

Cable-Laying : to be assigned to barges carrying out cable lay works.

Salvage : to be assigned to barges carrying out salvage works.

Submersible : to be assigned to submersible barges

Accommodation : to be assigned to barges which are constructed to be used as an accommodation.

Waste : to be assigned to barges which are constructed primarily for the carriage of waste.

Log : to be assigned to barges which are constructed primarily for the carriage of logs.

Heavy Cargo : to be assigned to barges which are constructed for the carriage of heavy cargoes.

Oil Recovery(GA, GB or GC) : to be assigned to barges carrying out oil recovery works.

Where,

GA : to be assigned to barges equipped for recovery and storage of spilled oil, and complied with the requirements for explosion-protected electrical equipment in dangerous zone.

GB : to be assigned to barges equipped for recovery and storage of spilled oil, and complied with the requirements for explosion-protected electrical equipment at work and storage spaces.

GC : to be assigned to barges equipped for recovery and storage of spilled oil, and not applied to the requirements for explosion-protected electrical equipment.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Chemical	Rules for the Classification of Steel Barges	-
Oil	Rules for the Classification of Steel Barges, Ch 22	-
Container	Rules for the Classification of Steel Barges	-
Sand	Rules for the Classification of Steel Barges	-
Crane	Rules for the Classification of Steel Barges	-
Pipe-Laying	Rules for the Classification of Steel Barges	-
Piling	Rules for the Classification of Steel Barges	-
Cable-Laying	Rules for the Classification of Steel Barges	-
Salvage	Rules for the Classification of Steel Barges	-
Submersible	Rules for the Classification of Steel Barges	-
Accommodation	Rules for the Classification of Steel Barges	-
Waste	Rules for the Classification of Steel Barges	-
Log	Rules for the Classification of Steel Barges	-
Heavy Cargo	Rules for the Classification of Steel Barges	-
Oil Recovery(GA, GB or GC)	Rules for the Classification of Steel Barges	-

EXAMPLES

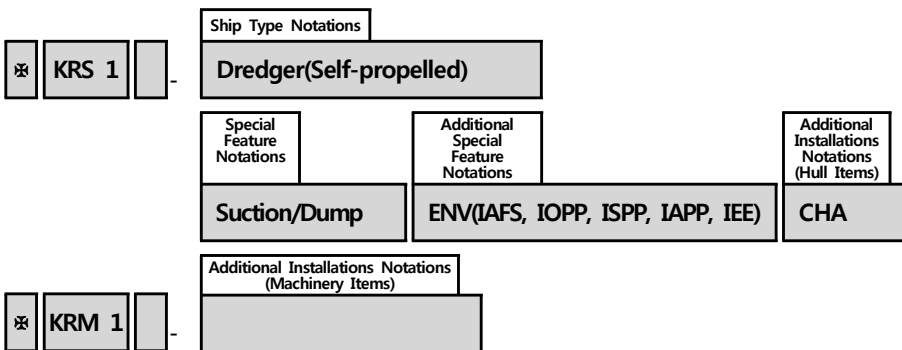
 ✕ KRS 1 - Barge (FAO)
 Oil ENV(IAFS, IOPP, ISPP, IAPP)

✕ KRS 1 - Barge
 Pontoon/**Crane** CHA

Dredger

Ship Type Notations	Special Feature Notations
Dredger Dredger(Self-propelled)	Trailing Suction Cutter Suction Grab Bucket Dipper Suction/Dump

< Typical Example >



Dredger

NOTATIONS (Ship Type Notations)

Dredger
Dredger(Self-propelled)

DESCRIPTIONS

Dredger : to be assigned to ships equipped with the dredging equipment for soils, sands, peddles and stones at the bottom of river, harbor and sea lanes.

Dredger(Self-propelled) : to be assigned self-propelled dredger with propulsion machinery.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Dredger	Rules for the Classification of Dredgers	Rules for the Classification of Dredgers
Dredger(Self-propelled)	Pt 3 ¹⁾	Rules for the Classification of Dredgers
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

-
- ⊗ KRS 1 - **Dredger**
Cutter Suction ENV(IAFS, IOPP, ISPP, IAPP)
 - ⊗ KRM 1
-
- ⊗ KRS 1 - **Dredger(Self-propelled)**
Suction/Dump ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA
 - ⊗ KRM 1
-

Dredger

NOTATIONS (Special Feature Notations)

Trailing Suction
Cutter Suction
Grab
Bucket
Dipper
Suction/Dump

DESCRIPTIONS

Trailing Suction : to be assigned to ships carrying out dredging works in trailing suction type.

Cutter Suction : to be assigned to ships carrying out dredging works in cutter suction type.

Grab : to be assigned to ships carrying out dredging works in grab type.

Bucket : to be assigned to ships carrying out dredging works in bucket type.

Dipper : to be assigned to ships carrying out dredging works in dipper type.

Suction/Dump : to be assigned to ships carrying out dredging works in suction/dump type.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Trailing Suction	Rules for the Classification of Dredgers, Pt 3 ¹⁾	-
Cutter Suction	Rules for the Classification of Dredgers, Pt 3 ¹⁾	-
Grab	Rules for the Classification of Dredgers, Pt 3 ¹⁾	-
Bucket	Rules for the Classification of Dredgers, Pt 3 ¹⁾	-
Dipper	Rules for the Classification of Dredgers, Pt 3 ¹⁾	-
Suction/Dump	Rules for the Classification of Dredgers, Pt 3 ¹⁾	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		

EXAMPLES

✧ KRS 1 - Dredger

Cutter Suction ENV(IAFS, IOPP, ISPP, IAPP)

✧ KRM 1

✧ KRS 1 - Dredger(Self-propelled)

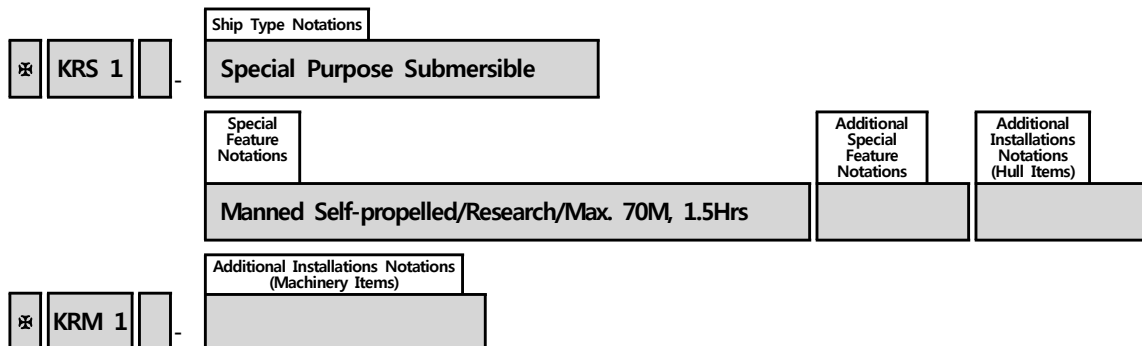
Suction/Dump ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA

✧ KRM 1

Special Purpose Submersible

Ship Type Notations	Special Feature Notations			
Special Purpose Submersible	Type	Type of Propulsion	Purpose	Design Aspect
	Manned Unmanned	Self-propelled Non-propelled	Research Rescue Leisure Special Work	Max. submerging depth and time

< Typical Example >



Special Purpose Submersible

NOTATIONS (Ship Type Notations)

Special Purpose Submersible

DESCRIPTIONS

Special Purpose Submersible : to be assigned to submersible ships designed for carrying out intended special purposes.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Special Purpose Submersible	Rules for the Classification of Underwater Vehicles	Rules for the Classification of Underwater Vehicles

EXAMPLES

-
- ⊗ KRS 1 - **Special Purpose Submersible**
Manned Self-propelled/Research/Max. 70M, 1.5Hrs
 - ⊗ KRM 1
-

Special Purpose Submersible

NOTATIONS (Special Feature Notations – Manned, Unmanned)

Manned
Unmanned

DESCRIPTIONS

Manned : to be assigned to manned submersible ships.

Unmanned : to be assigned to unmanned submersible ships.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Manned	Rules for the Classification of Underwater Vehicles	-
Unmanned	Rules for the Classification of Underwater Vehicles	-

EXAMPLES

-
- ⊗ KRS 1 - Special Purpose Submersible
 Manned Self-propelled/Research/Max. 70M, 1.5Hrs
 - ⊗ KRM 1
-

Special Purpose Submersible

NOTATIONS (Special Feature Notations - Self-propelled, Non-propelled)

Self-propelled
Non-propelled

DESCRIPTIONS

Self-propelled : to be assigned to self-propelled submersible ships.

Non-propelled : to be assigned to non-propelled submersible ships.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Self-propelled	Rules for the Classification of Underwater Vehicles	-
Non-propelled	Rules for the Classification of Underwater Vehicles	-

EXAMPLES

-
- ✧ KRS 1 - Special Purpose Submersible
Manned **Self-propelled**/Research/Max. 70M, 1.5Hrs
 - ✧ KRM 1
-

Special Purpose Submersible

NOTATIONS (Special Feature Notations – Purpose)

Research
Rescue
Leisure
Special Work

DESCRIPTIONS

Research : to be assigned to submersible ships carrying out special purpose related research.

Rescue : to be assigned to submersible ships carrying out special purpose related rescue.

Leisure : to be assigned to submersible ships used for leisure.(However, to be assigned to ships accompanying personnel not exceeding 13.)

Special Work : to be assigned to submersible ships using for special work.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Research	Rules for the Classification of Underwater Vehicles	-
Rescue	Rules for the Classification of Underwater Vehicles	-
Leisure	Rules for the Classification of Underwater Vehicles	-
Special Work	Rules for the Classification of Underwater Vehicles	-

EXAMPLES

-
- ⊗ KRS 1 - Special Purpose Submersible
Manned Self-propelled/**Research**/Max. 70M, 1.5Hrs
 - ⊗ KRM 1
-

Special Purpose Submersible

NOTATIONS (Special Feature Notations - Max. submerging depth and time)

Max. submerging depth and time

DESCRIPTIONS

Max. ---M, ---Hrs : Max. submersing depth and time are to be assigned.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Max. ---M, ---Hrs	Rules for the Classification of Underwater Vehicles	-

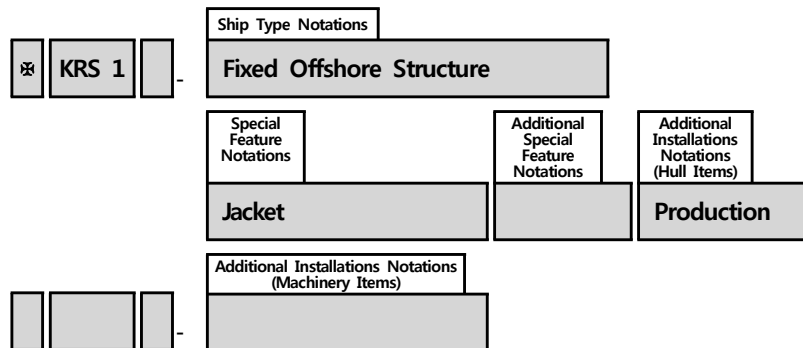
EXAMPLES

-
- ✧ KRS 1 - Special Purpose Submersible
Manned Self-propelled/Research/**Max. 70M, 1.5Hrs**
 - ✧ KRM 1
-

Fixed Offshore Structure

Ship Type Notations	Special Feature Notations	
	Type	Purpose
Fixed Offshore Structure	Jacket GBS Compliant Tower Articulated Tower	Drilling Production

< Typical Example >



Fixed Offshore Structure

NOTATIONS (Ship Type Notations)

Fixed Offshore Structure

DESCRIPTIONS

Fixed Offshore Structure : to be assigned to offshore structures which are buoyant or non-buoyant structures, supported by or attached to the sea floor of specific site of the installation.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Fixed Offshore Structure	Rules for the Classification of Fixed Offshore Structures	Rules for the Classification of Fixed Offshore Structures

EXAMPLES

 ✕ KRS 1 - **Fixed Offshore Structure**
 Jacket Production

 ✕ KRS 1 - **Fixed Offshore Structure**
 GBS Production

Fixed Offshore Structure

NOTATIONS (Special Feature Notations - Type)

Jacket
GBS
Compliant Tower
Articulated Tower

DESCRIPTIONS

Jacket : to be assigned to fixed offshore structures characterized by slender foundation elements, or piles, driven into the sea floor.

GBS : to be assigned to fixed offshore structures which rest directly on the sea floor.

Compliant Tower : to be assigned to fixed offshore structures which are designed to have longer frequency of structure than frequency of wave so that the resonance between structure and wave can be avoided.

Articulated Tower : to be assigned to fixed offshore structures which depend on buoyancy acting near the water surface to provide the necessary righting stability.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Jacket	Rules for the Classification of Fixed Offshore Structures	-
GBS	Rules for the Classification of Fixed Offshore Structures	-
Compliant Tower	Rules for the Classification of Fixed Offshore Structures	-
Articulated Tower	Rules for the Classification of Fixed Offshore Structures	-

EXAMPLES

 ✕ KRS 1 - Fixed Offshore Structure
Jacket Production

 ✕ KRS 1 - Fixed Offshore Structure
GBS Production

Fixed Offshore Structure

NOTATIONS (Special Feature Notations – Purpose)

Drilling Production

DESCRIPTIONS

Drilling : to be assigned to fixed offshore structures carrying out drilling works.

Production : to be assigned to fixed offshore structures carrying production works such as processing crude oil, gas, etc. drawn up from the seabed.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Drilling	Rules for the Classification of Fixed Offshore Structures	-
Production	Rules for the Classification of Fixed Offshore Structures	-

EXAMPLES

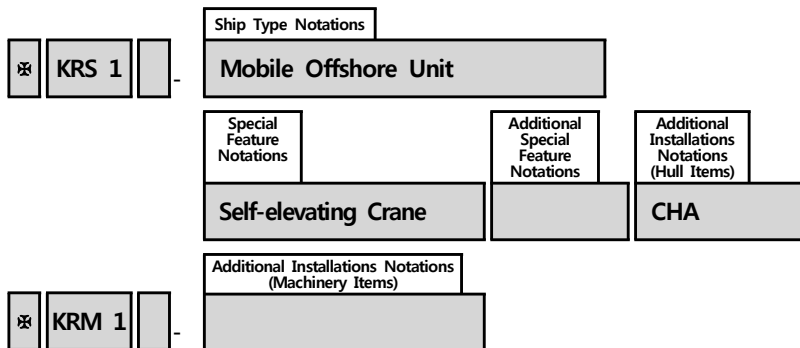
 ✕ KRS 1 - Fixed Offshore Structure
 Jacket **Production**

✕ KRS 1 - Fixed Offshore Structure
 GBS **Production**

Mobile Offshore Unit

Ship Type Notations	Special Feature Notations	
	Type	Purpose
Mobile Offshore Unit	Self-elevating Column-stabilized Ship Type Barge Type	Crane Accommodation Floating Pier

< Typical Example >



Mobile Offshore Unit

NOTATIONS (Ship Type Notations)

Mobile Offshore Unit

DESCRIPTIONS

Mobile Offshore Unit : to be assigned to mobile offshore units which are capable of moving for the intended offshore operation primarily without restrictions of service area rather than carrying cargoes. However, for the restricted service units, special consideration may be given by the Society.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Mobile Offshore Unit	Rules for the Classification of Mobile Offshore Units	Rules for the Classification of Mobile Offshore Units

EXAMPLES

 ✕ KRS 1 - **Mobile Offshore Unit**
 Self-elevating Crane CHA

✕ KRM 1

 ✕ KRS 1 - **Mobile Offshore Unit**
 Barge Type Floating Pier CHA

✕ KRM 1

Mobile Offshore Unit

NOTATIONS (Special Feature Notations – Type)

Self-elevating
 Column-stabilized
 Ship Type
 Barge Type

DESCRIPTIONS

Self-elevating : Self-elevating unit is a unit having hulls with sufficient buoyancy to safely transport the unit to the desired location, after which the hull is raised to a predetermined elevation above the sea surface on its legs, which are supported by the sea bed. Equipment and supplies may be transported on the unit, or may be added to the unit in its elevated position. The legs of such units may penetrate the sea bed, may be fitted with enlarged sections or footings to reduce penetration, or may be attached to bottom pads or mat.

Column-stabilized : Column-stabilized unit is a unit which depends upon the buoyancy of widely spaced columns for flotation and stability for all afloat modes of operation or in the raising or lowering of the unit, as may be applicable. The columns are connected at their top to an upper structure supporting the equipment. Lower hulls or footings may be provided at the bottom of the columns for additional buoyancy or to provide sufficient area to support the unit on the sea bed. Bracing members of tubular or structural sections may be used to connect the columns, lower hulls or footings and to support the upper structure. Operations may be carried out in the floating condition, in which condition the unit is described as a semisubmersible, or when supported by the sea bed, in which condition the unit is described as submersible. A semisubmersible unit may be designed to operate either floating or supported by the sea bed, provided each type of operation has been found to be satisfactory.

Ship Type : Ship type unit is a seagoing ship-shaped unit having a displacement type hull or hulls, of the single, catamaran or trimaran type, which have been designed or converted for operations in the floating condition. The unit of this type has propelling machinery.

Barge Type : Barge type unit is a seagoing unit having a displacement type hull or hulls, which have been designed or converted for operations in the floating condition. The unit of this type has no propelling machinery.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Self-elevating	Rules for the Classification of Mobile Offshore Units	-
Column-stabilized	Rules for the Classification of Mobile Offshore Units	-
Ship Type	Rules for the Classification of Mobile Offshore Units	-
Barge Type	Rules for the Classification of Mobile Offshore Units	-

EXAMPLES

✧ KRS 1 - Mobile Offshore Unit
Self-elevating Crane CHA

✧ KRM 1

✧ KRS 1 - Mobile Offshore Unit
Barge Type Floating Pier CHA

✧ KRM 1

Mobile Offshore Unit

NOTATIONS (Special Feature Notations – Purpose)

Crane
Accommodation
Floating Pier

DESCRIPTIONS

Crane : to be assigned to mobile offshore units carrying out crane works.

Accommodation : to be assigned to mobile offshore units with no propelling machinery which have accommodation for passengers or particular personnel. This units are to be stationed at smooth water areas or sea areas equivalent to smooth water areas.

Floating Pier : to be assigned to mobile offshore units which have mooring equipment, loading apparatus, etc. for loading or unloading and have bridges for access from the shore. This units are to be stationed at smooth water areas or sea areas equivalent to smooth water areas.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Crane	Rules for the Classification of Mobile Offshore Units	-
Accommodation	Rules for the Classification of Mobile Offshore Units	-
Floating Pier	Rules for the Classification of Mobile Offshore Units	-

EXAMPLES

 ✕ KRS 1 - Mobile Offshore Unit
 Self-elevating **Crane** CHA

✕ KRM 1

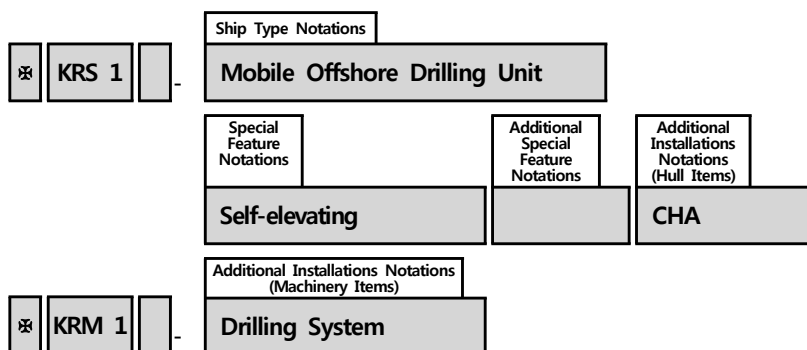
 ✕ KRS 1 - Mobile Offshore Unit
 Barge Type **Floating Pier** CHA

✕ KRM 1

Mobile Offshore Drilling Unit

Ship Type Notations	Special Feature Notations
	Type
Mobile Offshore Drilling Unit	Self-elevating Column-stabilized Ship Type Barge Type

< Typical Example >



Mobile Offshore Drilling Unit

NOTATIONS (Ship Type Notations)

Mobile Offshore Drilling Unit

DESCRIPTIONS

Mobile Offshore Drilling Unit : to be assigned to mobile offshore drilling units or vessels which are capable of engaging in drilling operations for the exploration for or exploitation of resources beneath the seabed such as liquid or gaseous hydrocarbons, sulphur or salt.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Mobile Offshore Drilling Unit	Rules for Mobile Offshore Drilling Units	Rules for Mobile Offshore Drilling Units

EXAMPLES

-
- ⊗ KRS 1 - **Mobile Offshore Drilling Unit**
Self-elevating CHA
 - ⊗ KRM 1 - Drilling System
-

- ⊗ KRS 1 - **Mobile Offshore Drilling Unit**
Ship Type CHA PKS
 - ⊗ KRM 1 - Drilling System
-

Mobile Offshore Drilling Unit

NOTATIONS (Special Feature Notations – Type)

Self-elevating
 Column-stabilized
 Ship Type
 Barge Type

DESCRIPTIONS

Self-elevating : Self-elevating unit is a unit having hulls with sufficient buoyancy to safely transport the unit to the desired location, after which the hull is raised to a predetermined elevation above the sea surface on its legs, which are supported by the sea bed. Equipment and supplies may be transported on the unit, or may be added to the unit in its elevated position. The legs of such units may penetrate the sea bed, may be fitted with enlarged sections or footings to reduce penetration, or may be attached to bottom pads or mat.

Column-stabilized : Column-stabilized unit is a unit which depends upon the buoyancy of widely spaced columns for flotation and stability for all afloat modes of operation or in the raising or lowering of the unit, as may be applicable. The columns are connected at their top to an upper structure supporting the equipment. Lower hulls or footings may be provided at the bottom of the columns for additional buoyancy or to provide sufficient area to support the unit on the sea bed. Bracing members of tubular or structural sections may be used to connect the columns, lower hulls or footings and to support the upper structure. Operations may be carried out in the floating condition, in which condition the unit is described as a semisubmersible, or when supported by the sea bed, in which condition the unit is described as submersible. A semisubmersible unit may be designed to operate either floating or supported by the sea bed, provided each type of operation has been found to be satisfactory.

Ship Type : Ship type unit is a seagoing ship-shaped unit having a displacement type hull or hulls, of the single, catamaran or trimaran type, which have been designed or converted for operations in the floating condition. The unit of this type has propelling machinery.

Barge Type : Barge type unit is a seagoing unit having a displacement type hull or hulls, which have been designed or converted for operations in the floating condition. The unit of this type has no propelling machinery.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Self-elevating	Rules for Mobile Offshore Drilling Units	-
Column-stabilized	Rules for Mobile Offshore Drilling Units	-
Ship Type	Rules for Mobile Offshore Drilling Units	-
Barge Type	Rules for Mobile Offshore Drilling Units	-

EXAMPLES

⊗ KRS 1 - Mobile Offshore Drilling Unit

Self-elevating CHA

⊗ KRM 1 - Drilling System

⊗ KRS 1 - Mobile Offshore Drilling Unit

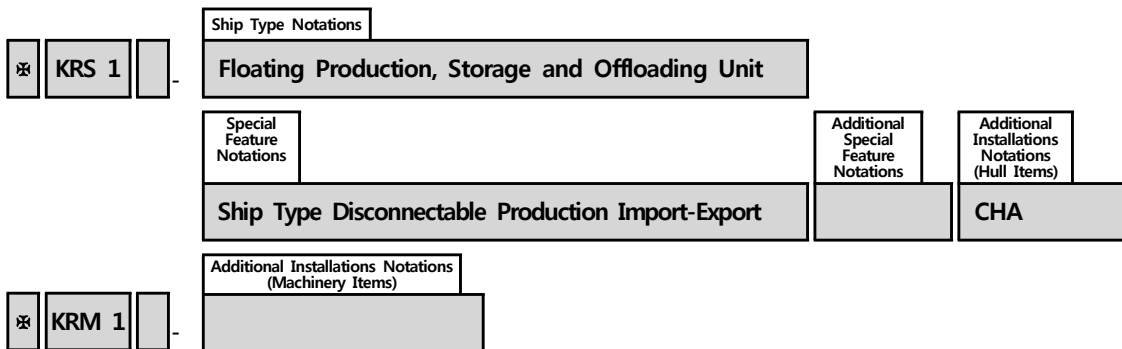
Ship Type CHA PKS

⊗ KRM 1 - Drilling System

Floating Production, Storage and Offloading Unit

Ship Type Notations	Special Feature Notations		
	Type	Design Aspect	Classed System
Floating Production, Storage and Offloading Unit Floating Production and Offloading Unit Floating Storage and Offloading Unit	Ship Type Barge Type Column-stabilized Spar TLP	(C) Disconnectable	Production Import Export Import-Export

< Typical Example >



Floating Production, Storage and Offloading Unit

NOTATIONS (Ship Type Notations)

Floating Production, Storage and Offloading Unit
 Floating Production and Offloading Unit
 Floating Storage and Offloading Unit

DESCRIPTIONS

Floating Production, Storage and Offloading Unit : (FPSO) to be assigned to floating offshore production units which are not intended for the transport of cargo, which are positioned at a specific site of the installation permanently or for long periods and fitted with systems for the processing, storage and offloading of produced crude oil and petroleum gases.

Floating Production and Offloading Unit : (FPO) to be assigned to floating offshore production units which are not intended for the transport of cargo, which are positioned at a specific site of the installation permanently or for long periods and fitted with systems for the processing and offloading of produced crude oil and petroleum gases.

Floating Storage and Offloading Unit : (FSO) to be assigned to floating offshore production units which are not intended for the transport of cargo, which are positioned at a specific site of the installation permanently or for long periods and fitted with systems for the storage and offloading of produced crude oil and petroleum gases.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Floating Production, Storage and Offloading Unit	Guidance for Floating Offshore Production Units	Guidance for Floating Offshore Production Units
Floating Production and Offloading Unit	Guidance for Floating Offshore Production Units	Guidance for Floating Offshore Production Units
Floating Storage and Offloading Unit	Guidance for Floating Offshore Production Units	Guidance for Floating Offshore Production Units

EXAMPLES

✧ KRS 1 - **Floating Production, Storage and Offloading Unit**
Ship Type (C) Disconnectable Production Import-Export CHA
✧ KRM 1

✧ KRS 1 - **Floating Production and Offloading Unit**
Spar Production Import-Export CHA
✧ KRM 1

✧ KRS 1 - **Floating Storage and Offloading Unit**
Barge Type Disconnectable Import-Export CHA
✧ KRM 1

Floating Production, Storage and Offloading Unit

NOTATIONS (Special Feature Notations – Type)

Ship Type
Barge Type
Column-stabilized
Spar
TLP

DESCRIPTIONS

Ship Type : Ship type is the unit in the shape of an ordinary tanker or cargo ship having displacement hull.

Barge Type : Barge type is the unit in the shape of an ordinary barge.

Column-stabilized : Column-stabilized type is a unit consisting of deck with top-side installations, surface piercing columns, submerged lower hulls, bracings, etc., which are semi-submerged to a predetermined draft during operation.

Spar : Spar is a unit which is deep draft, vertical floating structures, usually of cylindrical shape, supporting a topside deck and moored to the seafloor. The hull can be divided into upper hull, mid-section and lower hull.

TLP : TLP is a unit which fully buoyant and is restrained below its natural flotation line by mooring elements which are attached in tension to gravity anchors or piles at the sea floor.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Ship Type	Guidance for Floating Offshore Production Units	-
Barge Type	Guidance for Floating Offshore Production Units	-
Column-stabilized	Guidance for Floating Offshore Production Units	-
Spar	Guidance for Floating Offshore Production Units	-
TLP	Guidance for Floating Offshore Production Units	-

EXAMPLES

✧ KRS 1 - Floating Production, Storage and Offloading Unit
Ship Type (C) Disconnectable Production Import-Export CHA

✧ KRM 1

✧ KRS 1 - Floating Production and Offloading Unit
Spar Production Import-Export CHA

✧ KRM 1

✧ KRS 1 - Floating Storage and Offloading Unit
Barge Type Disconnectable Import-Export CHA

✧ KRM 1

Floating Production, Storage and Offloading Unit

NOTATIONS (Special Feature Notations – (C), Disconnectable)

(C)
Disconnectable

DESCRIPTIONS

(C) : shall be assigned when an existing vessel is converted to a floating offshore production unit and is classed with the Society.

Disconnectable : shall be assigned for the floating offshore production unit that has a propulsion system and a means of disengaging the unit from its mooring and riser systems.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(C)	Guidance for Floating Offshore Production Units	-
Disconnectable	Guidance for Floating Offshore Production Units	-

EXAMPLES

 ✕ KRS 1 - Floating Production, Storage and Offloading Unit
 Ship Type **(C) Disconnectable** Production Import-Export CHA

✕ KRM 1

✕ KRS 1 - Floating Storage and Offloading Unit
 Barge Type **Disconnectable** Import-Export CHA

✕ KRM 1

Floating Production, Storage and Offloading Unit

NOTATIONS (Special Feature Notations – Production, Import, Export, Import-Export)

Production
 Import
 Export
 Import-Export

DESCRIPTIONS

Production : For floating offshore production units fitted with the production systems, where the whole production systems are in compliance with **Guidance for Floating Offshore Production Units Ch 11**, the notation Production may be assigned additionally.

Import : Where the import systems are in compliance with **Guidance for Floating Offshore Production Units Ch 12**, the notation Import may be assigned additionally.

Export : Where the export systems are in compliance with **Guidance for Floating Offshore Production Units Ch 12**, the notation Export may be assigned additionally.

Import-Export : Where the import and export systems are in compliance with **Guidance for Floating Offshore Production Units Ch 12**, the notation Import-Export may be assigned additionally.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Production	Guidance for Floating Offshore Production Units Ch 11	-
Import	Guidance for Floating Offshore Production Units Ch 12	-
Export	Guidance for Floating Offshore Production Units Ch 12	
Import-Export	Guidance for Floating Offshore Production Units Ch 12	

EXAMPLES

 ✖ KRS 1 - Floating Production, Storage and Offloading Unit
 Ship Type (C) Disconnectable **Production Import-Export** CHA

✖ KRM 1

✖ KRS 1 - Floating Production and Offloading Unit
 Spar **Production Import-Export** CHA

✖ KRM 1

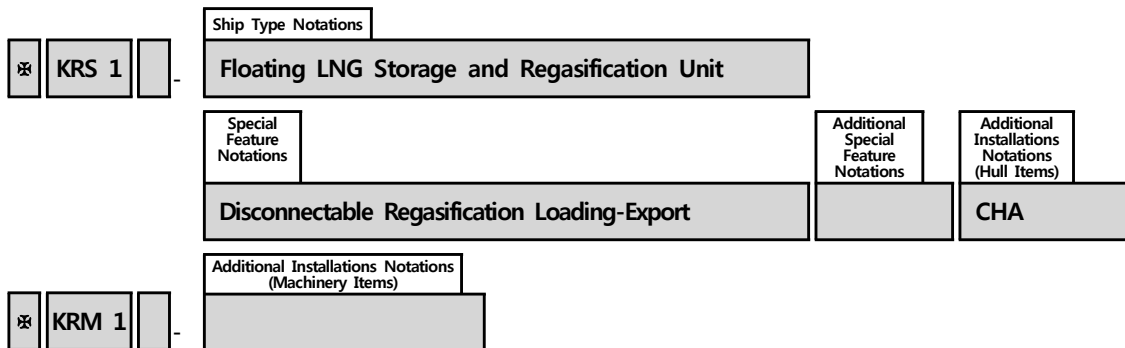
✖ KRS 1 - Floating Storage and Offloading Unit
 Barge Type Disconnectable **Import-Export** CHA

✖ KRM 1

Floating LNG Storage and Regasification Unit

Ship Type Notations	Special Feature Notations	
	Design Aspect	Classed System
Floating LNG Storage and Regasification Unit	(C) Disconnectable	Regasification Loading Export Loading-Export

< Typical Example >



Floating LNG Storage and Regasification Unit

NOTATIONS (Ship Type Notations)

Floating LNG Storage and Regasification Unit

DESCRIPTIONS

Floating LNG Storage and Regasification Unit : to be assigned to units or vessels which are not intended for the transport of cargo, which are positioned at a specific site of the installation permanently or for long periods and fitted with systems for the storage, regasification and offloading of liquified natural gas carried by LNG carriers.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Floating LNG Storage and Regasification Unit	Guidance for Floating Offshore LNG Storage and Regasification Units	Guidance for Floating Offshore LNG Storage and Regasification Units

EXAMPLES

-
- ✧ KRS 1 - **Floating LNG Storage and Regasification Unit**
Disconnectable Regasification Loading-Export CHA
 - ✧ KRM 1
-

Floating LNG Storage and Regasification Unit

NOTATIONS (Special Feature Notations - (C), Disconnectable)

(C)
Disconnectable

DESCRIPTIONS

(C) : shall be assigned when an existing vessel is converted to a floating offshore LNG storage and regasification unit and is classed with the Society.

Disconnectable : shall be assigned for the floating offshore LNG storage and regasification unit that has a propulsion system and a means of disengaging the unit from its mooring and riser systems.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
(C)	Guidance for Floating Offshore LNG Storage and Regasification Units	-
Disconnectable	Guidance for Floating Offshore LNG Storage and Regasification Units	-

EXAMPLES

 ✕ KRS 1 - Floating LNG Storage and Regasification Unit
 (C) Disconnectable Regasification Loading-Export CHA

✕ KRM 1

✕ KRS 1 - Floating LNG Storage and Regasification Unit
 Disconnectable Regasification Loading-Export CHA

✕ KRM 1

Floating LNG Storage and Regasification Unit

NOTATIONS (Special Feature Notations - Regasification, Loading, Export, Loading-Export)

Regasification
Loading
Export
Loading-Export

DESCRIPTIONS

Regasification : For floating offshore LNG storage and regasification units fitted with the regasification systems, where the whole regasification systems are in compliance with **Guidance for Floating Offshore LNG Storage and Regasification Units Ch 11**, the notation Regasification may be assigned additionally.

Loading : Where the loading systems are in compliance with **Guidance for Floating Offshore LNG Storage and Regasification Units Ch 12**, the notation Loading may be assigned additionally.

Export : Where the export systems are in compliance with **Guidance for Floating Offshore LNG Storage and Regasification Units Ch 12**, the notation Export may be assigned additionally.

Loading-Export : Where the loading and export systems are in compliance with **Guidance for Floating Offshore LNG Storage and Regasification Units Ch 12**, the notation Loading-Export may be assigned additionally.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Regasification	Guidance for Floating Offshore LNG Storage and Regasification Units Ch 11	-
Loading	Guidance for Floating Offshore LNG Storage and Regasification Units Ch 12	-
Export	Guidance for Floating Offshore LNG Storage and Regasification Units Ch 12	
Loading-Export	Guidance for Floating Offshore LNG Storage and Regasification Units Ch 12	

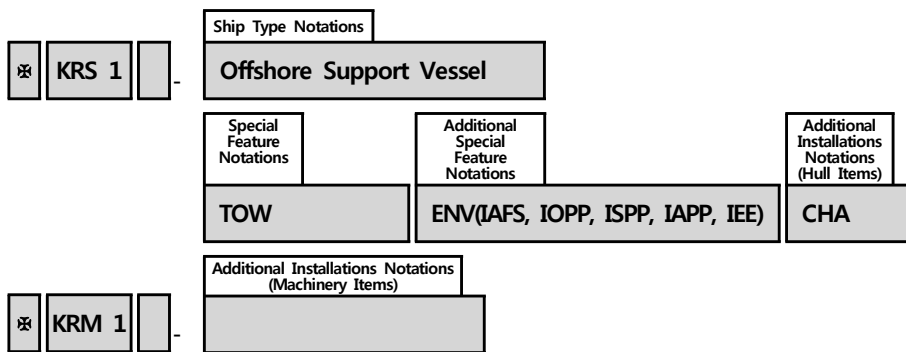
EXAMPLES

-
- ✧ KRS 1 - Floating LNG Storage and Regasification Unit
(C) Disconnectable **Production Loading-Export** CHA
 - ✧ KRM 1
-

Offshore Support Vessel

Ship Type Notations	Special Feature Notations
Offshore Support Vessel	TOW AH FF

< Typical Example >



Offshore Support Vessel

NOTATIONS (Ship Type Notations)

Offshore Support Vessel

DESCRIPTIONS

Offshore Support Vessel : to be assigned to offshore support vessels designed for primarily carrying out intended supporting work such as heavy lift cargo carrying, fire fitting, supply, towing, etc. relating to the offshore structures.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Offshore Support Vessel	Pt 3 ^{1), 2)}	Pt 1 Ch 2 ²⁾
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) The preliminary Guidance for Offshore Support Vessels and/or Pt 7, Ch 8 may be applied.		

EXAMPLES

 ✕ KRS 1 - **Offshore Support Vessel**
 TOW ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA
 ✕ KRM 1

✕ KRS 1 - **Offshore Support Vessel**
 TOW AH FF ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA
 ✕ KRM 1

Offshore Support Vessel

NOTATIONS (Special Feature Notations)

TOW
AH
FF

DESCRIPTIONS

TOW : to be assigned to offshore support vessels carrying out towing works.

AH : to be assigned to offshore support vessels carrying out anchor handling works.

FF : to be assigned to offshore support vessels carrying out fire fighting works.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
TOW	Pt 3 ^{1), 2)}	-
AH	Pt 3 ^{1), 2)}	-
FF	Pt 3 ^{1), 2)}	-
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) The preliminary Guidance for Offshore Support Vessels and/or Pt 7, Ch 8 may be applied.		

EXAMPLES

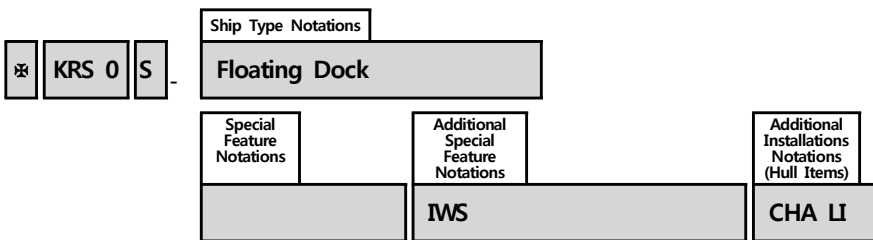
 ✕ KRS 1 - Offshore Support Vessel
TOW ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA
 ✕ KRM 1

 ✕ KRS 1 - Offshore Support Vessel
TOW AH FF ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA
 ✕ KRM 1

Floating Dock

Ship Type Notations	Special Feature Notations
Floating Dock	

< Typical Example >



Floating Dock

NOTATIONS (Ship Type Notations)

Floating Dock

DESCRIPTIONS

Floating Dock : to be assigned to movable docks of which both ends are opened and which are able to control it's draft in large range so that it can be used for the ship's repair, etc. by drawing in a ship into the dock at it's large draft and rising up the ship outside of the water at it's small draft.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Floating Dock	Rules for the Classification of Floating Docks	Rules for the Classification of Floating Docks

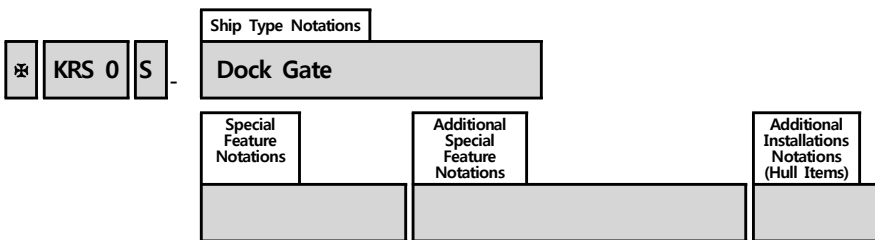
EXAMPLES

⊛ KRS 0S - **Floating Dock**
IWS CHA LI

Dock Gate

Ship Type Notations	Special Feature Notations
Dock Gate	

< Typical Example >



Dock Gate

NOTATIONS (Ship Type Notations)

Dock Gate

DESCRIPTIONS

Dock Gate : to be assigned to flood gates which close the dock.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Dock Gate	Guidance Relating to the Rules for the Classification of Floating Docks, Annex (Guidance for Dock Gate)	Guidance Relating to the Rules for the Classification of Floating Docks, Annex (Guidance for Dock Gate)

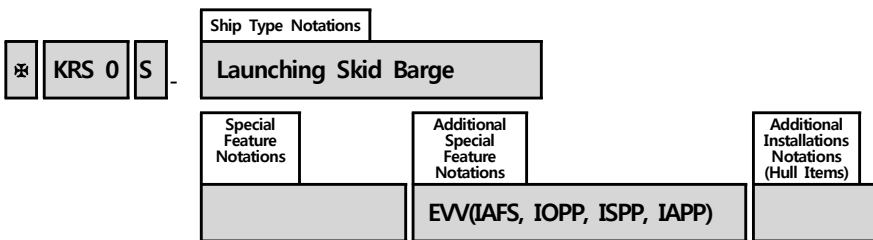
EXAMPLES

⊗ KRS 0S - **Dock Gate**

Launching Skid Barge

Ship Type Notations	Special Feature Notations
Launching Skid Barge	

< Typical Example >



Launching Skid Barge

NOTATIONS (Ship Type Notations)

Launching Skid Barge

DESCRIPTIONS

Launching Skid Barge : to be assigned to floating docks equipped with skid (launching) arrangements(See, Floating Dock).

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Launching Skid Barge	Rules for the Classification of Floating Docks	Rules for the Classification of Floating Docks

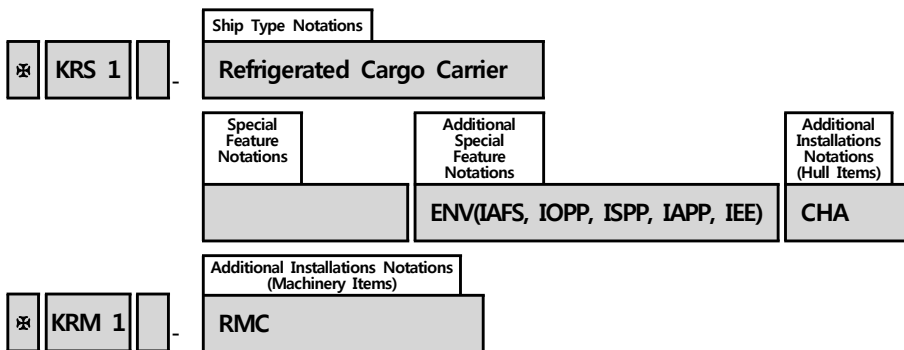
EXAMPLES

※ KRS 0S - **Launching Skid Barge**
ENV(IAFS, IOPP, ISPP, IAPP)

Refrigerated Cargo Carrier

Ship Type Notations	Special Feature Notations
Refrigerated Cargo Carrier	

< Typical Example >



Refrigerated Cargo Carrier

NOTATIONS (Ship Type Notations)

Refrigerated Cargo Carrier

DESCRIPTIONS

Refrigerated Cargo Carrier : to be assigned to ships equipped with the refrigerating installations at the cargo holds for the carriage of frozen cargoes.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Refrigerated Cargo Carrier	Pt 3 ¹⁾ , Pt 9 ²⁾	Pt 1 Ch 2, Pt 9 ²⁾
(Notes)		
1) For small steel ships of which length is less than 90m, Pt 10 shall be applied.		
2) For refrigerating installations, Pt 9 Ch 1 shall be applied.		

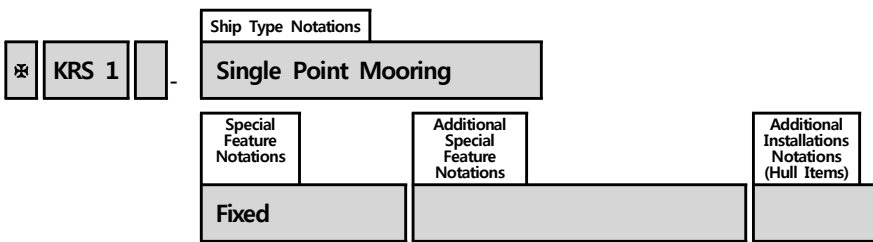
EXAMPLES

-
- ⊗ KRS 1 - **Refrigerated Cargo Carrier**
ENV(IAFS, IOPP, ISPP, IAPP, IEE) CHA
 - ⊗ KRM 1 - RMC
-

Single Point Mooring

Ship Type Notations	Special Feature Notations
Single Point Mooring	Fixed Floating

< Typical Example >



Single Point Mooring

NOTATIONS (Ship Type Notations)

Single Point Mooring

DESCRIPTIONS

Single Point Mooring : to be assigned to the SPM which permits a vessel to weathervane while the vessel is moored to a fixed or floating structure anchored to the seabed by a rigid or articulated structural system or by catenary spread mooring.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Single Point Mooring	Guidances for Single Point Mooring	Guidances for Single Point Mooring

EXAMPLES

※ KRS 1 - **Single Point Mooring**
Fixed

Single Point Mooring

NOTATIONS (Special Feature Notations)

Fixed
Floating

DESCRIPTIONS

Fixed : to be assigned to SPM which is typically supported at the seabed by piles or a gravity based foundation.

Floating : to be assigned to SPM which is generally held in position by anchor leg(s) that transmit mooring forces to the seabed.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Fixed	Guidances for Single Point Mooring	-
Floating	Guidances for Single Point Mooring	-

EXAMPLES

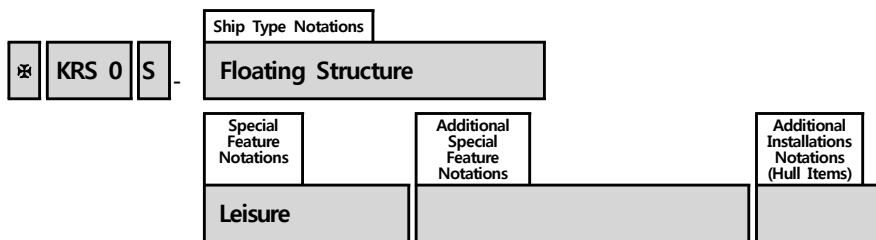
⌘ KRS 1 - Single Point Mooring
Fixed

⌘ KRS 1 - Single Point Mooring
Floating

Floating Structure

Ship Type Notations	Special Feature Notations
Floating Structure	Hotel Restaurant Leisure

< Typical Example >



Floating Structure

NOTATIONS (Ship Type Notations)

Floating Structure

DESCRIPTIONS

Floating Structure : to be assigned to the floating structures(except those permanently fixed on the water), which have a carrying capacity of not less than 13 persons other than employees, such as floating hotel, floating restaurant and floating performing place, etc.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Floating Structure	Guidance for Floating Structure	Guidance for Floating Structure

EXAMPLES

 ✕ KRS 0S - **Floating Structure**
 Leisure

Floating Structure

NOTATIONS (Special Feature Notations)

Hotel
Restaurant
Leisure

DESCRIPTIONS

Hotel : to be assigned to floating structures which are constructed to be used such as a floating hotel.

Restaurant : to be assigned to floating structures which are constructed to be used such as a floating restaurant.

Leisure : to be assigned to floating structures which are constructed to be used such as a floating performing place.

REQUIREMENTS / RULE REFERENCES

Notations	Design	Survey
Hotel	Guidance for Floating Structure	-
Restaurant	Guidance for Floating Structure	-
Leisure	Guidance for Floating Structure	-

EXAMPLES

 ✕ KRS 0S - Floating Structure
Hotel

 ✕ KRS 0S - Floating Structure
Restaurant

 ✕ KRS 0S - Floating Structure
Leisure



CHAPTER 3 ADDITIONAL SPECIAL FEATURE NOTATIONS

The following Additional Special Feature Notations are to be appended to ships complying with the relevant requirements. The Additional Special Feature Notations are to be located in the order or the following table under Service Restriction Notations of Hull after Special Feature Notations regardless whether they are hull items or machinery items.(See Ch 1, 2 (6))

Additional Special Feature Notation	Relevant Requirements	
SeaTrust (DSA1, DSA2, FSA1, FSA2, FSA3, HCM)	to ships which are constructed through applying a direct structure, fatigue assessment and hull construction monitoring requirements specified in Pt 3, Annex 3-2 to 3-4 of the Guidance. However, SeaTrust(DSA1, DSA2, FSA1, FSA2, FSA3) shall not be assigned for ships with (CSR) notation.	
IA Super	to ships where IA Super Class Ice Strengthening specified in Pt 3, Ch 20 of the Rules is applied.	
IA	to ships where IA Class Ice Strengthening specified in Pt 3, Ch 20 of the Rules is applied.	
IB	to ships where IB Class Ice Strengthening specified in Pt 3, Ch 20 of the Rules is applied.	
IC	to ships where IC Class Ice Strengthening specified in Pt 3, Ch 20 of the Rules is applied.	
ID	to ships where ID Class Ice Strengthening specified in Pt 3, Ch 20 of the Rules is applied.	
PC1, PC2, PC3, PC4, PC5, PC6, PC7	to ships comply with polar class specified in Pt 3, Ch 21 of the Guidance.	
PL10, Icebreaker PL10, PL20, Icebreaker PL20, PL30, Icebreaker PL30	to ships comply with POLAR class specified in Pt 3, Ch 22 of the Guidance.	However, arctic class ships intended for special services where intermediate ice condition value are relevant may, upon special consideration, be given intermediate notations(e.g. PL25).
ICE05, Icebreaker ICE05, ICE10, Icebreaker ICE10, ICE15, Icebreaker ICE15	to ships comply with ICE class specified in Pt 3, Ch 22 of the Guidance.	The design ambient air temperature, the maximum operational speed and/or the maximum amidships draught may be assigned, if applicable, in accordance with Pt 3, Ch 22 of the Guidance, and the design ambient air temperature shall be assigned as DAT(-x°C).
FH	to ships where the requirements regarding longitudinal strength of hull girder in flooded condition, evaluation of allowable hold loading and evaluation of scantlings of corrugated transverse watertight bulkheads for bulk carriers specified in Pt 7, Ch 3, Sec 10 to Sec 12 of the Rules are applied.	
IWS	to ships where an In-water Survey, in lieu of the Docking Survey, is desired according to the requirement in Pt 1, Ch 2, 604. of the Rules and complying with the requirements specified in Pt 1, Ch 2, 604. 3 (8) of the Rules.	
CoC	to ships where an Measure of Corrosion Control specified in Pt 3, Ch 1, 802. of the Rules is applied.	
ERS	to ships where classed with the Emergency Response Service System of the Society.	
CDG	to ships comply with the requirements specified in Pt 8, Ch 5, Sec 2 of the Rules.	
Grab	to ships where cargo holds are protected from loading/discharge equipment in accordance with the requirements specified in Pt 7, Annex 7-7, 2 of the Guidance.	
PCP	to ships where the cargo oil pipings are protected according to the requirements specified in Pt 7, Ch 1, 1002. 4 of the Guidance.	

Additional Special Feature Notation	Relevant Requirements
<p style="text-align: center;">ENV (IBWM, IAFS, IOPP, ISPP, IGPP, IAPP, VEC-1, VEC-2, VEC-L, IIM, IEE)</p>	<p>to ships where IAFS Certificate/Statement of Compliance, IBWM Certificate/Statement of Compliance, IOPP Certificate, ISPP Certificate, IGPP Certificate, IAPP Certificate, VEC Statement of Compliance-1, VEC Statement of Compliance-2, IIM Certificate/Statement of Compliance or IEE Certificate/Statement of Compliance have been issued relating to the environmental safety. However, the notations in the bracket may be assigned one or a combination of them as applicable. (For example, ENV(IBWM, IAFS) indicates that the ship has IBWM Certificate/Statement of Compliance and IAFS Certificate/Statement of Compliance) For ships having both VEC Statement of Compliance-1 and VEC Statement of Compliance-2, only VEC-2 shall be assigned and VEC-1 shall not be assigned. Among the ships having VEC Statement of Compliance-2, VEC-L shall be assigned, instead of VEC-2, to ships comply with the additional requirements also for Lightering Operation. However, at the request of the Owner, BWMP(T, F, S, D) may be assigned instead of IBWM to ships which have no IBWM Statement of Compliance, until the International Convention for the Control and Management of Ship's Ballast Water and Sediments has entered into force, where the requirements specified in Pt 9, Ch 7 of the Rules 2007 are complied.</p> <p><NOTES> to be appended to ships having the relevant International Convention Certificate/Statement of Compliance after conventional survey of the Society, and the relevant international conventions/standards for each International Convention Certificate/Statement of Compliance are as follows:</p> <ul style="list-style-type: none"> - IBWM Certificate/Statement of Compliance: International convention for the control and management of ship's ballast water and sediments(BWM Convention) (International Ballast Water Management Certificate/Statement of Compliance) - IAFS Certificate/Statement of Compliance: International convention on the control of harmful anti-fouling systems on ships(AFS Convention) (International Anti-Fouling System Certificate/Statement of Compliance) - IOPP Certificate: International convention for the prevention of pollution from ships, 1973(MARPOL) Annex 1 (International Oil Pollution Prevention Certificate) - ISPP Certificate: International convention for the prevention of pollution from ships, 1973(MARPOL) Annex 4 (International Sewage Pollution Prevention Certificate) - IGPP Certificate: International convention for the prevention of pollution from ships, 1973(MARPOL) Annex 5 (Document of Compliance for International Garbage Pollution Prevention) - IAPP Certificate: International convention for the prevention of pollution from ships, 1973(MARPOL) Annex 6 (International Air Pollution Prevention Certificate) - VEC Statement of Compliance-1: IMO Res.MSC/Circ.585 for vapor emission control system (Statement of Compliance for Vapor Emission Control System) - VEC Statement of Compliance-2: USCG 46 CFR Part 39 for vapor emission control system (Statement of Compliance for Vapor Emission Control System) - IIM Certificate/Statement of Compliance: Hong Kong international convention for the safe and environmentally sound recycling of ships(Ship Recycling Convention) (International Certificate/Statement of Compliance on Inventory of Hazardous Materials) - IEE Certificate/Statement of Compliance: International convention for the prevention of pollution from ships, 1973(MARPOL) Annex 6 (International Energy Efficiency Certificate)

Additional Special Feature Notation	Relevant Requirements
PSPC	to ships comply with the Performance Standard for Protective Coatings specified in Pt 3, Ch 1, 803. of the Guidance.
BLU	to ships comply with the additional requirements for the safe loading and unloading specified in Pt 3, Annex 3-1, 3 (3) of the Guidance.
EDD	to ships carrying out the Extended Dry-docking Interval System specified in Pt 1, Ch 2, 605. of the Rules.
OHIMP	to ships comply with the Owner's Hull Inspection and Maintenance Program specified in Pt 1, Annex 1-13 of the Guidance.
GreenShip1, GreenShip2 GreenShip3, GreenShip4	to ships certified in accordance with the GreenShip Rating Scheme of the Society. <NOTE> Department in charge : Environment-Friendly System Research Team
(LC, LC-G, HSLC - SA0, SA1, SA2, SA3, SA4, SA5)	LC : to Light Craft as specified in Pt 1, Ch 1, 103. (1) of the Rules for the Classification of High Speed and Light Crafts. LC-G : to Light Craft as specified in Annex 1-2 of the Guidance Relating to the Rules for the Classification of High Speed and Light Crafts, 1998 edition. HSLC : to High Speed and Light Craft as specified in Pt 1, Ch 1, 103. (2) of the Rules for the Classification of High Speed and Light Crafts. SA0, SA1, SA2, SA3, SA4, SA5 : The service restriction notation specified in Pt 3, Ch 1, 121. of the Rules for the Classification of High Speed and Light Crafts.
Passenger WIG-A, Passenger WIG-B, General WIG-A, General WIG-B	to Passenger WIG ships or General WIG ships according to the type of WIG ship specified in Ch 1, 104. of the Guidance for WIG Ships.
GFS (dual fuel, gas only)	to ships comply with the requirements of the Guidance for Gas-fuelled Ships in which natural gas-fuelled engine installations are installed, other than ships carrying natural gas in bulk.
FC, FC-PWR	to ships comply with the requirements of the Guidance for Fuel Cell Systems on board of Ships in which fuel cell systems on board of ships used as auxiliary or main source of power are installed.
WS	to ships where cargo holds are protected with sparrings in accordance with the requirements specified in Pt 4, Ch 6, 201. of the Rule.
RP1, RP2, RP1-S, RP2-S	to ships comply with the additional requirements for the redundant propulsion and steering systems specified in Pt 5, Annex 5-11 of the Guidance.



CHAPTER 4 ADDITIONAL INSTALLATION NOTATIONS

The following Additional Installations Notations may be appended to ships complying with the relevant requirements in the order of following table. (See Ch 1, 2 (7))

Additional Special Feature Notation		Relevant Requirements
Hull Items	HMS, HMS1	to ships where the Hull Monitoring System specified in Pt 9, Ch 6 of the Rules is provided onboard.
	CHA	to ships where the Cargo Handling Appliances specified in Pt 9, Ch 2 of the Rules are provided onboard.
	LI	to ships where the Loading Instrument on Stability specified in Pt 1, Ch 1, 307. of the Rules or the Longitudinal Strength Loading Instrument specified in Pt 3, Ch 3, 104. of the Rules is provided onboard.
	EQ-SPM	to ships where the Equipment Employed in the Mooring of Ships at Single Point Mooring specified in Pt 4, Ch 10, 101. 3 of the Rules is provided onboard.
	PKS	to offshore units where the Position Keeping System specified in Ch 4, Sec 6 of the Rules for the Classification of Mobile Offshore Units or Ch 3, 415. of the Rules for Mobile Offshore Drilling Units is provided onboard.
	SUR, BOU, SAT	to ships where the diving systems specified in Pt 9, Ch 7, 602. 1 of the Rules.

	Additional Special Feature Notation	Relevant Requirements
Machinery Items	UMA	to ships where the Operating Systems for Periodically Unattended Machinery Spaces specified in Pt 9, Ch 3 of the Rules are provided onboard.
	UMA1, UMA2, UMA3	to ships where the Automation Equipment specified in Pt 9, Ch 3 of the Rules is provided onboard.
	CMA	to ships where the Centralized Monitoring and Control System for Main Propulsion and Essential Auxiliary Machinery specified in Pt 9, Ch 3 of the Rules is provided onboard.
	STCM	to ships where the Stern Tube Condition Monitoring System specified in Pt 1, Ch 2, 704. of the Rules is provided onboard.
	DPS(0), DPS(1), DPS(2), DPS(3)	to ships where the Dynamic Positioning System specified in Pt 9, Ch 4 of the Rules is provided onboard.
	NBS, NBS1, NBS2	to ships where Bridge Layouts and Bridge Working Environments, Navigation Equipments, Accident Prevention Systems and Bridge Work Assist Systems specified in Pt 9, Ch 5 of the Rules are provided.
	HVSC	to ships where the High Voltage Shore Connection Systems specified in Pt 9, Ch 8 of the Rules are provided onboard.
	IGS	to ships where the Inert Gas Systems specified in Pt 8, Ch 2, 104. 5 of the Rules are provided onboard.
	COW	to ships where the Crude Oil Washing System specified in "Annex I of International Convention for the Prevention of Pollution from Ships, 1973 and Protocol of 1978 relating to the International Convention for the Prevention of Pollution from Ships, 1973(MARPOL 73/78)" are provided onboard.
	RMC	to ships where the Cargo Refrigerating Installations specified in Pt 9, Ch 1 of the Rules are provided onboard.
	ns-NH3	to fishing vessels where ammonia refrigerating installations are installed in machinery spaces in accordance with the requirements specified in Pt 5, Ch 6, 1201. 1 (14) (B) of the Guidance.
	GCU	to liquefied natural gas carriers where the Gas Combustion Unit for disposal of boil-off gas specified in Pt 7, Ch 5, 701. 1 of the Guidance is provided onboard.
	Reliquefaction	to liquefied natural gas carriers where the Reliquefaction Plant of methane specified in Pt 7, Ch 5, 702. 2 of the Guidance is provided onboard.
	DFDE	to liquefied natural gas carriers where the Dual-fuel Diesel Engine utilizing methane gas specified in Pt 7, Ch 5, 1606. of the Guidance is provided onboard.
	Drilling System	to ships where the Drilling System specified in Annex 1 of the Rules for Mobile Offshore Drilling Units is provided onboard.

