2023 Diving Code

Object of Amendment

Rules for the Diving Systems Guidance for Diving Systems

Reason for Amendment

For the purpose of ensuring the safety of diving systems, the Code of Safety for Diving Systems was adopted as resolution A.583(14) by the IMO in 1983. This code was subsequently amended in 1995 when the IMO adopted resolution A831(19) (the "1995 Diving Code"). ClassNK has already incorporated both the aforementioned resolutions into its Rules.

After its amendment in 1995, the code remained pretty much unchanged and was never subjected to a comprehensive review. However, several recent sinking and fire incidents involving ships installed with diving systems, including one which led to the deaths of some saturation divers unable to rapidly evacuate, led to the proposal of several amendments designed to align the code with the latest industrial standards for the purpose of ensuring the safety of saturation divers. After considering these proposals, a comprehensive amendment of the 1995 Diving Code was adopted by the IMO as resolution MSC.548(107) (the "2023 Diving Code") at the 107th session of the IMO Maritime Safety Committee (MSC 107) held in May 2023.

Accordingly, relevant requirements are amended based upon MSC.548(107).

Outline of Amendment

The main contents of this amendment are as follows:

- (1) Stipulates performance standards for ships, floating structures and mobile offshore drilling units intended to be installed with diving systems.
- (2) Stipulates requirements for hyperbaric survival craft used as means of evacuation under high pressure conditions.
- (3) Stipulates safety management requirements (ISM) for diving operations.

Effective Date and Application

The effective date of the amendments is 27 June 2024.

ID: DD23-13

An asterisk (*) after the title of a requirement indicates that there is also relevant information in the corresponding Guidance.

Amended	Original	Remarks
RULES FOR DIVING SYSTEMS	RULES FOR DIVING SYSTEMS	
Chapter 1 GENERAL	Chapter 1 GENERAL	
1	1	
1.1 General	1.1 General	
1.1.1 Scope 1 The Rules for Diving Systems, etc. (hereinafter referred to as "the Rules") apply to the survey and construction of the diving systems of ships classed with NIPPON KAIJI KYOKAI (hereinafter referred to as "the Society") intended to be registered in accordance with Chapter 3 of the Regulations for the Classification and Registry of Ships. 2 (Same as on the right) 3 Taking into account that there are some diving platforms, including fixed offshore installations, to which SOLAS does not apply but which carry out diving operations, the Society is invited, for the purpose of consideration of the safety of diving operations, to apply the Rules in such	1.1.1 Scope 1 The Rules for Diving Systems (hereinafter referred to as "the Rules") apply to the survey and construction of the diving systems of ships classed with NIPPON KAIJI KYOKAI (hereinafter referred to as "the Society") intended to be registered in accordance with Chapter 3 of the Regulations for the Classification and Registry of Ships. 2 The relevant requirements in the Rules for the Survey and Construction of Steel Ships apply to the materials, equipment, installation and workmanship of the systems, unless otherwise specified in the Rules. (Newly added)	-3 Premable 8, IMO Diving Code
circumstances to the extent deemed reasonable and practicable. 4 The Rules applies to ships of not less than 500 gross tonnes that have a diving system installed on or after 1 January 2024.	(Newly added)	-4 Introduction Application 2.1, IMO Diving Code
5 Ships that have a diving system already installed prior to 1 January 2024 are to be certified as a diving unit according to this Rules by the due date of the next Safety Construction Renewal Survey or equivalent.	(Newly added)	-5 Introduction Application 2.2, IMO Diving Code

	ments Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
6 The Rules does not apply to the plant and equipment	(Newly added)	-6 Introduction
required for the medical care or treatment of patients, not		Application 2.3, IMO
related to diving, in a Pressure Vessels for Human Occupancy		Diving Code
<u>(PVHO).</u>		
7 Notwithstanding the Rules, the Coastal State may	(Newly added)	-7 Introduction
impose additional or alternative requirements regarding the		Application 2.4, IMO
diving unit and diving operations.		Diving Code
8 Where plant and equipment are installed upon a	(Newly added)	-8 Introduction
standby diving unit, the application of the Rules should be		Application 2.5, IMO
considered on a case-by-case basis by the Administration.		Diving Code
	(Newly added)	1.1.2 Introduction
1.1.2 Goal		Goal 1, IMO Diving
The goal of the Rules is, especially where diving safety		Code
issues are not adequately addressed by other instruments of the		
Society, to:		
(1) provide a minimum international standard for the		
design, construction, installation and survey of diving		
systems integrated on ships, floating structures and		
MODUs (hereafter referred to as diving platforms)		
engaged in diving operations;		
(2) facilitate safe diving operations from diving platforms		
and achieve a level of safety equivalent to that		
required by SOLAS for ships engaged on international		
voyages; and		
(3) enable the international movement and safe operation		
of diving units.		
112 Perference standards (2022 Pini C. 1.12)	(Newly added)	
1.1.3 Performance standards (2023 Diving Code 1.3)		
Unless expressly provided otherwise, systems and		
equipment addressed in this Code should satisfy equivalent		
performance standards to those referred to in SOLAS.		

Amended Amended	Original Original	Remarks
Amended	Originai	Kemarks
1.1. <u>4</u> Equivalency (Omitted)	1.1.2 Equivalency Diving systems which do not comply with the requirements of the Rules may be accepted provided that they are deemed by the Society to be equivalent to those specified in the Rules.	
1.1.5 Modification of Requirements (Same as on the right)	1.1.3 Modification of Requirements The Society may modify parts of the requirements in the Rules taking the national requirements of the ship's flag state, kinds and the intended service area of the ship into consideration.	
1.1.6 Diving Systems with Novel Design Features (Same as on the right)	1.1.4 Diving Systems with Novel Design Features For diving systems with novel design features the Society may impose appropriate requirements of the Rules to the extent practically applicable with additional requirements made on design and test procedures other than those specified in the Rules.	
1.1.7 Definitions The definitions of terms which appear in the Rules are specified as following (1) to (44) unless otherwise specified	1.1.5 Definitions The definitions of terms which appear in the Rules are specified as following (1) to $(\underline{10})$ unless otherwise specified	
in other Chapters. (1) "Administration" means the Government of the State whose flag a ship or floating structure which carries a diving system is entitled to fly or in which the ship or floating structure is registered.	in other Chapters. (1) (Newly added)	(1) Introduction Definitions 3.1, IMO Diving Code
(2) "Breathing gas/breathing mixture" means all gases/mixtures of gases which are used for breathing during diving operations.	(2) (Newly added)	(2) Introduction Definitions 3.2, IMO Diving Code
(3) "Machinery Spaces of Category A" are those spaces and trunks to such spaces as defined in 3.2.21, Part R of the Rules for the Survey and Construction of	(3) (Newly added)	(3) Introduction Definitions 3.3, IMO

<u> </u>	inchis	Comparison Table (2023 Diving Code)	D 1
Amended		Original	Remarks
Steel Ships.			Diving Code
(4) "Certificate" means Diving Unit Safety Certificate	(4)	(Newly added)	(A) T 1
(DUSC).			(4) Introduction
(5) "Coastal State" means the Government of the State	(5)	(Newly added)	Definitions 3.4, IM
exercising administrative control over the diving			Diving Code
operations of the diving unit.			(5) Introduction
(6) "Cylinder" means a pressure container for the storage	(6)	(Newly added)	Definitions 3.5, IM
and transport of gases under pressure.			Diving Code
(7) "Daughter-craft" means a workboat deployed from	(7)	(Newly added)	(6) Introduction Definitions 3.6, IM
and/or operating in conjunction with a diving	. ,		Diving Code
platform; the workboat is used to deploy divers into			(7) Introduction
and recover them from the water.			Definitions 3.7, IM
(8) "Dive basket (synonymous with diving basket, diving	(0)	(1)1 11-1)	Diving Code
stage or diving cage)" means a diver deployment and	(8)	(Newly added)	Bring code
			(8) Introduction
recovery device normally designed with an open cage			Definitions 3.8, IM
structure.			Diving Code
(9) "Diving depth" means the depth of water or	(9)	(Newly added)	
equivalent pressure to which the diver is exposed at			(9) Introduction
any time during a dive or inside a Pressure Vessel for			Definitions 3.9, IM
Human Occupancy (PVHO).			Diving Code
(10) "Diving bell (synonymous with closed bell and	(10)	(Newly added)	
submersible decompression chamber)" means a	, ,		(10) Introduction
submersible Pressure Vessel for Human Occupancy			Definitions 3.10, IM
(PVHO), including its fitted equipment, for transfer of			Diving Code
diving personnel between the work location and the			
surface compression chamber.			
(11) "Diving operation" means a planned activity where	(11)	(Newly added)	(11) Introduction
one or more persons are exposed to a pressure greater	(11)	(ivewiy added)	Definitions 3.11, IM
than 100 mbar above atmospheric pressure and which			Diving Code
is supported by a Pressure Vessel for Human			(12) Introduction
Occupancy (PVHO) and/or a Launch and Recovery			(12) Introduction Definitions 3.1, IM
System (LARS).			Diving Code 2
(12) "Diving organization" means the legal entity	(10)	AT 1 11 1)	Diving Code 2
(12) Diving organization means the legal entity	(12)	(Newly added)	

<u> </u>	ements Comparison Table (2023 Diving Code)	D 1
Amended	Original	Remarks
responsible for conducting a diving operation. (13) "Diving platform" means the ship, floating structure or mobile offshore drilling unit (MODU) from which a diving operation is being conducted.	(13) (Newly added)	(13) Introduction Definitions 3.13, IMO Diving Code
(14) "Diving system" means the whole plant and equipment necessary for the conduct of diving operations and for the evacuation of divers.	(14) (Newly added)	(14) Introduction Definitions 3.14, IMO
(15) "Diving system internal muster point" means the location within the surface compression chamber complex where the divers gather before entering the	(15) (Newly added)	Diving Code (15) Introduction Definitions 3.15, IMO
Hyperbaric Survival Craft (HBSC) access trunking. (16) "Diving unit" means the combined diving system and	(16) (Newly added)	Diving Code
diving platform, installed and integrated to conduct diving operations. (17) "Essential services" means the services for	(17) (Newly added)	(16) Introduction Definitions 3.16, IMO Diving Code (17) Introduction
maintaining the diving system functionality with regard to the safety, health and environment of the divers in a hyperbaric environment and at the		Definitions 3.17, IMO Diving Code
worksite. (18) "Fire Safety Systems Code (FSS Code)" means the International Code, as defined in 3.2.22, Part R of the Rules for the Survey and Construction of Steel	(18) (Newly added)	(18) Introduction Definitions 3.18, IMO Diving Code
Ships. (19) "Fire Test Procedures Code (FTP Code)" means the International Code, as defined in 3.2.23, Part R of the	(19) (Newly added)	(19) Introduction Definitions 3.19, IMO Diving Code
Rules for the Survey and Construction of Steel Ships. (20) "Hazardous areas" are the locations, as defined in 1.1.5(1), Part H of the Rules for the Survey and	(20) (Newly added)	(20) Introduction Definitions 3.20, IMO Diving Code
Construction of Steel Ships. (21) "Hyperbaric evacuation" means the emergency transport of divers under pressure from a diving unit to a place of safety where planned decompression can	(21) (Newly added)	(21) Introduction Definitions 3.21, IMO Diving Code

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
be completed. (22) "Hyperbaric Survival Craft (HBSC)" means a Pressure Vessel for Human Occupancy (PVHO) and associated support plant and equipment whereby divers under pressure can be safely evacuated from a diving unit until recovered to a position where	(22) (Newly added)	(22) Introduction Definitions 3.22, IMO Diving Code
planned decompression can be completed. (23) "Launch and Recovery System (LARS)" means the plant and equipment necessary for lowering, raising and transporting divers between the diving platform and/or the surface compression chamber into and from the sea or on to a support vessel, as the case may	(23) (Newly added)	(23) Introduction Definitions 3.23, IMO Diving Code
be. These systems are used for the deployment and recovery of dive baskets, wet bells, diving bells, daughter-craft and HBSC. (24) "Living compartment" means the part of the surface compression chamber which is intended to be used as the main habitation for the divers during diving operations and which is equipped for such purpose.	(24) (Newly added)	(24) Introduction Definitions 3.24, IMO Diving Code
(25) "LSA Code" means the International Life-Saving Appliance Code, as defined in SOLAS Chapter III. (26) "Mating device" means the equipment necessary for	(25) (Newly added)	(25) Introduction Definitions 3.25, IMO Diving Code
the connection and disconnection of a diving bell or an HBSC to a surface compression chamber.	(26) (Newly added)	(26) Introduction Definitions 3.26, IMO
(27) "MODU Code" means the International Code, as defined in 1.2.36, Part P of the Rules for the Survey and Construction of Steel Ships. (28) "Place of safety" means a location where rescue	(27) (Newly added)	Diving Code (27) Introduction Definitions 3.27, IMO Diving Code
operations are considered to terminate. It is also a place where the survivors' safety of life is no longer threatened and their basic human needs (such as food, shelter and medical/decompression needs) can be met. A place of safety may be on land, or it may be on	(28) (Newly added)	(28) Introduction Definitions 3.29, IMO Diving Code

Amended	Original	Remarks
board a rescue unit or facility at sea that can serve as	<u> </u>	
a place of safety until the survivors are disembarked		
to their next destination. An assisting ship should not		
be considered as a place of safety solely on the fact		
that survivors are on board as it may not have		
appropriate facilities and equipment to sustain the		
survivors.		(29) Introduction
(29) "Pressure vessel" means a container capable of	(29) (Newly added)	Definitions 3.30, IMO
withstanding an internal maximum working pressure	(_5) (2:0:1:1) (4:0:0)	Diving Code
greater than or equal to 1 bar.		(30) Introduction
(30) "Pressure Vessel for Human Occupancy (PVHO)"	(30) (Newly added)	Definitions 3.31, IMO
means a container that is intended to be occupied by	(-1)	Diving Code
one or more persons that is capable of withstanding		
an internal or external pressure differential exceeding		
0.14 bar (2 psi).		(31) Introduction
(31) "Saturation diving" means a method of diving, using	(31) (Newly added)	Definitions 3.32, IMO
PVHO, that allows divers to remain in the pressurized	,	Diving Code
environment long enough for their body tissues to		
become saturated with the inert components of the gas		
mixture they are breathing.		(32) Introduction
(32) "Standby diving unit" means a ship carrying plant and	(32) (Newly added)	Definitions 3.34, IMO
equipment solely to assist in the rescue of divers from		Diving Code
another diving unit(s).		
(33) "Surface compression chamber" means a PVHO	(33) (Newly added)	(33) Introduction
installed on the diving platform with means of		Definitions 3.35, IMO
controlling the pressure inside the chamber.		Diving Code (34) Introduction
(34) "Surface compression chamber complex" means a	(34) (Newly added)	Definitions 3.36, IMO
series of mechanically connected PVHOs including		Diving Code
all associated trunkings.		(35) Introduction
(35) "Surface orientated diving" means a method of diving	(35) (Newly added)	Definitions 3.37, IMO
in which it is not planned for the diver(s) to become		Diving Code
saturated		(36) Introduction
(36) "Temporary diving system" means a diving system	(36) (Newly added)	Definitions 3.38, IMO

Amended	711101110	Original Original	Remarks
installed on a diving platform for a period not		Original	Diving Code
exceeding one year.			(37) Introduction
(37) "Umbilical" means the link between a PVHO, wet	(27)	(Newly added)	Definitions 3.39, IMO
bell, or diver and the rest of the diving system and	(37)	(Newly added)	Diving Code
			5
may contain surveillance, communication and power			
supply cables, breathing gas and hot water hoses. The			
hoisting and lowering strength member may be part			(38) Introduction
of the umbilical.	(20)	(A) 1 11 1)	Definitions 3.40, IMO
(38) "Water depth" means the depth of the water in which	(38)	(Newly added)	Diving Code
the diving platform is operating.	(20)	(A) 1 11 1)	(39) Introduction
(39) "Wet bell" means a diver deployment and recovery	(39)	(Newly added)	Definitions 3.41, IMO
device as a minimum fitted with a gas filled dome, a			Diving Code
main supply umbilical from the surface (providing			
breathing gas and other service to a manifold inside			
the device), and diver excursion umbilicals			
terminated at the device.			
(Deleted)	(1)	"Diving system" is a diving bell capable of	
		submerging and surfacing without depending upon	
		controlling of its buoyancy and such plant and	
		equipment as a deck decompression chamber,	
		handling systems and a breathing gas supply system	
		installed on board the attendant ship.	
$(\underline{40})$ (Same as on the right)	(2)	"Attendant ship" is a ship on board of which diving	(40) Editorial correction
		systems are installed.	
(Deleted)=	(3)	"Diving bell" is a submersible chamber, including	
		such equipment as a drop weight and a emergency	
		breathing gas supply system, for transfer of divers	
		between the underwater work site and the attendant	
		ship.	(41) Editorial correction
(41) (Same as on the right)	(4)	"Pressure hull" is a shell structure, including closing	(11) Editorial correction
		means and penetrating pieces, capable of	
		withstanding an external pressure corresponding to	
		the diving depth to admit persons and equipment in	

Amended Amended	Requirements Comparison Table (2023 Diving Code) Original Remarks
(Deleted)=	the pressure hull. (5) "Deck decompression chamber" is a pressure vessel installed on board the attendant ship for adjusting the pressure for diving operation and carrying out emergency repressurizing in case where troubles due to high pressure may occur, which is composed of the shell structure, closing means, view ports and their accessories. (42) Editorial correction
(42) (Same as on the right)	(6) "Maximum diving depth" is a maximum depth to which the diving bell can submerge safely, being a vertical distance from the lowest surface of shell plating of the pressure hull to the water surface. (42) Editorial correction (42) Editorial correction (43) Editorial correction
(43) (Same as on the right)	(7) "Anniversary Date" is the day corresponding to the expiry date of the Classification Certificate, excluding expiry date of the Classification Certificate.
(Deleted)=	(8) "Hazardous areas" are those locations in which an explosive gas-air mixture is continuously present, or present for long periods (hazardous areas zone 0); in which an explosive gas-air mixture is likely to occur in normal operation (hazardous areas zone 1); in which an explosive gas-air mixture is not likely to occur, and if it does it will only exist for a short time (hazardous areas zone 2). (44) Editorial correction
(44) (Same as on the right)	(9) "Life support system" means the gas supply, breathing gas system, decompression equipment, environmental control system and equipment required to provide a safe environment for the divers in the diving bell and the deck decompression chamber under all ranges of pressure and conditions they may be exposed to during diving operations.
(Deleted)	(10) "Living compartment" means the part of the deck decompression chamber which is intended to be used

<u> </u>		
Amended	Original	Remarks
	as the main habitation for the divers during diving	
	operations and which is equipped for such purpose.	

General Requirements If far as reasonable and practicable, a diving system estigned to minimize human error and constructed so allure of any single component should not lead to a situation for the divers. I components in a diving system are to be so constructed and arranged as to permit easy cleaning, on, inspection and maintenance. The diving system is to be capable of allowing the safe	
esigned to minimize human error and constructed so a silure of any single component should not lead to a situation for the divers. I components in a diving system are to be so constructed and arranged as to permit easy cleaning, on, inspection and maintenance. The diving system is to be capable of allowing the safe	
f a diver under pressure between the diving bell and lecompression chamber. The diving system and breathing gas cylinders is not ted in machinery spaces if the machinery is not all with the diving system. The diving system is not to be sited in hazardous areas are diving system is to be so arranged as to ensure that a diving system is to be so arranged as to ensure that a diving system is to be installed in accordance with ring requirements: The diving system is to be securely fastened to the attendant ship. The adjacent equipment to the diving system is to be milarly secured as above (1). The onsideration is to be given to the relative movement between the components of the system. The fastening arrangements are to be able to meet any equired survival conditions of the attendant ship. The diving system and breathing gas cylinders are to ged in spaces or locations which are adequately	
	the diving system is to be so arranged as to ensure that discontrol of the safe operation of the system can be diving all weather conditions. The diving system is to be installed in accordance with ring requirements: The diving system is to be securely fastened to the tendant ship. The adjacent equipment to the diving system is to be smilarly secured as above (1). The onsideration is to be given to the relative movement between the components of the system. The fastening arrangements are to be able to meet any equired survival conditions of the attendant ship. The diving system and breathing gas cylinders are to

Amended Amended	Original Original	Remarks
Amended	9 When any part of the diving system is sited on deck,	Kemarks
	particular consideration is to be given to providing reasonable	
	protection from the sea, icing or any damage which may result	
	from other activities on board the attendant ship.	
10 Where a diving unit is normally engaged on	(Newly added)	-10 Preamble 7, IMO
international voyages as defined in SOLAS, it is to, in addition,		Diving Code
also carry SOLAS safety certificates, either:		
(1) for a passenger ship with a SOLAS Exemption		
Certificate; or		
(2) for a cargo ship with a SOLAS Exemption Certificate,		
where necessary, as the Administration deems		
appropriate.		
11 The diving bell is to have sufficient stability at all	(Newly added)	-11 Moved from 3.1.1,
conditions during normal operation and in case of emergency.		NK original Rule
12 Consideration for Corrosion	(Newly added)	-12 Moved from 3.1.2,
(1) As for the parts of the diving bell and deck		NK original Rule
decompression chamber where corrosion may occur,		
appropriate anticorrosion measures are to be taken		
according to the materials used and the environmental		
condition.		
(2) In such a case that heat insulation is provided on the		
diving bell and deck decompression chamber and		
thereby their construction makes a regular visual		
inspection on the corrosion of the parts difficult,		
corrosion allowance is to be considered as occasion		
demands.	AT 1 11 1	12.M 1.C 2.2.NIZ
13 Materials	(Newly added)	-13 Moved from 3.2, NK original Rule
(1) The materials used for the main structural members of		original Kule
the diving bell and deck decompression chamber are		
to be in compliance with the requirements in Part K		
of the Rules for the Survey and Construction of		
Steel Ships. (2) Materials for view parts of the divine system on to		
(2) Materials for view ports of the diving system are to		

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
comply with a standard deemed appropriate by the Society.			
14 Welding Materials and Welding Procedure	(Newly added)	-14 Moved from 3.2, NK	
The welding materials and welding procedure adopted to		original Rule	
the main structural members of the diving bell and the deck			
decompression chamber are to be in accordance with the			
requirements in Part M of the Rules for the Survey and			
Construction of Steel Ships.			
15 Stress Relieving of Pressure Hull	(Newly added)	-15 Moved from 3.4.1,	
Stress relieving is to be carried out on the pressure hull,		NK original Rule	
where deemed necessary by the Society in consideration of the			
construction, materials used, structure of welded joints,			
welding procedure, etc. of pressure hull.			
16 Instruments Provided with Diving Bell	(Newly added)	-16 Moved from 6.1.1,	
(1) At least two sets of depth gauges to indicate the sea		NK original Rule	
water pressure corresponding to the diving depth of			
the diving bell are to be provided in the diving bell.			
Their sensors are to be provided separately.			
(2) In case of the hyperbaric diving bell, in addition to			
the instruments required in -1, a pressure gauge to			
indicate the pressure in the diving bell is to be			
provided.			
(3) Provision is to be made within the bell for an			
<u>independent means of indicating oxygen and carbon</u> dioxide levels.			
17 Instrument Provided in Surface Compression	(Newly added)	-17 Moved from 6.1.2,	
Chamber	(Newly added)	NK original Rule	
A pressure gauge to indicate a pressure in the surface		TVIE OFIGINAL TRAIC	
compression chamber is to be provided in a easily visible			
position outside the chamber. Where, however, a pressure			
gauge specified in -18(2) is provided in a vicinity of the			
surface compression chamber, this pressure gauge may be			
considered as a substitute of that required in this article.			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
18 Instruments Provided on Attendant Ship	(Newly added)	-18 Mo3ved from 6.1.2,	
(1) A pressure gauge to indicate the sea water pressure		NK original Rule	
corresponding to the diving depth of the diving bell is			
to be provided in a suitable position on the attendant			
ship.			
(2) For the attendant ship equipped with the hyperbaric			
diving system, in addition to the instruments required			
in (1), valves, instruments and other fittings necessary			
to control and indicate the parameters inside the			
diving bell and the deck decompression chamber			
specified in Table 1.1 are to be provided in a place			
where operation of the bell and the chamber is			
controlled (hereinafter referred to as "the control			
station").			
Table 1.1		Moved from table 6.1,	
Deck decompression		NK original Rule	
Parameters Diving bell chamber			
Pressure or depth			
<u>Temperature</u> <u>●</u>			
<u>Humidity</u> <u>●</u>			
O ₂ partial pressure			
CO ₂ partial pressure <u>●</u>			
19 Installation of Drop Weights	(Newly added)	-19 Moved from 7.1, NK	
(1) The diving bell is to be provided with drop weights as	(Newly added)	original Rule	
an emergency surfacing arrangement. The drop			
weights are to be capable of giving the diving bell			
positive buoyancy by releasing them in case where			
the diving bell cannot be lifted by means of the			
handling system on board the attendant ship.			
(2) Releasing of drop weights is to be easily made from			
the inside of the diving bell at the maximum diving			
depth.			

Amended-Original Requirements Comparison Table (2023 Diving Code)		
Amended	Original	Remarks
(3) Drop weights are to be capable of being released		
without any supply of energy from the attendant ship.		
20 Auxiliary Hoisting Device for Emergency Surfacing	(Newly added)	-20 Moved from 7.2, NK
(1) The attendant ship is to be provided with a device to	•	original Rule
wind up the rope, the umbilical cables, etc. in place of		
the handling system in order to surface the diving bell		
together with them by releasing the drop weights in		
case of failure of the handling system. Where,		
however, the diving bell is designed to be capable of		
surfacing only by releasing the drop weights, this		
requirement does not apply.		
(2) The auxiliary hoisting device is to be designed and		
manufactured in accordance with the relevant		
requirements in the Rules for Cargo Handling		
Appliances.		
21 Electrical Installation	(Newly added)	-21 Moved from 8.5.1,
(1) The electrical installation is to be suitable for marine		NK original Rule
use and to be capable of operating safely under the		
environmental condition of its location.		
(2) The live part of the electrical machinery and		
equipment is to be properly protected or arranged so		
that persons will not be injured in case where they		
accidentally come into contact with it.		
22 System of Power Distribution	(Newly added)	-22 Moved from 8.5.2,
The system of power distribution for the electrical		NK original Rule
machinery and equipment provided inside and outside the		
diving bell and inside the deck decompression chamber is to		
be an insulated system.		

Amended	Original	Remarks
23 Protective Devices	(Newly added)	-23 Moved from 8.5.3,
The electrical installation is to be protected against	,	NK original Rule
accidental overcurrents including short-circuit. The		
protective devices are to be capable of putting other sound		
circuits in continuous use as far as possible by breaking the		
fault circuit and eliminating damage to the system and hazard		
of fire.		
24 Earthing	(Newly added)	-24 Moved from 8.5.3,
The exposed non-current-carrying metallic part of the		NK original Rule
electrical machinery and equipment and the metallic covering		
of cable are to be effectively earthed.		
25 Independence of Important Circuits	(Newly added)	-25 Moved from 8.5.6,
The electric supply to the handling system, environment		NK original Rule
control device, lighting arrangement, important		
communication and alarm devices is to be powered by		
separate circuits respectively.		

	Amended-Original Requirements Comparison Table (2023 Diving Code)			
	Amended	Original	Remarks	
<u> 26</u>	<u>Cables</u>	(Newly added)	-26 Moved from 8.5.8,	
(1)	The cables are to be of flame-retardant or fire-		NK original Rule	
	resisting type. Those installed in the diving bell are			
	not to produce any unhealthy gases, as far as			
	practicable, when burnt.			
(2)	The umbilical cable between the diving bell and the			
	attendant ship is to have sufficient tensile strength by			
	itself, or suitable measures are to be taken to reduce			
	the tensile load on the cable.			
<u>(3)</u>	The umbilical cable between the diving bell and the			
	attendant ship and other cables installed outside the			
	diving bell are to be capable of withstanding a water			
	pressure, and the cable connectors are to be			
	watertight and their function is not to be lowered even			
	when they are subjected to a water pressure equal to			
	the pressure corresponding to the maximum diving			
	depth of the diving bell.			
<u>(4)</u>	Cable penetrations on the diving bell are to maintain			
	the watertightness necessary to ensure the safety of			
	the diving bell against a water pressure equal to the			
	pressure corresponding to the maximum diving depth			
	of the diving bell, even when break of the cable			
	outside the diving bell or breakaway or breakdown of			
	the connector may happen.			
(5)	The cable penetrations on the hyperbaric diving bell			
	and the deck decompression chamber are to have			
	sufficient airtightness against the approved working			
	pressure of the diving bell or the deck			
	decompression chamber respectively.			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
27 Electrical Installation in Hyperbaric Diving Bell and	(Newly added)	-27 Moved from 8.5.9-2	
Deck Decompression Chamber		to -7, NK original Rule	
(1) Cable installed in the hyperbaric diving bell and the			
deck decompression chamber are to be metallic			
sheathed cables such as mineral insulated cables.			
Where other kinds of cables are unavoidably used,			
information on the inflammability of these cables in			
the high pressure air or the high pressure mixed			
gases, including protective measures in consideration			
of the inflammability of them is to be submitted in			
advance to the Society for approval.			
(2) Switches for circuit and plug-in-type connectors			
(excluding locking type) used while pressurized are			
not to be installed in the hyperbaric diving bell and			
the deck decompression chamber, except for			
switches which do not produce sparks during			
switching operation such as semiconductor switch.			
(3) The electrical machinery and equipment installed in			
the hyperbaric diving bell and the deck			
decompression chamber are to have sufficient			
strength and to be capable of operating safely and			
effectively even when subjected to an external			
pressure equal to the approved working pressure of			
the diving bell or the deck decompression chamber.			
(4) The inside of the deck decompression chamber is, as			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
a rule, to be illuminated from the outside of the			
chamber through a suitable window. Where, however,			
lighting lamps are unavoidably provided in the deck			
decompression chamber, they are to be in accordance			
with the requirements in (5).			
(5) Where lighting lamps are provided in the hyperbaric			
diving bell, they are to be in accordance with the			
requirements in the following (a) to (d):			
(a) They are to be fixed to the hull;			
(b) They are to be sufficiently protected by metallic			
guards;			
(c) The temperature of their enclosure are to be kept			
as low as practicable;			
(d) They are to be arranged so as to be controlled			
only from the control station on board the			
attendant ship. Where control switches are			
unavoidably provided in the diving bell, they are			
to be those such as semiconductor switches			
which do not produce any sparks during			
switching operation.			
(6) Electrical installations installed in hazardous areas are			
to comply with the requirements specified in 13.4,			
Part P of the Rules for the Survey and			
Construction of Steel Ships.		T 1'4	
1.1.9 Evacuation System (Hyperbaric Survival Craft	1.1.7 Evacuation System	Editorial correction	
(HBSC))	1.1./ Evacuation System		
(Same as on the right)	An evacuation system is to be provided having sufficient		
(Same as on the fight)	capacity to evacuate all divers under pressure, in the event of		
	the ship having to be abandoned, and to be in accordance with		
	the provisions of this Rule.		
	are providents of time feater.		

Amended	Original	Remarks
Chapter 2 SURVEYS OF THE DIVING UNIT	Chapter 2 SURVEYS OF THE DIVING	TOMALKS
AND SYSTEMS	SYSTEMS	
2.1 General	2.1 General	
2.1.1 Kinds of Surveys	2.1.1 Kinds of Surveys	
1 (Same as on the right)	Diving systems registered or intended to be registered are to subject to the following surveys:	-1 Editorial correction
(1) (Same as on the right)	(1) Surveys for registration of the diving systems (hereinafter referred to as "Registration Surveys")	
(2) (Same as on the right)	 (2) Surveys for maintaining registration of the diving systems (hereinafter referred to as "Registration Maintenance Surveys"), which are: (a) Special Surveys (b) Annual Surveys (c) Occasional Surveys (d) Unscheduled Surveys 	
2 A diving unit represents the integration of a diving	(Newly added)	-2 Introduction
system onto or into a diving platform. As the diving system		Surveys and Certification 5.1, IMO
and diving platform may be owned/operated by different parties, a two-part certification process is used with Part		Diving Code
I(Form DUSC Part I) of the Certificate(hereinafter referred		
to as "DUSC") for the diving unit and Part II(Form DUSC		
Part I) for the diving system.		

Amended-Original Requirements Comparison Table (2023 Diving Code)		
Amended	Original	Remarks
2.1.2 Survey Intervals* (Same as on the right)	 2.1.2 Survey Intervals* A Registration Survey is to be carried out at the time when application for registration is made. Registration Maintenance Surveys are to be carried out at the times as prescribed in (1) to (4) below. Special Surveys are to be carried out at intervals specified in 1.1.3-1(3), Part B of the Rules for the Survey and Construction of Steel Ships. Annual Surveys are to be carried out at intervals specified in 1.1.3-1(1), Part B of the Rules for the Survey and Construction of Steel Ships. An Occasional Survey: at a time falling on any of (a) to (c) mentioned below, independently of Special Surveys and Annual Surveys. To implement the survey, in lieu of the traditional ordinary surveys where a surveyor is in attendance, the Society may approve survey methods which it considers to be appropriate. When main parts of the systems have been damaged, repaired or renewed. When the systems are modified or altered. Whenever considered necessary by the Society. The classed ships may be subject to Unscheduled Surveys when the confirmation of the status of systems by survey is deemed necessary in cases where the Society considers the systems to be subject to 1.4-3 of the Conditions of Service for Classification of Ships and Registration of Installations. 	

	Amended-Original Requirements Comparison Table (2023 Diving Code)		
	Amended	Original	Remarks
2.1.3	Special Surveys and Annual Surveys Carried Out in Advance, etc.	2.1.3 Special Surveys and Annual Surveys Carried Out in Advance, etc.	
(Same	as on the right)	1 Surveys carried out in advance	
		The requirements for Special Surveys and Annual Surveys	
		carried out in advance are to be in accordance with the provisions specified in 1.1.4, Part B of the Rules for the	
		Survey and Construction of Steel Ships.	
		2 Postponement of Special Surveys	
		The requirements for postponement of Special Surveys are	
		to be in accordance with the provisions specified in 1.1.5-1(1)	
		or 1.1.5-1(2), Part B of the Rules for the Survey and	
		Construction of Steel Ships.	
2.1.4	Preparation for Surveys and Others*	2.1.4 Preparation for Surveys and Others*	
(Same	as on the right)	1 All such preparations as required for the survey to be	
		carried out as well as those which may be required by the	
		Surveyor as necessary in accordance with the requirements in	
		the Rules are to be made by the applicant of the survey. The preparations are to include provisions of an easy and safe	
		access, necessary facilities and necessary records for the	
		execution of the survey. Inspection, measuring and test	
		equipment, which Surveyors rely on to make decisions	
		affecting classification are to be individually identified and	
		calibrated to a standard deemed appropriate by the Society. However, the Surveyor may accept simple measuring	
		equipment (e.g. rulers, measuring tapes, weld gauges,	
		micrometers) without individual identification or	
		confirmation of calibration, provided they are of standard	
		commercial design, properly maintained and periodically	
		compared with other similar equipment or test pieces. The	
		Surveyor may also accept equipment fitted on board a ship and used in examination of shipboard equipment (<i>e.g.</i> pressure,	
		temperature or rpm gauges and meters) based either on	
		temperature of this gauges and meters) based efficiently	

Amended	Original	Remarks
	calibration records or comparison of readings with multiple	
	instruments.	
	2 The applicant for the survey is to arrange a supervisor	
	who is well conversant with the survey items intended for the	
	preparation of the survey to provide the necessary assistance	
	to the Surveyor according to his requests during the survey.	
	3 The survey may be suspended where necessary	
	preparations have not been made, any appropriate attendant	
	mentioned in the previous -2 is not present, or the Surveyor	
	considers that the safety for execution of the survey is not	
	ensured.	
	4 Where repairs are deemed necessary as a result of the	
	survey, the Surveyor will notify his recommendations to the	
	applicant of the survey. Upon this notification, the repair is to	
	be made to the satisfaction of the Surveyor.	
	5 In cases where it is necessary to replace any fittings,	
	equipment or parts, etc. used onboard, replacements are to	
	comply with the regulations to be applied during ship	
	construction. However, in cases where new requirements are	
	specified or where deemed necessary by the Society, the	
	Society may require that such replacements comply with any	
	new requirements in effect at the time the relevant replacement	
	work is carried out. In addition, replacements are not to use	
	any materials which contain asbestos.	

Amended	Original	Remarks
2.1.5 Laid-up Ships (Same as on the right)	 2.1.5 Laid-up Ships 1 Laid-up ships are not subject to Registration Maintenance Surveys. However, Occasional Surveys may be carried out at the request of owners. 2 When laid-up ships are about to be re-entering service, the following surveys and surveys for specific matters which have been postponed due to being laid-up, if any, are to be carried out. (1) If the due dates for Registration Maintenance Surveys have not transpired while the ship was laid-up, then an equivalent to the Annual Surveys specified in 2.3.2 is to be carried out. (2) If the due dates for Registration Maintenance Surveys have transpired while the ship was laid-up, then these Registration Maintenance Surveys are, in principle, to be carried out. However in cases where Special Surveys and Annual Surveys are due, only the Special Surveys may be carried out. 	

Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks				
2.2 Registration Surveys	2.2 Registration Surveys					
2.2.1 Registration Surveys*	2.2.1 Registration Surveys*					
1 The presence of the Surveyor is required when the	1 The presence of the Surveyor is required when the					
tests and inspections specified in 2.2.3 to 2.2.911 are carried	tests and inspections specified in 2.2.3 to 2.2.9 are carried out.					
out. To implement tests and surveys (excluding those specified	To implement tests and surveys (excluding those specified in					
in 2.2.911), in lieu of traditional ordinary surveys where the	2.2.9), in lieu of traditional ordinary surveys where the					
Surveyor is in attendance, the Society may approve other	Surveyor is in attendance, the Society may approve other					
survey methods which it considers to be appropriate.	survey methods which it considers to be appropriate.					
(Same as on the right)	2 Where deemed necessary by the Society, tests and					
	inspections other than those specified in this 2.2 may be					
	required.					
	3 As for the machinery and equipment holding adequate					
	certificates, the Society may exempt the tests and inspections					
	specified in this 2.2 partly or wholly.					
	4 Those among the tests specified in this 2.2 which are					
	deemed difficult by the Society to be carried out on real					
	subjects may be substituted by tests on suitable models or					
	samples.					
	5 Surveyors are to confirm that materials which contain					
	asbestos are not being used.					
2.2.2 Drawings and Data	2.2.2 Drawings and Data					
1 For the diving systems intended to be registered, three	1 For the diving systems intended to be registered, three					
copies of the following drawings and data are to be submitted	copies of the following drawings and data are to be submitted					
for approval by the Society.	for approval by the Society.					
(1) General arrangement (including arrangement of	(1) General arrangement (including arrangement of					
machinery and equipment)	machinery and equipment)					
(2) Details of installation of the diving <u>unit and</u> system	(2) Details of installation of the diving system					
(3) Construction of the pressure hull of the diving bell	(3) Construction of the pressure hull of the diving bell					
(4) Construction and arrangement of view ports, covers	(4) Construction and arrangement of view ports, covers					
and penetrating pieces of the diving bell	and penetrating pieces of the diving bell					
(5) Construction of the <u>surface compression</u> chamber	(5) Construction of the <u>deck decompression</u> chamber					

	Amended-Original Requirements Comparison Table (2023 Diving Code)					
	Amended		Original	Remarks		
(6)	Particulars of pressure vessels, piping systems,	(6)	Particulars of pressure vessels, piping systems,			
	electrical installations, etc. (including communication		electrical installations, etc. (including communication			
	systems)		systems)			
(7)	Construction of breathing gas cylinders and other	(7)	Construction of breathing gas cylinders and other			
	pressure vessels		pressure vessels			
(8)	Piping diagrams	(8)	Piping diagrams			
(9)	Construction and arrangement of the emergency	(9)	Construction and arrangement of the emergency			
	surfacing arrangement		surfacing arrangement			
	Construction and arrangement of the handling system		Construction and arrangement of the handling system			
	Diagrams of the wiring system	` /	Diagrams of the wiring system			
(12)	Details of penetrating parts through the diving bell	(12)	Details of penetrating parts through the diving bell			
	and the <u>surface compression</u> chamber by pipes, shafts,		and the <u>deck decompression</u> chamber by pipes, shafts,			
	cables, etc.		cables, etc.			
(13)	Construction of electrical machinery and equipment	(13)	Construction of electrical machinery and equipment			
	and cables installed in the surface compression		and cables installed in the hyperbaric diving bell and			
/4 A	chamber.	(4.4)	the <u>deck decompressio</u> chamber.			
(14)	Construction of cables and cable connectors subjected	(14)	Construction of cables and cable connectors subjected			
/4 - \	to external pressure	(4 -)	to external pressure			
(15)	Details of welding procedures on the pressure hull and	(15)	Details of welding procedures on the pressure hull and			
(4.5)	the <u>surface compression</u> chamber	(4.5)	the deck decompression chamber			
(16)	Construction of hoses used as a part of the piping	(16)	Construction of hoses used as a part of the piping			
/4 - \	system	/4 - >	system			
	Construction of the evacuation system	` /	Construction of the evacuation system			
(18)	Specifications and arrangements of the structural fire	(18)	Specifications and arrangements of the structural fire			
	protection, fire-extinguishing system and fire		protection, fire-extinguishing system and fire			
	detection and alarm system of areas in which the		detection and alarm system of areas in which the			
(10)	diving system is installed	(10)	diving system is installed			
(19)	Material specifications and arrangement of the	(19)	Material specifications and arrangement of the			
	habitation installation of the <u>surface compression</u>		habitation installation of the <u>deck decompression</u>			
(20)	chamber	(20)	chamber			
(20)	Drawings specifying hazardous areas and a list of	(20)	Drawings specifying hazardous areas and a list of			
	electrical machinery and equipment used in hazardous		electrical machinery and equipment used in hazardous			
	areas		areas			

	Amended-Original Requirements Comparison Table (2023 Diving Code)					
(21)	Amended	(0.1)	Original	Remarks		
(21)	Specification, arrangement and calculation of	(21)	Specification, arrangement and calculation of			
	capability of the water spray system for breathing gas		capability of the water spray system for breathing gas			
(= = \)	cylinders	/ - - \	cylinders			
` /	Specification of the emergency locating device	(22)	Specification of the emergency locating device			
(23)	Specification of the through-water communication	(23)	Specification of the through-water communication			
	system		system			
(24)	Specification and calculation of capacity of the life	(24)	Specification and calculation of capacity of the life			
	support system		support system			
	Schemes for testing required in 2.2.3 to 2.2.12	(25)	Schemes for testing required in 2.2.3 to 2.2.10			
(26)	Other plans and documents deemed necessary by the	(26)	Other plans and documents deemed necessary by the			
	Society		Society			
2	(Same as on the right)		For the diving systems intended to be registered, the			
			ng drawings and data are to be submitted for reference			
		in addi	tion to the drawings and data specified in -1 above.			
(1)	Specifications	(1)	Specifications			
(2)	Calculation of strength of pressure hull of the diving	(2)	Calculation of strength of pressure hull of the diving			
	bell		bell			
(3)	Calculation of strength of view ports, covers, etc. of	(3)	Calculation of strength of view ports, covers, etc. of			
	the diving bell		the diving bell			
(4)	Calculation of strength of windows, covers, etc. of the	(4)	Calculation of strength of windows, covers, etc. of the			
	surface compression chamber		deck Decompression chamber			
(5)	Calculation of strength of the <u>launch and recovery</u>	(5)	Calculation of strength of the <u>handling</u> system			
	system (LARS)					
(6)	Calculation of stability under water and on surface (in	(6)	Calculation of stability under water and on surface (in			
	case of emergency)		case of emergency)			
(7)	Instruction for the function of emergency surfacing	(7)	Instruction for the function of emergency surfacing			
	arrangement		arrangement			
(8)	Maintenance standard recommended by the	(8)	Maintenance standard recommended by the			
	manufacturer		manufacturer			
(9)	Asbestos-free declarations and supporting documents	(9)	Asbestos-free declarations and supporting documents			
(10)	Other plans and documents deemed necessary by the	(10)	Other plans and documents deemed necessary by the			
	Society		Society			

Amended-Original Requirements Comparison Table (2023 Diving Code)					
Amended	Original	Remarks			
2.2.3 Survey of Diving Bell (Same as on the right)	 2.2.3 Survey of Diving Bell 1 The pressure hull is to undergo the tests and inspections specified in the following (1) to (4): (1) As for butt-welded parts of pressure hulls, radiographic examinations are to be carried out on the whole length and it is to be confirmed that no injurious defect exists. Where, however, accepted by the Society, part of radiographic examinations may be substituted by any other suitable nondestructive inspections. 				
	(2) Upon completion of pressure hulls, the roundness of them is to be measured all around the circumference and it is to be confirmed that the measured values at the respective points in the pressure hulls completed do not exceed the allowable value specified at the design stage.				
	(3) View ports, covers (excluding conical sheet hatches) and penetrating pieces (excluding penetrating pieces for cables) fitted to the opening parts of the pressure hull are to be hydrostatically tested under a pressure corresponding to 1.5 times the maximum diving depth of the pressure hull and it is to be confirmed that no leakage nor injurious deformation exists.				
	(4) As a rule, after all fittings have been fitted to the pressure hull, pressure hull is to be hydrostatically tested under an external pressure corresponding to 1.1 times the maximum diving depth and it is to be confirmed that it has sufficient watertightness and the stresses or strains measured at appropriate points are of proper value.				
	2 Upon completion of all works, diving bell is to				
	undergo the tests to determine its centre of gravity and centre				
	of buoyancy and its stability is to be confirmed.				

Amended Amended	Original Original	Remarks
Amended	3 The hyperbaric diving bell are to undergo the tests and	Kemarks
	inspections specified in the following (1) to (3), in addition to	
	the tests and inspections prescribed in the -1 and -2 above:	
	(1) Pressure hull is to undergo the tests and inspections in	
	accordance with the requirements in Chapter 10,	
	Part D of the Rules for the Survey and	
	Construction of Steel Ships.	
	(2) View ports of the pressure hull are to be	
	hydrostatically tested under a pressure 1.5 times the	
	approved working pressure of the diving bell and it is	
	to be confirmed that no leakage nor injurious	
	deformation exists.	
	(3) Upon completion of all works, an airtightness test on	
	the hyperbaric diving bell at the approved working	
	pressure is to be carried out.	
	(Newly added)	Introduction
2.2.4 Survey of Diving Unit	(Trowny added)	Surveys and
Every diving unit is to be subject to the surveys		Certification 5.2, IMO
specified below (1) to (4):		Diving Code
(1) An initial survey before any diving unit is put into		
service or before the DUSC required under this		
section of the Rules is issued for the first time, which		
should include a complete and thorough verification		
of the diving systems integration and arrangement		
with the diving platform. The integration of a diving		
organization's occupational health and safety		
management system, provision of essential services		
and diving system limitations listed in Part II of the		
DUSC are to be verified, as well as the suitability of		
the lifesaving arrangements and the functionality of		
the whole diving unit.		
(2) Where a diving system has already been certified to		
the provisions of IMO Resolution MSC.548(107), the		
status of that certification is to be confirmed to be		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
acceptable to the Society.		
(3) Where the DUSC Part II requires an installation		
survey by the certifying authority of the diving		
system, this is to be completed prior to issuing the		
DUSC Part I.		
(4) Where an existing diving system is not certified in		
accordance with the Code of Safety for Diving		
Systems, 1995 (IMO Resolution A.831(19)), a DUSC		
Part II may be issued with validity no longer than 1		
January 2029 clearly stating which provisions under		
5.3.2-2 of the Rules cannot be confirmed as		
alternative arrangements for the consideration of the		
Society issuing DUSC Part I.		
	(Newly added)	Introduction
2.2.5 Survey of Diving System		Surveys and
Every diving system forming part of a diving unit is to		Certification 5.3, IMO
be subject to the surveys specified below (1) to (4):		Diving Code
(1) An initial survey before being put into service as part		
of a diving unit or before DUSC Part II required under		
the Rules is issued for the first time, which is to		
include verification of the diving system, equipment,		
fittings, arrangements and material and which is to be		
such as to ensure their full compliance with the		
applicable provisions of the Rules.		
(2) Where an existing diving system has already been		
certified in accordance with the Code of Safety for		
Diving Systems, 1995 (IMO Resolution A.831(19)),		
as amended) then this certification may be accepted		
as the basis of the DUSC Part II.		
(3) Where an existing diving system is not certified in		
accordance with the Code of Safety for Diving		
Systems, 1995 (IMO Resolution A.831(19)), a DUSC		
Part II may be issued with validity no longer than 1		
January 2029 and clearly stating the circumstances	21/146	

Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks				
under which the Society considers it acceptable to						
issue the DUSC Part II. The DUSC Part II is to also						
state which provisions under 5.3.2-2 of the Rules						
cannot be confirmed as alternative arrangements for						
the consideration of the Society issuing Part I of the						
DUSC.						
(4) When a temporary diving system is demobilized, the						
surveys above may be carried out as far as practicable						
and endorsed on the Certificate as above. However,						
upon a remobilization all surveys that were not						
practicable to carry out while demobilized are to be						
completed and Part II of the Certificate endorsed						
accordingly.						
decordingly.		Editorial correction				
2.2.6 Survey of Surface Compression Chamber	2.2.4 Survey of <u>Deck Decompression</u> Chamber	Editorial correction				
1 The shell structure of the <u>surface compression</u>	1 The shell structure of the deck decompression					
chamber and its covers, fittings etc. are to undergo tests and	<u>chamber</u> and its covers, fittings etc. are to undergo tests and					
inspections in accordance with the requirements for pressure	inspections in accordance with the requirements for pressure					
vessels, Group I in Chapter 10, Part D of the Rules for the	vessels, Group I in Chapter 10, Part D of the Rules for the					
Survey and Construction of Steel Ships.	Survey and Construction of Steel Ships.					
2 The windows provided on the <u>surface compression</u>	2 The windows provided on the deck decompressions					
chamber are to undergo hydrostatic tests at a pressure 1.5	chamber are to undergo hydrostatic tests at a pressure 1.5					
times the approved working pressure of the surface	times the approved working pressure of the deck					
compression chamber and it is to be confirmed that no leakage	decompression chamber and it is to be confirmed that no					
nor injurious deformation exists.	leakage nor injurious deformation exists.					
3 Upon completion of all works, the <u>surface</u>	3 Upon completion of all works, the deck					
compression chamber is to undergo an airtightness test at the	decompression chamber is to undergo an airtightness test at					
approved working pressure for all conditions including mating	the approved working pressure for all conditions including					
conditions with the diving bell and the evacuation system, and	mating conditions with the diving bell and the evacuation					
service condition of the service lock.	system, and service condition of the service lock.					
Service condition of the service lock.	system, and service condition of the service lock.	Editorial correction				
2.2.7 Survey of Evacuation System and Hyperbaric	2.2. <u>5</u> Survey of Evacuation System	Euroriai correction				
Survival Craft (HBSC)	2.2.5 Survey of Evacuation System					
The survey of the evacuation system and Hyperbaric	The survey of the evacuation system <u>is</u> to be in accordance					
The survey of the evacuation system and hyperbane	The survey of the evacuation system is to be in accordance					

Amended-Original Requirements Comparison Table (2023 Diving Code)					
Amended	Original	Remarks			
<u>Survival Craft (HBSC)</u> is are to be in accordance with the requirements for the <u>surface compression</u> chamber specified in 2.2.46.	with the requirements for the <u>deck decompression</u> chamber specified in 2.2.4.				
2.2.8 Survey of Handling System (Same as on the right)	 2.2.6 Survey of Handling System The handling system is to undergo tests and inspections in accordance with the following (1) to (3): (1) Winches and the derrick systems are to undergo the tests correspondingly in accordance with the Rules for Cargo Handling Appliances. (2) Breaking tests are to be carried out for ropes correspondingly in accordance with the requirements in Part L of the Rules for the Survey and Construction of Steel Ships. (3) Proof tests are to be carried out for fittings such as 	Editorial correction			
2.2.9 Survey of Pressure Vessels, Piping Systems, etc. (Same as on the right)	hooks, shackles, blocks, etc. by a load deemed appropriate by the Society. 2.2.7 Survey of Pressure Vessels, Piping Systems, etc. The pressure vessels, piping systems, etc. are to undergo	Editorial correction			
 Pressure vessels are to undergo the tests in accordance with the requirements in Chapter 10, Part D of the Rules for the Survey and Construction of Steel Ships. Piping systems as a rule, are to undergo the tests in accordance with the requirements in Chapter 12, Part D of the Rules for the Survey and Construction of Steel Ships. In this case, the important piping systems such as piping systems penetrating the diving bell or the surface compression chamber are to undergo tests as piping systems, Group 	tests and inspections in accordance with the following (1) to (4): (1) Pressure vessels are to undergo the tests in accordance with the requirements in Chapter 10, Part D of the Rules for the Survey and Construction of Steel Ships. (2) Piping systems as a rule, are to undergo the tests in accordance with the requirements in Chapter 12, Part D of the Rules for the Survey and Construction of Steel Ships. In this case, the important piping systems such as piping systems penetrating the diving bell or the deck decompression chamber are to undergo tests as piping systems, Group				

	Amended-Original Requirements Comparison Table (2023 Diving Code)					
	Amended		Original	Remarks		
(4)	I. Auxiliary machinery used in the handling system and the breathing gas supply system for pressurizing and decompressing are to undergo the tests in accordance with the requirements in Chapter 12, Part D of the Rules for the Survey and Construction of Steel Ships. Pressure vessels and piping systems installed outside the diving bell (including electrical machinery and equipment installed outside the diving bell), inside the hyperbaric diving bell or inside the deck decompression chamber which are subjected to the pressure corresponding to the diving depth of the diving bell, the internal pressure of the hyperbaric diving bell or the internal pressure of the surface compression chamber as an external pressure, are to be hydrostatically tested at an external pressure corresponding to 1.5 times the maximum diving depth of the diving bell or an external pressure 1.5 times the approved working pressure of the diving bell or the surface compression chamber respectively. However, omission of tests or modification of test pressure may be made in consideration of their construction and operating procedure.	(4)	I. Auxiliary machinery used in the handling system and the breathing gas supply system for pressurizing and decompressing are to undergo the tests in accordance with the requirements in Chapter 12, Part D of the Rules for the Survey and Construction of Steel Ships. Pressure vessels and piping systems installed outside the diving bell (including electrical machinery and equipment installed outside the diving bell), inside the hyperbaric diving bell or inside the deck decompression chamber which are subjected to the pressure corresponding to the diving depth of the diving bell, the internal pressure of the hyperbaric diving bell or the internal pressure of the deck decompression chamber as an external pressure, are to be hydrostatically tested at an external pressure corresponding to 1.5 times the maximum diving depth of the diving bell or an external pressure 1.5 times the approved working pressure of the diving bell or the deck decompression chamber respectively. However, omission of tests or modification of test pressure may be made in consideration of their construction and operating procedure.			
				Editorial correction		
-	10 Survey of Electrical Installation	2.2. <u>8</u>	·			
(San	ne as on the right)		s and inspections on the electrical installation are to be			
(1)	Insulation resistance tests are to be carried out.		out in accordance with the following (1) to (6): Insulation resistance tests are to be carried out.			
(1) (2)	Electrical machinery and equipment used in the	(1) (2)	Electrical machinery and equipment used in the			
(2)	handling system and the breathing gas supply system	(2)	handling system and the breathing gas supply system			
	specified in 4.9.2 are to undergo tests in accordance		specified in <u>8.5.5</u> are to undergo tests in accordance			
	with the requirements in Part H of the Rules for the		with the requirements in Part H of the Rules for the			
	Survey and Construction of Steel Ships.		Survey and Construction of Steel Ships.			
L	our regular construction of sectionips.	l	24/146			

	Amended-Original Requirements Comparison Table (2023 Diving Code)					
	Amended		Original	Remarks		
(3)	Penetrating parts of cables through the diving bell	(3)	Penetrating parts of cables through the diving bell			
	specified in $1.1.8-26(4)$ are to be hydrostatically		specified in $8.5.8-4$ are to be hydrostatically tested by			
	tested by a method approved by the Society.		a method approved by the Society.			
(4)	Cables are to undergo tests in accordance with the	(4)	Cables are to undergo tests in accordance with the			
	requirements in Part H of the Rules for the Survey		requirements in Part H of the Rules for the Survey			
	and Construction of Steel Ships. However, as for the		and Construction of Steel Ships. However, as for the			
	cables used inside the hyperbaric diving bell and the		cables used inside the hyperbaric diving bell and the			
	surface compression chamber, tests in consideration		deck decompression chamber, tests in consideration			
	of the environmental condition, and as for the cables		of the environmental condition, and as for the cables			
	between the diving bell and the attendant ship and		between the diving bell and the attendant ship and			
	others installed outside the diving bell, hydrostatic		others installed outside the diving bell, hydrostatic			
	tests at a pressure corresponding to 1.5 times the		tests at a pressure corresponding to 1.5 times the			
	maximum diving depth of the diving bell are to be		maximum diving depth of the diving bell are to be			
	carried out in addition respectively.		carried out in addition respectively.			
(5)	Cable connectors used in the water are to be	(5)	Cable connectors used in the water are to be			
	hydrostatically tested at a pressure corresponding to		hydrostatically tested at a pressure corresponding to			
	1.5 times the maximum diving depth of the diving		1.5 times the maximum diving depth of the diving			
	bell.		bell.			
(6)	Electrical machinery and equipment provided inside	(6)	Electrical machinery and equipment provided inside			
	the hyperbaric diving bell and the surface		the hyperbaric diving bell and the <u>deck</u>			
	compression chamber are to undergo tests by a		decompression chamber are to undergo tests by a			
	method approved by the Society in order to confirm		method approved by the Society in order to confirm			
	that can be used safely in their environmental		that can be used safely in their environmental			
	condition.		condition.			
221	1 C	226	S	Editorial correction		
_	1 Survey of Other Equipment	2.2. <u>9</u>				
`	e as on the right)		ormance tests are to be carried out on the followings:			
`	eted)	(1)	The life support system specified in Chapter 5.			
<u>(1)</u>	The instruments specified in $1.1.8-16$ to -18 .	(<u>2</u>)	The instruments and communication system specified in Chapter 6			
(2)	The emergency surfacing among ment ancified in	(2)	in <u>Chapter6</u> . The amergency surfacing arrangement specified in			
(<u>2</u>)	The emergency surfacing arrangement specified in	(<u>3</u>)	The emergency surfacing arrangement specified in			
(2)	1.1.8-19. The fixed fire extinguishing exetent the externation	(4)	<u>Chapter7.</u> The fixed fire extinguishing system the externation			
(<u>3</u>)	The fixed fire-extinguishing system, the <u>automatic</u>	(<u>4</u>)	The fixed fire-extinguishing system, the <u>automatic</u>			
	fire detection and alarm system and the water spray		fire detection and alarm system and the water spray			

Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks				
system specified in <u>4.8</u> . (4) The life support system of breathing gas supply, etc.	system specified in <u>9.2</u> . (Newly added)	(4) Moved from above				
 specified in 5.8. (5) The communication and location systems specified in 5.13. 	(5) The communication <u>system</u> specified in <u>6.2.1</u> .	(1)				
(Deleted)	(6) The emergency locating device specified in 6.2.2 .	Editorial correction				
2.2.12 Tests at the Maximum Diving Depth (Same as on the right)	2.2.10 Tests at the Maximum Diving Depth Upon completion of all works and after installed on board the attendant ship, the diving system is to undergo a trial test at the maximum diving depth to confirm the performance of the structures of individual parts and the equipment and their condition of operation.	Editorial correction				
2.3 Registration Maintenance Surveys	2.3 Registration Maintenance Surveys					
2.3.1 Special Surveys (Same as on the right)	 2.3.1 Special Surveys 1 At each Special Survey for the diving systems, the following surveys are to be carried out to the satisfaction of the Surveyor: 					
(1) Inspection of the actual condition of the pressure hull of the diving bell (including its view ports and covers).	(1) Inspection of the actual condition of the pressure hull of the diving bell (including its view ports and covers).					
(2) Inspection of the actual condition of the shell structure of the <u>surface compression</u> chamber and its windows, covers and doors.	(2) Inspection of the actual condition of the shell structure of the <u>deck decompression</u> chamber and its windows, covers and doors.					
(3) Inspection of the actual condition of the handling system and the breathing gas supply system for pressurizing and decompressing.	(3) Inspection of the actual condition of the handling system and the breathing gas supply system for pressurizing and decompressing.					
(4) Inspection of the actual condition of the electrical installation, the piping systems, etc.	(4) Inspection of the actual condition of the electrical installation, the piping systems, etc.					
(5) Inspection resistance test of the electrical	(5) Inspection resistance test of the electrical					

	Amended-Original Requirements Comparison Table (2023 Diving Code)				
	Amended		Original	Remarks	
(6)	installations.	(6)	installations.		
(6)	Overhaul inspection of the watertight or airtight	(6)	Overhaul inspection of the watertight or airtight		
	packings at the penetrating parts of pipes, shafts,		packings at the penetrating parts of pipes, shafts,		
	cable connectors, etc. through the diving bell or the		cable connectors, etc. through the diving bell or the		
	surface compression chamber.		deck decompression chamber.		
(7)	Upon removal of view ports, covers and penetrating	(7)	Upon removal of view ports, covers and penetrating		
	pieces of the diving bell and the piping systems		pieces of the diving bell and the piping systems		
	installed outside the diving bell, hydrostatic tests		installed outside the diving bell, hydrostatic tests		
	specified in 2.2.3-1(3), -3(1) and (2) (only for the		specified in 2.2.3-1(3), -3(1) and (2) (only for the		
	hyperbaric diving bell) and 2.2.9(2). Where, however,		hyperbaric diving bell) and 2.2.7(2). Where, however,		
	it is difficult to carry out these tests, the tests may be		it is difficult to carry out these tests, the tests may be		
	substituted by any other tests and inspections subject		substituted by any other tests and inspections subject		
	to the approval by the Society.		to the approval by the Society.		
(8)	Upon removal by a cable penetrating parts through	(8)	Upon removal by a cable penetrating parts through		
	the diving bell, hydrostatic tests by a method		the diving bell, hydrostatic tests by a method		
	approved by the Society. Where, however, it is		approved by the Society. Where, however, it is		
	difficult to carry out hydrostatic tests, the tests may		difficult to carry out hydrostatic tests, the tests may		
	be substituted by any other tests and inspections		be substituted by any other tests and inspections		
	subject to the approval by the Society.		subject to the approval by the Society.		
(9)	Pressure tests of piping required by the Surveyor,	(9)	Pressure tests of piping required by the Surveyor,		
. ,	where deemed necessary.	. ,	where deemed necessary.		
(10)	Measurement of the plate thickness of the pressure	(10)	Measurement of the plate thickness of the pressure		
, ,	hull of the diving bell and the shell structure of the	, ,	hull of the diving bell and the shell structure of the		
	surface compression chamber, where deemed		deck decompression chamber, where deemed		
	necessary.		necessary.		
(11)		(11)	Performance tests of the followings:		
, ,	(Deleted)		(a) The life support system specified in Chapter5		
	(a) The instruments specified in 1.1.8-16 to -18		(b) The instruments and the communication system		
	1		specified in Chapter6		
	(b) The emergency surfacing arrangement specified		(b) The emergency surfacing arrangement specified		
	in 1.1.8-19.		in 1.1.8-19.		
	(c) The lighting arrangement		(c) The lighting arrangement		
	(Deleted)		(d) The electric power receiving system specified in		
	\ /		,		

Amended	Original	Remarks
(Deleted) (d) The <u>automatic</u> fire detection and alarm system specified in <u>4.8</u> (e) The electric power receiving system specified in <u>4.9.2</u> (f) The communication system specified in <u>5.13</u> (Deleted)	8.5.5 (e) The emergency surfacing arrangement specified in Chapter7 (f) The fire detection and alarm system specified in 9.2.2 (Newly added) (g) The communication system specified in 6.2.1 (h) The emergency locating device specified in 6.2.2	Remarks
 (12) Diving test to the maximum diving depth or external pressure test equivalent thereto. (13) Performance tests of the fixed fire-extinguishing system and the water spray system specified in 4.8. (14) Any other inspections deemed necessary by the Society. (Same as on the right) 	 (12) Diving test to the maximum diving depth or external pressure test equivalent thereto. (13) Performance tests of the fixed fire-extinguishing system and the water spray system specified in 9.2. (14) Any other inspections deemed necessary by the Society. 2 Where inspections to certain items have been carried out in previous Annual Survey or subsequent Surveys correspondingly in accordance with the requirement for the Special Survey, the inspections for these items in detail may be dispensed with at the discretion of the Surveyor. 	

Amended-Original Requirements Comparison Table (2023 Diving Code)		
Amended	Original	Remarks
2.3.2 Annual Surveys (Same as on the right)	2.3.2 Annual Surveys At each Annual Survey for the diving systems, inspections specified in 2.3.1-1(1) to (5) and (11), overhaul inspections of watertight and airtight packings at the penetrating parts through the diving bell which are deemed necessary by the Society and diving tests to the depth deemed appropriate by the Society are to be carried out to the satisfaction of the Surveyor. Where, however, deemed appropriate by the Surveyor, examining the records of voluntary maintenance and examination record and the underwater operation record, the overhaul inspections of watertight and airtight packings may be partly exempted. And, with regard to the matters which were inspected correspondingly in accordance with the requirements for the Annual Surveys within 6 months prior to the Survey, the inspection for these items may be dispensed with at the discretion of the Survey.	
2.3.3 Unscheduled Surveys (Same as on the right)	2.3.3 Unscheduled Surveys At Unscheduled Surveys, investigations, examinations or tests are to be made to the satisfaction of the Surveyor with respect to the matters concerned.	

Amended	Original	Remarks
2.4 Certificates	(Newly added)	Introduction
		Surveys and
		Certification
2.4.1 The issuance of certificates		$5.7 \sim 5.11$, IMO Diving
1 After survey or inspection, a Certificate is to be issued		Code
either by the Administration or the Society after survey or		
inspection to a diving unit which complies with the provisions		
of the Rules. In every case the Administration should assume		
<u>full responsibility for the Certificate.</u>		
2 The Certificate is to be drawn up in the official		
language of the Administration in the form corresponding to		
the model given in appendix 2 of IMO Resolution		
MSC.548(107). If the language used is neither English, French		
nor Spanish, the text is to include a translation into one of		
these languages.		
3 Any alternative arrangements granted under 1.1.4		
above are to be clearly noted on the Certificate specified in -		
<u>2.</u>		
4 A Certificate specified in -1 above is to be issued for a		
period specified by the Society, and is not exceed five years		
from the date of issue.		
5 An extension of the validity of the Certificate specified		
in -1 above may be granted for a maximum period of five		
months at the discretion of the Society, subject to an annual		
survey being carried out.		

Amended	Original Original	Remarks
Chapter 3 DIVING UNIT PRINCIPLES (REDUNDANCY AND INTEGRATION) 3.1 Goal	(Newly added)	The content and structure of this chapter onwards do, for the most part, reflect the 2023 Diving Code, except for some minor differences.
3.1.1 General (2023 Diving Code 2.1) The goal of this chapter is to define the overall redundancy and integration provisions for the diving unit when integrating the diving system into the diving platform.		
3.2 Functional criteria		
3.2.1 General (2023 Diving Code 2.2) In order to achieve its goal in 3.1 above, this chapter embodies the following provision.		
3.3 Redundancy level and risks external to the diving activity (Diving Code 2.3)		
3.3.1 Goal (2023 Diving Code 2.3.1) The goal of this section is to ensure that the diving unit has sufficient redundancy suitable for its intended operation and for all diving system equipment critical to life support, considering all relevant internal and external risk factors.		
3.3.2 Functional criteria (2023 Diving Code 2.3.2 and 2.3.3) 1 In order to achieve the goal set out in section 3.3.1 above, the following requirements are to be satisfied.		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
(1) the technical level of fault tolerance in the diving unit		
plant and equipment is to be matched to the safety-		
critical aspects of the intended operation and define		
any additional levels of redundancy; and		
(2) interactions with other objects and non-diving		
activities both on board and external to the diving unit		
are not to reduce the designed redundancy level.		
2 In order to comply with the functional criteria of		
section -1 above, the following requirements are to be applied.		
(1) When working on subsea objects where the		
termination of diving operations may lead to		
additional risks to the environment or other personnel,		
the redundancy of the diving unit is to be at a level to		
cover the risks to both the diver and the environment.		
(2) When working on subsea objects where the		
termination of diving operations may be achieved		
safely without risk at any time, the systematic review		
required under section 3.4 is to be considered to		
achieve an acceptable level.		
(3) Where another onboard activity also requires access		
to systems or services supporting the diving activity,		
these are to be separated as far as possible. Where		
these cannot be separated, failures within the other		
activity's equipment are to be included within a		
systematic review required under section 3.4.		
(4) Where communication, signals or other information		
are critical to safe diving unit operation, but originate		
externally to the diving unit or from a non-diving		
activity, the redundancy of these is to be addressed in		
the systematic review required under section 3.4.		
(5) Any findings from the above are to be clearly		
identified within the systematic review required under		
section 3.4.		

3.4.1 Goal (2023 Diving Code 2.4.1) The goal of this section is to ensure that the diving unit can tolerate failures without creating a hazardous situation. 3.4.2 Functional criteria (2023 Diving Code 2.4.2 and 2.4.3) 1 In order to achieve the goal set out in section 3.4.1 above, the diving unit is to be designed and tested to ensure and verify that it is sufficiently safeguarded against failures creating a hazardous situation in terms of: (1) failure of components and systems; (2) loss of any services to the diving unit; and (3) inadvertent and intentional acts, and to ensure that: (4) the criticality of components and systems is identified; (5) the designed level of redundancy is maintained throughout the service life; and (6) mitigations are suitably documented and accessible to the operator. 2 In order to comply with the functional criteria of section—1 above, the following are to be considered as essential services as per SOLAS Chapter II-1. (2) The essential services listed in Part II of the DUSC are to be specially considered in relation to the diving platform supply arrangements and all consumer decmands. (3) No single failure of a component, either static or		ements Comparison Table (2023 Diving Code)	T - :
3.4.1 Goal (2023 Diving Code 2.4.1) The goal of this section is to ensure that the diving unit can tolerate failures without creating a hazardous situation. 3.4.2 Functional criteria (2023 Diving Code 2.4.2 and 2.4.3) 1 In order to achieve the goal set out in section 3.4.1 above, the diving unit is to be designed and tested to ensure and verify that it is sufficiently safeguarded against failures creating a hazardous situation in terms of: (1) failure of components and systems; (2) loss of any services to the diving unit; and (3) inadvertent and intentional acts, and to ensure that; (4) the criticality of components and systems is identified; (5) the designed level of redundancy is maintained throughout the service life; and (6) mitigations are suitably documented and accessible to the operator. 2 In order to comply with the functional criteria of section -1 above, the following are to be complied with: (1) All services supporting the divers directly, including environmental control, are to be considered as essential services as per SOLAS Chapter II-1. (2) The essential services listed in Part II of the DUSC are to be specially considered in relation to the diving platform supply arrangements and all consumer demands. (3) No single failure of a component, either static or	Amended	Original	Remarks
The goal of this section is to ensure that the diving unit can tolerate failures without creating a hazardous situation. 3.4.2 Functional criteria (2023 Diving Code 2.4.2 and 2.4.3) 1 In order to achieve the goal set out in section 3.4.1 above, the diving unit is to be designed and tested to ensure and verify that it is sufficiently safeguarded against failures creating a hazardous situation in terms of; (1) failure of components and systems; (2) loss of any services to the diving unit; and (3) inadvertent and intentional acts, and to ensure that: (4) the criticality of components and systems is identified; (5) the designed level of redundancy is maintained throughout the service life; and mitigations are suitably documented and accessible to the operator. 2 In order to comply with the functional criteria of section -1 above, the following are to be considered as essential services as per SOI.AS Chapter II-1. (2) The essential services listed in Part II of the DUSC are to be specially considered in relation to the diving platform supply arrangements and all consumer demands. (3) No single failure of a component, either static or	3.4 Redundancy and essential services (2023 Diving		
The goal of this section is to ensure that the diving unit can tolerate failures without creating a hazardous situation. 3.4.2 Functional criteria (2023 Diving Code 2.4.2 and 2.4.3) 1 In order to achieve the goal set out in section 3.4.1 above, the diving unit is to be designed and tested to ensure and verify that it is sufficiently safeguarded against failures creating a hazardous situation in terms of: (1) failure of components and systems; (2) loss of any services to the diving unit; and (3) inadvertent and intentional acts, and to ensure that: (4) the criticality of components and systems is identified; (5) the designed level of redundancy is maintained throughout the service life; and (6) mitigations are suitably documented and accessible to the operator. 2 In order to comply with the functional criteria of section -1 above, the following are to be compiled with: (1) All services supporting the divers directly, including environmental control, are to be considered as essential services as per SOLAS Chapter II-1. (2) The essential services listed in Part II of the DUSC are to be specially considered in relation to the diving platform supply arrangements and all consumer demands. (3) No single failure of a component, either static or	Code 2.4)		
The goal of this section is to ensure that the diving unit can tolerate failures without creating a hazardous situation. 3.4.2 Functional criteria (2023 Diving Code 2.4.2 and 2.4.3) 1 In order to achieve the goal set out in section 3.4.1 above, the diving unit is to be designed and tested to ensure and verify that it is sufficiently safeguarded against failures creating a hazardous situation in terms of: (1) failure of components and systems; (2) loss of any services to the diving unit; and (3) inadvertent and intentional acts, and to ensure that: (4) the criticality of components and systems is identified; (5) the designed level of redundancy is maintained throughout the service life; and (6) mitigations are suitably documented and accessible to the operator. 2 In order to comply with the functional criteria of section -1 above, the following are to be compiled with: (1) All services supporting the divers directly, including environmental control, are to be considered as essential services as per SOLAS Chapter II-1. (2) The essential services listed in Part II of the DUSC are to be specially considered in relation to the diving platform supply arrangements and all consumer demands. (3) No single failure of a component, either static or			
The goal of this section is to ensure that the diving unit can tolerate failures without creating a hazardous situation. 3.4.2 Functional criteria (2023 Diving Code 2.4.2 and 2.4.3) 1 In order to achieve the goal set out in section 3.4.1 above, the diving unit is to be designed and tested to ensure and verify that it is sufficiently safeguarded against failures creating a hazardous situation in terms of: (1) failure of components and systems; (2) loss of any services to the diving unit; and (3) inadvertent and intentional acts, and to ensure that: (4) the criticality of components and systems is identified; (5) the designed level of redundancy is maintained throughout the service life; and (6) mitigations are suitably documented and accessible to the operator. 2 In order to comply with the functional criteria of section -1 above, the following are to be compiled with: (1) All services supporting the divers directly, including environmental control, are to be considered as essential services as per SOLAS Chapter II-1. (2) The essential services listed in Part II of the DUSC are to be specially considered in relation to the diving platform supply arrangements and all consumer demands. (3) No single failure of a component, either static or			
a.4.2 Functional criteria (2023 Diving Code 2.4.2 and 2.4.3) 1 In order to achieve the goal set out in section 3.4.1 above, the diving unit is to be designed and tested to ensure and verify that it is sufficiently safeguarded against failures creating a hazardous situation in terms of: (1) failure of components and systems; (2) loss of any services to the diving unit; and (3) inadvertent and intentional acts, and to ensure that: (4) the criticality of components and systems is identified; (5) the designed level of redundancy is maintained throughout the service life; and (6) mitigations are suitably documented and accessible to the operator. 2 In order to comply with the functional criteria of section -1 above, the following are to be complied with: (1) All services supporting the divers directly, including environmental control, are to be considered as essential services as per SOLAS Chapter II-1. (2) The essential services is leted in Part II of the DUSC are to be specially considered in relation to the diving platform supply arrangements and all consumer demands. (3) No single failure of a component, either static or	3.4.1 Goal (2023 Diving Code 2.4.1)		
3.4.2 Functional criteria (2023 Diving Code 2.4.2 and 2.4.3) 1 In order to achieve the goal set out in section 3.4.1 above, the diving unit is to be designed and tested to ensure and verify that it is sufficiently safeguarded against failures creating a hazardous situation in terms of: (1) failure of components and systems; (2) loss of any services to the diving unit; and (3) inadvertent and intentional acts, and to ensure that: (4) the criticality of components and systems is identified; (5) the designed level of redundancy is maintained throughout the service life; and (6) mitigations are suitably documented and accessible to the operator. 2 In order to comply with the functional criteria of section-1 above, the following are to be complied with: (1) All services supporting the divers directly, including environmental control, are to be considered as essential services listed in Part II of the DUSC are to be specially considered in relation to the diving platform supply arrangements and all consumer demands. (3) No single failure of a component, either static or	The goal of this section is to ensure that the diving unit		
3.4.2 Functional criteria (2023 Diving Code 2.4.2 and 2.4.3) 1 In order to achieve the goal set out in section 3.4.1 above, the diving unit is to be designed and tested to ensure and verify that it is sufficiently safeguarded against failures creating a hazardous situation in terms of: (1) failure of components and systems; (2) loss of any services to the diving unit; and (3) inadvertent and intentional acts, and to ensure that: (4) the criticality of components and systems is identified; (5) the designed level of redundancy is maintained throughout the service life; and (6) mitigations are suitably documented and accessible to the operator. 2 In order to comply with the functional criteria of section-1 above, the following are to be complied with: (1) All services supporting the divers directly, including environmental control, are to be considered as essential services listed in Part II of the DUSC are to be specially considered in relation to the diving platform supply arrangements and all consumer demands. (3) No single failure of a component, either static or	can tolerate failures without creating a hazardous situation.		
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(3) No single failure of a component, either static or			
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	dynamic, nor a single inadvertent act is to lead to life-		

	Amended-Original Requirements Comparison Table (2023 Diving Code)			
	Amended	Original	Remarks	
	threatening situations for any person, or to			
	unacceptable damage to facilities or the environment.			
	However, where a failure mode of a system or			
	component cannot be addressed by redundancy, either			
	following (a) or (b) below is to be conducted.			
	(a) independent backup arrangements should be			
	provided (e.g. in the case of umbilical			
	separation); or			
	(b) the system or component is to be designed and			
	built to recognized national or international			
	standards that have appropriate safety factors for			
	manned application in similar service conditions			
	(e.g. PVHO rupture).			
(4)	Essential services for divers in the water are to have			
	sufficient redundancy to ensure the divers can return			
	to a safe haven within the diving bell or basket.			
(5)	Essential services for divers located in a diving bell or			
	basket are to have sufficient redundancy to ensure the			
	diver can return to a safe haven within the diving unit.			
(6)	Essential services for divers in the diving unit are to			
	have sufficient redundancy to ensure that all planned			
	decompressions can be completed at the planned			
	normal rate. The ability to provide hyperbaric medical			
	care is not to be adversely affected.			
(7)	Emergency services are not to replace the required			
	redundancies. Emergency services are to allow divers			
	within the diving system or in the water to safely			
	evacuate the diving unit.			
(8)	Emergency power services are to be available to			
	provide services to the surface compression chamber			
	complex in order to complete the normal planned			
	decompression without main power.			
(9)	A systematic risk review of the diving unit is to be			

S

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
required in Chapter 6.		
(c) Any failures that allow compliance with (3) and		
(4) above, but leave the diving unit below the		
designed redundancy level is to be identified to		
ensure such failures will result in termination of		
appropriate operations.		
(d) Mitigations or potential hidden failures that are		
controlled by inspection and testing are to be		
addressed by maintenance routines.		
3.5 Enabling evacuation and protection from external		
events (2023 Diving Code 2.5)		
3.5.1 Goal (2023 Diving Code 2.5.1)		
The goal of this section is to provide a basis for		
reviewing the suitability of the diving unit to enable the diving		
system to withstand accidental events originating elsewhere in		
the diving platform and also to allow recovery and safe		
evacuation of divers.		
<u> </u>		
3.5.2 Functional criteria (2023 Diving Code 2.5.2 and		
2.5.3)		
1 In order to achieve the goal set out in section 3.5.1		
above, the diving unit is to comply with the following		
<u>requirements.</u>		
(1) the diving unit design is to be such that a survivable		
incident elsewhere on the diving unit does not force		
the divers to evacuate the diving unit by way of the		
HBSC; and		
(2) the diving unit is to provide protection so as to allow		
the divers sufficient time to be recovered and		
evacuated taking into account the type of diving		

UUUUUUUU	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
operations.		
2 In order to comply with the functional criteria of		
section -1 above, the following requirements are to be		
complied with.		
(1) A fire or flooding event in any single compartment		
outside the diving system is not to interrupt essential		
services.		
(2) The diving system is to be physically separated and		
protected from the rest of the diving unit with suitable		
structural fire protection to allow a full evacuation of		
the divers.		
(3) The provisions for a diving platform carrying out		
saturation diving operations, are intended to provide		
60 minutes for evacuation. This time is to account for:		
(a) recovery of the bell and mating with the chamber		
complex;		
(b) pressurization time required to evacuate divers at		
differing diving depths; and		
(c) moving divers to the HBSC and subsequent		
launch and clear.		
The evacuation procedure, including		
pressurization, is to be tested and timed to ensure		
it is within this time limit. Should this not be		
possible, depth limitations are to be introduced.		
(4) For surface orientated diving systems (not those		
including planned surface decompression) evacuation		
are to be completed within 15 minutes. This time is to		
account for:		
(a) emergency decompression from the deepest		
treatment depth;		
(b) moving divers and any required medical supplies		
to the diving platform's life-saving appliances;		
<u>and</u>		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
(c) subsequent launch of the life-saving appliance		
and until it is clear of the diving unit. The		
evacuation procedure including pressurization is		
to be tested and timed to ensure it is within this		
time limit. Should this not be possible, structural		
fire protection is to be added to protect the diving		
system.		
(5) For surface orientated diving systems with planned		
surface decompression that are unable to evacuate the		
diver within 15 minutes, the diving system is to be		
protected as for saturation diving (see 3.5.2-2(3)		
above) and allow decompression and evacuation		
within 60 minutes. If this cannot be achieved with the		
planned or emergency decompression schedule, an		
HBSC is to be provided.		
inse is to ou provided.		
3.6 Integration of the diving system and diving		
platform to create the diving unit (2023 Diving		
Code 2.6)		
<u> </u>		
3.6.1 Goal (2023 Diving Code 2.6.1)		
The goal of this section is to provide a basis for		
ensuring that integration of the diving system into the diving		
platform is managed and documented.		
<u></u>		
3.6.2 Functional criteria (2023 Diving Code 2.6.2 and		
2.6.3)		
1 In order to achieve the goal set out in section 3.6.1		
above, the boundaries of the diving system and the diving		
platform are to be defined allowing them to function as a		
diving unit.		
2 In order to comply with the functional criteria of		
		1

Amended	Original	Remarks
section -1 above, the following requirements are to be		
complied with.		
(1) A block diagram showing the diving system located		
on board the diving platform is to be produced.		
(2) Any service or supply to or from the diving system		
are to be marked at the boundary location including		
specifications of the supply and its status as an		
essential service. All systems that are affected by the		
marked supplies are to be tested after integration.		
(3) The provisions of this Code, in particular Chapter 6,		
are verified by the diving platform company in		
compliance with the ISM Code part B. Chapter 6 is		
to be considered the equivalent of a mandatory code		
when reviewing the ISM Code part A, 1.2.3.1.		
(4) Mustering locations and evacuation plans,		
particularly if diving platform crew will man the		
HBSC, is to be reviewed.		
(5) The performance of life support and environmental		
controls for the diving system is to be verified after		
integration.		
(6) The integrated diving unit is to be tested as provided		
for in section 3.4.		

	ments Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
Chapter 4 OPERATIONAL CAPABILITIES	(Newly added)	
AND LIMITATIONS OF DIVING PLATFORMS		
FOR CONDUCTING SAFE DIVING OPERATIONS		
FOR CONDUCTING SAFE DIVING OF ERATIONS		
41 Cool		
<u>4.1 Goal</u>		
4.1.1 General (2023 Diving Code 3.1)		
The goal of this chapter is to define the operational		
capabilities and limitations of a diving platform from which		
safe diving operations will be conducted.		
4.2 Functional Criteria		
4.2.1 General (2023 Diving Code 3.2)		
In order to achieve its goal in 4.1 above, this chapter		
embodies the following provision.		
4.3 Geographic Location and Environmental		
Conditions (2023 Diving Code 3.3)		
4.3.1 Goal (2023 Diving Code 3.3.1)		
The goal of this section is to ensure that the diving unit		
is capable of conducting safe diving operations, including any		
necessary hyperbaric evacuation, in the anticipated		
environmental conditions.		
4.3.2 Functional Criteria (2023 Diving Code 3.3.2		
and 3.3.3)		
1 In order to achieve the goal set out in 4.3.1 above, the		
I in order to achieve the goar set out in 4.3.1 above, the	50/146	

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
diving unit should provide full functionality under the		
anticipated environmental conditions, taking into account.		
(1) Diving platform response		
(2) Air temperature range (minimum and maximum)		
(3) Solar radiation		
(4) Water depth		
(5) Water temperature range (minimum and maximum)		
(6) Wind and sea state		
2 In order to comply with the functional criteria of in -1		
above, the following applies:		
(1) The diving unit is to provide full functionality to the		
intended diving depth in the anticipated		
environmental conditions.		
(2) The diving unit is to have a safe operating envelope		
defined for the intended operational diving conditions		
and for standby conditions when divers are not		
operating in the water. These operational limits are		
determined from the limiting criteria of the combined		
diving system and diving platform.		
4.4 Standard Integrity and Impaged Loads (2022)		
4.4 Structural Integrity and Imposed Loads (2023 Diving Code 3.4)		
Diving Code 5.4)		
4.4.1 Goal (2023 Diving Code 3.4.1)		
The goal of this section is to define the minimum		
standards for diving platform structural loads, imposed loads		
and connections.		
4.4.2 Functional Criteria (2023 Diving Code 3.4.2		
and 3.4.3)		
1 In order to achieve the goal set out in 4.4.1 above, the		
following functional criteria are embodied. Supporting		

	riginai Requirements Com	parison Table (2023 Diving Code)	
Amended		Original	Remarks
structures are to comply with the following:			
(1) ensure that the surface compression ch	amber complex		
is adequately supported and not subje	cted to imposed		
loads due to deck loading or deflection	<u>n;</u>		
(2) allow for any expansions or contr	ractions of the		
surface compression chamber con	nplex due to		
pressure and temperature changes;			
(3) support the surface compression chan	ber complex in		
all required service conditions inc	luding damage		
conditions and in the event of a collis	on; and		
(4) for launch and recovery systems (LAF	(S), be designed		
to withstand imposed loads expected	<u> </u>		
environmental design conditions a	t its installed		
position on the diving platform.			
2 In order to comply with the function	al criteria of -1		
above, the following are to be applied:			
(1) Supporting structures are to be design			
and tested in accordance with internat	<u> </u>		
standards recognized by the Ada			
proprietary specifications accept	able to the		
Administration.			
(2) Loads applied to the surface compr			
complex are to be based on the same p	•		
as the global strength for the diving p			
(3) Collision loads are to be at least one			
of the surface compression chamber	<u> </u>		
forward direction and one quarter the	weight in the aft		
direction.			

	ments Comparison Table (2023 Diving Code)	<u></u>
Amended	Original	Remarks
4.5 Placement and Configuration of Diving System on		
Diving Platform (2023 Diving Code 3.5)		
4.5.1 Goal (2023 Diving Code 3.5.1)*		
The goal of this section is to ensure that diving systems		
are placed and configured on diving platforms so as to ensure		
the safe operation of the diving unit.		
4.5.2 Functional Criteria (2023 Diving Code 3.5.2		
and 3.5.3)		
1 In order to achieve the goal set out in 4.5.1 above, the		
following functional criteria are embodied.		
(1) The diving unit is to be configured such that		
propulsion, anchoring and mooring systems or		
intakes, do not pose a risk to the diving operation.		
(2) When any part of the diving system is sited on deck,		
particular consideration is to be given to providing		
reasonable protection from the sea, icing, solar		
radiation, dropped objects, lifting operations or any		
damage which may result from other activities on		
board the diving platform.		
(3) The diving system is to be protected from hazardous		
gases and materials.		
(4) Gases required by the diving system are to be stored		
in a safe manner.		
(5) Pressure vessel for human occupancy (PVHO)		
occupants are to be protected from noise and vibration		
produced by diving platform systems.		
(6) Personnel on the diving platform is to be protected		
from noise and vibration created by the diving		
operation.		
(7) The HBSC is to be protected from impacts and green		
seas.		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
(8) Gases vented from the diving system is to be vented		
to a safe position where they cannot accumulate.		
2 In order to comply with the functional criteria of -1		
above, the following are to be applied:		
(1) The diving systems and breathing gas storage		
facilities are not to be sited in machinery spaces if the		
machinery is not associated with the diving system.		
Gases required by the diving system is to be stored		
and distributed in a safe manner.		
(2) Siting of diving systems in hazardous areas are to be		
avoided as far as reasonably practicable. Where, due		
to the requirements of diving operations, systems are		
sited in hazardous areas, the electrical equipment is to		
comply with the requirements for such equipment in		
in the particular class of hazardous areas. Diving		
systems are not to be permitted in hazardous areas		
designated as Zone 0.		
(3) HBSC are to be stored inboard of the diving		
platform's sides. When an HBSC is on the main deck		
or near the waterline then risk of impacts and green		
seas are to be considered.		
(4) Diving systems on open decks are not to be located in		
the vicinity of ventilation openings from machinery		
spaces, exhausts or ventilation outlets from galley.		
(5) If any dangerous goods as defined by the International		
Maritime Dangerous Goods (IMDG) Code, as		
amended, are to be carried on deck, there are to be a		
specific assessment of risks to the diving system and		
the necessary measures are to be put in place to		
mitigate these risks.		
(6) Gases vented from the diving system are to be vented		
to the open air away from sources of ignition,		
personnel or any area where the presence of those		

	rements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
gases could be hazardous.		
(7) Means are to be provided to prevent any hazardous		
accumulation of gases. The discharge from		
overpressure-relief devices and exhausts should be		
directed to a location where any risk is minimized.		
(8) The diving system and breathing gas storage and		
distribution facilities are to be arranged in		
compartments or locations which are adequately		
ventilated.		
(9) Piping and gas distribution systems carrying mixed		
gas with oxygen content greater than 22 % or oxygen		
under high pressure are not to be inside living		
compartments, engine rooms or similar		
compartments. Piping systems are to comply with		
applicable international or national regulations, be		
separated from electrical cables and protected from		
damage.		
(10) Where gas mixtures with oxygen content less than		
20 % or higher than 22 % are stored in enclosed		
compartments, there are to be means of analysing the		
atmosphere inside the compartment with an		
audiovisual high/low level alarm mounted at the		
entrance to such compartments. The alarm is to be		
repeated at a manned control station for the diving		
platform.		
(11) Diving systems are to be sited such that during diving		
operations the noise and vibration exposure of		
personnel on the diving platform, PVHO occupants		
and operators, is within occupational exposure limits		
acceptable to the Society.		

Amended-Original Require	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
4.6 Subdivision and Stability (2023 Diving Code 3.6)		
4.6.1 Goal (2023 Diving Code 3.6.1)*		
The goal of this section is to ensure that the diving		
platform, with the diving system, project plant and equipment		
on board.		
(1) The diving platform is not to be liable to heel		
excessively or capsize in the anticipated		
environmental conditions.		
(2) The diving platform is to provide all personnel		
(including divers) with sufficient time to carry out an		
orderly evacuation should this become necessary.		
4.6.2 Functional Criteria (2023 Diving Code 3.6.2		
and 3.6.3)		
1 In order to achieve the goal set out in 4.6.1 above, the		
following functional criteria are embodied.		
(1) The diving platform is to provide a stable platform for		
the continued operation of the surface compression		
chamber or surface compression chamber complex		
and be able to recover any item deployed by a LARS		
after sustaining damage that may be expected in the		
operational area.		
(2) The diving platform is to provide increased protection		
to allow divers to be recovered from their operational		
location and allow sufficient time to carry out a safe		
evacuation		
2 In order to comply with the functional criteria of -1		
above, the following (or alternative codes providing the same		
performance for diving units other than ships) are to be		
complied with.		
(1) The diving unit is to be able to recover any diving		
basket, wet bell, or diving bell deployed by a LARS		

<u> </u>	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
after sustaining side damage within the extents given		
in the Guidelines for the design and construction of		
offshore supply vessels, 2006 (IMO Resolution		
MSC.235(82), as amended). The final list and trim in		
these conditions are to be within the design limits of		
list and trim for the LARS system; ballasting post		
damage may be used as a means to achieve this.		
(2) The diving unit is to comply with the damage stability		
requirements given in the Code of Safety for Special		
Purpose Ships, 2008, as amended at the appropriate R		
value.		
(3) Essential diving equipment, including that on or		
above main deck is to remain accessible and operable		
in any stage of flooding for compliance with (1) and		
(2) above. Equipment below the main deck for		
Special Purpose Ships will be considered protected if		
watertight bulkheads are provided fore and aft and		
side divisions are provided equivalent to that required		
under the Guidelines for the design and construction		
of offshore supply vessels, 2006 (IMO Resolution		
MSC.235(82), as amended).		
(4) Diving units only conducting surface orientated		
diving is to comply with the requirements for cargo		
ships, as a minimum.		
47 Position Vessing (2022 Diving Code 2.7)		
4.7 Position Keeping (2023 Diving Code 3.7)		
4.7.1 Goal (2023 Diving Code 3.7.1)		
The goal of this section is to ensure that the diving unit		
maintains position when conducting diving operations.		

Amended-Original Require	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
4.7.2 Functional Criteria (2023 Diving Code 3.7.2 and 3.7.3) 1 In order to achieve the goal set out in 4.7.1 above, the following functional criteria applies. Where divers enter the water directly from the diving platform, a position keeping system is required that does not expose any divers working subsea to an unsafe situation in the event of a single failure. 2 In order to comply with the functional criteria of -1 above, the following are to be complied with. (1) Where a dynamic positioning system is used, this is to be at least of equipment class 2, for vessels and in accordance with the Guidelines for vessels with dynamic positioning systems (MSC/Circ.645) or the Guidelines for vessels with dynamic positioning (DP) systems (MSC.1/Circ.1580), as appropriate. (2) Where mooring systems with anchors are used, these are to comply with the MODU Code, Chapter 4.12, with reference to the Guidelines on anchoring systems for MODUs (MSC/Circ.737).	Original	remarks
4.8 Fire Safety (2023 Diving Code 3.8)		
4.8.1 Goal (2023 Diving Code 3.8.1) The goal of this section is to define the minimum fire safety standards needed for the diving unit to conduct safe operations.		
4.8.2 Functional Criteria (2023 Diving Code 3.8.2 and 3.8.3) 1 In order to achieve the goal set out in 4.8.1 above, the		

Amended-Original Require	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
following functional criteria are embodied.		
(1) Protection of pressure vessels in the diving system		
from excessive heat.		
(2) Protection of essential equipment supplying the		
diving system from fires originating in the rest of the		
diving platform.		
(3) Suitable fire detection and extinguishing within the		
diving system, which affords sufficient protection for		
control station operators and divers to carry out a safe		
evacuation.		
2 In order to comply with the functional criteria of -1		
above, the following are to be applied.		
(1) Non-metallic materials used in connection with the		
diving system are to be, as far as is reasonably		
practicable, of fire-retardant type and non-hazardous		
in accordance with the FTP Code, part 2 and 5		
(3.2.23, Part R of the Rules for the Survey and		
Construction of Steel Ships).		
(2) Compartments in the interior of the diving platform,		
in which the diving system or its auxiliary equipment		
is carried, are to be provided with class A-60 standard		
structural fire protection as specified in 3.2.2, Part R		
of the Rules for the Survey and Construction of		
Steel Ships, arranged to protect against an external		
<u>fire.</u>		
(3) When diving systems are installed on open decks or		
similar structures that are directly adjacent to category		
A machinery spaces, the systems are to be separated		
from the machinery spaces by class A-60 bulkheads		
or decks as specified in 3.2.2, Part R of the Rules for		
the Survey and Construction of Steel Ships.		
(4) Piping and cables essential for the operation of the		
diving system are regarded as part of the system.		

Amended-Original Requir	rements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
Where these transit from other compartments such as		
main switch board room or engine room into an outer		
area, they are to be laid in separate structural ducts		
insulated to class A-60 as specified in 3.2.2, Part R of		
the Rules for the Survey and Construction of Steel		
Ships.		
(5) Enclosed spaces containing essential diving		
equipment, such as surface compression chambers,		
diving bells, gas storage, compressors and control		
stands, are to be covered with an automatic fire		
detection and alarm system and a fixed fire-		
extinguishing system.		
(6) When diving system pressure vessels are situated in		
enclosed compartments, to provide appropriate		
cooling a manually actuated water spray system,		
having an application rate of $10 l/m^2$ per minute of the		
horizontal projected area, are to be provided to cool		
and protect such pressure vessels in the event of		
external fire. When pressure vessels are situated on		
open decks, fire hoses may be considered as providing		
the necessary protection.		
(7) Surface orientated diving systems that do not include		
planned surface decompression do not need to comply		
with (2) and (5) above.		
40 FL (1 D (2022 D) 1 C 1 2 0		
4.9 Electrical Power (2023 Diving Code 3.9)		
4.9.1 Goal (2023 Diving Code 3.9.1)		
The goal of this section is to define the minimum		
electrical power standards needed for the diving unit to		
conduct safe operations.		
		1

	rements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
4.9.2 Functional Criteria (2023 Diving Code 3.9.2		
and 3.9.3)		
1 In order to achieve the goal set out in 4.9.1 above, the		
following functional criterion is to be complied with.		
The diving unit is to be provided with an electrical power		
supply capable of supporting all essential services in the		
diving system for all planned operations, including		
evacuation, and in the event of any single failure in the		
electrical power supply system that would lead to a hazardous		
situation.		
2 In order to comply with the functional criteria of -1		
above, the following are to be complied with.		
(1) All electrical equipment and installation, including		
electrical power supply arrangements, are to be		
designed for the environment in which they will		
operate to minimize the risk of fire, explosion,		
electrical shock, emission of toxic gases to personnel		
and galvanic action of any pressure vessel or PVHO.		
(2) In the event of failure of the main source of electrical		
power to the diving system an independent source of		
electrical power is to be available for the safe		
termination of the diving operation. It is admissible to		
use the diving platform's emergency source of		
electrical power as an emergency source of electrical		
power if it has sufficient electrical power capacity to		
supply the diving system and the emergency load for		
the diving platform at the same time.		
(3) Any alternative source of electrical power is to be		
located outside the machinery casings to ensure its		
functioning in the event of fire or other casualty		
causing failure to the main electrical installation.		
(4) Adequate means of normal and emergency lighting		
are to be provided to allow full operation of the diving		

Amended-Original Require	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
system during planned operations, decompression and		
emergency situations.		
(5) Two electric lamps supplied from separate circuits are		
to be provided in the diving bell. However, one of the		(5) Moved from 8.5.7-1,
lamps may be substituted by an accumulator lamp.		NK original Rule
(6) Where electrical power necessary for the diving		(6) Moved from 8.5.5-2,
system is supplied from the inboard source in the		NK original Rule
attendant ship, it is to be supplied through an electric		TVK original Kulc
power receiving system exclusively used for the		
diving system, except for the electrical power supply		
for the handling system.		
(7) The electric power receiving system specified in (6)		(7) Moved from 8.5.5-3,
is to be powered by separate circuits from the main		NK original Rule
switchboard of the attendant ship. Where, however,		
deemed appropriate by the Society in consideration of		
the kind of load of the electric power receiving		
system, the system may be powered from a suitable		
<u>distribution board.</u>		
(8) The electric power receiving system is to be provided		(8) Moved from 8.5.5-4,
with the following instruments and equipment.		NK original Rule
(a) Circuit breaker of fuse and disconnecting switch.		
(b) Pilot lamp for power source, voltmeter and		
ammeter. Where, however, the load powered		
from the electric power receiving system is small,		
the ammeter may be dispensed with.		
(c) Earth fault detecting alarm or protective device		
for earth fault on the load side.		
(2000 71) (2000 71) (2000 71)		
4.10 Other Services (2023 Diving Code 3.10)		
4 10 1 Cool (2022 Diving Code 2 10 1)		
4.10.1 Goal (2023 Diving Code 3.10.1)		
The goal of this section is to define the minimum	62/146	

Amended-Original Require	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
standards of the essential and other services needed for the		
diving unit to conduct safe operations.		
4.10.2 Functional criteria (2023 Diving Code 3.10.2		
and 3.10.3)		
1 In order to achieve the goal set out in 4.10.1 above, the		
following functional criteria are to be complied with.		
(1) The diving unit is to be able to support all essential		
services required by the diving system, including in		
the event of a failure that may result in a hazardous		
situation.		
(2) All services are to be configured to allow safe transfer		
to or from the diving system.		
2 In order to comply with the functional criteria of -1		
above, the following are to be complied with.		
(1) Essential services to the diving system are to also have		
separate independent back-ups.		
(2) Services are to be configured so as to prevent		
hazardous transfer of material or power to or from the		
diving system.		
(3) All essential services required by the diving system		
are to be in accordance with the diving system		
requirements.		
Chapter 5 DIVING SYSTEM DESIGN,	(Newly added)	
CONSTRUCTION, INSTALLATION, TESTING	,	
AND SURVEY		
IN IN SURVEY		
5.1 Goal		
5.1.1 General (2023 Diving Code 4.1)		
The goal of this chapter is to provide a minimum		

Amended-Original Require	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
international standard for the design, construction,		
installation, testing and survey of diving systems on diving		
platforms engaged in diving operations.		
5.2 Functional Criteria		
5.2.1 General (2023 Diving Code 4.2)		
In order to achieve its goal in 5.1.1 above, this chapter		
embodies the following provision.		
5.2 Diving System Design (2022 Diving Code 4.2)		
5.3 Diving System Design (2023 Diving Code 4.3)		
5.3.1 Goal (2023 Diving Code 4.3.1)*		
The goal of this section is to define the design and		
environmental requirements needed for a diving system to		
conduct safe diving operations.		
5.3.2 Functional Criteria (2023 Diving Code 4.3.2		
and 4.3.3)		
1 In order to achieve the goal set out in 5.3.1 above, the		
following (1) to (4) functional criteria are to be complied with.		
(1) Diving system design is to minimize the potential and		
effect of human error.		
(2) The diving system is to be appropriate for the		
environmental conditions under which it will be used		
including material selection, manufacture and		
installation in accordance with the Administration.		
(3) There is to be a systematic engineering assessment of		
the diving system to confirm that the equipment is		
adequate, fit for purpose and safe to use.		

<u> </u>	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
(4) Safety, control and operational requirements are to be		
included in design considerations.		
2 In order to comply with the functional criteria of -1		
above, the following (1) to (7) are to be complied with.		
(1) As far as reasonable and practicable, a diving system		
is to be designed to minimize the potential and effect		
of human error in the operation of the system, and		
constructed so that the failure of any single		
component (determined, if necessary, by an		
appropriate risk assessment) will not lead to a		
hazardous situation.		
(2) Diving systems and their components are to be		
designed for the conditions under which they are		
certificated to operate.		
(3) Material for diving system components is to be		
suitable for their intended use.		
(4) All components in a diving system are to be designed,		
constructed, installed and tested in accordance with		
international or national standards recognized by the		
Administration or proprietary specifications		
acceptable to the Administration.		
(5) In the design of pressure vessels, including		
accessories such as doors, hinges, closing		
mechanisms and penetrators, the effects of rough		
handling and accidents are to be considered in		
addition to design parameters such as pressure,		
temperature, vibration and operating and		
environmental conditions.		
(6) All components in a diving system are to be so		
designed, constructed and arranged as to permit easy		
cleaning, disinfection, inspection and maintenance.		
(7) A diving system is to include equipment and controls		
necessary for the safe performance of diving		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
operations.		
-		
5.4 Pressure Vessels for Human Occupancy(PVHO)		
(2023 Diving Code 4.4)		
5.4.1 Goal (2023 Diving Code 4.4.1)*		
The goal of this section is to ensure a safe environment		
for personnel operating within and around a PVHO forming		
part of a diving system.		
5.4.2 Functional Criteria (2023 Diving Code 4.4.2)		
In order to achieve the goal set out in 5.4.1 this chapter		
embodies the following provisions.		
ome owite the reme wing provisions.		
5.4.3 Surface Compression Chambers (2023 Diving		
Code 4.4.3)*		
1 The goal of this sub-section is to ensure that a PVHO		
used as a surface compression chamber is fit for purpose and		
safe to use.		
2 In order to achieve the goal set out in -1 above, the		
following (1) to (3) functional criteria are embodied.		
(1) A surface compression chamber is to provide a safe		
and suitable environment and facilities for the persons		
who use it, having regard to sizing, ergonomic design		
and the type and duration of the diving operation.		
(2) A surface compression chamber is to allow transfer in		
and out of material and personnel and where required		
allow separation of divers during operations		
(3) A surface compression chamber is to connect to the		
diving bell and HBSC if used for closed-bell diving to		
allow the transfer of personnel.		
3 In order to comply with the functional criteria of -2		

<u> </u>	ements Comparison Table (2023 Diving Code)	D 1
Amended	Original	Remarks
above, the following (1) to (9) are to be complied with.		
(1) A diving system is to, as a minimum, include either		
one surface compression chamber with two separate		
compartments, or two interconnected separate		
chambers so designed as to permit ingress or egress		
of personnel while one compartment or chamber		
remains pressurized. Compartments are to have a		
specified maximum number of occupants. This		
capacity will define the required outfitting of the		
compartment or chamber including the number of		
bunks, built in breathing systems (BIBS) and the		
ergonomic design.		
(2) Where a surface compression chamber is to be used		
in circumstances which a person is intended to remain		
under pressure for a continuous period of more than		
12 hours, it is to be so arranged as to allow most divers		
to stand upright and to stretch out comfortably on their		
bunks. The smaller of the two compartments is to be		
large enough for at least two persons. One of these		
compartments is to be a living compartment.		
(3) Where the chamber is intended to be occupied for		
more than 8 hours, fixed toilet facilities are to be		
provided. Toilet facilities capable of discharging the		
waste to the outside are to be fitted with suitable		
interlocks.		
(4) All doors are to be designed to prevent accidental		
opening and if any locking mechanisms is provided,		
it is to be able to be operated from both sides.		
(5) A surface compression chamber is to be arranged to		
allow the occupants to be observed. Viewports are to		
be protected and situated so that the risk of damage is		
minimized.		
(6) Living compartments intended to be used for		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
decompression, including any emergency		
decompression, are to have a service lock through		
which provisions, medicine and equipment may be		
passed into the chamber while its occupants remain		
under pressure. The dimensions of the service lock are		
to be adequate to enable essential supplies to be		
transferred into the surface compression chamber.		
(7) Service locks are to be designed to prevent opening		
under pressure or being pressurized when not fully		
secure and, where necessary, interlocks are to be		
provided for this purpose.		
(8) The diving system is to be capable of allowing the		
safe transfer of a person under pressure from the		
diving bell or HBSC to a surface compression		
chamber (and vice versa).		
(9) Saturation systems are to have facilities available to		
use one of the compartments to provide emergency		
medical treatment to an injured diver while under		
pressure.		
5.4.4 Diving Bell (2023 Diving Code 4.4.4)		
1 The goal of this sub-section is to ensure that a PVHO		
used as a diving bell is fit for purpose and safe to use.		
2 In order to achieve the goal set out in -1 above, the		
following (1) to (3) functional criteria are embodied.		
(1) The diving bell is to provide a manned subsea		
working space, ergonomically sized to allow safe		
transfer of material and personnel.		
(2) The diving bell is to provide protection from damage		
during handling operations (e.g., deployment and		
recovery processes).		
(3) The diving bell is to provide emergency provisions for		
survival and recovery if separated from the diving		
<u>system.</u>	(0)114(

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
3 In order to comply with the functional criteria of -2		
above, the following (1) to (11) are to be complied with.		
(1) The diving bell is to provide a suitable environment		
and facilities for the persons who use it, having regard		
to the type and duration of the diving operation.		
(2) Diving bells are to be so designed as to provide		
adequate space for the number of occupants		
envisaged, together with any equipment carried.		
(3) The diving bell is to be provided with adequate		
protection against mechanical damage during		
handling operation, be equipped with one extra lifting		
point designed to recover the bell including ballast		
and equipment as well as the weight of the divers		
staying in the bell.		
(4) Interlocks are to be provided to prevent the		
<u>inadvertent release of the diving bell from the surface</u>		
compression chamber while the access trunking is		
pressurized. The mating flange and clamp are to be		
protected from damage at all times including during		
the launch and recovery stages.		
(5) All doors are to be designed to prevent accidental		
opening during normal operations. All doors are to be		
so designed that locking mechanisms, if provided, can		
be operated from both sides.		
(6) The diving bell is to be equipped with means whereby		
each diver using the bell is able to enter and leave it		
safely as well as with means for taking a helpless		
diver up into a dry bell. The seating and other		
arrangements provided are to be designed for the		
maximum number of occupants and provide		
protection to the divers.		
(7) The diving bell is to have a service lock through		
which provisions, medicine and equipment may be		

<u> </u>	rements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
passed into the diving bell while its occupants remain		
under pressure. Service locks are to be designed to		
prevent accidental opening under pressure and, where		
necessary, interlocks are to be provided for this		
purpose. The dimensions of the service lock are to be		
adequate to enable essential supplies to be transferred		
into the diving bell.		
(8) The diving bell is to be provided to allow the		
occupants to be observed and as far as practicable		
allow an occupant to observe divers outside the bell.		
Viewports are to be protected and situated so that the		
risk of damage is minimized.		
(9) For diving systems with only one diving bell a		
suitable arrangement is to be in place to reconnect a		
lost bell to the diving system and allow the divers to		
return safely to the surface compression chamber.		
(10) The diving bell is to be fitted with a manifold at a		
suitable point close to the main lifting attachment. The		
manifold is to incorporate a universal set of fittings		
and couplers for the following (a) and (b) services		
conforming.		
(a) 3/4 inch NPT (female) - for hot water		
(b) 1/2 inch NPT (female) - for breathing mixture		
(11) The manifold specified in (10) above is also		
incorporate connectors for the following (a) to (d), be		
clearly marked and suitably protected.		
(a) Internal pressure		
(b) Sampling of internal gas		
(c) Communication		
(d) Electrical power		
*		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
5.4.5 Hyperbaric Survival Craft(HBSC) PVHO		
(2023 Diving Code 4.4.5)*		
1 The goal of this sub-section is to ensure that the PVHO		
forming part of an HBSC is fit for purpose and safe to use.		
2 In order to achieve the goal set out in -1 above, the		
following (1) to (3) functional criteria are embodied.		
(1) The HBSC is to provide a manned evacuation living		
compartment, ergonomically sized to allow transfer of		
material and divers.		
(2) The HBSC is to provide protection from damage		
during handling operations (e.g., deployment and		
recovery processes).		
(3) The HBSC is to provide emergency provisions for		
survival and recovery when separated from the diving		
system.		
3 In order to comply with the functional criteria of -2		
above, the following (1) to (13) are to be complied with.		
(1) The PVHO is to provide a suitable environment and		
facilities for the persons who use it, having regard to		
the type and duration of the evacuation.		
(2) Where the PVHO is intended to be occupied for more		
than 8 hours, toilet facilities are to be provided. Toilet		
facilities capable of discharging the waste to the		
outside are to be fitted with suitable interlocks.		
(3) The means provided for access into the PVHO are to		
be such as to allow safe access to or from the surface		
compression chambers. Interlocks are to be provided		
to prevent the inadvertent release of the HBSC from		
the surface compression chamber while the access		
trunking is pressurized. The mating flange is to be		
adequately protected from damage at all times		
including during the launch and recovery stages.		
(4) All doors are to be designed to prevent accidental		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
opening during normal operations and if any locking		
mechanism is provided, it is to be able to be operated		
from both sides.		
(5) Arrangements are to be provided to enable a helpless		
diver to be taken into the HBSC PVHO.		
(6) The seating or other arrangements provided are to be		
designed for the maximum number of occupants and		
provide an adequate degree of protection to the divers		
from impact collisions during launch and while the		
HBSC is deployed.		
(7) The PVHO is to have a service lock through which		
provisions, medicine and equipment may be passed		
into the PVHO while its occupants remain under		
pressure. Locks are to be designed to prevent		
accidental opening under pressure and, where		
necessary, interlocks are to be provided for this		
purpose. The dimensions of the service lock are to be		
adequate to enable essential supplies to be transferred		
into the PVHO.		
(8) The HBSC is to be provided to allow the occupants to		
be observed and as far as practicable allow an		
occupant to observe divers outside the bell. Viewports		
are to be protected and situated so that the risk of		
damage is minimized.		
(9) Where it is intended to carry out decompression of the		
divers after hyperbaric evacuation in another surface		
compression chamber, then consideration is to be		
given to the suitability of the mating arrangements on		
that surface compression chamber. Where necessary,		
a suitable adapter and clamping arrangements are to		
be provided on the HBSC conforming to Fig. 5.1and		
on the other surface compression chamber (e.g., a		
hyperbaric reception facility) conforming to Fig. 5.2.		

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
(10) The HBSC is to be fitted with a manifold at a suitable			
point. The manifold is to incorporate international			
standard connections for the following services (a) to			
<u>(1).</u>			
(a) Internal pressure (Diving depth monitoring)			
(b) Communication			
(c) Electric power supply			
(d) Analysis of HBSC PVHO internal environment			
(e) Oxygen addition			
(f) Built In Breathing System (BIBS) supply			
(g) Blow-down (Pressurisation)			
(h) Exhaust			
(i) Hot water supply			
(j) Hot water return			
(k) Chilled water supply			
(1) Chilled water return			
(11) PVHO locks and openings that are, or may be,			
submerged are to be designed to be mechanically			
restrained to prevent loss of seal and water ingress at			
lower hyperbaric pressures during deployment and in			
any sea state. This design is to include the effects of			
the hydrodynamic impacts of free-fall HBSC launch			
requirements.			
(12) All open flange faces, that may be exposed both when			
in air and water, are to be suitably protected or			
provided with easily replaceable sealing faces.			
(13) When the HBSC is waterborne, it is to be possible to			
access and egress the HBSC from atmospheric			
pressure.			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
Fig. 5.1 Arrangement of adapter and clamping with HBSC			
# 700 FID A-A SCALET 25 88			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
Fig. 5.2 Arrangement of adapter and clamping with the surface compression chamber 8 MILES M 6 × 15 IEEP EQUISPACED IN 4 6 784 P.C.D. FIDE CLAMPING SACRIFICIAL RING TO HRF FLANCE			
# 800 # 700 RIO 3.2 RETAIL B SCALE 1 : 2.5			
5.5 Other Pressure Vessels Not Intended for Human Occupancy (2023 Diving Code 4.5)			
5.5.1 Goal (2023 Diving Code 4.5.1) The goal of this section is to ensure that pressure vessels not intended for human occupancy are fit for purpose and safe to use.			
5.5.2 Functional Criteria (2023 Diving Code 4.5.2 and 4.5.3) 1 In order to achieve the goal set out in 5.5.1 above, the following functional criteria are embodied. Ensure safe standards are used that are applicable to the			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
environment and intended duty.			
2 In order to comply with the functional criteria of -1			
above, the following (1) to (3) are to be complied with.			
(1) Special attention is to be paid to the design and choice			
of material for the construction of pressure vessels			
containing a volume percentage higher than 22 %			
oxygen.			
(2) Oxygen and gases with an oxygen volume percentage			
higher than 22 % are to be stored in cylinders or			
pressure vessels exclusively intended for such gases.			
(3) All pressure vessels not intended for use as a PVHO			
are to be suitable for the intended duty and conform			
to a national or international standard acceptable to			
the Administration for the design, construction and			
testing of such pressure vessels.			
5.6 Wet Bells and Dive Baskets Used for the			
Deployment and Recovery of Surface Orientated			
Divers (2023 Diving Code 4.6)			
5.6.1 Goal (2023 Diving Code 4.6.1)			
The goal of this section is to ensure that wet bells and			
dive baskets are fit for purpose and safe to use.			
5.6.2 Functional Criteria (2023 Diving Code 4.6.2			
and 4.6.3)			
1 In order to achieve the goal set out in 5.6.1 above, the			
following (1) and (2) functional criteria are embodied.			
(1) The wet bell or dive basket is required to provide			
protection for the divers during deployment and			
recovery operations and to enable the recovery of a			
helpless diver in a controlled and safe manner.			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
(2) The wet bell or dive basket is required to provide a			
safe haven during subsea work, including onboard gas			
and for wet bell communication and lighting at the			
underwater dive site.			
2 In order to comply with the functional criteria of -1			
above, the following (1) to (4) are to be complied with.			
(1) All diving platforms are to provide for safe			
deployment and recovery of the divers, including			
during a diving emergency. During any deployment,			
fully dressed divers are not to have to climb a ladder			
more than $2 m$, or stairs that are to be fitted with a			
handrail more than 4 m, down to or up from the water			
surface.			
(2) Wet bells and dive baskets, with the exception of			
those specifically for a rescue diver, are to be fitted			
out to carry a minimum of two divers. The structure is			
to prevent the divers from falling out during			
operations and enable the recovery of a helpless diver			
while maintaining the safety of the rescue diver.			
(3) For wet bell gas services, the onboard control point is			
to ensure a primary and secondary supply to both a			
working diver and an in-water standby diver. A diver's			
bail-out is an emergency supply and not considered to			
be a secondary supply.			
(4) A minimum of 30 minutes of onboard emergency gas			
at the maximum planned depth is to be provided. This			
includes a breathing system for each diver			
independent of their main and bail-out diving			
equipment.			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
5.7 Pipes, Valves, Fittings and Hoses (2023 Diving			
Code 4.7)			
5.7.1 Goal (2023 Diving Code 4.7.1)			
The goal of this section is to ensure that pipes, valves,			
fittings and hoses are fit for purpose and safe to use.			
5.7.2 Functional Criteria (2023 Diving Code 4.7.2			
and 4.7.3)*			
1 In order to achieve the goal set out in 5.7.1 above, the			
following (1) and (2) functional criteria are embodied.			
(1) The configuration of manned diving compartments			
and control rooms are to take into account, noise,			
vibration, isolation devices, over-pressure alarms,			
oxygen compatibility and the selection of appropriate			
material for the gases in use.			
(2) Piping systems are to be protected from damage or			
inadvertent use.			
2 In order to comply with the functional criteria of -1			
above, the following (1) to (17) are to be complied with.			
(1) Pipe systems are to be so designed as to minimize			
noise and vibration inside the PVHO during normal			
operation.			
(2) The PVHO is to be equipped with such valves, gauges			
and other fittings as are necessary to control and			
indicate the internal pressure and safe environment of			
each compartment from a centralized control position.			
(3) Valves, gauges and other fittings are to be provided			
outside a submerged PVHO as necessary to control			
and indicate the pressure and safe environment within			
the PVHO. The external pressure on the submerged			
PVHO is also to be indicated inside the PVHO.			
(4) All pipe penetrations on a PVHO are to be fitted with			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
two shutoff devices as close to the penetration as			
practicable. Where appropriate, one device is to be a			
non-return valve. Large diameter piping is to be fitted			
with a flow fuse isolator for exhaust valves.			
(5) All PVHO which may be pressurized separately are to			
be fitted with over-pressure alarms or pressure-relief			
valves. If pressure-relief valves are fitted, a quick-			
operating manual shutoff valve is to be installed			
between the chamber and the pressure-relief valve			
and is to be held opened with a frangible wire or			
equivalent. This valve is to be readily accessible to the			
attendant monitoring the operation of the PVHO. All			
other pressure vessels and cylinders are to be fitted			
with a pressure-relief device.			
(6) Piping systems which may be subjected to a higher			
pressure than designed for are to be fitted with a			
pressure-relief device. PVHO pressure-relief devices			
and associated pipework are to be tested for maximum			
gas volume flow.			
(7) Non-metallic materials used in oxygen systems are to			
be compatible with oxygen at the working pressure			
and flow rate.			
(8) The use of high-pressure oxygen piping is to be			
minimized by the fitting of pressure-reducing devices,			
as close as practicable to the storage cylinders or			
pressure vessels.			
(9) Flexible hoses, except for umbilicals, are to be			
reduced to a minimum.			
(10) Hoses for gases containing greater than 22 % oxygen			
are to, as far as practicable, be of fire-retardant			
construction.			
(11) Exhaust lines are to be fitted with an anti-suction			
device on the inlet side.			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
(12) The function of all valves is to be clearly marked, and			
all high-pressure piping is to be well protected against			
mechanical damage.			
(13) Piping systems containing gases with more than 22 %			
oxygen are to be treated as systems containing pure			
oxygen.			
(14) Systems for gases containing greater than 22 %			
oxygen with pressure greater than 1.72 bar are to have			
slow-opening shutoff valves except pressure-			
boundary shutoff valves.			
(15) Pressure gauge full scale, divisions and accuracy are			
to be suitable for the application. Gauges are to be			
positioned so that they can be easily read.			
(16) Piping systems where cross-over valves are used are			
to be designed to prevent incorrect pressure readings.			
(17) Regulators and valves are to be selected so as to			
provide the appropriate sensitivity and control for the			
required function.			
5.8 Breathing Gas Supply, Storage and Temperature			
Control (2023 Diving Code 4.8)			
Control (2020 Biving code 110)			
5.8.1 Goal (2023 Diving Code 4.8.1)			
The goal of this section is to define the minimum			
standards for breathing gases used during diving operations.			
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5.8.2 Functional Criteria (2023 Diving Code 4.8.2			
and 4.8.3)*			
1 In order to achieve the goal set out in 5.8.1 above, the			
following (1) to (3) functional criteria are embodied.			
(1) The diving unit is to provide breathing gas, at the			
required quantity (including primary, secondary,			

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
emergency and operational contingency supplies),			
quality and composition for the required depth of			
operation.			
(2) The diving unit is to provide equipment for storing			
and supplying appropriate breathing gases.			
(3) The diving unit is to provide temperature control			
systems to maintain thermal balance for divers and			
PVHO occupants.			
2 In order to comply with the functional criteria of -1			
above, the following (1) to (10) are to be complied with.			
(1) Each PVHO is to be fitted with adequate equipment			
for supplying and maintaining the appropriate			
breathing mixtures to its occupants including			
adequate ventilation to prevent temperature			
differences and gas stratification, at all depths down			
to maximum operating depth.			
(2) Equipment and surface coatings designated for use			
within the PVHO are not to off-gas volatiles such as			
to create an unacceptable exposure level.			
(3) When adding pure oxygen to the PVHO, a separate			
piping system is to be provided. Internal oxygen inlets			
are to be positioned so as to ensure appropriate mixing			
of oxygen within the PVHO.			
(4) All breathing gases, including reclaimed and			
processed gases, are to conform to recognized			
national and international standards.			
(5) Breathing air intakes to be at safe distance/location			
from exhausts, or other sources of contamination.			
(6) In addition to the system in (1) above each PVHO is			
to contain a separately controlled built-in breathing			
system for oxygen, therapeutic gas or gas with at least			
one mask per occupant stored inside each separately			
pressurized compartment and means are to be			

Amended	Original	Remarks
	Original	Remarks
provided to prevent any hazardous accumulation of		
gases. A spare mask and its inlet and outlet connection		
points are also to be provided per compartment.		
(7) PVHO is to include adequate plant and equipment to		
maintain the divers in safe thermal balance during		
normal operations.		
(8) In an emergency the diving bell and HBSC are to be		
designed for survivability of at least 24 hours for the		
Diving Bell and 72 hours for the HBSC at its		
maximum operating depth. In order to meet this		
provision, equipment specified in (a) and (b) below is		
to be provided.		
(a) A self-contained breathing gas system capable of		
maintaining a satisfactory concentration of		
breathing gas including oxygen for the		
occupants.		
(b) Equipment and controls for temperature control		
and thermal balance for occupants.		
(9) For piping systems and gas storage cylinders/pressure		
vessels, the colour code in Table 5.1 is to be used.		
(10) Each cylinder/pressure vessel is to be marked with the		
· · ·		
name and symbol given in Table 5.1 of the gases it		
contains. The marking and colour coding of the gas		
storage cylinders are to be visible from the valve end.		

		u-Original Kequil	ements Comparison Table (2023 Diving Code)	
	Amended		Original	Remarks
Table 5.1 Colour of	code for gas storage	and piping systems		
Name	Symbol	Colour code		
Oxygen	(O ₂)	White		
<u>Nitrogen</u>	(N ₂)	Black		
<u>Air</u>	<u>(Air)</u>	White and black		
Carbon dioxide	(CO ₂)	<u>Grey</u>		
<u>Helium</u>	(He)	<u>Brown</u>		
<u>Hydrogen</u>	<u>(H₂)</u>	Red		
Oxygen-helium gas	(O_2-He)	White and brown		
<u>mixture</u>				
		y Systems(LARS)		
(2023 Diving	<u>(Code 4.9)</u>			
5 0 1 C1 (20)	2 D:-: C- 1- 40	1\4		
	23 Diving Code 4.9.			
		re diving systems are		
equipped with suitab	•	safe deployment and		
recovery of the diver	<u>S.</u>			
7.0.2 F	1.C. 1. (2022 D			
	al Criteria (2023 Di			
		it in 5.9.1 above, the		
<u>following 5.9.3 to 5.9</u>	9.5 functional criteria	a are embodied.		
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	ell LARS (2023 Div			
		nsure that diving bell		
diving systems are				
deployment and reco				
compression chambe				
	_	out in -1 above, the		
following (1) and (2)				
(1) There is t	o be a LARS	that considers all		
environment	al and operational co	onditions at the work		
site.				

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
(2) There is to be a LARS that operates such that any			
failure are not to create a hazardous situation.			
3 In order to comply with the functional criteria of -2			
above, the following (1) to (10) are to be complied with.			
(1) A diving system is to be equipped with a LARS to			
ensure safe deployment and recovery of the diving			
bell between the surface compression chamber and			
the maximum deployment depth.			
(2) LARS is to be designed with adequate safety factors			
considering the environmental and operating			
conditions, including the dynamic loads which are			
encountered while handling the diving bell through			
the air—water interface.			
(3) LARS is to enable smooth and easily controllable			
handling of the diving bell.			
(4) LARS and mating devices are to enable easy and firm			
connection or disconnection of a diving bell to a			
surface compression chamber, even under conditions			
where the diving platform is rolling, pitching or			
listing to predetermined degrees.			
(5) LARS is to be equipped with mechanisms to prevent			
the inadvertent or inappropriate operation or			
overloading of any part of the diving system.			
(6) The lowering of diving bells under normal conditions			
are not to be controlled by brakes, but by the drive			
system of the winches.			
(7) Winches used for lifting personnel are to comply with			
the Rules for Cargo Handling Appliances, and			
where the power supply to the LARS fails, brakes are			
to be engaged automatically.			
(8) In the event of a single component failure of the			
LARS primary means of recovery, a secondary means			
of recovery is to be provided whereby the bell can be			

	Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks					
returned to the surface compression chamber. In							
addition, provision is to be made for safe emergency							
retrieval of the bell occupants to a surface							
compression chamber if the primary and secondary							
means fail.							
(9) Where a powered actuating system is used for mating							
operations, an auxiliary power actuating system or an							
appropriate alternative means are to be provided to							
connect a diving bell to a surface compression							
chamber in the event of failure of the normal power							
actuating system.							
(10) The design of LARS for diving bells is to consider the							
protection and routing of the diving umbilical to							
prevent damage.							
5.9.4 Surface Orientated Diving LARS (2023 Diving							
Code 4.9.4)*							
1 The goal of this sub-section is to ensure that surface							
orientated diving systems are equipped with LARS, providing							
safe deployment and recovery of the divers to and from the							
maximum deployment depth.							
2 In order to achieve the goal set out in -1 above, the							
following (1) and (2) functional criteria are embodied.							
(1) There is to be a LARS that considers all							
environmental and operational conditions at the work							
site.							
(2) There is to be a LARS that operates such that any							
failure is not to create a hazardous situation.							
3 In order to comply with the functional criteria of -2							
above, the following (1) to (9) are to be complied with.							
(1) A diving system is to be equipped with a LARS to							
ensure deployment and recovery of a dive basket or							
wet bell to and from the maximum deployment depth.							
(2) Where applicable, a diving system is to be equipped	05/146						

Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks				
with a LARS to ensure the safe launch and recovery						
of a diving daughter-craft to and from the water.						
(3) LARS is to be designed with adequate safety factors						
considering the environmental and operating						
conditions, including the dynamic loads which are						
encountered while launching and recovering the dive						
basket or wet bell through the air-water interface.						
(4) LARS is to enable smooth and easily controllable						
handling of the dive basket, wet bell or daughter-craft.						
LARS and restraint devices are to enable easy and						
controlled handling of the dive basket, wet bell or						
daughter-craft when recovered to the embarkation						
point, even under conditions where the diving						
platform is rolling, pitching or listing to						
predetermined degrees.						
(5) The lowering of dive basket, wet bell or daughter-						
craft under normal conditions are not to be controlled						
by brakes, but by the drive system of the winches.						
(6) Winches used for lifting personnel are to comply with						
the Rules for Cargo Handling Appliances, and						
where the power supply to the LARS fails, brakes are						
to be engaged automatically.						
(7) In the event of a single component failure of the						
LARS, an alternative means is to be provided						
whereby the dive basket, wet bell, divers or daughter-						
craft occupants can be returned to the embarkation						
point. Where the working divers and the standby						
divers LARS are combined then the failure of a single						
component is not to compromise the ability of the						
standby system to perform an emergency recovery.						
(8) The design of LARS that manage the diver's umbilical						
is to consider the protection and routing of the diving						
umbilical to prevent damage.						

Amended Original Remarks (9) LARS for primary access and egress is not required where the diver has to climb no more than 2 m above the water surface on a ladder, or no more than 4 m on stairs. However, the stairs are to be fitted with a handrail and provided with the following means (a) and (b). (a) Means for diver access and egress from the water. (b) Means to recover a helpless diver in an emergency. 5.9.5 Hyperbaric Survival Craft(HBSC) Launching Appliance (2023 Diving Code 4.9.5) The goal of this sub-section is to ensure that HBSC are equipped with a suitable launching appliance, providing safe deployment of the divers from the diving system to a position where the HBSC is in the water and released from the diving platform. 2 In order to achieve the goal set out in -1 above, the following (1) to (3) functional criteria are embodied. (1) Provision of a suitable launching appliance that considers all environmental and operational conditions. (2) Provision of a launching appliance that operates in a manner such that any failure is not to create a hazardous situation. (3) The launching appliance is to meet the requirements of the LSM Code, as amended with due consideration to the requirements of hyperbaric evacuation. 3 In order to comply with the functional criteria of -2 above, the following (1) to (3) are to be complied with. (1) A diving unit is to be equipped with a launching appliance to ensure safe deployment of the HBSC between the mating interface of the surface compression chamber and the water. A float-free	Amended-Original Requirements Comparison Table (2023 Diving Code)							
where the diver has to climb no more than 2 m above the water surface on a ladder, or no more than 4 m on stairs. However, the stairs are to be fitted with a handrail and provided with the following means (a) and (b). (a) Means for diver access and egress from the water. (b) Means to recover a helpless diver in an emergency. 5.9.5 Hyperbaric Survival Craft(HBSC) Launching Appliance (2023 Diving Code 4.9.5) 1 The goal of this sub-section is to ensure that HBSC are equipped with a suitable launching appliance, providing safe deployment of the divers from the diving system to a position where the HBSC is in the water and released from the diving platform. 2 In order to achieve the goal set out in -1 above, the following (1) to (3) functional criteria are embodiced. (1) Provision of a suitable launching appliance that considers all environmental and operational conditions. (2) Provision of a launching appliance that operates in a manner such that any failure is not to create a hazardous situation. (3) The launching appliance is to meet the requirements of the LS4 Code, as amended with due consideration to the requirements of hyperbaric evacuation. 3 In order to comply with the functional criteria of -2 above, the following (1) to (3) are to be complied with. (1) A diving unit is to be equipped with a launching appliance to ensure safe deployment of the BBSC between the mating interface of the surface	Amended	Original	Remarks					
the water surface on a ladder, or no more than 4 m on stairs. However, the stairs are to be fitted with a handrail and provided with the following means (a) and (b). (a) Means for diver access and egress from the water. (b) Means to recover a helpless diver in an emergency. 5.9.5 Hyperbaric Survival Craft(HBSC) Launching Appliance (2023 Diving Code 4.9.5) 1 The goal of this sub-section is to ensure that HBSC are equipped with a suitable launching appliance, providing safe deployment of the divers from the diving system to a position where the HBSC is in the water and released from the diving platform. 2 In order to achieve the goal set out in -1 above, the following (1) to (3) functional criteria are embodied. (1) Provision of a suitable launching appliance that considers all environmental and operational conditions. (2) Provision of a launching appliance that operates in a manner such that any failure is not to create a hazardous situation. (3) The launching appliance is to meet the requirements of the I.84 Code, as amended with due consideration to the requirements of hyperbaric evacuation. 3 In order to comply with the functional criteria of -2 above, the following (1) to (3) are to be complied with. (1) A diving unit is to be equipped with a launching appliance to ensure safe deployment of the surface	(9) LARS for primary access and egress is not required							
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stairs. However, the stairs are to be fitted with a handrail and provided with the following means (a) and (b), (a) Means for diver access and egress from the water. (b) Means to recover a helpless diver in an emergency. 5.9.5 Hyperbaric Survival Craft(HBSC) Launching Appliance (2023 Diving Code 4.9.5) 1 The goal of this sub-section is to ensure that HBSC are equipped with a suitable launching appliance, providing safe deployment of the divers from the diving system to a position where the HBSC is in the water and released from the diving platform. 2 In order to achieve the goal set out in -1 above, the following (1) to (3) functional criteria are embodied. (1) Provision of a suitable launching appliance that considers all environmental and operational conditions. (2) Provision of a launching appliance that operates in a manner such that any failure is not to create a hazardous situation. (3) The launching appliance is to meet the requirements of the Is34 Code, as amended with due consideration to the requirements of hyperbaric evacuation. 3 In order to comply with the functional criteria of -2 above, the following (1) to (3) are to be complied with. (1) A diving unit is to be equipped with a launching appliance to ensure safe deployment of the BBSC between the matting interface of the surface	the water surface on a ladder, or no more than 4 <i>m</i> on							
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(b) Means to recover a helpless diver in an emergency. 5.9.5 Hyperbaric Survival Craft(HBSC) Launching Appliance (2023 Diving Code 4.9.5) 1 The goal of this sub-section is to ensure that HBSC are equipped with a suitable launching appliance, providing safe deployment of the divers from the diving system to a position where the HBSC is in the water and released from the diving platform. 2 In order to achieve the goal set out in -1 above, the following (1) to (3) functional criteria are embodied. (1) Provision of a suitable launching appliance that considers all environmental and operational conditions. (2) Provision of a launching appliance that operates in a manner such that any failure is not to create a hazardous situation. (3) The launching appliance is to meet the requirements of the LSA Code, as amended with due consideration to the requirements of hyperbaric evacuation. 3 In order to comply with the functional criteria of -2 above, the following (1) to (3) are to be complied with. (1) A diving unit is to be equipped with a launching appliance to ensure safe deployment of the surface								
S.9.5 Hyperbaric Survival Craft(HBSC) Launching Appliance (2023 Diving Code 4.9.5) 1 The goal of this sub-section is to ensure that HBSC are equipped with a suitable launching appliance, providing safe deployment of the divers from the diving system to a position where the HBSC is in the water and released from the diving platform. 2 In order to achieve the goal set out in -1 above, the following (1) to (3) functional criteria are embodied. (1) Provision of a suitable launching appliance that considers all environmental and operational conditions. (2) Provision of a launching appliance that operates in a manner such that any failure is not to create a hazardous situation. (3) The launching appliance is to meet the requirements of the LSA Code, as amended with due consideration to the requirements of hyperbaric evacuation. 3 In order to comply with the functional criteria of -2 above, the following (1) to (3) are to be complied with. (1) A diving unit is to be equipped with a launching appliance to ensure safe deployment of the surface								
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between the mating interface of the surface								
	- · ·							

Amended-Original Requirements Comparison Table (2023 Diving Code)					
Amended	Original	Remarks			
HBSC is permissible but not as the primary					
deployment technique.					
(2) The launching appliance is to comply with the					
launching and embarkation appliances requirements					
as defined in the LSA Code (as amended by IMO					
Resolution MSC.459(101)), with the deviations as					
defined (a) to (j) below.					
(a) The launching appliance and its attachments					
other than winches are to be of sufficient strength					
to withstand added weight in case of water					
entrainment.					
(b) The launching appliance is to enable smooth and					
controlled deployment of the HBSC.					
(c) Launching appliance and mating devices are to					
enable easy and firm connection or disconnection					
of an HBSC to a surface compression chamber,					
even under conditions where the diving platform					
is rolling, pitching or listing to predetermined					
degrees.					
(d) The lowering of the HBSC under normal					
conditions is not to be controlled by brakes, but					
by the drive system of the winches.					
(e) In the event of an electrical power failure of the					
launching appliance, in addition to the					
requirement for gravity or stored mechanical					
power in the LSA Code, an emergency power					
supply is to be provided.					
(f) The launching appliance does not require hand					
gear as required by Chapter 6.1.2.6 of the LSA					
Code. (a) Where a payor actuated system is used for the					
(g) Where a power actuated system is used for the					
mating/un-mating operations, an independent					
manual or stored mechanical power means is to					

Amended-Original Requirements Comparison Table (2023 Diving Code)					
Amended	Original	Remarks			
be provided as a backup in the event of failure of					
the normal power supply.					
(h) The launching arrangements provided are to be					
designed to ensure easy connection or					
disconnection of the HBSC from the surface					
compression chamber and for transportation and					
releasing of the HBSC from the diving platform					
under the same conditions of trim and list as those					
for the diving platform's other survival craft.					
(i) The means provided for release of the falls or lift					
wire after the HBSC is afloat are to provide for					
easy disconnection. Particular attention being					
given to HBSC not provided with an attendant					
<u>crew.</u>					
(j) Interlocks are to be provided to prevent the					
inadvertent release of the HBSC from the surface					
compression chamber complex while the PVHO					
adapter and clamping arrangement is pressurized.					
(3) For free-fall launched HBSC the ability of the					
launching appliance to release the HBSC is to be					
confirmed at all required angles of list and trim.					
7.10 E: B ((2022 B: : C 4.10)					
5.10 Fire Protection (2023 Diving Code 4.10)					
5.10.1 Goal (2023 Diving Code 4.10.1)					
The goal of this section is to ensure that the fire					
protection integral to the diving system is fit for purpose and					
safe to use.					
5.10.2 Functional Criteria (2023 Diving Code 4.10.2					
and 4.10.3)*					
1 In order to achieve the goal set out in 5.10.1 above, the					

	ements Comparison Table (2023 Diving Code)	T
Amended	Original	Remarks
following functional criteria is embodied.		
(1) To provide fire protection to the diving system		
considering fire prevention and extinguishing.		
2 In order to comply with the functional criteria of -1		
above, the following (1) to (3) are to be complied with.		
(1) Non-metallic materials used in connection with the		
diving system are to be, as far as is reasonably		
practicable, of fire-retardant type and non-hazardous		
in accordance with the FTP Code, parts 2 and 5, as		
amended.		
(2) Each compartment in a surface compression chamber		
is to have a suitable means of extinguishing a fire in		
the interior which provides rapid and efficient		
distribution of the extinguishing agent to any part of		
the chamber. The living compartments of a surface		
compression chamber are to be equipped with a fixed,		
manually actuated fire extinguishing system with		
such a layout as to cover the compartments. It is to be		
possible to actuate the extinguisher both from within		
the compartments and from outside. The		
extinguishing agent is to be water or an alternative		
agent approved by the Society.		
(3) Where applicable, systems are to comply with the <i>FSS</i>		
Code, as amended. In addition, fire prevention and		
extinguishing systems are to be adjusted for use at the		
planned operational pressure.		
F11 EL 4 : 10 4 (2022 B) : C 1 411)		
5.11 Electrical System (2023 Diving Code 4.11)		
5.11.1 Goal (2023 Diving Code 4.11.1)*		
The goal of this section is to ensure that electrical		
systems of the diving system are fit for purpose and safe to		
systems of the diving system are in for purpose and safe to		

Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks				
use.						
5.11.2 Functional Criteria (2023 Diving Code 4.11.2						
and 4.11.3)*						
1 In order to achieve the goal set out in 5.11.1 above, the						
following (1) to (4) functional criteria are embodied.						
(1) All electrical services necessary for maintaining the						
diving system in normal operational and habitable						
conditions are to be assured, without recourse to the						
emergency source of electrical power.						
(2) Electrical services essential for safety are to be						
maintained, in case of failure of the main source of						
electrical power.						
(3) Electromagnetic compatibility of electrical and						
electronic equipment is to be assured.						
(4) The safety of personnel and the diving system from						
electrical hazards are to be assured.						
2 In order to comply with the functional criteria of -1						
above, the following (1) to (10) are to be complied with.						
(1) All electrical equipment is to comply with the relevant						
regulations pertaining to the requirements of						
passenger and cargo ships, as defined in the applicable						
requirements of SOLAS. The systematic engineering						
analysis, evaluation and approval of the electrical						
design and arrangements are to be carried out in						
accordance with SOLAS regulation II-1/55.						
(2) Essential services as defined in 3.4, as well as other						
services to ensure minimum comfortable conditions						
of habitability are to be identified and the system is to						
have the capacity to supply all essential services						
during the planned operations.						
(3) In an emergency the diving bell and HBSC are to have						
sufficient electrical power for survivability of at least						
24 hours for the diving bell and 72 hours for the						

Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks				
HBSC.						
(4) The diving system switchboards (main and						
emergency) are to be installed in separate						
compartments. All emergency electric lighting						
systems are to be separated from the compartments						
housing the main and emergency switchboards.						
(5) An emergency source of electrical power for the						
diving system is to meet the minimum requirement of						
SOLAS regulation II-1/43, as well as the following(a)						
to (e):						
(a) where using the diving platform's emergency						
electrical power, there is to be enough electrical						
power capacity to supply the emergency load for						
the diving system and for the diving platform						
simultaneously;						
(b) have a minimum fuel capacity of 18 hours and be						
able to be refuelled;						
(c) be able to safely terminate the diving operation,						
including decompression of the divers;						
(d) be suitably protected within a deck house						
structure; and						
(e) be suitably ventilated, to ensure continuous						
operations in the design environment.						
(6) Emergency lighting as defined in <i>SOLAS</i> regulations						
II-1/43.2.1 and 43.2.2 is to be additionally provided						
for (a) to (c):						
(a) each PVHO location;						
· · · · · · · · · · · · · · · · · · ·						
(b) each LARS; and (c) associated diving equipment not housed within						
						
the control room or machinery spaces of the						
diving system.						
(7) Battery charging arrangements are to be designed to						
prevent overcharging under normal or fault						

Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks				
conditions. Battery storage compartments are to be						
provided with means to prevent over pressurization						
and vent to a safe place. When battery charger/battery						
combinations are used as DC power supply systems,						
adequate measures are to be taken to keep the voltage						
within specified limits.						
(8) Electrical equipment fitted within the PVHO is to be						
suitable for the intended specified in (a) to (d),						
including hyperbaric use and the specified gas, and						
high humidity levels and marine applications.						
(a) Electrical enclosures subject to pressure are to						
include suitable gas relief devices, where						
applicable.						
(b) Cabling and electrical components are not to off-						
gas toxic volatiles so as to create a hazardous						
environment.						
(c) Equipment supply voltage is to be kept at a						
<u>minimum.</u>						
(d) Electrical power services, including battery						
arrangements, suitable for hyperbaric use.						
(9) Electrical and electronic diving equipment are to						
follow the requirements for electromagnetic						
compatibility in the General requirements for						
electromagnetic compatibility (EMC) for all electrical						
and electronic ship's equipment (IMO Resolution						
<u>A.813(19)).</u>						
(10) In-water and hyperbaric electrical equipment are to						
meet the following (a) to (d) safe voltage						
requirements.						
(a) Safe voltage, body resistance and current (See						
<u>Table 5.2)</u>						
(b) For electrically heated suits, the diver's body						
resistance is to be 100Ω and the safe body current						

				Am	end	led-Origin	nal Requir	rements Comparison Table (2023 Diving Code)	
(c) Electrical equipment used subsea and in hyperbaric conditions is to be supplied from a transformer with the secondary winding isolated. such that there is not an obvious path if a fault develops. Isolation requirements are to include high-integrity isolation components and a safe insulator barrier. (d) Residual current devices fitted are to have a reaction time of less than 20 ms. Table 5.2 Safe voltage, body resistance and current Supply Supply Supply Supply Our Resistance (ma) (D) (V) (D) Our without a suitable trip device Ac without a suitable trip device Ac without a suitable trip 570 Supply Supply Supply Supply Supply Current Supply Current Supply Current Supply Current Ac without a suitable trip Supply Supply Supply Supply Current Supply Sup	Amended							Original	Remarks
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develops. Isolation requirements are to include high-integrity isolation components and a safe insulator barrier. (d) Residual current devices fitted are to have a reaction time of less than 20 ms. Table 5.2 Safe voltage, body resistance and current Safe Body Route Resistance (mA) Resistance (mA) Resistance (mA) (V) (V) (D) × (R) = (V) (V) DC without a suitable 40 750 30 24 Trip device AC with a suitable trip device AC with a suitable trip 570 500 500 250 220 Note:									
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Insulator barrier.		develop	s. Is	solation rec	uire	ements are	to include		
(d) Residual current devices fitted are to have a reaction time of less than 20 ms . Table 5.2 Safe voltage, body resistance and current Supply Suppl		high-int	egri	ty isolation	co	mponents	and a safe		
Table 5.2 Safe voltage, body resistance and current						_			
Table 5.2 Safe voltage, body resistance and current	<u>(d</u>) Residua	1 cı	arrent devi	ces	fitted are	to have a		
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Column C	Supply					l ———			
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trip device Image: suitable trip device Stool of the suitable trip device Stool of th	a suitable	<u>10</u>		<u>750</u>		<u>7.5</u>	<u>6</u>		
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device AC with a suitable trip device 500 250 220 Note: Note:									
AC with a suitable trip device 500 250 220 Note: South a suitable trip device 250 220		<u>570</u>		<u>500</u>		<u>285</u>	<u>250</u>		
suitable trip device 500 250 220 Note:									
device Note:		500		500		250	220		
Note:		200		200		250			
		A suitable trip de	vice i	s one with a reac	tion ti	me of 20 ms or	less.		

Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks				
5.12 Control Systems (2023 Diving Code 4.12)						
5.12.1 Goal (2023 Diving Code 4.12.1)						
The goal of this section is to ensure that all control						
systems are fit for purpose and maintain a safe working						
environment.						
5.12.2 Functional Criteria (2023 Diving Code 4.12.2						
and 4.12.3)*						
1 In order to achieve the goal set out in 5.12.1 above, the						
following functional criteria is embodied.						
(1) To provide control systems for the diving system						
considering centralized control for the relevant						
operators, including adequate protection from						
environmental factors and emergency situations.						
2 In order to comply with the functional criteria of -1						
above, the following (1) to (6) are to be complied with.						
(1) The diving system centralized control is to be						
arranged so as to operate safely under all applicable						
environmental conditions and is to be designed such						
that any single failure is not to cause a hazardous						
situation.						
(2) Provision is to be made within the diving bell and						
HBSC for an independent means of continuously						
monitoring oxygen and carbon dioxide levels.						
(3) Oxygen injection systems are to be designed to						
prevent an uncontrolled flow of oxygen.						
(4) Confined areas with gas control systems using gases						
with an oxygen content less than 20 % or greater than						
22 % are to have continuous oxygen monitoring with						
high- and low-level audio-visual alarms.						
(5) Control systems, including automated systems, are to						
be compliant with a national or international standard						

Amended-Original Requirements Comparison Table (2023 Diving Code)						
Amended	Original	Remarks				
acceptable to the Administration.						
(6) Facilities are to be provided at the central control						
position to monitor and provide appropriate alarms						
for when any life support parameter is outside of						
acceptable limits.						
<u>,</u>						
5.13 Communication and Location Systems (2023)						
Diving Code 4.13)						
5.13.1 Goal (2023 Diving Code 4.13.1)						
The goal of this section is to ensure that all						
communication and location systems provide effective						
communications between relevant parties.						
*						
5.13.2 Functional Criteria (2023 Diving Code 4.13.2						
and 4.13.3)						
1 In order to achieve the goal set out in 5.13.1 above, the						
following (1) and (2) functional criteria are embodied.						
(1) The diving system communications are to be arranged						
so as to ensure complete coverage of all operational						
control points of the diving system.						
(2) During emergency situations communication systems						
are to be available.						
2 In order to comply with the functional criteria of -1						
above, the following (1) to (10) are to be complied with.						
(1) The communication system is to be arranged for						
direct two-way voice communication between the						
control stand and the following (a) to (o). Systems are						
to be hard-wired unless stated otherwise:						
(a) divers in water;						
(b) standby diver;						
(c) each compartment of the surface compression						
te) each comparament of the surface compression		<u> </u>				

Amended-Original Requirements Comparison Table (2023 Diving Code)		
Amended	Original	Remarks
chambers including the HBSC;		
(d) service lock positions when not located in the		
immediate vicinity of the control stand;		
(e) back-up control panels;		
(f) diving system LARS positions;		
(g) dynamic positioning control station, only when		
required by 4.7;		
(h) diving platform bridge, command centre or any		
other operational control area;		
(i) diving bell, wet bell, dive basket and HBSC (if		
applicable);		
(j) HBSC launch position (if applicable);		
(k) HBSC operator's position (if applicable);		
(l) deck operations (wireless communications		
acceptable) (if applicable);		
(m) crane operator (wireless communications		
acceptable) (if applicable);		
(n) Remotely Operated Vehicle (ROV) operator (if		
applicable); and		
(o) a control stand on the daughter-craft and the		
diving platform bridge (wireless communications		
acceptable) (if applicable).		
(2) A secondary means of communication with divers in		
the surface compression chamber, diving bell and		
HBSC are to be available. All secondary		
communication systems are to operate for a minimum		
of 30 minutes without main electrical power.		
(3) Each PVHO main and secondary communications		
system, are to include a speech unscrambler when		
used with gas systems which include helium.		
(4) A self-contained through-water communication		
system, with a minimum operating duration of 24		
hours, is to be provided for emergency		

	rements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
communication with diving bells when operating		
under water.		
(5) Communications between dive control, the diving		
bell or wet bell, the standby diver and the divers in the		
water are to be recorded (audio and video) and		
retained for a minimum of 24 hours after the dive is		
completed.		
(6) Where diving is carried out from a diving platform		
operating with dynamic positioning (hereinafter		
referred to as "DP"), then an audio and visual alarm		
activated by the DP operator is to be fitted at the dive		
control stand/station to inform the supervisor of the		
DP status. It is to be able to be tested before each dive		
when operating on DP.		
(7) Primary and secondary means of communication		
between dive control and the bridge is to be provided		
and available at all times. One of the means of		
communication is to operate without the need for		
external electrical power supply. If the vessel is		
operating in DP, the primary means of communication		
is to be a direct hard-wired two-way link.		
(8) The diving unit general alarm is to be able to be heard		
in the dive and saturation control stands. This alarm is		
to be mutable to ensure communication is not		
interrupted with the divers. Muting of the alarm is to		
be time-limited and there is to be visual indication of		
the alarm status.		
(9) A diving bell is to have an emergency locating device		
with a frequency of 37.5 kHz designed to assist		
personnel on the surface in establishing and		
maintaining contact with the submerged diving bell if		
the umbilical to the surface is severed. The device is		
to include the following components:		

Amended-Original Requirements Comparison Table (2023 Diving Code)		
Amended	Original	Remarks
(a) Transponder:		
i) The transponder is to be provided with a		
pressure housing capable of operating to at		
least the maximum operating depth of the		
diving bell containing batteries and equipped		
with saltwater activation contacts.		
ii) The transponder is to be designed to operate		
with characteristics shown in Table 5.3.		
(b) Portable (diver-held or ROV mounted)		
interrogator/receiver:		
i) The interrogator/receiver is to be provided		
with a pressure housing capable of operating		
to the maximum operating depth of the		
diving bell with pistol grip and compass. The		
front end is to contain the directional		
hydrophone array and the rear end the three-		
digit LED display readout calibrated in		
metres. Controls are to be provided for		
"on/off receiver gain" and "channel		
selection".		
ii) The interrogator/receiver is to be designed to		
operate with characteristics shown in Table		
5.4.		
(10) In addition to the communication systems (1) and (9)		
above, a standard bell emergency communication		
tapping code is to be adopted (See Table 5.5), for use		
between persons in the bell and rescue divers. A copy		
of this tapping code is to be displayed inside and		
outside the bell and also in the dive control room.		

		rements Comparison Table (2023 Diving Code)	D am aulta
Amen		Original	Remarks
	der Characteristics		
Characteristic	Standard		
Common emergency reply frequency	<u>37.5 kHz</u>		
Individual interrogation frequencies	 channel A 38.5 + 0.05 kHz channel B 39.5 + 0.05 kHz 		
Receiver sensitivity	+15 dB referred to 1 mbar		
Minimum interrogation pulse width	<u>4 ms</u>		
Turnaround delay	<u>125.7+0.2 ms</u>		
Reply frequency	<u>37.5 + 0.05 kHz</u>		
Maximum interrogation rates	 more than 20% of battery life remaining Once per second less than 20% of battery life remaining Once per 2 second 		
Minimum transponder output power	85 dB referred to 1 mbar at 1 m		
Minimum transducer polar diagram	$-6 dB \text{ at } +135^{\circ} \text{ solid angle}^{(1)}$		
Minimum listening life in water	10 weeks		
Minimum battery life replying at 85 dB	5 days		
Note: (1) Centred on the transponder the surface. Table 5.4 Interrogator/r	vertical axis and transmitting towards		
<u>Characteristic</u>	Standard		
Common emergency reply frequency	37.5 kHz		
Individual interrogation frequencies	• channel A 38.5 + 0.05 kHz • channel B 39.5 + 0.05 kHz		
Minimum transmitter output power	85 dB referred to 1 mbar at 1 m		
Transmit pulse	<u>4 ms</u>		
Directivity	+ 158		
(Capability to zero range on transponder)			
Maximum detectable range	more than 500 m		

	Amended Amended	Original	Remarks
T 11 5 5 D 11		Original	Remarks
	emergency communication tapping code		
Tapping code	Situation		
3.3.3	Communication opening procedure (inside and		
<u> </u>	outside)		
<u>1</u>	Yes or affirmative or agreed		
<u>3</u>	No or negative or disagreed		
<u>2.2</u>	Repeat please		
<u>2</u>	Stop		
<u>5</u>	Have you got a seal?		
<u>6</u>	Stand by to be pulled up		
1.2.1.2	Get ready for through water transfer		
	(open your hatch)		
2.3.2.3	You will NOT release your ballast		
<u>4.4</u>	Do release your ballast in 30 minutes from now		
1.2.3	Do increase your pressure		
3.3.3	Communication closing procedure (inside and		
<u>5.5.5</u>	outside)		
5.14.1 Goal (2) The goal o and associated d maintained in a sa	2023 Diving Code 4.14.1)* f this section is to ensure that diving systems iving platform interfaces are able to be fe working condition.		
	onal Criteria (2023 Diving Code 4.14.2		
and 4.			
	achieve the goal set out in 5.14.1 above, the		
	(2) functional criteria are embodied.		
(1) All diving	g plant and equipment and related services		
are to hav	e a risk based planned maintenance system.		
	ving plant and equipment able to be		
	d in a safe working condition is to be used.		

<u> </u>	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
2 In order to comply with the functional criteria of -1		
above, the following (1) to (3) are to be complied with.		
(1) All diving equipment is to be identified, marked and		
controlled within a planned maintenance system.		
Records are to be available, demonstrating that the		
diving equipment is being maintained and tested.		
(2) Equipment maintenance requirements and records are		
to consider the following (a) to (d):		
(a) manufacture's guidelines;		
(b) industry good practice;		
(c) national and international standards acceptable to		
the Administration; and		
(d) applicable national regulatory requirements.		
(3) All diving plant and equipment are to be tested and		
verified after installation to ensure compliance to		
national and international standards acceptable to the		
Administration.		
# 4 # W L C C L L C C (MDCC) (AAAA D)		
5.15 Hyperbaric Survival Craft (HBSC) (2023 Diving		
<u>Code 4.15)</u>		
5.15.1 Goal (2023 Diving Code 4.15.1)		
The goal of this section is to ensure that the Hyperbaric		
Survival Craft provides an equivalent escape capability, for		
divers under pressure, as that provided under the LSA Code,		
as amended.		
5.15.2 Functional Criteria (2023 Diving Code 4.15.2		
and 4.15.3)*		
1 In order to achieve the goal set out in 5.15.1 above, the		
following functional criteria is embodied.		
The HBSC is designed, constructed and tested in		

Amended	Original	Remarks
accordance with applicable aspects of the <i>LSA</i> Code, Chapter		
IV (Survival craft).		
2 In order to comply with the functional criteria of -1		
above, the following (1) to (13) are to be complied with.		
(1) HBSC is to comply the requirements specified in (a)		
and (b) below:		
(a) "General requirements for lifeboats" as defined		
in Chapter 4.4 of the LSA Code with the		
following deviation:		
i) When assessing an HBSC in the damaged		
condition flooding or holes within the PVHO		
pressure hull do not need to be considered;		
<u>and</u>		
(b) The requirements for "Totally enclosed lifeboat"		
as defined in Chapter 4.6 of the LSA Code or		
"Free-fall lifeboat" as defined in Chapter 4.7 of		
the LSA Code, with the additional deviations as		
defined in this provision.		
(2) HBSC is to comply with the "Construction of		
lifeboats" as defined in Chapter 4.4.1 of the LSA Code		
with the deviations as defined (a) to (k) below:		
(a) The design and construction of the HBSC are to		
be such that it is suitable for the environmental		
conditions envisaged, account being taken of the		
horizontal or vertical dynamic snatch loads that		
may be imposed on the system and its lifting		
points particularly during evacuation and		
recovery. (b) The LIDSC is to be fitted with a single lift point.		
(b) The HBSC is to be fitted with a single lift point.		
Safe means are to be provided to connect a		
recovery hook, at sea, to the single lift point.		
(c) Attachment points for the HBSC are to be provided to enable it to be secured to the deck of		
provided to enable it to be secured to the deck of		

Amended-Original Requirements Comparison Table (2023 Diving Code)		
Amended	Original	Remarks
a rescue vessel.		
(d) A single lift point and associated lift load path are		
to be designed for a load 3 <i>times</i> the weight of the		
fully loaded HBSC. A minimum factor of safety		
of 2 to yield is to be applied for structures and 4		
for loose gear including suspension chains, links		
and blocks. A static proof load test of not less than		
3 <i>times</i> the weight of the fully loaded HBSC is to		
be applied.		
(e) The HBSC is to be fitted with a tow arrangement		
suitable in function and strength for towing the		
HBSC in the following conditions. The tow		
arrangement is to be designed to minimize human		
operation when connecting the tow.		
i) 3 knots to the top of sea state 3.		
ii) Holding the HBSC in position in up to sea		
state 7.		
(f) Where HBSC are Semi-Submerged PVHO, the		
pressure boundary of the PVHO may be the		
HBSC hull.		
(g) HBSC on ships required to be provided with fire-		
protected lifeboats, is to be provided with a		
similar degree of fire protection and self-		
contained air support systems in accordance with		
the relevant sections of the LSA Code.		
(h) Where HBSC are semi-submerged PVHO and		
may be used to transport divers through fires,		
consideration is to be given, where practicable, to		
providing an external water spray system for		
cooling purposes.		
(i) The operating position for the HBSC control		
panel is to be accessible and allow the operator to		
monitor and operate the equipment in a seaway		
		1

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
and have egress and access to these positions		
from within the HBSC.		
(i) The area of the HBSC enclosure that is $1.7 m$ or		
higher, may be less than 50 % of the floor area		
but is to be sufficient to allow the crew to operate		
effectively.		
(k) Surfaces within a PVHO pressure hull are not		
required to have a non-skid finish.		
(3) HBSC is to comply with the "Carrying capacity of		
lifeboat" as defined in Chapter 4.4.2 of the LSA Code		
with the deviations as defined (a) and (b) below:		
(a) All equipment and consumables required for		
support of the HBSC PVHO and its operation are		
to be included in the design of the HBSC and are		
to be based on occupancy and a minimum of 72		
hours duration from launch without external		
support; and		
(b) For the carrying capacity of the HBSC, the		
average mass of survivors inside HBSC is to be		
82.5 kg.		
(4) HBSC is to comply with the "Access into lifeboats"		
as defined in Chapter 4.4.3 of the LSA Code with the		
deviations as defined (a) to (c) below:		
(a) Access into the HBSC from the diving system		
internal muster point and for crew members is to		
be so arranged that it can be boarded by the crew		
and diving complement in less than 15 minutes;		
(b) A helpless person within the diving system is to		
be able to be transported easily to the HBSC on a		
stretcher from the diving system; and		
(c) Surfaces within a PVHO pressure hull are not		
required to have a non-skid finish.		
(5) HBSC is to comply with the "Lifeboat buoyancy" as		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
defined in Chapter 4.4.4 of the LSA Code with the		
deviations as defined (a) and (b) below:		
(a) Semi-Submerged PVHO HBSC buoyant material		
can be located external to the hull and is to be		
protected against impact, e.g., during launch in		
accordance with Chapter 4.7 "Free-fall lifeboats"		
of the LSA Code, and is not to be adversely		
affected by seawater, oil or oil products; and		
(b) For stability and buoyancy requirements the		
HBSC PVHO are to be considered sealed and		
pressurized.		
(6) HBSC is to comply with the "Lifeboat freeboard and		
stability" as defined in Chapter 4.4.5 of the LSA Code		
with the deviations as defined (a) to (c) below:		
(a) Semi-submerged PVHO HBSC is to be provided		
with adequate stability for all envisaged		
operating and environmental conditions and be		
self-righting.		
(b) Semi-submerged PVHO HBSC is to have		
sufficient reserves of buoyancy to enable the		
necessary rescue crew and equipment to be		
carried.		
(c) Towing attachment points are to be so situated		
that there is no likelihood of the HBSC being		
capsized as a result of the direction of the tow		
line. Where towing harnesses are provided, they		
are to be lightly clipped or secured to the unit and,		
so far as is possible, be free from snagging when		
pulled free.		
(7) HBSC is to comply with the "Lifeboat propulsion" as		
defined in Chapter 4.4.6 of the LSA Code with the		
deviations as defined (a) to (d) below:		
(a) The HBSC is to be capable of moving away from		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
the diving platform, maintaining a safe position		
and being adequately protected from a surface oil		
fire;		
(b) Provisions for autonomous operation are to be for		
72 hours, where fuel allowances are to be based		
on:		
i) first hour at 6 knots, full sprinkler system and		
PVHO life support functioning;		
ii) average speed for first 24 hours is 6 knots and		
all life support functioning;		
iii) average speed for subsequent 48 hours is 5		
knots and all life support functioning; and		
iv) maintaining adequate ventilation for the boat		
crew;		
(c) The HBSC may be battery powered providing		
enough electrical power is available for 72 hours		
of autonomous operation including all life-		
support functions; and		
(d) HBSC units without propulsion (submerged or		
floating) are to only be permitted if a suitably		
powered rescue boat, as defined in Chapter V of		
the LSA Code, is available to tow the HBSC to a		
safe position.		
(8) For semi-submerged PVHO HBSC the following (a)		
and (b) applies:		
(a) HBSC launched by fall or falls are to comply with		
the requirement for release mechanisms as		
defined in paragraph 4.4.7.6 of the LSA Code; and		
(b) HBSC is to have skates and fenders as necessary		
to facilitate launching.		
(9) HBSC is to comply with the "Lifeboat fittings" as		
defined in Chapter 4.4.7 of the LSA Code with the		
deviations as defined (a) to (d) below:		
deviations as defined (a) to (u) below.		1

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
(a) Drainage points as per paragraph 4.4.7.1 of the		
LSA Code are not required to be automatic when		
they are part of the PVHO pressure hull.		
(b) An HBSC without propulsion is not required to		
have a rudder and tiller.		
(c) Storage within the PVHO pressure hull is not		
required to be watertight and is not to hold		
pressure unless designed to do so.		
(d) Where an HBSC is without propulsion and		
assisted by a rescue craft the operation is to be		
possible without input from the survivors within		
the HBSC. Should this not be possible, the		
required view and communications are to be		
specially considered.		
(10) HBSC is to comply with the "Lifeboat equipment" as		
defined in Chapter 4.4.8 of the LSA Code with the		
deviations as defined (a) to (d) below:		
(a) Survivors outside the PVHO pressure hull are to		
have access to all lifeboat equipment except oars.		
They are also to have the following with a		
minimum endurance of 72 hours:		
i) VHF radio;		
ii) strobe light;		
iii) Emergency Position-Indicating Radio		
Beacon (EPIRB);		
iv) Search and Rescue Transponder (SART);		
v) drinking water, 6 ℓ per person (i.e., 2 ℓ per		
day); and		
vi) food ration totalling 15,000 kJ per person.		
(b) Survivors inside any PVHO pressure hull are to		
have the following available:		
i) survival information and emergency		
procedures;		
		-

	ements Comparison Table (2023 Diving Code)	D 1
Amended	Original	Remarks
ii) drinking water, 6 ℓ per person (i.e., 2 ℓ per		
<u>day);</u>		
iii) a rust proof graduated drinking vessel		
iv) food ration totalling 15,000 kJ per person.		
v) first-aid equipment, paper towels, waste		
disposal bags and all necessary operational		
instructions for equipment within the HBSC		
PVHO; and		
vi) anti-sea sickness medicine and bags (for 72		
h).		
(c) For a semi-submerged PVHO HBSC the		
following external equipment is to be available		
and either permanently fitted, or available for		
fitting or activation by a dedicated rescue craft.		
Electronic devices are to have a minimum		
endurance of 72 hours:		
i) radar reflector or transponder;		
ii) sea anchor;		
iii) strobe light; and		
iv) EPIRB		
(d) For a fully submerged PVHO HBSC the		
following external equipment is to be available		
and able to be activated in an emergency:		
i) acoustic transponder suitable for operation in		
accordance with 5.13 Communications and		
relocation systems; and		
ii) Tethered surfaced EPIRB.		
(11) HBSC is to comply with the "Lifeboat markings" as		
defined in Chapter 4.4.9 of the LSA Code with the		
deviations as defined (a) to (d) below:		
(a) Dedicated HBSC is to be coloured orange and be		
provided with retro-reflective material to assist in		
their location during hours of darkness.		
man 10 cm and month of mainingon		I

		T
Amended	Original	Remarks
(b) Each HBSC is to be marked with at least three		
identical signs, Fig. 5.3. One of these markings is		
to be on top of the unit and be clearly visible from		
the air and the other two be mounted vertically on		
both sides and as high as possible and be capable		
of being seen while the unit is afloat.		
(c) The following (i) to (vi) instructions and		
equipment are to be clearly visible and be kept		
readily available while the HBSC is afloat:		
i) towing arrangements and buoyant towline;		
ii) all external connections, for essential		
services;		
iii) maximum gross weight of the HBSC in air;		
iv) lifting point and load rating;		
v) name of the diving unit and port of		
registration; and		
vi) emergency contact details.		
(d) Where appropriate, the following (i) to (v)		
warning instructions are to be permanently		
displayed on every HBSC in two separate		
locations so as to be clearly visible while the craft		
is afloat:		
"Unless specialized diving assistance is		
available:		
i) do not touch any valves or other controls;		
ii) do not try to get occupants out;		
iii) do not connect any gas, air, water or other		
services;		
iv) do not attempt to give food, drinks or		
medical supplies to the occupants; and		
v) do not open any hatches."		
(12) HBSC is to comply with the "Totally enclosed		
<u>lifeboats</u> " as defined in Chapter 4.6 of the <i>LSA</i> Code		

Amended	Original	Remarks
with the deviations as defined (a) to (c) below:	5	
(a) HBSC are not required to be rowable;		
(b) The requirements to access hatches/handrails and		
windows apply to parts of the enclosure that are		
not also part of the PVHO pressure hull; and		
(c) Ventilation requirements apply to the survivors		
outside the PVHO pressure hull (boat crew) for a		
period of not less than 72 hours.		
(13) HBSC is to comply with the "Free-fall lifeboat" as		
defined in Chapter 4.7 of the LSA Code with the		
deviations as defined (a) to (d) below:		
(a) During launching of a free-fall HBSC PVHO		
access doors are to be mechanically prevented		
from opening;		
(b) Any externally attached items are to be designed		
for the impact loads of a free-fall launch;		
(c) Provision is to be made for safely enabling		
activation systems, for release from outside of the		
HBSC, where such systems are not accessible		
from the inside of the HBSC; and		
(d) Recognizing that seating design and orientations		
for the occupants may be other than facing		
backwards, arrangements are to be made to		
protect the occupants from the effects of		
acceleration and deceleration.		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
Fig. 5.3 HBSC diver rescue sign		
White - 300 mm × 300 mm Yellow - 300 mm high		
White letters - 150 mm high		
DIVER RESCUE CALL COASTGUARD AT ONCE White letters - 50 mm high Green background - 1200 mm long × 450 mm high (minimum)		
Chapter 6 DIVING OPERATIONS AND	(Newly added)	
SAFETY MANAGEMENT 6.1 Goals		
6.1.1 General (2023 Diving Code 5.1) The goal of this chapter is to provide a minimum international standard for the conduct of diving operations from a diving unit in accordance with the intent of the ISM Code.		
6.2 Functional criteria		
6.2.1 General (2023 Diving Code 5.2) In order to achieve its goal in 6.1.1 above, this chapter embodies the following provisions:		

	ements Comparison Table (2023 Diving Code)	D 1
Amended	Original	Remarks
6.3 Diving operations from the diving unit (2023)		
Diving Code 5.3)		
6.3.1 Goal (2023 Diving Code 5.3.1)*		
The goal of this section is to provide owners,		
operators, masters, crews and specialist personnel, including		
all diving personnel, with sufficient procedures, plans and		
instructions to operate a diving unit safely and effectively and		
in accordance with the intent of part A-7 (Shipboard		
Operations) of the International Safety Management Code		
(ISM Code).		
(ISIT Code):		
6.3.2 Functional criteria (2023 Diving Code 5.3.2 and		
5.3.3)*		
1 In order to achieve the goal set out in section 6.3.1		
above, the following functional criteria are		
embodied in the provisions of this section:		
(1) diving operations should be included in the diving		
platform's safety management system for compliance		
• • • • • • • • • • • • • • • • • • • •		
with the ISM Code;		
(2) the diving unit should not be used outside of its design		
capabilities;		
(3) sufficient procedures, plans and instructions should		
be available to ensure safe diving operations from the		
diving unit; and		
(4) competent personnel should be available to ensure		
safe operation of the diving unit.		
2 In order to comply with the functional criteria of		
section -1 above, the company responsible for the diving unit		
is to:		
(1) define and document the responsibility, authority and		
interrelation of the diving organization's personnel		
towards the diving platform's personnel;		

Amended Amended	Original	Remarks
	Original	Remarks
(2) ensure that the diving organization has procedures,		
plans and instructions in place for maintaining the		
condition and certification of the diving system and		
equipment while it is on board the diving platform;		
(3) ensure that the diving organization has procedures in		
place to ensure that relevant survey, inspection or		
audit findings, conditions and memoranda are		
communicated to the diving unit and its		
Administration or recognized organization;		
(4) identify any diving platform support activities which		
are critical for the diving operation		
(5) in cooperation with the diving organization, identify		
which equipment and technical systems' sudden		
operational failure may result in hazardous situations;		
(6) ensure that the diving organization's procedures or		
diving operations manual, safety management system		
and associated integration documentation, as they		
apply to the diving unit, are implemented under part		
A-7 (Shipboard operations) of the <i>ISM</i> Code;		
(7) ensure that when undertaking new diving tasks or		
changing geographical location the above are		
reviewed and updated where necessary by the persons		
<u>defined in 6.3.2-2(1); and</u>		
(8) ensure that documentation covering the procedures,		
plans and instructions for diving operations is		
included in or referenced by the diving platform's		
safety management system and contains the		
<u>following:</u>		
(a) means to ensure compliance with section 4.3		
"Geographic location and environmental		
conditions";		
(b) means to ensure the operational capabilities and		
limitations of the diving unit to conduct diving		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
operations are not exceeded;		
(c) details of the diving organization's procedures or		
diving operations manual, safety management		
system and associated integration		
documentation11 as applied to the diving unit;		
and		
(d) emergency and contingency procedures.		
\(\frac{1}{2}\) ======\(\frac{1}{2}\) =====\(\frac{1}{2}\) =====\(\frac{1}{2}\) ======\(\frac{1}{2}\) =====\(\frac{1}{2}\) ====\(\frac{1}{2}\) =====\(\frac{1}{2}\) ====\(\frac{1}{2}\) =====\(\frac{1}{2}\) ====\(\frac{1}{2}\) ====\(\frac{1}{2}\) ====\(\frac{1}{2}\) ====\(\frac{1}{2}\) ====\(\frac{1}{2}\) ====\(\frac{1}{2}\) ====\(\frac{1}{2}\) ===\(\frac{1}{2}\) ==\(\frac{1}{2}\) ==\(\frac{1}\) ==\(\frac{1}{2}\) ==\(\frac{1}{2}\) ==\(\frac{1}{2}\) =		
6.4 Diving organization's occupational health and		
safety management system (2023 Diving Code 5.4)		
6.4.1 Goal (2023 Diving Code 5.4.1)*		
The goal of this section is to ensure that the Diving		
organization has an effective occupational health and safety		
management system.		
6.4.2 Functional criteria (2023 Diving Code 5.4.2 and		
<u>5.4.3)*</u>		
1 In order to achieve the goal set out in section 6.4.1		
above, the following functional criteria are embodied in the		
provisions of this section:		
(1) there is to be a certified occupational health and safety		
management system covering plans, procedures,		
instructions and methods of diving; and		
(2) the occupational health and safety management		
system are to provide the information required to		
allow integration with the diving unit safety		
management system.		
2 In order to comply with the functional criteria of		
section -1 above, the following is to be complied with:		
(1) the diving organization's occupational health and		
safety management system are to be certified to a		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
standard that is acceptable to the Society;		
(2) the procedures within the diving organization's		
occupational health and safety management system		
are to be in accordance with national or international		
diving regulations, diving codes of practice and		
diving standards acceptable to the Society;		
(3) the diving organization is to identify services from the		
diving platform and any equipment or technical		
systems within the diving system where operational		
failure may result in hazardous situations; and		
(4) where the diving organization and the company		
responsible for the diving unit are the same entity, the		
diving organization's occupational health and safety		
management system may be integrated with the		
diving unit safety management system.		
6.5 Manning and training (2023 Diving Code 5.5)		
6.5.1 Goal (2023 Diving Code 5.5.1)*		
The goal of this section is to ensure that diving units		
conducting diving operations are appropriately manned by		
suitably qualified, trained and experienced personnel, in		
accordance with the intent of part A-6 (Resources and		
personnel) of the ISM Code.		
6.5.2 Eunstianal suitaria (2022 Diving Code 5.5.2 and		
6.5.2 Functional criteria (2023 Diving Code 5.5.2 and 5.5.3)		
1 In order to achieve the goal set out in section 6.5.1		
above, the following functional criteria are		
embodied in the provisions of this section:		
(1) the diving unit is to be manned by personnel who are		
certified as being qualified and medically fit; and		
certified as certify quantified and medically itt, and		

<u> </u>	ements Comparison Table (2023 Diving Code)	,
Amended	Original	Remarks
(2) the diving unit is to establish and maintain procedures		
for identifying any training which may be required in		
support of the diving operation.		
2 In order to comply with the functional criteria of		
section -1 above, the following is to be complied with:		
(1) The diving unit is to be manned by personnel certified		
as qualified and medically fit. All qualifications and		
certifications provided by the diving organization are		
to be valid and in date.		
(2) The roles and duties of the diving organization		
personnel required to operate the diving system are to		
be defined, including:		
(a) the minimum number of diving personnel		
required to safely man the diving unit at any time		
during the diving operation;		
(b) a list of personnel positions and the role of each		
position;		
(c) a list of duties and responsibilities of each		
personnel position; and		
(d) the required competence of each personnel		
position in accordance with national and		
international requirements; qualifications and		
associated certificates are to be issued by an		
agency acceptable to the Administration.		
(3) The diving unit is to establish and maintain		
procedures for identifying any training or additional		
manning which may be required in support of the		
diving operation and ensure that such training is		
provided for all personnel concerned and that all		
personnel involved in diving operations have an		
adequate understanding of relevant rules, regulations,		
codes and guidelines.		
(4) The diving unit is to establish procedures by which		

<u> </u>	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
the ship's personnel receive relevant information on		
the diving operation in a working language or		
languages understood by them.		
6.6 Emergency preparedness (2023 Diving Code 5.6)		
6.6.1 Goal (2023 Diving Code 5.6.1)*		
The goal of this section is to ensure the diving unit		
provides for safe escape and evacuation of diving personnel to		
a place of safety, in accordance with the intent of part A-8		
(Emergency preparedness) of the ISM Code.		
6.6.2 Functional criteria (2023 Diving Code 5.6.2 and		
<u>5.6.3)*</u>		
1 In order to achieve the goal set out in section 6.6.1		
above, the following functional criteria are embodied in the		
provisions of this chapter;		
(1) potential emergency situations are to be identified and		
procedures established to respond to them;		
(2) emergency escape and evacuation preparations are to		
ensure that diving personnel are able to be evacuated		
to a place of safety;		
(3) programmes are to be established with drills and/or		
exercises conducted to prepare for diving-related		
emergency actions; and		
(4) the safety management system is to provide for		
measures ensuring that the diving unit can respond at		
any time to hazards, accidents and emergency		
situations involving its diving operations.		
2 In order to comply with the functional criteria of		
section -1 above, the following is to be complied with:		
(1) Suitable measures are to be implemented to mitigate		
(1) Suitable measures are to be implemented to intigate		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
the hazards identified in 6.3 and 6.4.		
(2) A plan is to be developed to evacuate diving personnel		
to a place of safety and, if the diving operation		
requires the use of an HBSC, there is to also be a plan		
for hyperbaric evacuation.		
(3) The diving unit is to have on board a plan for		
cooperation with appropriate SAR services in the		
event of an emergency.		
(4) The plans specified in (2) and (3) are to:		
(a) be developed in cooperation between the		
platform, the company, as defined in SOLAS		
regulation IX/1, and the search and rescue		
services;		
(b) include provisions for periodic exercises to be		
undertaken to test their effectiveness; and		
(c) include documented emergency notification that		
identifies the responsible persons both onshore		
and on the diving unit.		
(5) Standby diving units do not require hyperbaric		
evacuation for received survivors and are to be		
considered as part of the contingency planning for the		
diving unit being supported.		
6.7 Voyage planning (2023 Diving Code 5.7)		
6.7.1 Goal (2023 Diving Code 5.7.1)		
The goal of this section is to ensure that the company,		
master and crew are provided with sufficient information to		
enable operations to be conducted with due consideration to		
safety of ship and persons on board and, as appropriate,		
environmental protection.		
	1	

	ements Comparison Table (2023 Diving Code)	T
Amended	Original	Remarks
6.7.2 Functional criteria (2023 Diving Code 5.7.2 and		
<u>5.7.3)</u>		
1 In order to achieve the goal set out in section 6.7.1		
above, the voyage plan is to take into account the potential		
hazards of the intended voyage while a diving unit is under		
way.		
2 In order to comply with the functional criteria of		
section -1 above, while the vessel is a diving unit, the master		
is to consider a route, taking into account the following:		
(1) Any limitations of the hydrographic information and		
aids to navigation available. Published information is		
to be supplemented with the latest available site-		
specific information for locations that diving or		
underwater operations are to be carried out.		
(2) Current information on fixed structures and moored		
vessels at the planned underwater operational		
locations. This is to include the increased effective		
draught of the diving unit while submersible parts of		
the diving system, still attached to the diving		
platform, are deployed in mooring patterns and		
catenaries of mooring lines of vessels and/or		
suspended hazards which will be in close proximity to		
the intended underwater operations. The information		
also needs to include the maximum and minimum		
catenary heights and details or reference to the safe		
system of work to be used to control the interfaces		
with these hazards.		
(3) Limitations placed on the voyage due to the		
provisions implemented in Chapter 4.		
(4) Limitations on the diving platform's geographical		
location and operating conditions in order to remain		
compliant with the hyperbaric rescue plan.		
(5) Limitations on geographical location or duration of		

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
operation imposed by diving platform endurance such		
as fuel tankage, freshwater capacity, provision stores,		
gas and diving consumables.		
(6) A diving unit operating in polar waters is to comply		
with Chapter 11 (Voyage planning) of the Polar Code,		
as amended.		
(Deleted)	Chapter 3 DIVING BELL AND DECK	
	DECOMPRESSION CHAMBER	
	(Omitted)	
(Deleted)	Chapter 4 HANDLING SYSTEM AND	
	MATING DEVICE	
	(O:44 - 1)	
	(Omitted)	
(Deleted)	Chapter 5 LIFE SUPPORT SYSTEM	
(Deleteu)	Chapter 5 LIFE SULLOKI SISTEM	
	(Omitted)	
	(0.11110-0)	
(Deleted)	Chapter 6 INSTRUMENTS AND	
(,	COMMUNICATION SYSTEMS	
	(Omitted)	

	Original	D1
Amended	Original	Remarks
(Deleted)	Chapter 7 EMERGENCY SURFACING	
	ARRANGEMENT	
	, -	
	(Omitted)	
(Deleted)	Chapter 8 PRESSURE VESSELS, PIPING	
(Beletta)	SYSTEMS AND ELECTRICAL	
	INSTALLATIONS	
	(0;41)	
	(Omitted)	
(D.1.4.1)	CL	
(Deleted)	Chapter 9 HABITATION INSTALLATION	
	AND FIRE-EXTINGUISHING SYSTEM	
	(0.1.1)	
	(Omitted)	
EFFECTIVE DATE AND APPLICATION		
1. The effective date of the amendments is 27 June		
2024.		

Amended Amended	Original	Remarks
	2	Kemarks
Chapter 2 SURVEYS OF THE DIVING UNIT AND SYSTEMS	GUIDANCE FOR DIVING SYSTEMS Chapter 2 SURVEYS OF THE DIVING SYSTEMS	
2.1 General (Omitted)	2.1 General (Omitted)	
2.2 Registration Surveys	2.2 Registration Surveys	
(Omitted)	(Omitted)	
Chapter 4 OPERATIONAL CAPABILITIES AND LIMITATIONS OF DIVING PLATFORMS FOR CONDUCTING SAFE DIVING OPERATIONS	(Newly added)	
4.5 Placement and Configuration of Diving System on Diving Platform (2023 Diving Code 3.5)		
4.5.1 Goal (2023 Diving Code 3.5.1) 1 There is to be sufficient deck area for the diving system, including the provision of a level of access allowing operational personnel the ability to carry out their duties safely and efficiently. 2 The placement and configuration of the diving system plant and equipment are to ensure compliance with 4.3 of the		-1 Appendix 1/1.1.1, IMO Diging Code -2 Appendix 1/1.1.2, IMO Diging Code -3 Appendix 1/1.1.3,

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
Rules, "Geographic location and environmental conditions".		IMO Diging Code
3 The placement and configuration of the diving system		
are to comply with 4.8 of the Rules, "Fire safety".		
		4.5.2
4.5.2 Functional Criteria (2023 Diving Code 3.5.2		Footnote 7 of 3.5.3.2,
and 3.5.3)		IMO Diving Code
Regarding the "Zone 0" specified in 4.5.2-2(2) of the		
Rules, diving systems are not to be permitted in hazardous		
area designated as Zone 0 in IEC 60079-10-1 and electrical		
equipment is to be suitable for the Zone in which it is located.		
4.6 Subdivision and Stability (2023 Diving Code 3.6)		Appendix 1/1.2, IMO
		Diving Code
4.61 C 1(2022 Pt : C 1 2.61)		
4.6.1 Goal (2023 Diving Code 3.6.1)		
The diving platform is to have a sufficient freeboard		
height. Diving platforms where decks are constantly awash,		
even in moderate seas, are to be considered unsuitable for		
diving operations.		
47 D '' V ' (2022 D' ' C 2.7)		Eastmata 9 af 2 7 2 IMO
4.7 Position Keeping (2023 Diving Code 3.7)		Footnote 8 of 3.7.2, IMO Diving Code
		Diving Code
4.7.2 Functional Criteria (2023 Diving Code 3.7.2		
and 3.7.3)		
Where divers enter the water directly from the diving		
platform specified in 4.7.2-1 of the Rules, a daughter-craft is		
not considered to be the diving platform.		
not considered to be the diving platform.		
	I .	

	ments Comparison Table (2023 Diving Code)	T.
Amended	Original	Remarks
Chapter 5 DIVING SYSTEM DESIGN, CONSTRUCTION, INSTALLATION, TESTING AND SURVEY 5.3 Diving System Design (2023 Diving Code 4.3)	(Newly added)	
 5.3.1 Goal (2023 Diving Code 4.3.1) 1 Design and interface of the diving system on the diving platform are to consider different dynamic loads when operating over-the-side, through a moonpool or from the stern. 2 For diving equipment and plant that have automated functions, a systematic engineering assessment of the diving system and its sub-systems is to be completed. The assessment is to identify all components and control systems that contain automated functions during normal operation, maintenance and testing phases within the diving system. 		-1 Appendix 1/2.1.1, IMO Diving Code -2 Appendix 1/2.1.2, IMO Diving Code
5.4 Pressure Vessels for Human Occupancy(PVHO) (2023 Diving Code 4.4) 5.4.1 Goal (2023 Diving Code 4.4.1) All interlocks on PVHO are to prevent inadvertent		5.4.1 Appendix 1/2.2.1.2, IMO Diving Code
opening of the mechanism/door if pressure is still inside the lock and prevent obtaining a gas tight seal on the lock if the mechanism/door is not properly closed. 5.4.3 Surface Compression Chambers (2023 Diving Code 4.4.3) The minimum internal diameter of the "surface compression chamber" referred to in 5.4.3 of the Rules, is to allow for the management of a casualty (See Table 5.4.3).		5.4.3 Appendix 1/2.2.1.1, IMO Diving Code

Amended	Original	Remarks
Table 5.4.3 Surface compression chamber minimum dian	meter	
Surface Compression Chamber Use Minimum internal diameter	(m)	
Surface Orientated Diving Support 1.50		
Saturation Diving <u>1.80</u>		
Hyperbaric Survival Craft 1.70		
5.4.5 Hyperbaric Survival Craft(HBSC) PV (2023 Diving Code 4.4.5) It is recommended that the "manifold" referred 5.4.5-2(10) of the Rules, is to include the internat standard connections and configurations shown in 5.4.5, or equivalent.	to in tional	Appendix 1/2.2.2, IMO Diving Code

An	nended	Original	Remarks
	is to include the international		
standard connections			
HBSC Manifold service	Standard connector(1)		
Internal pressure (Diving depth monitoring)	Snap-tite SVHN 4-4F		
<u>inonitornig)</u>	Crouse Hinds Electro Products (also		
	referred to as an Electro Oceanics (EO)		
	or Watermate) female, Series 53, model		
	53F8F-1 with 4 sockets and 2 contacts		
<u>Communications</u>	per socket.		
	Communications are two wire and		
	utilize the inboard (odd number) contact		
	from each of the sockets either side of		
	the polarizing hole.		
	Crouse Hinds Electro Products (also		
	referred to as an Electro Oceanics (EO)		
	or Watermate) male, Series 53, model		
	53E4M-1 with 4 sockets and 1 contact		
	per pin.		
Electrical power supply	Electrical power supply, single phase		
	240 VAC either 50 or 60 Hz. Current		
	should be limited to 15 A.		
	Viewed end-on with the polarizing pin at		
	the top, first pin clockwise is live		
	contact, second neutral contact and the		
Analysis of HBSC PVHO internal	third ground.		
environment	Snap-tite SVHN 4-4F		
Oxygen addition	Snap-tite BVHN 6-6F		
Built-in breathing system (BIBS)	Snap-tite BVHN 12-12F		
<u>supply</u>			
Blow-down (Pressurization)	Snap-tite BVHN 12-12F		
<u>Exhaust</u>	Snap-tite BVHN 12-12F		
Hot water supply	Snap-tite BVHN 12-12F		
Hot water return	Snap-tite BVHN 12-12F		
Note:			
(1) Other products to a similar	r specification may be available.		

Amended-Original Requirements Comparison Table (2023 Diving Code)		
Amended	Original	Remarks
5.7 Pipes, Valves, Fittings and Hoses (2023 Diving		
<u>Code 4.7)</u>		Appendix 1/2.3, IMO
		Diving Code
5.7.2 Functional Criteria (2023 Diving Code 4.7.2		
and 4.7.3)		
All pipework systems and associated valves for gases		
containing greater than 22 % oxygen as specified in 5.7.2-		
2(10) and (13) of the Rules, is to be designed to reduce		
temperature increases due to adiabatic compression. Where		
required by the Society, systems may need to be subject to		
oxygen pressure surge testing.		
5.8 Breathing Gas Supply, Storage and Temperature		
Control (2023 Diving Code 4.8)		
5.8.2 Functional Criteria (2023 Diving Code 4.8.2		
and 4.8.3)		-1 Appendix 1/2.4.2,
1 Critical equipment for survival of the divers inside a		IMO Diving Code
lost diving bell as specified in 5.8.2-2(8) of the Rules, is to be		INTO DIVING COUC
tested to ensure that it is capable of keeping the divers alive		
and reasonably healthy for a minimum period of 24 hours.		
2 All life-support systems and other critical equipment		-2 Appendix 1/2.4.3,
for survival of the divers inside an HBSC as specified in 5.8.2-		IMO Diving Code
2(8) of the Rules, are to be tested to ensure that the hyperbaric		
evacuation systems are capable of keeping the divers alive and		
fit for purpose for a minimum period of 72 hours.		
3 The colour coding for piping systems and gas storage		-3 Appendix 1/2.4.1,
cylinders/pressure vessels as specified in 5.8.2-2(9) of the		IMO Diving Code
Rules, is to comply with EN 1089-3 Transportable gas		
cylinders-Gas cylinder identification (excluding LPG) Part 3:		
Colour coding, or equivalent standards.		

8 1	ements Comparison Table (2023 Diving Code)	D 1
Amended	Original	Remarks
5.9 Diving Launch and Recovery Systems(LARS)		
(2023 Diving Code 4.9)		
5.9.1 Goal (2023 Diving Code 4.9.1)		4 4 4 5 5 5 5
1 For LARS that have automated functions, a systematic		-1 Appendix 1/2.5, IMO
engineering assessment of the diving system and its sub-		Diving Code
systems is to be completed. The assessment is to identify all		
components and control systems that contain automated		
functions during normal operation, maintenance and testing		
phases within the dive system. Particular attention is to be		
given to the connection and disconnection of a PVHO.		
2 Any crane that may be required for an emergency		-2 Appendix 1/2.5, IMO
recovery of a system deployed by a launching appliance or a		Diving Code
LARS is to have sufficient lift capacity and length of wire.		8
1 /		
5.9.3 Diving Bell LARS (2023 Diving Code 4.9.3)		
1 Techniques for safe emergency retrieval of the bell		-1 Appendix 1/2.5.1.1,
occupants to the surface compression chamber (surface		IMO Diving Code
orientated Transfer Under Pressure diving may require special		
consideration) if the primary and secondary means fail as		
specified in 5.9.3-3(8) of the Rules, may include bell to bell		2 A 1/2 5 1 2
through water transfer or buoyant ascent of the bell.		-2 Appendix 1/2.5.1.2, IMO Diving Code
2 If the emergency retrieval described in -1 above		INO Diving Code
involves buoyant ascent, the bell is to have sufficient stability		
to maintain a substantially upright position and means are to		
be provided to prevent accidental release of the ballast		
weights.		
5.9.4 Surface Orientated Diving LARS (2023 Diving		
Code 4.9.4)		.
1 If a ladder as specified in 5.9.4-3(9) of the Rules is to		-1 Appendix 1/2.5.2.1,
be used as a means of access to and egress from the water, then		IMO Diving Code
it is to be securely mounted, extend at least 2 m below the		

Amended-Original Requirements Comparison Table (2023 Diving Code)		
Amended	Original	Remarks
water and have sufficient hand holds above water to allow the		
diver to step easily on to the embarkation point.		
2 If stairs as specified in 5.9.4-3(9) of the Rules are to		-2 Appendix 1/2.5.2.2,
be used as a means of access to and egress from the water, then		IMO Diving Code
they are to be securely mounted, extend at least 2 m below the		
water and have a hand rail above water to allow the diver to		
step easily on to the embarkation point.		
step easily on to the emourkation point.		
5.10 Fire Protection (2023 Diving Code 4.10)		Appendix 1/2.6
5.10 The Froteetion (2020 Diving Code 1.10)		rippenam 1/2.0
5.10.2 Functional Criteria (2023 Diving Code 4.10.2		
and 4.10.3)		
Any extinguishing agent specified in 5.10.2-2(2) of		
the Rules is to have a cooling effect equivalent to or better		
than water.		
5.11 Electrical System (2023 Diving Code 4.11)		
evil Brown System (2020 Brying Cowe 112)		
5.11.1 Goal (2023 Diving Code 4.11.1)		5.11.1
The safe use of electrical systems for diving operations		Appendix 1/2.7.3, IMO
may be achieved by following industry good practice, such as		Diving Code
IMCA D 045 "Code of practice for the safe use of electricity		
underwater".		
5.11.2 Functional Criteria (2023 Diving Code 4.11.2		
and 4.11.3)		
1 Diving system switchboards specified in 5.11.2-2(4) of		-1 Appendix 1/2.7.1,
the Rules are to be considered to extend to the switchboards		IMO Diving Code
to which the emergency consumers are first connected to the		INIO DIVING COUC
emergency electrical power source.		

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
2 The emergency load for the diving system specified in		-2 Appendix 1/2.7.2,	
5.11.2-2(5)(a) of the Rules needs to include electrical power		IMO Diving Code	
to systems that are essential for maintaining life-support and			
for returning divers to a point of safety. However, the			
distribution system may be designed for staged			
reconnection/disconnection of emergency consumers.			
Consumers, such as LARS/diver hot water, may be			
disconnected after divers in the water are recovered to the			
surface compression chamber complex. Similarly emergency			
consumers such as environmental control of the surface			
compression chamber complex (that are not time critical) may			
be connected manually after switchover to emergency			
electrical power. Where manual intervention is required to			
manage the emergency electrical power system these			
switchboards are to be easily accessible within the diving			
system area.			
5.12 Control Systems (2023 Diving Code 4.12)			
5.12 Control Systems (2025 Diving Code 4.12)			
5.12.2 Functional Criteria (2023 Diving Code 4.12.2 and 4.12.3)			
1 Equipment is to be provided at the central control			
position specified in 5.12.2-2(6) of the Rules, to monitor the		-1 Appendix 1/2.8, IMO	
values of the following parameters (1) to (4) for:		Diving Code	
(1) Each occupied compartment (See Table 5.12.2-1)			
(2) Divers (See Table 5.12.2-2)			
(3) Central dive control should have monitored			
pressurisation and breathing gas sources (See Table			
5.12.2-3)			
(4) Central saturation control should have the following			
monitored pressurisation and breathing gas sources			
(See Table 5.12.2-4)			
·			

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Amended	Original	Remarks
2 The term "source" is used, in (3) and (4) above, to		
describe a means of providing the breathing or pressurization		-2 Appendix 1/2.8, IMO
gas going into the control panel, and the term "supply" is used,		Diving Code
in 5.8 of the Rules, to refer to the breathing or pressurisation		
gas going to the diver/dive basket/wet-bell/PVHO from the		
control panel (See Fig 5.12.2-1).		-3 Appendix 1/2.8, IMO
3 The fundamental principle to the provision of		Diving Code
breathing gas to divers is that any diver is to have ready access		Bring code
to two sources of breathing gas (a primary and a secondary		
source), at least one of which is to be supplied solely for the		
individual's own use, i.e., provide an independent supply of		
breathing gas.		
4 The diver's bail-out is not considered as a primary or		-4 Appendix 1/2.8, IMO
secondary source. The air supply to each diver is to be		Diving Code
arranged such that if one line fails then this does not interfere		
with the supply to another diver.		

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<u>Table 5.12.2-1</u>		rtment mor	itoring
	Compartments	<u> </u>	İ
D	Surface .		
<u>Parameter</u>	chamber (Each	Diving bell	<u>HBSC</u>
	Lock)		
Pressure or diving	<u>X</u>	<u>X</u> (2)	<u>X</u>
depth (1)(2)	_	_	_
Temperature (1)(3)	<u>X</u>	<u>-</u>	<u>X</u>
<u>Humidity</u>	<u>X</u>	<u>-</u>	<u>X</u>
Oxygen partial	<u>X</u>	<u>X</u>	<u>X</u>
pressure (1)(3)			
Carbon dioxide partial	<u>X</u>	<u>X</u>	<u>X</u>
pressure (1)(3) Video Surveillance	X	X	X
Special Environments	<u>A</u>	Δ_	Δ
Contaminants (4)		X	
Notes:	<u> </u>	<u> </u>	<u> </u>
	eters are to be indica	ted continuous	v
	diving depth both in		
indicated.			
	v alarms are to be pro		
	d in project working		
such as H ₂ S	and hydrocarbon cor	ntaminated wor	<u>ksites.</u>
Table 5	.12.2-2 Diver	monitoring	
			eclaim Gas Machinery
Oxygen partial pressure (1)(2)	<u>X</u>	<u>X</u> X	<u>:</u>
partial pressure (1)(2)	= =	=	<u>x</u> =
Carbon Monoxide (1)(2)	<u> </u>	- X	<u>X</u> - X
Notes: (1) These parameters are to be indicated in the indicate of the indicated in the ind	ited continuously.	·	
(2) A high and low alarm is to be fitt			

Amended-Original Requirements Comparison Table (2023 Diving Code)				
	Amended		Original	Remarks
Table 5.12.2-3 Central dive control monitored				
pressurization and breathing gas sources				
pressu		<u> </u>		
Surface Orientated Diving	Primary Source of Gas	Independent Secondary Source of Gas		
One Working Diver	One	One		
Two Working Divers	One per diver	One per two divers		
(Alternative 1)	One per diver	One per two divers		
Two Working Divers (Alternative 2)	One for two divers	One per diver		
Surface Standby Diver	One	One		
Wet Bell Services	(separate from working divers) One	(common with working diver's secondary source) One (can be from onboard gas)		
Saturation Diving	<u>One</u>	One (can be from onboard gas)		
Diving Bell	One (from surface)	One (can be from surface or onboard gas)		
Working Divers	One (from surface)			
Bell Man Oxvgen	One onboard gas or surface One onboard gas	One common with working divers		
OAVECII	One onovare gas	= =		
Figure 5.12 Source	Primary Source of Gas One 2.2-1 Illustration of s Control Panel	Independent Secondary Source of Gas One (this can be a separate source and common pipe to the compartment) Source and supply Supply		
5.14.1 Goa 1 The ava provided is dep of the system. A are to be devis	al (2023 Diving Code ailability of any hyperoneur on the regular A planned maintenant ed with the responsi	e 4.14.1) erbaric evacuation system or testing and maintenance ce and testing programme bility for carrying out the co specific crew members.		-1 Appendix 1/2.9.1, IMO Diving Code
A maintenance and testing schedule are to be available for				

	ements Comparison Table (2023 Diving Code)	I
Amended	Original	Remarks
recording the execution of the tasks and the signatures of the persons allocated the tasks. Such schedules are to be maintained on board and be available for inspection. 2 The Diving organization is to appoint persons who are competent for the purposes of maintaining, testing and certifying diving equipment.		-2 Appendix 1/2.9.2, IMO Diving Code
5.15 Hyperbaric Survival Craft(HBSC) (2023 Diving Code 4.15)		
5.15.2 Functional Criteria (2023 Diving Code 4.15.2 and 4.15.3) 1 Where the HBSC has fuel tanks, these need to be completely full at all times to ensure that it is capable of surviving autonomously for 72 hours. 2 Medical equipment in accordance with DMAC 15 "Medical Equipment to be held at the Site of an Offshore Diving Operation" or similar is to be available to the		-1 Appendix 1/2.10.1, IMO Diving Code -2 Appendix 1/2.10.2, IMO Diving Code
occupants of an HBSC PVHO. (Note) (DMAC15 has been developed by the Diving Medical Advisory Committee (DMAC), which is an independent advisory body comprised of hyperbaric medical physicians supporting the international diving industry.) 3 In determining the degree of stability to be provided for self-righting, consideration is to be given to the adverse effects of large righting moments on the divers. Consideration is also to be given to the effect which equipment and rescue personnel, required to be placed on the top of the system to carry out a recovery from the sea, may have on the stability of the semi-submerged PVHO HBSC.		-3 Appendix 1/2.10.3, IMO Diving Code

Amended Amended	Original	Remarks
	Original	Kelliaiks
Chapter 6 DIVING OPERATIONS AND	(Newly added)	
SAFETY MANAGEMENT		
(2 Diving analyticus from the diving unit (2022		
6.3 Diving operations from the diving unit (2023		
Diving Code 5.3)		
6.3.1 Goal (2023 Diving Code 5.3.1)		
1 The entity which owns the diving unit may or may not		-1 Appendix 1/3.1.1,
be the company which performs the diving operations. Third-		IMO Diving Code
party companies may charter or hire a diving unit temporarily.		
Organizations which may charter a diving unit include diving		
service contractors, marine salvage companies, scientific		
organizations, military, or public/civil service divers.		
Procedures, plans and instructions for diving operations to be		
included in or referenced by the diving platform safety		
management system are to include, but are not be limited to,		
the following (1) to (13):		
(1) personnel familiarization with dive equipment and		
processes;		
(2) equipment preparation checklists;		
(3) pre-dive and post-dive inspections and checklists;		
(4) diver deployment and recovery instructions;		
(5) diver communication and monitoring instructions;		
(6) diver tether/umbilical management instructions;		
(7) diver standard and emergency decompression		
instructions;		
(8) PVHO pressurization and decompression		
instructions;		
(9) life-support/atmosphere monitoring and control		
instructions;		
(10) diving gases management instructions;		
(11) diver health management instructions;		
· · · · · · · · · · · · · · · · · · ·		1

Amended-Original Requirements Comparison Table (2023 Diving Code)				
Amended	Original	Remarks		
 (12) catering, hygiene and cleaning instructions; and (13) instructions for diver interface with ROV, ships tools and equipment. 2 With respect to the items specified in -1 above, it can be addressed through a bridging document between the safety management systems of the diving platform and the diving contractor. 		-2 Appendix 1/3.1.2, IMO Diving Code		
6.3.2 Functional criteria (2023 Diving Code 5.3.2 and 5.3.3) With regard to the integration documentation specified in 6.3.2-2(8) of the Rules, it is to be implemented in accordance with the Revised guidelines for the operational implementation of the International Safety Management (ISM) Code by companies (MSC-MEPC.7/Circ.8).		6.3.2 Footnote 11 of 5.3.3, IMO Diving Code		
6.4 Diving organization's occupational health and safety management system (2023 Diving Code 5.4)				
6.4.1 Goal (2023 Diving Code 5.4.1) 1 When diving operations are performed by a diving organization from a diving unit that is not the owner or operator of the diving platform, the diving organization is to have an occupational health and safety management system which can be aligned with the diving platform's safety management system.		-1 Appendix 1/3.2.1, IMO Diving Code		
2 The occupational health and safety management system specified in -1 above, is to list or include by reference occupational/commercial diving practices and methods which are proven to reduce risks relevant to the diving tasks being carried out by the diving unit.		-2 Appendix 1/3.2.2, IMO Diving Code		
3 The safety management system is to be approved by a		-3 Appendix 1/3.2.3,		

Amended Amended	Original	Remarks
relevant coastal State and/or accredited to, or comply with, a	Original	IMO Diving Code
recognized system, such as ISO 45001.		INTO DIVING CODE
4 Where an Administration does not have a national		-4 Appendix 1/3.2.4,
diving standard, international diving standards available to the		IMO Diving Code
Administration for consideration of diving safe practices		
include, but are not limited to, the following (1) to (3):		
(1) International Marine Contractors Association (IMCA);		
(2) International Association of Oil and Gas Producers		
(IOGP); and		
(3) Association of Diving Contractors International		
(ADCI).		
(ADCI).		
6.4.2 Functional criteria (2023 Diving Code 5.4.2 and		
5.4.3)		6.4.2
The occupational health and safety management		Footnote 12 of Diving
system specified in 6.4.2-2(1) of the Rules is to be approved		Code 5.4.3
by a relevant coastal State and/or accredited to, or comply		
with, a recognized system, such as ISO 45001.		
6.5 Manning and training (2023 Diving Code 5.5)		
6.5.1 Goal (2023 Diving Code 5.5.1)		1 Annondin 1/2 2 1
1 Medical fitness for divers requires periodic evaluation		-1 Appendix 1/3.3.1, IMO Diving Code
and assessment, by medical doctors with training and		INIO Diving Code
experience in diving medicine. Administrations may		
recognize fitness to dive medical exams conducted to a		
national legislation where it exists, or an international		
standard, such as the Diving Medical Advisory Committee		
(DMAC), or the Undersea Hyperbaric and Medical Society		
(UHMS).		-2 Appendix 1/3.3.2,
2 Divers require specialized training in diving physics,		IMO Diving Code

Amended-Original Require	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
physiology, methods of diving and diving equipment. Administrations may recognize training and certification		
intended for occupational and commercial divers which meet		
national legislation requirements where they exist, or an		
international standard, such as those established by IMCA or		
ADCI.		
6.6 Emergency preparedness (2023 Diving Code 5.6)		
6.6.1 Goal (2023 Diving Code 5.6.1)		
1 Procedures for emergencies specified in 6.6 of the		-1 Appendix 1/3.4.1,
Rules are to include, but not be limited to, the following (1) to		IMO Diving Code
(<u>6):</u>		
(1) loss and malfunction of critical diving system		
components; (2) loss of pressure containment and suitable atmosphere		
inside a PVHO;		
(3) recovery of diver(s), diving basket(s) and diving		
bell(s) when operating limitations are exceeded;		
(4) location and recovery of diver(s), diving basket(s) and		
diving bell(s) when lost;		
(5) loss of position and position keeping; and		
(6) diving illness and injury of a diver while in the water		
or inside a PVHO.		
2 Oxygen is to be provided for divers using conventional		-2 Appendix 1/3.4.2
lifeboats during an evacuation who may be injured or have		
decompression illness.		
6.6.2 Functional criteria (2023 Diving Code 5.6.2 and		
5.6.3)		
1 The hyperbaric evacuation planning guidelines		
specified in 6.6.2-2 of the Rules are to be developed with a		-1 Appendix 1/3.5.1,

Amended Amended	Original	Remarks
view to promoting the safety of all divers in saturation and	0	IMO Diving Code
achieving a standard of safety for divers which corresponds,		
so far as is practicable, to that provided for other seagoing		
personnel.		
2 The hyperbaric evacuation planning guidelines		-2 Appendix 1/3.5.2,
specified in -1 above, are to be considered following situation		IMO Diving Code
(1) to (3).		
(1) A potentially hazardous situation can arise if a diving		(1) Appendix 1/3.5.2.1,
unit from which saturation diving operations are		IMO Diving Code
being carried out has to be abandoned with a diving		INIO DIVING Code
team under pressure. While this hazard is to be		
reduced by pre-planning, under extreme conditions		
consideration may have to be given to hyperbaric		
evacuation of the divers. The hyperbaric evacuation		
arrangements is to be studied prior to the		
commencement of the dive operation and suitable		
written contingency plans made.		(2) Appendix 1/3.5.2.2,
(2) Once an HBSC has been launched, the divers and any		IMO Diving Code
support personnel may be in a precarious situation		
where recovery into another facility may not be		
possible and exposure to seasickness and		
accompanying dehydration will present further		
hazards. It is, therefore, necessary that diving		
organizations ensure that any such contingency plans		
include appropriate solutions.		
(3) In preparing the contingency plans, various possible		(3) Appendix 1/3.5.2.3,
emergency situations are to be identified taking into		IMO Diving Code
consideration the geographical area of operation, the		
environmental conditions, the proximity of other		
vessels, and the availability and suitability of any		
onshore or offshore facilities. The facilities for rescue,		
recovery and subsequent medical treatment of divers		2 A 1/2 5 2
evacuated in such circumstances are to be considered		-3 Appendix 1/3.5.3,

<u> </u>	Oniginal	Remarks
Amended	Original	
as part of the contingency plan.		IMO Diving Code
3 The hyperbaric evacuation planning guidelines		
specified in -1 above, are to be considered following items (1)		(1) Appendix 1/3.5.3.1,
<u>to (3).</u>		IMO Diving Code
(1) It is recognized that there are various methods		INTO DIVING Code
available for evacuating divers in an emergency and		
that the suitability of the various options for safe		
hyperbaric evacuation depends on a number of		
factors. The risk associated with divers being inside		
an HBSC increases with exposure to that environment		
and, therefore, the time spent being exposed to this		
risk should be as low as reasonably practicable		
(ALARP).		(2) Appendix 1/3.5.3.2,
(2) The hyperbaric evacuation plan is to allow execution		IMO Diving Code
of the plan such that the divers can reach a place of		
safety (typically a hyperbaric reception facility		
(HRF)) in a time frame which is less than 75% of the		
HBSC survival endurance capability (which typically		
equates to 54 hours). Such planning is to be based on		
the capability of the HBSC, support vessel and		(3) Appendix 1/3.5.3.3,
systems at best speed based on expected mean		IMO Diving Code
weather conditions for the region and the time of year.		
(3) A vessel may be required to provide contingency		
facilities to a diving unit, e.g. carry a standby		
recompression facility on deck for use in the event of		
a hyperbaric evacuation from a diving unit. Due to the		
restricted nature of the recompression facility, only		
relevant sections of this Code will apply to this vessel		
and the recompression facility. See -5 below on		4
Standby diving units.		-4 Appendix 1/3.5.4,
4 The hyperbaric evacuation planning guidelines		IMO Diving Code
specified in -1 above, are to be considered following		(1) Appendix 1/3.5.4.1,
additional items (1) to (5).		IMO Diving Code

	Amended-Original Requirements Comparison Table (2023 Diving Code)					
Amended	Original	Remarks				
(1) As part of every project preparation, it is						
recommended that a meeting take place to agree the						
hyperbaric evacuation requirements. This is to be		(2) Appendix 1/3.5.4.2,				
captured in the risk assessment process.		IMO Diving Code				
(2) The planning for the reception site(s) needs to include						
a consideration of all the assets, resources and						
services that are available. This is to include a suitable						
crane, electrical power supplies, water supplies, food						
supplies for the chamber occupants and human						
effluent management, accommodation and food for						
the life-support team and other personnel. If there are						
suitable personnel available, for example if there is a						
hyperbaric facility or another diving organization in						
the vicinity that has on call life-support personnel,						
they are to be informed of the potential request for						
their help in dealing with an emergency.		(3) Appendix 1/3.5.4.3,				
(3) If the reception site cannot be established at the		IMO Diving Code				
quayside at which the HBSC will arrive, then a						
method of transporting the HBSC to the reception		(4) Appendix 1/3.5.4.4,				
facility is to need to be included in the plan.		IMO Diving Code				
(4) Lifting appliances that will lift an HBSC at sea are to		8				
have a cargo rated capacity at the actual radius of lift						
of not less than 2 times the weight of the loaded HBSC						
and be further derated taking into account following						
(a) to (i):						
(a) weight of the loaded HBSC;						
(b) radius of the lift;						
(c) specific pendant arrangement and hook;						
(d) risk of damage to HBSC from pendant and hook;						
(e) lift speed and HBSC movement;						
(f) static or dynamic lift;						
(g) sea state;						
(h) wind speed; and						

	Amended-Original Requirements Comparison Table (2023 Diving Code)					
Amended	Original	Remarks				
(i) load offset from the vertical.		(5) Appendix 1/3.5.4.5,				
(5) For lifting appliances that will lift the HBSC onshore		IMO Diving Code				
or from a vessel in harbour, the cargo rated capacity						
at the actual radius of lift is not to be less than two						
times the weight of the loaded HBSC (when						
divers/personnel are on board the HBSC).		-5 Appendix 1/3.5.5,				
5 The standby diving units specified in -3(3) above, are		IMO Diving Code				
to be considered following situation (1) to (3).		(1) Appendix 1/3.5.5.1,				
(1) Standby diving units are solely for the purpose of		IMO Diving Code				
rescuing divers from a diving unit. This rescue may		INTO BIVING COME				
be for recovery, transport to or acting as a place of						
safety. It may also be considered as a surface unit for						
submarine escape and rescue activities.						
(2) The plant and equipment that may be required on a		(2) Appendix 1/3.5.5.2,				
standby diving unit varies considerably both in terms		IMO Diving Code				
of operation and type.		(2) A 1/2 5 5 2				
(3) Survey requirements for the following (a) to (d)		(3) Appendix 1/3.5.5.3, IMO Diving Code				
standby diving units are as follows.		(a) Appendix 1/3.5.5.3.1,				
(a) Standby diving units that receive surface		IMO Diving Code				
orientated survivors not involving the use of an						
HBSC is not to require survey in accordance with						
section 6.2 of the Rules. However, the related						
plant and equipment on board are to be surveyed						
in accordance with section 6.3 of the Rules as						
applicable.		(b) Appendix 1/3.5.5.3.2,				
(b) Standby diving units that recover HBSC and/or		IMO Diving Code				
transport them to a place of safety on land are not						
to require survey in accordance with section 6.2						
of the Rules. However, the related plant and						
equipment on board are to be surveyed in						
accordance with section 6.3 of the Rules as						
applicable. Lifting appliances for the recovery of		(c) Appendix 1/3.5.5.3.3,				
an HBSC are to be surveyed after installation.		IMO Diving Code				

	ements Comparison Table (2023 Diving Code)	
Amended	Original	Remarks
(c) Standby diving units that act as a place of safety		
at sea is to be surveyed in accordance with both		
section 6.2 and 6.3 of the Rules as applicable.		
Hyperbaric evacuation arrangements from a		
standby diving unit are to be surveyed only with		
respect to diving operations that may be carried		
out during trials of such units.		(d) Appendix 1/3.5.5.3.4,
(d) Standby diving units that in an emergency		IMO Diving Code
situation use portable equipment to create a		into biving come
standby diving unit (as per (2) or (a) to (c) above)		
do not require a survey to section 6.2 of the Rules		
provided a procedure for mobilization has been		
approved by the certifying authority issuing Part		
II of the DUSC for that equipment.		-6 Appendix 1/3.5.6,
6 The training and evacuation drills are to be considered		IMO Diving Code
following situation (1) to (5).		(1) Appendix 1/3.5.6.1, IMO Diving Code
(1) Periodic training exercises are to be carried out to test		INIO DIVING Code
the operation of the hyperbaric evacuation system and		
the efficiency of the personnel responsible for the		
hyperbaric evacuation of the divers. Such training		
exercises are not to normally be carried out while the		
chambers are pressurized, but are to be carried out at		(2) Appendix 1/3.5.6.2,
each available opportunity.		IMO Diving Code
(2) All safety-critical equipment and procedures are to be		
tested, trialled and periodically drilled. HBSC is to be		
tested on a similar periodicity to the life-saving		(3) Appendix 1/3.5.6.3,
appliances within SOLAS.		IMO Diving Code
(3) In cases where the hyperbaric evacuation system		INTO DIVING COCC
cannot be launched due to the dive system being		
pressurized, an entry is to be recorded in such logbook		
as may be prescribed by the Administration		
explaining why the drill could not be undertaken, and		
the launch is to take place at the first available		

Amended-Original Requirements Comparison Table (2023 Diving Code)			
Amended	Original	Remarks	
opportunity.		(4) Appendix 1/3.5.6.4,	
(4) It is recommended that the crew assigned to launching		IMO Diving Code	
of the hyperbaric evacuation system "walk through"		INO DIVING Code	
the procedures for launch at regular intervals, so that			
they are familiar with the operation of the launching			
<u>system.</u>			
(5) The following (a) to (f) are to be considered, where			
appropriate, in conjunction with a SAR Cooperation		(5) Appendix 1/3.5.6.5,	
plan:		IMO Diving Code	
(a) HBSC recovery;			
(b) connection of support vessel life-support systems			
to HBSC;			
(c) HBSC towing trials with emergency life-support			
umbilical;			
(d) HBSC shore-side recovery;			
(e) HBSC road transport with life-support package			
systems; and			
(f) HBSC mating trials with hyperbaric reception			
facility (HRF).			
7 The additional items of hyperbaric evacuation			
planning are to be confirmed according to the following (1)		-7 Appendix 1/3.5.7,	
and (2).		IMO Diving Code	
(1) IMCA D 052, Guidance on Hyperbaric Evacuation			
Systems; and			
(2) IOGP Report 478, Performance of saturation diving			
emergency hyperbaric evacuation and recovery.			

Amended	Original	Remarks
(Deleted)	Chapter 3 DIVING BELL AND DECK DECOMPRESSION CHAMBER	
	(Omitted)	
(Deleted)	Chapter 5 LIFE SUPPORT SYSTEM	
(Deleted)	(Omitted) Chapter 6 INSTRUMENTS AND	
(COMMUNICATION SYSTEMS	
	(Omitted)	
	· ,	
EFFECTIVE DATE AND APPLICATION		
1. The effective date of the amendments is 27 June 2024.		