

Overview

The following listing of ABS Classification notations is comprised of the following headers:

Common Notations and Symbols

The notations and symbols contained under this heading may be applicable to any type of vessel or offshore installation, as indicated by the referenced Rules and Guides (which are mostly available for viewing at <http://www.eagle.org>).

These notations and symbols pertain to hull structure, analyses, equipment, machinery, automation, surveys, etc.

Other Notations for Specific Applications – Bulk Carrier, Container Carrier, Offshore Services, etc.

Following the common notations are groupings by type of vessel or offshore service. The notations contained under the heading for each vessel type are applicable only to that type of vessel.

The types of vessels are organized starting with those that are covered by the *Rules for Building and Classing Steel Vessels* and associated Guides specific to the vessel type and are followed by those vessels covered by the following Rules and Guides:

- *Rules for Building and Classing Steel Vessels Under 90 meters (295 feet) in Length*
- *Rules for Building and Classing Offshore Support Vessels*
- *Guide for Building and Classing International Naval Ships*
- *Rules for Building and Classing High-Speed Craft*
- *Rules for Building and Classing High-Speed Naval Craft*
- *Guide for Building and Classing Yachts*
- *Rules for Building and Classing Steel Barges*
- *Rules for Building and Classing Steel Vessels for Service on Rivers and Intracoastal Waterways*
- *Rules for Building and Classing Underwater Vehicles, Systems and Hyperbaric Facilities*
- *Offshore Service notations, as specified within the referenced Offshore Rules and Guides.*

The example class notations given under “Remarks” on each page are intended only to show the usage of the particular notation on that page and are not necessarily all-inclusive for the particular application/services shown.

Revisions

The following Table lists newly-added Class Notations, the category under which they fall in the list, and the date they were added:

<i>Notation</i>	<i>Category</i>	<i>Date Added</i>
Ice Class E0	Common Notations and Symbols	29 Jan 2015
LNG Ready	Common Notations and Symbols	
MLC-ACCOM(SPS)	Common Notations and Symbols	
MLC-ACCOM(WB)	Common Notations and Symbols	
COAST GUARD	International Naval Ships	
COASTAL NAVAL CRAFT	International Naval Ships	
GOVERNMENT SPECIAL PURPOSE	International Naval Ships	
NAVAL COMBATANT	International Naval Ships	
NAVAL CRAFT	International Naval Ships	
NAVAL FORCE PROJECTION	International Naval Ships	
NAVAL SUPPORT	International Naval Ships	
RIVERINE NAVAL CRAFT	International Naval Ships	
Passenger Yachting Service	Yachting Service	
Yachting Service R	Yachting Service	
Cable Laying	Barges – Ocean Services	
Crane CRC	Barges – Ocean Services	
ITB	Barges – Ocean Services	
OSR-S1	Barges – Ocean Services	
OSR-C1	Barges – Ocean Services	
OSR-S2	Barges – Ocean Services	
OSR-C2	Barges – Ocean Services	
Pipe Laying	Barges – Ocean Services	

Common Notations and Symbols

SYMBOL



DESCRIPTION

The Maltese Cross, ☒, symbol is assigned to vessels and offshore units for which the hull construction and/or the manufacture of its machinery and components and any associated required testing, as applicable, is carried out under ABS survey. For a vessel or offshore unit constructed under survey of another recognized Classification Society or Authority, the Maltese Cross, ☒, symbol will be omitted from the hull and/or machinery classification notations.

REFERENCES

1-1-3/1 and 1-1-3/9 of the *Rules for Conditions of Classification (Part 1)*

1-1-3/1 and 1-1-3/7 of the *Rules for Conditions of Classification – Offshore Units and Structures (Part 1)*

1-1-3/1 and 1-1-3/5 of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Classification symbol whose meaning is the same within all ABS Rules and Guides.

Example:

	Vessels have been built under ABS survey	Vessels have not been built under ABS survey
Hull and Equipment:	☒ A1	A1
Machinery, boiler and systems	☒ AMS	AMS
Shipboard automation systems	☒ ACCU	ACCU

Common Notations and Symbols

SYMBOLS

✠ A1

DESCRIPTION

A1 is a classification symbol that, together with the Maltese Cross ✠ symbol, indicates compliance with the Hull requirements of the ABS Rules or their equivalent for unrestricted ocean service and survey by ABS during construction of the vessel. The symbols ✠ **A1** may be followed by appropriate vessel type notation such as **Oil Carrier, Bulk Carrier, Fuel Oil Carrier, Ore Carrier, Passenger Vessel, Vehicle Carrier, Container Carrier, Towing Vessel, Refrigerated Cargo Carrier, Liquefied Gas Carrier**, etc. The Maltese Cross ✠ symbol will be omitted for vessels that have not been built under survey by ABS.

REFERENCES

1-1-3/1 and 1-1-3/9 of the *Rules for Conditions of Classification (Part 1)*

1-1-3/1 and 1-1-3/7 of the *Rules for Conditions of Classification – Offshore Units and Structures (Part 1)*

1-1-3/1 and 1-1-3/5 of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Classification symbols whose meaning is the same within all ABS Rules and Guides as regards to indicating compliance with hull/structural related requirements.

Common Notations and Symbols

SYMBOL



DESCRIPTION

Circle E, , is a classification symbol that signifies that the equipment of anchors and chain cables of the vessel is in compliance with the requirements of the Rules, or with the requirements corresponding to the service limitations noted in the vessel's classification which have been specifically approved for the particular service. Compliance with  requirements is a condition of classification for vessels, for which the equipment number (EN) calculated in accordance with 3-5-1/3.1 of the *ABS Rules for Building and Classing Steel Vessels* is equal to or greater than 205.

Vessels intended for towing operation or vessels for which EN is less than 205 are not required to have  as a condition of classification. (See 3-5-1/7 of the *ABS Rules for Building and Classing Steel Vessels Under 90 meters (295 feet) in Length*.)

For self-propelled mobile offshore units, symbol  is mandatory and all anchoring (temporary mooring) equipment is to be fabricated and tested in presence of and to the satisfaction of the attending Surveyor, and certified in accordance with 6-1-10/Table 1 of the *ABS Rules for Building and Classing Mobile Offshore Drilling Units*.

For non-propelled mobile offshore units fitted with an anchoring (temporary mooring) equipment, if the optional symbol  is requested, equipment is to be fabricated and tested in presence of and to the satisfaction of the attending Surveyor, and certified in accordance with 6-1-10/Table 1 of the *ABS Rules for Building and Classing Mobile Offshore Drilling Units*.

REFERENCES

1-1-3/11 of the *Rules for Conditions of Classification (Part 1)*

1-1-3/1.9 of the *Rules for Conditions of Classification – Offshore Units and Structures (Part 1)*

1-1-3/9 of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Classification symbol which is applicable for temporary mooring of vessels within a harbor or other area of sheltered water

Example –  A1, Oil Carrier, ...

Common Notations and Symbols

NOTATION

✕ **A1** (*special purpose*)

DESCRIPTION

The symbols ✕ **A1** followed by a Notation of the trade for which specific arrangements and scantlings have been approved (i.e. Ferry Service, Dredging, Fishing, etc.) and to which the special purpose vessels have been built to the satisfaction of the ABS Surveyors.

REFERENCES

1-1-3/5 of the *Rules for Conditions of Classification (Part 1)*

1-1-3/3 of the *Rules for Conditions of Classification – Offshore Units and Structures (Part 1)*

REMARKS

Example – ✕ **A1, Ferry Service...**

✕ **A1, Dredging...**, etc.

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Common Notations and Symbols

NOTATION

✱ A1 (*geographical limitations*)

DESCRIPTION

The symbols ✱ A1 followed by a notation of the service limitations is to be assigned to vessels, which have been built to the satisfaction of ABS Surveyors to specific requirements for restricted service, which have been approved by the ABS Classification Committee for the particular service. (e.g. **Gulf of Mexico, Philippine Inter-Island Service, etc.**)

REFERENCES

1-1-3/7 of the *Rules for Conditions of Classification (Part 1)*

1-1-3/1.9 of the *Rules for Conditions of Classification – Offshore Units and Structures (Part 1)*

1-2-2/7.19 of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Example – ✱ A1, Ferry, **Inter-Island Service**, Ⓔ...

Common Notations and Symbols

NOTATION

⊠ AMS

DESCRIPTION

AMS is a classification notation that, together with the Maltese Cross ⊠ symbol, indicates that a vessel's machinery, boilers and systems have been constructed and installed under ABS survey in accordance with the requirements of the ABS Rules. The ⊠ **AMS** notation is intended for all new construction of ABS classed self-propelled vessels and offshore units.

REFERENCES

1-1-3/13 of the *Rules for Conditions of Classification (Part 1)*

1-1-3/25 of the *Rules for Conditions of Classification – Offshore Units and Structures (Part 1)*

1-1-3/11 of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Classification notation whose meaning is the same within all ABS Rules and Guides as regards to indicating compliance with machinery related requirements on self-propelled vessels and offshore units.

Example – ⊠ A1, Oil Carrier, ⊕, ⊠ **AMS**...

Common Notations and Symbols

NOTATION

AMS

DESCRIPTION

The **AMS** notation, without the Maltese Cross ☒ symbol, is assigned to self-propelled vessels and offshore units for which the machinery, boilers and systems have not been constructed and installed under ABS survey, but are found satisfactory with regard to ABS requirements.

REFERENCES

1-1-3/15 of the *Rules for Conditions of Classification (Part 1)*

1-1-3/13 of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Classification notation whose meaning is the same within all ABS Rules and Guides as regards to indicating compliance with machinery related requirements on self-propelled vessels and offshore units.

Example – A1, Oil Carrier, Ⓔ, **AMS**...

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Common Notations and Symbols

NOTATION

⌘ ACC

DESCRIPTION

Automatic Centralized Control (ACC) – This notation is assigned to a vessel having the means to control and monitor the propulsion-machinery space from a continuously manned centralized control and monitoring station installed within or adjacent to, the propulsion machinery space. The Maltese Cross ⌘ symbol signifies that the pertinent automatic or remote control and monitoring systems have been assembled, tested and installed under ABS survey.

REFERENCES

4-1-1/1.5 and 4-9-5/1 of the *Rules for Building and Classing Steel Vessels*

4-1-1/1.5 and 4-9-5/1 of the *Rules for Building and Classing Offshore Support Vessels*

4-1-1/1.5 and 4-9-5/1 of the *Guide for Building and Classing International Naval Ships*

REMARKS

See also ⌘ ACCU

Example – ⌘ A1, Oil Carrier, Ⓔ, ⌘ AMS, ⌘ ACC...

Common Notations and Symbols

NOTATION

⊠ ACCU

DESCRIPTION

Automatic Centralized Control Unmanned (ACCU) – This notation is assigned to a vessel having the means to control and monitor the propulsion-machinery space from the navigation bridge and from a centralized control and monitoring station installed within or adjacent to, the propulsion machinery space. The Maltese Cross ⊠ symbol signifies that the pertinent automatic or remote control and monitoring systems have been assembled, tested and installed under ABS survey.

REFERENCES

4-1-1/1.5 and 4-9-6/1 of the *Rules for Building and Classing Steel Vessels*

4-7-1/1 of the *Rules for Building and Classing Steel Vessels Under 90 Meters (295 Feet) in Length*

4-1-1/1.5 and 4-9-6/1 of the *Rules for Building and Classing Offshore Support Vessels*

4-1-1/1.5 and 4-9-6/1 of the *Guide for Building and Classing International Naval Ships*

4-1-1/1.5 and 4-9-1/3 of the *Rules for Building and Classing High-Speed Naval Craft*

4-7-1/3 of the *Rules for Building and Classing High-Speed Craft*

Great Lakes Bulk Carriers, Aluminum Vessels, Reinforced Plastic Vessels and Yachts will also be eligible for this notation provided the systems and the equipment are in full compliance with the applicable requirements 4-9-6/1 of the *ABS Rules for Building and Classing Steel Vessels* or 4-7-1/1 of the *ABS Rules for Building and Classing Steel Vessels Under 90 meters (295 feet) in Length*.

REMARKS

Example – ⊠ A1, Oil Carrier, Ⓔ, ⊠ AMS, ⊠ ACCU...

Common Notations and Symbols

NOTATION

⌘ ABCU

DESCRIPTION

Automatic Bridge Centralized Control Unmanned (ABCU) – This notation is assigned to a self-propelled vessel which is fitted with the required automation and remote monitoring and control systems to enable the propulsion machinery space to be periodically unattended (similar to an **ACCU** classed vessel) and the propulsion control to be effected primarily from the navigation bridge. The Maltese Cross ⌘ symbol signifies that the pertinent automatic or remote control and monitoring systems have been assembled, tested and installed under ABS survey.

REFERENCES

4-7-1/1 of the *Rules for Building and Classing Steel Vessels Under 90 Meters (295 Feet) in Length*

4-1-1/1.5 and 4-9-10/1.1 of the *Rules for Building and Classing Offshore Support Vessels*

4-1-1/1.5 and 4-9-1/3 of the *Rules for Building and Classing High-Speed Naval Craft*

4-7-1/3 of the *Rules for Building and Classing High-Speed Craft*

Aluminum Vessels, Reinforced Plastic Vessels and Yachts will also be eligible for this notation provided the systems and the equipment are in full compliance with the applicable requirements 4-7-1/1 of the *ABS Rules for Building and Classing Steel Vessels Under 90 meters (295 feet) in Length*.

REMARKS

This notation was available for unrestricted service large vessels, greater than 90 meters in length, whose signed contracts were made between owners and shipbuilder until 31 December 1999. After this date, the **ABCU** notation was terminated for new construction of these large vessels whose automation system arrangements are primarily in accordance with the **ACCU** requirements.

Example – ⌘ A1, Offshore Support Vessel, Ⓢ, ⌘ AMS, ⌘ ABCU...

Common Notations and Symbols

NOTATION

Annual Survey

DESCRIPTION

This notation is assigned to vessels for which all of the requirements of Special Periodical Survey – Hull, except for tank testing, are required each year for the first four years of each five-year cycle. At the fifth year, a complete Special Periodical Survey – Hull, including tank testing is required.

REFERENCES

7-2-1/1 of the *Rules for Survey After Construction (Part 7)*

REMARKS

Example – ⚡ A1, HSC Crewboat, Ⓢ, ⚡ AMS, **Annual Survey...**

Common Notations and Symbols

NOTATION

⌘ APS

DESCRIPTION

This notation is assigned to a self-propelled vessel fitted with athwartship thrusters intended to assist in the maneuvering of the vessel. The Maltese Cross ⌘ symbol signifies that compliance with these Rules was verified by ABS during construction of the vessel. This includes survey of the machinery at the manufacturer's plant (where required), during installation on board the vessel; and during trials.

REFERENCES

4-1-1/1.5 and 4-3-5/1.3.1 of the *Rules for Building and Classing Steel Vessels*

4-1-1/1.5 and 4-3-5/1.3.1 of the *Rules for Building and Classing Offshore Support Vessels*

4-1-1/1.5 and 4-3-5/1.3.1 of the *Guide for Building and Classing International Naval Ships*

Steel Vessels Under 90 meters (295 feet) in Length, Mobile Offshore Drilling Units, Steel Vessels for Service on Rivers and Intracoastal Waterways, Aluminum Vessels, Reinforced Plastic Vessels, High-Speed Naval Craft, High-Speed Craft, and Yachts will also be eligible for this notation provided the systems and the equipment are in full compliance with the applicable requirements 4-3-5/1.3.1 of the *ABS Rules for Building and Classing Steel Vessels*

REMARKS

Example – ⌘ A1, Container Carrier, Ⓔ, ⌘ AMS, ⌘ ACCU, ⌘ **APS**, SH, SHCM...

...

Common Notations and Symbols

NOTATION

AT(hull girder component + additional thickness)

DESCRIPTION

Additional Thickness (AT) – This notation is assigned to all conventional type vessels and to floating production installations where the vessel or installation incorporates additional plate thickness above the required scantlings. The notation will be followed by the description of the major hull girder component(s) that has the additional thickness. It will also include a number to indicate the magnitude of the additional thickness (rounded to the nearest 0.5 mm) that has been applied, i.e., **AT(DK+0.5)**.

The major structural components are defined as follows:

DK	Upper deck (including stringer plate)
BS	Bottom shell (including bilge)
IB	Inner-bottom
SS	Side shell (including shear strake)
IS	Inner skin (including “hopper” sloping plating)
LB	Longitudinal bulkheads other than the inner skin
TB	Transverse Bulkhead

REFERENCES

1-1-2/5.13 of the *Rules for Building and Classing Floating Production Installations*

2-1/3.15 of the *Guide for Building and Classing Floating Offshore Liquefied Gas Terminals*

Steel Vessels will also be eligible for this notation for vessels incorporating additional plate thicknesses above the required scantlings.

REMARKS

Example – ✕ A1, Floating Offshore Installation, ✕ AMS, **AT(BS+0.5)**...

Common Notations and Symbols

NOTATION

BWE

DESCRIPTION

Ballast Water Exchange (BWE) – This notation is assigned to vessels designed, constructed, and surveyed in accordance with the *ABS Guide for Ballast Water Exchange*.

Vessels which have not been constructed under survey in accordance with the requirements of this Guide may obtain the optional **BWE** notation, provided the vessel's arrangements have been determined to comply with the design and construction criteria contained in this Guide. The operation of the ballast water exchange system is to be demonstrated to ABS, or documentation confirming the successful performance of ballast water exchange for a period of one year is to be submitted to ABS.

This notation is applicable to vessels of any type operating in the aquatic environment and includes submersibles, floating craft, floating platforms, Floating Storage Units (FSUs), and Floating Production Storage and Offloading Units (FPSOs).

REFERENCES

1-4/1 of the *Guide for Ballast Water Exchange*

REMARKS

Example – ✕ A1, Oil Carrier, ⓘ, ✕ AMS, ✕ ACCU, SH, SHCM, **BWE**...
A1, Oil Carrier, ⓘ, AMS, **BWE**...

1-4/1 of the *Guide for Ballast Water Exchange*

Common Notations and Symbols

NOTATION

BWT

BWT+

DESCRIPTION

BWT – This notation is assigned to a vessel with a ballast water management system installed onboard that has received a Type Approval Certificate issued by an IMO Member State. The system has been reviewed and installed in compliance with the *ABS Guide for Ballast Water Treatment* and serves to identify a level of compliance with the applicable regulations contained in the IMO “*International Convention for the Control and Management of Ships’ Ballast Water and Sediments, 2004*”, as well as those supporting IMO Guidelines referenced in the Convention addressing the ballast water management systems

BWT+ – This notation will be assigned to a vessel with a ballast water management system installed onboard that, in addition to being type approved by an IMO Member State and evaluated for compliance with the requirements in the *ABS Guide for Ballast Water Treatment*, has been fabricated under survey at the manufacturing facility by an ABS Surveyor.

REFERENCES

Subsection 1/7 of the *Guide for Ballast Water Treatment*

REMARKS

Example – ✕ A1, Oil Carrier, Ⓢ, ✕ AMS, ✕ ACCU, SH, SHCM, **BWT**...
✕ A1, Container Carrier, Ⓢ, ✕ AMS, ✕ ACCU, **BWT+**...

Common Notations and Symbols

NOTATION

CCO(T_{DST} T_{MAT})

CCO(T_{DST} T_{MAT})**+**

CCO-POLAR(T_{DST} T_{MAT})

CCO-POLAR(T_{DST} T_{MAT})**+**

(HR HOURS)

DE-ICE

DESCRIPTION

These notations are assigned to vessels complying with the requirements specified in the *ABS Guide for Vessels Operating in Low Temperature Environments*. The “ T_{DST} T_{MAT} ” in the parentheses refer to the design service temperature and the minimum anticipated temperature in °C for which the vessel’s structure and exposed machinery are designed, respectively. Vessels receiving either the **CCO** or the **CCO-POLAR** notation will also be required to obtain the Class notation **POT**.

CCO(T_{DST} T_{MAT}) – This notation is a basic notation for vessels operating in a low temperature environment and is applicable to vessels designed, constructed, and surveyed in accordance with the *ABS Guide for Vessels Operating in Low Temperature Environments*.

CCO-POLAR(T_{DST} T_{MAT}) – This notation is available for those vessels intended to operate in Polar Regions on a continuous basis.

(HR HOURS) – This notation can be appended to the **CCO-POLAR**(T_{DST} T_{MAT}) notation to indicate that a vessel is equipped and provided with arrangements for emergency power in excess of the minimum 18 hours specified within Regulation II-1/43 of the 1974 Safety of Life at Sea Convention (SOLAS) and 4-8-2/5.5.2 through 4-8-2/5.5.9 of the *ABS Rules for Building and Classing Steel Vessels*. This notation would be expressed with the designation **HR** in parentheses with the total number of hours.

+ – Vessels may have the **+** appended to the notation to indicate the placement of additional equipment onboard for the crew and specific low temperature environment training for the crew as per Sections 8 and 9 of the *ABS Guide for Vessels Operating in Low Temperature Environments*.

DE-ICE is a notation available for vessels occasionally operating in low temperatures subject to ice accretion. The requirements in Section 10 of the *ABS Guide for Vessels Operating in Low Temperature Environments* are applicable to vessels seeking this optional notation.

These notations supersede the **CCO-HR(TEMP)** and **CCO-HR(TEMP)+** notations for vessels contracted for construction after 1 August 2010.

REFERENCES

Subsection 1/3 of the *Guide for Vessels Operating in Low Temperature Environments*

REMARKS

See Part 6, Chapter 1 of the *ABS Rules for Building and Classing Steel Vessels* for the notations for ice strengthening and their requirements.

Example – ✕ A1, Oil Carrier, Ice Class A0, Ⓔ, ✕ AMS, ✕ ACCU, **CCO(–18, –30)...**
✕ A1, Oil Carrier, Ice Class A0, Ⓔ, ✕ AMS, ✕ ACCU, **CCO(–18, –30)+...**
✕ A1, Oil Carrier, Ice Class PC1, Ⓔ, ✕ AMS, ✕ ACCU, **CCO-POLAR(–30, –50)...**
✕ A1, Oil Carrier, Ice Class PC1, Ⓔ, ✕ AMS, ✕ ACCU, **CCO-POLAR(–30, –50)+...**
✕ A1, Oil Carrier, Ice Class PC1, Ⓔ, ✕ AMS, ✕ ACCU, **CCO-POLAR(–30, –50) (HR24)...**
✕ A1, Oil Carrier, Ice Class PC1, Ⓔ, ✕ AMS, ✕ ACCU, **CCO-POLAR(–30, –50) (HR24)+...**
✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **DE-ICE...**

Common Notations and Symbols

NOTATION

CGMV

CGMV(I)

DESCRIPTION

Cargo Gear on Merchant Vessels (CGMV) – This notation signifies that the vessel's or unit's installed cargo gear is designed and constructed in accordance with Chapter 3 of the *ABS Guide for Certification of Lifting Appliances*.

Cargo Gear on Merchant Vessels (IACS) (CGMV(I)) – This notation signifies that the vessel or unit has been issued an ABS Register of Lifting Appliances based upon an existing register issued by another IACS Society.

REFERENCES

3-1/1 of the *Guide for Certification of Lifting Appliances*

REMARKS

Example – ✕ A1, Bulk Carrier, BC-B (maximum cargo density: 1.7 tonnes/m³), ⓔ, ✕ AMS, ✕ ACCU, SH, SHCM, **CGMV**...

A1, Bulk Carrier, BC-B (maximum cargo density: 1.7 tonnes/m³), ⓔ, AMS, ACCU, **CGMV(I)**...

Common Notations and Symbols

NOTATION

CGSU

CGSU(I)

DESCRIPTION

Cargo Gear Self Unloading (CGSU) – This notation signifies that the installed self-unloading cargo gear on a vessel or unit for services on the Great Lakes is designed and constructed in accordance with Chapter 4 of the *ABS Guide for Certification of Lifting Appliances*.

Cargo Gear Self Unloading (IACS) (CGSU(I)) – This notation signifies that the vessel or unit has been issued an ABS Register of Lifting Appliances based upon an existing register issued by another IACS Society.

REFERENCES

4-1/1 of the *Guide for Certification of Lifting Appliances*

REMARKS

Example – ✕ A1, Bulk Carrier Great Lakes Service, BC-B (maximum cargo density: 1.7 tonnes/m³), ⓘ, ✕ AMS, ✕ ACCU, SH, SHCM, **CGSU**...

A1, Bulk Carrier, BC-B (maximum cargo density: 1.7 tonnes/m³), ⓘ, AMS, ACCU, **CGSU(I)**...

Common Notations and Symbols

NOTATION

CPS

DESCRIPTION

Coating Performance Standard (**CPS**) – This notation signifies that the protective coatings used on a vessel's tanks and void spaces comply with the *ABS Guide for the Class Notation Coating Performance Standard (CPS)*.

Compliance with the Guide is mandatory for ABS-classed Common Structural Rules (CSR) vessels contracted for construction between the builder and the owner on or after 8 December 2006. For all other ABS-classed vessels, the **CPS** Notation is optional and subject to owner's request.

The Guide is based on the criteria contained in the IMO PSPC-SWBT as interpreted by IACS UIs SC223, SC227 and SC226.2. In applying IACS UI SC223 for ABS-classed vessels, "Administration" is to be read to be "ABS".

It is a prerequisite for receiving the ABS notation **CPS** that the applicable requirements of the following are fully complied with:

- i) SOLAS Regulation Chapter II-1/3-2, Consolidated Edition 2004, amended by IMO Resolution MSC.216(82)
- ii) IMO Resolution MSC.215(82) Performance Standard for Protective Coatings for Dedicated Seawater Ballast Tanks in All Types of Ships and Double-Side Skin Spaces of Bulk Carriers (IMO PSPC-SWBT)
- iii) IACS UIs SC223, SC227 and SC226.2: IACS Unified Interpretations For Application of SOLAS Regulation II-1/3-2 Performance Standard for Protective Coatings(PSPC-SWBT) for Dedicated Seawater Ballast Tanks in All Types of Ships and Double-side Skin Spaces of Bulk Carriers, adopted by Resolution MSC.215(82)
- iv) IACS UR Z17, IACS Procedural Requirements for Service Suppliers

REFERENCES

- 1.1, 1.3 of the *Guide for the Class Notation Coating Performance Standard (CPS)*

REMARKS

Example – ✕ A1, Bulk Carrier, BC-B (maximum cargo density: 1.7 tonnes/m³), Ⓔ, ✕ AMS, ✕ ACCU, SH, SHCM, **CPS**...

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Common Notations and Symbols

NOTATION

CRC

CRC(I)

DESCRIPTION

Crane Register Certificate (**CRC**) – This notation signifies that the vessel's or unit's crane(s) is designed and constructed in accordance with Chapter 2 of the *ABS Guide for Lifting Appliances*. A Register of Lifting Appliances attesting to compliance with the requirements of the above Guide will be issued at the request of the Owner or builder upon satisfactory completion of plan review, in-plant survey, installation and testing of the crane to the satisfaction of the attending Surveyor. Alternatively, for vessels changing class to ABS and having a Register issued by a recognized classification society or recognized cargo gear association, suitable evidence of previous design review is to be submitted.

Crane Register Certificate (IACS) (**CRC(I)**) – This notation signifies that the vessel or unit has been issued an ABS Register of Lifting Appliances based upon an existing register issued by another IACS Society.

REFERENCES

2-1/1 and 2-2/13 of the *Guide for Certification of Lifting Appliances*

REMARKS

Example – ✕ A1, Bulk Carrier, BC-B (maximum cargo density: 1.7 tonnes/m³), Ⓔ, ✕ AMS,
✕ ACCU, SH, SHCM, **CRC**...

A1, Bulk Carrier, BC-B (maximum cargo density: 1.7 tonnes/m³), Ⓔ, AMS, ACCU,
CRC(I)...

Common Notations and Symbols

NOTATION

✠ DPS-0

DESCRIPTION

The **D**ynamic **P**ositioning **S**ystem notation **DPS-0** indicates that a self-propelled (or non-self-propelled) vessel is fitted with a system of thrusters, positioning instruments and control systems with a centralized manual position control and automatic heading control to maintain a desired position and heading at sea without external aid under specified maximum environmental conditions; and that the systems are in accordance with the applicable requirements of the *ABS Guide for Dynamic Positioning Systems*. The assigned numeral “0” indicates the degree of redundancy. The Maltese Cross ✠ symbol signifies that compliance with these Rules was verified by ABS during construction of the vessel. This includes survey of the machinery at the manufacturer’s plant (where required), during installation on board the vessel; and during trials.

REFERENCES

Subsection 1/3 of the *ABS Guide for Dynamic Positioning Systems*

REMARKS

See also ✠ DPS-1, ✠ DPS-2 and ✠ DPS-3

Example – ✠ A1, Oil Carrier, Ⓔ, ✠ AMS, ✠ ACCU, ✠ DPS-0...

Common Notations and Symbols

NOTATION

⊠ DPS-1

DESCRIPTION

The **D**ynamic **P**ositioning **S**ystem notation **DPS-1** indicates that a self-propelled (or non-self-propelled) vessel is fitted with a system of thrusters, positioning instruments and control systems capable of automatically maintaining the position and heading at sea without external aid under a specified maximum environmental conditions as well as a centralized manual position control with automatic heading control; and that the systems are in accordance with the applicable requirements of the *ABS Guide for Dynamic Positioning Systems*. The assigned numeral “1” indicates the degree of redundancy. The Maltese Cross ⊠ symbol signifies that compliance with these Rules was verified by ABS during construction of the vessel. This includes survey of the machinery at the manufacturer’s plant (where required), during installation on board the vessel; and during trials.

REFERENCES

Subsection 1/3 of the *ABS Guide for Dynamic Positioning Systems*

REMARKS

See also ⊠ DPS-0, ⊠ DPS-2 and ⊠ DPS-3

Example – ⊠ A1, Oil Carrier, ⊕, ⊠ AMS, ⊠ ACCU, ⊠ DPS-1...

Common Notations and Symbols

NOTATION

✠ **DPS-2**

DESCRIPTION

The **D**ynamic **P**ositioning **S**ystem notation **DPS-2** indicates that a self-propelled (or non-self-propelled) vessel is fitted with a system of thrusters, positioning instruments and control systems capable of automatically maintaining the position and heading at sea without external aid within a specified operating envelope under specified maximum environmental conditions during and following any single fault excluding a loss of compartment or compartments; and that the systems are in accordance with the applicable requirements of the *ABS Guide for Dynamic Positioning Systems*. The assigned numeral “**2**” indicates the degree of redundancy. The Maltese Cross ✠ symbol signifies that compliance with these Rules was verified by ABS during construction of the vessel. This includes survey of the machinery at the manufacturer’s plant (where required), during installation on board the vessel; and during trials.

REFERENCES

Subsection 1/3 of the *ABS Guide for Dynamic Positioning Systems*

REMARKS

See also ✠ **DPS-0**, ✠ **DPS-1** and ✠ **DPS-3**

Example – ✠ A1, Oil Carrier, Ⓔ, ✠ AMS, ✠ ACCU, ✠ **DPS-2**...

Common Notations and Symbols

NOTATION

✠ **DPS-3**

DESCRIPTION

The **D**ynamic **P**ositioning **S**ystem notation **DPS-3** indicates that a self-propelled (or non-self-propelled) vessel is fitted with a system of thrusters, positioning instruments and control systems capable of automatically maintaining the position and heading at sea without external aid within a specified operating envelope under specified maximum environmental conditions during and following any single fault including a loss of a compartment due to fire flood; and that the systems are in accordance with the applicable requirements of the *ABS Guide for Dynamic Positioning Systems*. The assigned numeral “**3**” indicates the degree of redundancy. The Maltese Cross ✠ symbol signifies that compliance with these Rules was verified by ABS during construction of the vessel. This includes survey of the machinery at the manufacturer’s plant (where required), during installation on board the vessel; and during trials.

REFERENCES

Subsection 1/3 of the *ABS Guide for Dynamic Positioning Systems*

REMARKS

See also ✠ **DPS-0**, ✠ **DPS-1** and ✠ **DPS-2**

Example – ✠ A1, Oil Carrier, Ⓔ, ✠ AMS, ✠ ACCU, ✠ **DPS-3**...

Common Notations and Symbols

NOTATION

EFP-A

EFP-M

EFP-C

DESCRIPTION

EFP-A – This notation is assigned to vessels, MODUs, MOUs and offshore installations that meet the criteria in 1-1/3 and have accommodation areas designed, constructed and equipped in accordance with the requirements in Chapter 1 as well as Chapter 2, Sections 1 through 5 of the *ABS Guide for Enhanced Fire Protection Arrangements*.

EFP-M – This notation is assigned to vessels, MODUs, MOUs and offshore installations that meet the criteria in 1-1/3 and have the machinery spaces designed, constructed and equipped in accordance with the requirements in Chapters 1 and 3 of the *ABS Guide for Enhanced Fire Protection Arrangements*.

EFP-C – This notation is assigned to vessels identified in Chapter 4 that meet the criteria in 1-1/3 and have the cargo areas designed, constructed and equipped in accordance with Chapters 1 and 4 of the *ABS Guide for Enhanced Fire Protection Arrangements*.

REFERENCES

1-1/5 of the *Guide for Enhanced Fire Protection Arrangements*

REMARKS

Example – ✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, SH, SHCM, **EFP-A**...
✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, SH, SHCM, **EFP-M**...
✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, SH, SHCM, **EFP-C**...

Common Notations and Symbols

NOTATION

EGC-SO_x

EGC-SCR

EGC-EGR

EEMS

DESCRIPTION

EGC-SO_x – This notation is assigned to an exhaust gas cleaning system primarily designed for the reduction of SO_x emissions using exhaust gas scrubbing is designed, constructed, and tested in accordance with Section 2 of the *ABS Guide for Exhaust Emission Abatement*.

EGC-SCR – This notation is assigned to an exhaust gas cleaning system primarily designed for the reduction of NO_x emissions by the use of Selective Catalytic Reduction catalysts is designed, constructed, and tested in accordance with Section 3 of the *ABS Guide for Exhaust Emission Abatement*.

EGC-EGR – This notation is assigned to an exhaust gas cleaning system primarily designed for the reduction of NO_x emissions by the use of exhaust gas recirculation is designed, constructed, and tested in accordance with Section 4 of the *ABS Guide for Exhaust Emission Abatement*.

This notation is intended to be applied to those EGR systems that incorporate extensive off-engine systems designed for the purposes of removing the sulfur by-products from the exhaust gases that originate from the fuel and incorporate, for example, water scrubbing and water cleaning systems. Where a water treatment system is incorporated in the EGR system, the washwater discharge criteria is to meet the requirements of IMO Resolution MEPC.184(59).

EEMS – This notation is assigned to a permanently installed exhaust emission monitoring system designed, constructed and tested in accordance with Section 5 of the *ABS Guide for Exhaust Emission Abatement*.

The notation for an exhaust emissions monitoring system may be assigned to a vessel fitted with, or without, an exhaust emission abatement system.

REFERENCES

1/9.3, 1/9.5, 1/9.7, and 1/9.9 of the *Guide for Exhaust Emission Abatement*

REMARKS

Example – ✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **EGC-SO_x**, SH, SHCM ...
 ✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **EGC-SCR**, SH, SHCM ...
 ✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **EGC-EGR**, SH, SHCM ...
 ✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **EEMS**, SH, SHCM ...
 ✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **EGC-SO_x**, **EEMS**, SH, SHCM ...

Common Notations and Symbols

NOTATION

EHS-P

EHS-C

EHS-F

DESCRIPTION

The Enhanced System notation (**EHS**), as a supplement to a **DPS**-series notation, may be assigned to a **DPS-2** or **DPS-3** vessel.

EHS-P (Enhanced Power and Thruster System) – This notation covers the requirements for the power system and thrusters that are beyond those for the **DPS**-series notations.

EHS-C (Enhanced Control System) – This notation covers the requirements on the DP control systems including control computers, position reference systems and sensors, which are beyond the minimum requirements for **DPS**-series notations.

EHS-F (Fire and Flood Protection System) – This notation covers the requirements for fire and flood protection considering the risk level of the areas. This is a supplement for a **DPS-2** system. It is not necessary for a **DPS-3** system, since a **DPS-3** system has higher requirement in this regard.

For a vessel with a **DPS-2** notation, the Enhanced Power and Thruster System Notation (**EHS-P**), the Enhanced Control System Notation (**EHS-C**), Fire and Flood Protection (**EHS-F**) Notation or any combination, such as **EHS-PC**, **EHS-PF**, **EHS-PCF**, may be assigned.

For a **DPS-3** vessel, **EHS-F** is not necessary since **DPS-3** has a higher fire protection requirement.

REFERENCES

Subsections 1/3 and 8/1 of the *ABS Guide for Dynamic Positioning Systems*

REMARKS

Example – ✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, ✕ DPS-2 **EHS-PCF**...
✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, ✕ DPS-3 **EHS-C**...

Common Notations and Symbols

NOTATION

ENVIRO

ENVIRO+

EP2020+

DESCRIPTION

ENVIRO – This notation is assigned to a vessel complying with the applicable requirements of Annexes I, II, IV, V, and VI to the International Convention for the Prevention of Pollution from Ships, MARPOL 73/78, as amended and associated ABS requirements which influence environmental protection.

ENVIRO+ – This notation will be assigned to a vessel complying with applicable requirements of the **ENVIRO** notation and Annexes I, II, IV, V, and VI to the International Convention for the Prevention of Pollution from Ships, MARPOL 73/78, as amended and the criteria for environmental protection related to design characteristics, management and support systems, sea discharges, and air discharges specified in the *ABS Guide for the Environmental Protection Notation for Vessels*.

EP2020+ – This notation will be assigned for a refrigeration system where the use of a refrigerant medium exceeds GWP of 2000, provided the refrigerant system complies with all the other conditions and requirements of Subsection 3/25 of the *ABS Guide for the Environmental Protection Notation for Vessels* for **ENVIRO+** notation. This signifies the owner's commitment to replace the existing refrigerant with one having GWP less than or equal to 2000, by the year 2020.

These notations supersede the **ES** and **ES2020** notations for vessels contracted for construction after the effective date of the *ABS Guide for the Environmental Protection Notation for Vessels*.

REFERENCES

1/3.1, 1/3.3, and 4/23.1 of the *Guide for the Environmental Protection Notation for Vessels*

REMARKS

Example – ✕ A1, Container Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **ENVIRO**...
✕ A1, Container Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **ENVIRO+**...
✕ A1, Container Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **ENVIRO+(EP2020+)**...

Common Notations and Symbols

NOTATION

ERGO TOP

ERGO ES

ERGO VALVE

ERGO MAINT

DESCRIPTION

ERGO TOP – This notation is directed at assessing the human and topsides structures fit and compatibility, including external ramps, ladders, platforms, and other topsides structures (weather deck area) associated with crew safety and job performance.

ERGO ES – This notation is directed at assessing the human fit and compatibility of areas inside the skin of the vessel on or below the main deck (whether of a ship or an offshore structure) . These include interior ramps, passageways, ramps hatches and scuttles, and other structures associated with crew safety and job performance.

ERGO VALVE – This notation is directed at assessing the access and use of operating and maintenance valves with regard to accessibility and ease of identification and use.

ERGO MAINT – This notation is directed at assessing the safety and ease of access to maintenance areas (maintenance platforms, access aids such as ladders, and the size of the maintenance workspace).

REFERENCES

Subsection 1/4 & Section 3, Table 1 of the *ABS Guide for Ergonomic Notations*

REMARKS

Example – ✖ A1, Oil Carrier, Ⓔ, ✖ AMS, ✖ ACCU, SH, SHCM, **ERGO TOP...**
 ✖ A1, Oil Carrier, Ⓔ, ✖ AMS, ✖ ACCU, SH, SHCM, **ERGO ES...**
 ✖ A1, Oil Carrier, Ⓔ, ✖ AMS, ✖ ACCU, SH, SHCM, **ERGO VALVE...**
 ✖ A1, Oil Carrier, Ⓔ, ✖ AMS, ✖ ACCU, SH, SHCM, **ERGO MAINT...**

Common Notations and Symbols

NOTATION

ESP

ESDC

DESCRIPTION

Enhanced Survey Program (ESP) – This notation is assigned to Oil Carriers, Bulk Carriers, Ore Carriers, Combination Carriers or Chemical Carriers, all in salt-water services, that are in compliance with the specified survey requirements for the **ESP** notation in the *ABS Rules for Survey After Construction (Part 7)*.

Expanded Survey Program for General Dry Cargo Vessels (ESDC) – This notation is assigned to General Dry Cargo Vessels, as defined in 7-1-1/3.33 of the *ABS Rules for Survey After Construction (Part 7)*, in salt-water services, that are in compliance with the specified survey requirements for the **ESDC** notation.

REFERENCES

Section 7-3-2 of the *Rules for Survey After Construction (Part 7)*

REMARKS

Example – ✕ A1, Oil Carrier, ⓘ, ✕ AMS, ✕ ACCU, SH, SHCM, **ESP**...

✕ A1, ⓘ, ✕ AMS, ✕ ACCU, SH, SHCM, **ESDC**...

Common Notations and Symbols

NOTATION

FL (years)

DESCRIPTION

Fatigue Life (FL (years)) – This is a notation that denotes a vessel's design fatigue life is in excess of the minimum fatigue life of 20 years. This notation is eligible for vessels that receive the SafeHull notation provided the excess design fatigue life is verified to be in compliance with the criteria in Appendix 1 of the appropriate Chapter of Part 5C of the *ABS Rules for Building and Classing Steel Vessels* addressing Oil or Fuel Oil Carriers, Bulk or Ore Carriers, Combination Carriers or Container Carriers. The **(years)** refers to the fatigue life equal to 25 years or more (in 5-year increments) as specified by the applicant. This notation is also available for Membrane Tank Liquefied Gas Carriers in accordance with 5C-12-1/1.3 of the *ABS Rules for Building and Classing Steel Vessels* and also for Liquefied Gas Carriers with Independent Tanks in accordance with 1/1.3 of the *ABS Guide for Building and Classing Liquefied Gas Carriers with Independent Tanks*.

REFERENCES

5C-1-1/1.2, 5C-3-1/1.2, 5C-5-1/1.2, and 5C-12-1/1.3 of the *Rules for Building and Classing Steel Vessels*
1/1.3 of the *Guide for Building and Classing Liquefied Gas Carriers with Independent Tanks*

REMARKS

Example – ✕ A1, Oil Carrier, ⓘ, ✕ AMS, ✕ ACCU, SH, SHCM, **FL(30)**...

Common Notations and Symbols

NOTATION

GFS

RELIQ

GCU

DFD

SGF

DFGT

DESCRIPTION

Gas Fueled Ship (GFS) is a notation assigned to a vessel is arranged to burn natural gas as fuel for propulsion or auxiliary purposes the requirements for gas fuel storage, fuel bunkering systems, fuel gas preparation rooms and fuel gas supply system arrangements are to be designed, constructed and tested in accordance with Sections 2, 3, 4, and 5 of the *ABS Guide for Propulsion and Auxiliary Systems for Gas Fueled Ships*.

Re-Liquefaction Unit (RELIQ) is a notation assigned to a vessel with a re-liquefaction unit designed, constructed and tested in accordance with Section 2 and Section 6 of the *ABS Guide for Propulsion and Auxiliary Systems for Gas Fueled Ships*.

Gas Combustion Unit (GCU) is a notation assigned to a vessel with a gas combustion unit designed, constructed and tested in accordance with Section 2 and Section 7 of the *ABS Guide for Propulsion and Auxiliary Systems for Gas Fueled Ships*.

Dual Fuel Diesel Engine power plant (DFD) is a notation assigned to a vessel with a dual fuel diesel engine power plant is designed, constructed and tested in accordance with Section 2 and Section 8 of the *ABS Guide for Propulsion and Auxiliary Systems for Gas Fueled Ships*.

Single Gas Fuel Engine power plant (SGF) is a notation assigned to a vessel with a single gas fuel engine power plant is designed, constructed and tested in accordance with Section 2 and Section 8 of the *ABS Guide for Propulsion and Auxiliary Systems for Gas Fueled Ships*.

Dual Fuel Gas Turbine power plant (DFGT) is a notation assigned to a vessel with a designed, constructed and tested in accordance with Section 2 and Section 9 of the *ABS Guide for Propulsion and Auxiliary Systems for Gas Fueled Ships*.

REFERENCES

Subsection 1/4 of the *Guide for Propulsion and Auxiliary Systems for Gas Fueled Ships*

REMARKS

Example – ✕ A1, Offshore Support Vessel (TOW), Ⓔ, ✕ AMS, **GFS**, ✕ ACCU...
 ✕ A1, Container Carrier, Ⓔ, ✕ AMS, **GFS(DFD, GCU)**, ✕ ACCU...

Common Notations and Symbols

NOTATION

GP

DESCRIPTION

Green Passport (GP) – This notation is applicable to new and existing ships having had the ship details and Part 1 of the Inventory of their Green Passport prepared and certified to the requirements of this Guide to the satisfaction of the ABS Surveyors in accordance with the *ABS Guide for the Class Notation Green Passport*.

REFERENCES

Subsection 1/4 of the *Guide for the Class Notation Green Passport*

REMARKS

Example –  A1, Oil Carrier, ,  AMS,  ACCU, SH, SHCM, **GP**...

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Common Notations and Symbols

NOTATION

HAB

HAB+

HAB++

DESCRIPTION

HAB – This notation is assigned to vessels, which comply with the minimum criteria for accommodation area design, whole-body vibration (separate criteria for accommodation areas and workspaces), noise, indoor climate, and lighting as included in the *ABS Guide for Crew Habitability on Ships*.

HAB+ – This notation is assigned to vessels which comply with more stringent habitability criteria with respect to accommodation areas, whole-body vibration and noise aimed at increasing crew comfort and safety as included in the *ABS Guide for Crew Habitability on Ships*.

HAB++ – This notation is assigned to vessels which comply with more stringent habitability criteria with respect to accommodation areas, whole-body vibration, noise, and indoor climate as included in the *ABS Guide for Crew Habitability on Ships*.

REFERENCES

Subsection 1/6 of the *Guide for Crew Habitability on Ships*

REMARKS

Example – ✘ A1, Oil Carrier, (E), ✘ AMS, ✘ ACCU, SH, SHCM, **HAB**...

✘ A1, Oil Carrier, (E), ✘ AMS, ✘ ACCU, SH, SHCM, **HAB+**...

Common Notations and Symbols

NOTATION

HELIDK

HELIDK(SRF)

DESCRIPTION

HELIDK – This notation is assigned to vessels with a helicopter deck intended for landing with no provision for storage or refueling and complying with Sections 2 and 6 of the *ABS Guide for the Class Notation Helicopter Decks and Facilities (HELIDK and HELIDK(SRF))*.

HELIDK(SRF) – This notation is assigned to vessels with a helicopter deck and a helicopter facility for storage and/or refueling and complying with Sections 2 through 6 of the *ABS Guide for the Class Notation Helicopter Decks and Facilities (HELIDK and HELIDK(SRF))*.

REFERENCES

Subsection 1/3 of the *Guide for the Class Notation Helicopter Decks and Facilities (HELIDK and HELIDK(SRF))*

REMARKS

Example – ✖ A1, Oil Carrier, **HELIDK**, Ⓔ, ✖ AMS, ✖ ACCU, SH, SHCM ...

✖ A1, Oil Carrier, **HELIDK(SRF)**, Ⓔ, ✖ AMS, ✖ ACCU, SH, SHCM...

Common Notations and Symbols

NOTATION

HIMP

DESCRIPTION

Hull Inspection and Maintenance Program (HIMP) – This notation signifies that the vessel is enrolled in the Hull Inspection and Maintenance Program in accordance with the *ABS Guide for Hull Inspection and Maintenance Program*.

REFERENCES

Subsection 1/1 of the *Guide for Hull Inspection and Maintenance Program*

REMARKS

Example –  A1, Oil Carrier, **HIMP**, ,  AMS,  ACCU, SH, SHCM ...

Common Notations and Symbols

NOTATION

HM1

HM1+R

DESCRIPTION

A Classification notation indicating that a vessel is fitted with a hull condition monitoring system for the purpose of motion monitoring and that the system is in accordance with the applicable requirements of the *ABS Guide for Hull Condition Monitoring Systems*. **Slam Warning, Green Seas Warning** or **Ship Motion** to identify the motion monitoring system provided will follow this notation. An additional notation, **+R**, will be added to the **HM1** notation where provisions for recording data for later evaluation are provided.

REFERENCES

2.1.1 of the *Guide for Hull Condition Monitoring Systems*

REMARKS

See also **HM2** and **HM3**

Example – ✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **HM1+R Green Seas Warning**, HM2+R Hull Girder Stress, HM3 VDR, SH, SHCM...

Common Notations and Symbols

NOTATION

HM2

HM2+R

DESCRIPTION

A Classification notation indicating that a vessel is fitted with a hull stress monitoring system, which may include local stress and fatigue monitoring systems; and that the systems are in accordance with the applicable requirements of the *ABS Guide for Hull Condition Monitoring Systems*. This notation will be followed by **Hull Girder Stress, Local Stress Monitoring** or **Fatigue Monitoring** to identify the stress monitoring system provided. An additional notation, **+R**, will be added to the **HM2** notation where provisions for recording data for later evaluation are provided.

REFERENCES

2.3.1 of the *Guide for Hull Condition Monitoring Systems*

REMARKS

See also **HM1** and **HM3**

Example – ✕ A1, Oil Carrier, Ⓔ, ✕ AMS, ✕ ACCU, HM1+R Green Seas Warning, **HM2+R Hull Girder Stress**, HM3 VDR, SH, SHCM...

Common Notations and Symbols

NOTATION

HM3

DESCRIPTION

A Classification notation indicating that a vessel is fitted with a hull stress monitoring system and associated Voyage Data Recording system; and that the systems are in accordance with the applicable requirements of the *ABS Guide for Hull Condition Monitoring Systems*. This notation will be followed by **VDR** or **Enhanced VDR** to identify the extent of their recording capability, the time scale of their recording and the survivability of their recordings.

REFERENCES

2.5.1 of the *Guide for Hull Condition Monitoring Systems*

REMARKS

See also **HM1** and **HM2**

Example –  A1, Oil Carrier, ,  AMS,  ACCU, HM1+R Green Seas Warning, HM2+R Hull Girder Stress, **HM3 VDR**, SH, SHCM...

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Common Notations and Symbols

NOTATION

HVSC

DESCRIPTION

A Classification notation applicable to vessels equipped with a high voltage shore connection system (HVSC) designed to power the vessel with the shore power alone, enabling the shipboard generators to be shut down while in port, which has been designed, installed and surveyed in accordance with the *ABS Guide for High Voltage Shore Connection*, and when found satisfactory.

REFERENCES

3 of the *Guide for High Voltage Shore Connection*

REMARKS

Example – ✕ A1, Container Carrier, Ⓔ, ✕ AMS, ✕ ACCU, **HVSC**, SH, SHCM...

Common Notations and Symbols

NOTATION

Ice Class A0

Ice Class B0

Ice Class C0

Ice Class D0

Ice Class E0

DESCRIPTION

The ice strengthening notations **Ice Class A0**, **Ice Class B0**, **Ice Class C0**, **Ice Class D0**, and **Ice Class E0** are notations that indicate that the vessel is suitable for navigating independently in first year ice in accordance with the applicable requirements of Section 6-1-5 of the *ABS Rules for Building and Classing Steel Vessels*. See 6-1-5/Table 1 for guidance in selecting the most suitable ice class for the operational regions and periods, and ice conditions.

REFERENCES

6-1-5/3.1 of the *Rules for Building and Classing Steel Vessels*

3-2-A1/3 of the *Rules for Building and Classing Mobile Offshore Drilling Units*

1-1-3/Table B of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Example – ✱ A1, Oil Carrier, **Ice Class A0**, Ⓔ, ✱ AMS, ✱ ACCU...

Common Notations and Symbols

NOTATION

Ice Breaker

DESCRIPTION

This notation is assigned to a vessel designed and constructed for breaking ice to open navigable channels for other ships. The classification notation **Ice Breaker** is to be assigned to vessels of **Ice Classes PC1, Enhanced** through **PC6, Enhanced** built to the requirements of Part 6, Chapter 1 of the ABS *Rules for Building and Classing Steel Vessels*.

REFERENCES

6-1-4/3 of the *Rules for Building and Classing Steel Vessels*

REMARKS

Example – ⌘ A1, **Ice Breaker**, Ⓢ, ⌘ AMS...

Common Notations and Symbols

NOTATION

Ice Class I AA

Ice Class I A

Ice Class I B

Ice Class I C

DESCRIPTION

The ice strengthening notations **Ice Class I AA**, **Ice Class I A**, **Ice Class I B** and **Ice Class I C** are notations that indicate that the vessel is suitable for navigating the waters of the Northern Baltic in winter in accordance with the applicable requirements of Section 6-1-6 of the *ABS Rules for Building and Classing Steel Vessels*. The ice strengthening requirements of Section 6-1-6 of the *ABS Rules for Building and Classing Steel Vessels* are in agreement with the Finnish-Swedish Ice Class Rules.

REFERENCES

6-1-6/3.1 of the *Rules for Building and Classing Steel Vessels*

1-1-3/Table B of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Example – ⌘ A1, Oil Carrier, **Ice Class IAA**, Ⓢ, ⌘ AMS, ⌘ ACCU...

Common Notations and Symbols

NOTATION

Ice Class PC1

Ice Class PC2

Ice Class PC3

Ice Class PC4

Ice Class PC5

Ice Class PC6

Ice Class PC7

DESCRIPTION

The ice strengthening notations **Ice Class PC1**, **Ice Class PC2**, **Ice Class PC3**, **Ice Class PC4**, **Ice Class PC5**, **Ice Class PC6**, and **Ice Class PC7** are notations that indicate that the vessel is suitable for navigating independently in ice-covered Polar waters in accordance with the applicable requirements of the Sections 6-1-1 through 6-1-3 of the *ABS Rules for Building and Classing Steel Vessels*. See 6-1-1/Table 2 of the *ABS Rules for Building and Classing Steel Vessels* for guidance in selecting the most suitable ice class for the operational regions and periods, and ice conditions.

REFERENCES

6-1-1/3.1 of the *Rules for Building and Classing Steel Vessels*

1-1-3/Table B of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Example – ⚡ A1, Oil Carrier, **Ice Class PC1**, Ⓔ, ⚡ AMS, ⚡ ACCU...

Common Notations and Symbols

NOTATION

Ice Class PC1, Enhanced

Ice Class PC2, Enhanced

Ice Class PC3, Enhanced

Ice Class PC4, Enhanced

Ice Class PC5, Enhanced

Ice Class PC6, Enhanced

Ice Class PC7, Enhanced

DESCRIPTION

The ice strengthening notations **Ice Class PC1, Enhanced**, **Ice Class PC2, Enhanced**, **Ice Class PC3, Enhanced**, **Ice Class PC4, Enhanced**, **Ice Class PC5, Enhanced**, **Ice Class PC6, Enhanced**, and **Ice Class PC7, Enhanced** are notations that indicate that the vessel is suitable for navigating independently in ice-covered Polar waters in accordance with the applicable requirements of Sections 6-1-1 through 6-1-3 of the *ABS Rules for Building and Classing Steel Vessels*, as well as the additional requirements of Section 6-1-4. See 6-1-1/Table 2 of the *ABS Rules for Building and Classing Steel Vessels* for guidance in selecting the most suitable ice class for the operational regions and periods, and ice conditions.

REFERENCES

6-1-4/1.1 of the *Rules for Building and Classing Steel Vessels*

1-1-3/Table B of the *Rules for Conditions of Classification – High-Speed Craft (Part 1)*

REMARKS

Example – ⌘ A1, Oil Carrier, **Ice Class PC1, Enhanced**, Ⓢ, ⌘ AMS, ⌘ ACCU...

Common Notations and Symbols

NOTATION

ILM

(n)

+T

+G

+L

+P

DESCRIPTION

ILM (Basic Ice loads Monitoring System) – This notation is assigned to a vessel having the basic ice loads monitoring system that monitors the hull girder bending stress.

(n) (Number of additional strain gauge locations (e.g., 2, 4 etc.)) – This notation is assigned to a vessel having strain gauge locations in addition to those required for the basic ice loads monitoring system. **(n)** denotes the additional number of additional strain gauge locations.

+T (Turning ice loads monitoring on the quarter) – This notation, in addition to **ILM**, may be assigned to a vessel having ice loads monitoring systems with the additional purpose of monitoring the ice loads induced at the quarters of the vessel due to turning in ice.

+G (Global ice loads monitoring) – This notation, in addition to **ILM**, may be assigned to a vessel having ice loads monitoring systems for hull girder bending and shear monitoring due to operation in ice, typically ramming loads.

+L (Local ice loads recording) – This notation, in addition to **ILM** may be assigned to a vessel having ice loads monitoring systems with the additional purpose of recording the stresses for analysis of ice loads.

+P (Local ice pressure monitoring and recording) – This notation, in addition to **ILM** may be assigned to a vessel having ice loads monitoring systems with the additional purpose of measuring and recording local impact pressures.

REFERENCES

Subsection 1/9 of the *Guide for Ice Loads Monitoring Systems*

REMARKS

Example – ✕ A1, Oil Carrier, Ice Class PC1, Ⓢ, ✕ AMS, ✕ ACCU, **ILM(4)+T+G+P...**

Common Notations and Symbols

NOTATION

ISQM

SQM

DESCRIPTION

Classification notations indicating compliance with the procedures and criteria given in the *ABS Guide for Integrated Software Quality Management (ISQM)* for control system software development from the *concept* phase or *Design Group* to the end of the *Verification, Validation and Transition* phase; subsequently, leading to the beginning of operation of the affected system.

ISQM is for integrated control systems and **SQM** is for non-integrated control systems.

REFERENCES

3 of the *Guide for Integrated Software Quality Management (ISQM)*

REMARKS

Example – ✘ A1, Oil Carrier, (E), ✘ AMS, ✘ ACCU, ✘ DPS-1, **ISQM**, SH, SHCM...
✘ A1, Container Carrier, (E), ✘ AMS, ✘ ACCU, **SQM**, SH, SHCM...