Subject

Graphical symbols for Fire Control Plans onboard the Maltese flagged ships

ClassNK

Technical Information

No. TEC-1176
Date 22 February 2019

To whom it may concern

This ClassNK Technical Information is to inform that the Maltese Government has issued Technical Notice SLS.30 Rev.1 as per the attached.

Graphical symbols on Fire Control Plan

1. For ships constructed before 1 January 2004, the graphical symbols used for fire control plans onboard can continue to apply with IMO Resolution A.654(16).
2. For ships constructed on or after 1 January 2004 but before 1 January 2019, the graphical symbols used for fire control plans onboard should be of the same shapes and colour as shown in IMO Resolution A.952(23).
3. For ships constructed on or after 1 January 2019 or existing ships of which fire control plans are revised or updated, the graphical symbols used for fire control plans onboard should be of the same shapes and colour as shown in IMO Resolution A.1116(30) in combination with IMO Resolution A.952(23).

This ClassNK Technical Information supersedes the previous ClassNK Technical Information No. TEC-1144 dated 27 December 2017.

For any questions about the above, please contact:

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Attachment:

1. Technical Notice SLS.30 Rev.1
2. IMO Resolution A.1116(30)

Merchant Shipping Directorate

Transport Malta

FIRE CONTROL PLAN GRAPHICAL SYMBOLS

Technical Notice SLS.30 Rev.1

Notice to Ship-owners, Ship Operators, Managers, Masters,
Owners' Representatives and Recognized Organizations

The purpose of this Notice is to update our previous Technical Notice SLS.30 regarding the use onboard of graphical symbols on Fire Control Plans.

SOLAS consolidated edition 2001 Chapter II-2 Regulation 20 and SOLAS amendments 2000 Chapter II-2 Regulation 24 require the use of Fire Control symbols on Fire Plans in accordance with IMO Resolution A.654 (16).

SOLAS 74, consolidated edition 2004 & 2009, Chapter II-2 Regulation 15.2.4 requires that the graphical symbols used in Fire Control Plans onboard all Maltese registered ships shall be in accordance with the symbols set out in the IMO Resolution A.952 (23).

IMO Resolution A.654 (16) Graphical Symbols for Fire Control Plans, adopted on 19 October 1989, is applicable for ships constructed before 1 January 2004.

Graphical symbols shall be in colour.

Whilst as from 1 January 2004, any Fire Control Plans shall be prepared and show graphic symbols in accordance with the provisions of the updated resolution IMO A.952 (23).

The Fire Control Plans of vessels being keel laid before 1 January 2004 can continue to apply the previous IMO Res. A.654, however should for any reason such plans would have to be reissued or updated, the graphical symbols set out in the latest resolution A.952 (23) would need to be incorporated.

In addition to the above, the Directorate wishes to draw the attention of all concerned to IMO resolution A.1116 (30) Escape Route Signs and Equipment Location Markings.

Recognizing the advantages of using the globally recognized safety symbols, it has been agreed to adopt the safety symbols of ISO 7010 (registered symbols for onshore applications) and ISO 24409-1 (registered symbols for marine applications) as from 1 January 2019.

The IMO resolution A.1116 (30) is to be used in conjunction with the already existing IMO resolution A.952 (23) for new or updated fire control plans.

Merchant Shipping Directorate 24 January 2019

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INTERNATIONAL MARITIME ORGANIZATION

E

ASSEMBLY
30th session
Agenda item 9

A 30/Res.1116
6 December 2017
Original: ENGLISH

Resolution A.1116(30)

Adopted on 5 December 2017
(Agenda item 9)

ESCAPE ROUTE SIGNS AND EQUIPMENT LOCATION MARKINGS

THE ASSEMBLY,

RECALLING Article 15(j) of the Convention on the International Maritime Organization concerning the functions of the Assembly in relation to regulations and guidelines concerning maritime safety and the prevention and control of marine pollution from ships,

BEARING IN MIND the requirements of regulations II-2/15.2.4 (Fire control plans), II-2/13.3.2.5.1 (Marking of escape routes), II-2/13.7 (Additional requirements for ro-ro passenger ships), III/9 (Operating instructions), III/11 (Survival craft muster and embarkation arrangements) and III/20.10 (Marking of stowage locations) of the International Convention for the Safety of Life at Sea (SOLAS), 1974, as amended,

RECALLING resolutions A.760(18) on *Symbols related to life-saving appliances and arrangements,* as amended by resolution MSC.82(70), and A.952(23) on *Graphical symbols for shipboard fire control plans,*

RECOGNIZING the need for uniform international symbols to indicate the location of emergency equipment as well as muster stations and that the Assembly had urged Contracting Governments to ensure that the symbols annexed to the aforementioned Assembly resolutions were used, where appropriate,

HAVING NOTED that, through the *Shipboard escape route signs and emergency equipment location markings* (MSC.1/Circ.1553), Contracting Governments had been invited to bring standard ISO 24409-2:2014, which generally conforms to the corresponding symbols set out in the annex to resolution A.760(18) on *Symbols related to life-saving appliances and arrangements*, as amended, and in the annex to resolution A.952(23) on *Graphical symbols for fire control plans*, to the attention of ship designers, shipbuilders, shipowners, ship operators, ship masters, shore-based firefighting personnel and other parties concerned, so that they might use it, on a voluntary basis, for shipboard signage, in compliance with the relevant requirements of SOLAS chapters II-2 and III, pending the adoption of the revised resolution,

HAVING CONSIDERED the recommendations made by the Maritime Safety Committee, at its ninety-eighth session,

1 ADOPTS the *Escape route signs and equipment location markings*, set out in the annex to the present resolution;

2 URGES Contracting Governments to bring the aforementioned escape route signs and equipment location markings to the attention of shipbuilders, shipowners, ship operators, shipmasters, shore-based firefighting personnel and other parties concerned with the safety of life at sea for their use within the framework of SOLAS chapters II-2 and III;

3 REQUESTS the Maritime Safety Committee to keep this resolution under review and to amend it as necessary;

4 INVITES Contracting Governments to note that these escape route signs and equipment location markings should take effect on ships constructed on or after 1 January 2019 or ships which undergo repairs, alterations, modifications and outfitting within the scope of SOLAS chapters II-2 and/or III, as applicable, on or after 1 January 2019, and that they should be used, as appropriate, in combination with resolution A.952(23) for the preparation of the shipboard fire control plans required by SOLAS regulation II-2/15.2.4.

Annex[1]

ESCAPE ROUTE SIGNS AND EQUIPMENT LOCATION MARKINGS

IMPORTANT – The colours represented in this annex can be neither viewed on screen nor printed as true representations. Although the signs and symbols in this annex have been reproduced to correspond (with an acceptable tolerance as judged by the naked eye) to the requirements of standard ISO 3864-4, it is not intended that the signs and symbols shown in this annex be used for colour matching.

For a definitive version of all safety symbols in this annex, please consult standard ISO 7010 and the ISO Online Browsing Platform (http://www.iso.org/obp/ui/**). For a definitive version of all fire control symbols in this annex, please consult standard ISO 17631. These are the source documents from which to create safety and fire control plans signs.**

1 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3864 (all parts), *Graphical symbols – Safety colours and safety signs*

ISO 7010, *Graphical symbols – Safety colours and safety signs – Registered safety signs*

ISO 17631, *Ships and marine technology – Shipboard plans for fire protection, life-saving appliances and means of escape*

ISO 17724, *Graphical symbols – Vocabulary*

ISO 24409-1, *Ships and marine technology – Design, location, and use of shipboard safety signs, safety-related signs, safety notices and safety markings – Part 1: Design principles*

2 Terms and definitions

For the purposes of this document, the terms and definitions given in standards ISO 17724, ISO 24409-1, and the following apply.

2.1 *Fire control signs*

Signs for specialists, used to identify and locate fire control equipment, not designed according the rules for safety signs.

Note 1 to entry: These signs are related to the symbols in standard ISO 17631; see 3.1 h) below.

[1] This annex is based on the standard ISO 24409-2:2014.

2.2 *Image content*

Written description of the elements of a graphical symbol or safety sign and their relative disposition.

[ISO 17724:2003, 38]

2.3 *Referent*

Idea or object that a graphical symbol is intended to represent.

[ISO 17724: 2003, 61]

2.4 *Safety sign*

Sign giving a general safety message, obtained by a combination of a colour and geometric shape and which, by the addition of a graphical symbol, gives a particular safety message.

3 Categorization of shipboard signs

3.1 *Signs in this standard are categorized according to their function as follows:*

a) **MES** – means of escape signs which provide escape route identification.

b) **EES** – emergency equipment signs which provide use and location of first aid facilities and portable safety equipment.

c) **LSS** – life-saving systems and appliances signs which provide use and location of life-saving systems and appliances.

d) **FES** – fire-fighting equipment signs which provide use and location of fire-fighting equipment.

e) **PSS** – prohibition signs which provide prohibited actions.

f) **WSS** – hazard warning signs which provide identification of hazards to avoid.

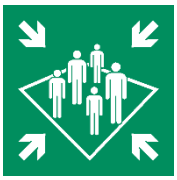
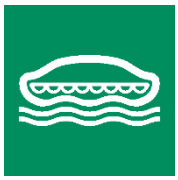
g) **MSS** – mandatory action signs which provide mandatory notices and instructions.

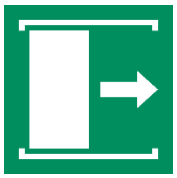
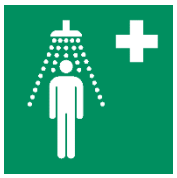
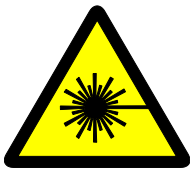
NOTE The PSS, WSS and MSS categories are based on the P, W and M categories of standard ISO 7010.

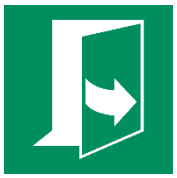
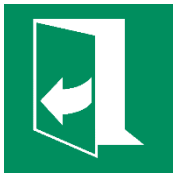
h) **SIS** – safety and operating instructions for trained personnel.

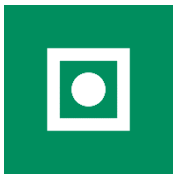
3.2 Table 1 summarizes the standardized shipboard safety signs used in workplaces and public areas in terms of functional category, referent number, referent, graphical symbol as well as geometric shape and colour.

Table 1 — Summary of safety signs for shipboard use

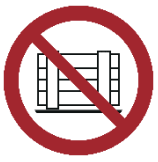
CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
Means of Escape Signs	Emergency Equipment Signs	Lifesaving Signs	Fire-fighting Equipment Signs	Prohibition Signs	Warning Signs	Mandatory Signs
 MES001 (ISO 7010-E032) Shipboard assembly station	 EES001 (ISO 7010-E003) First Aid	 LSS001 (ISO 7010-E036) Lifeboat	 FES001 (ISO 7010-F001) Fire extinguisher	 PSS001 (ISO 7010-P001) General prohibition	 WSS001 (ISO 7010-W001) General warning	 MSS001 (ISO 7010-M001) General Mandatory action
 MES002 (ISO 7010-E001) Emergency exit (left hand)	 EES002 (ISO 7010-E004) Emergency telephone	 LSS002 (ISO 7010-E037) Rescue boat	 FES002 (ISO 7010-F002) Fire hose reel	 PSS002 (ISO 7010-P002) No smoking	 WSS002 (ISO 7010-W002) Warning: Explosive material	 MSS002 (ISO 7010-M002) Refer to instruction manual or booklet
 MES003 (ISO 7010-E002) Emergency exit (right hand)	 EES003 (ISO 7010-E011) Eyewash station	 LSS003 (ISO 7010-E038) Liferaft	 FES003 (ISO 7010-F004) Collection of firefighting equipment	 PSS003 (ISO 7010-P003) No open flame; fire, open ignition source and smoking prohibited	 WSS003 (ISO 7010-W003) Warning: Radioactive material or ionizing radiation	 MSS003 (ISO 7010-M003) Wear ear protection

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
 MES004 (ISO 7010-E033) Door slides right to open	 EES004 (ISO 7010-E012) Safety shower	 LSS004 (ISO 7010-E039) Davit-launched liferaft	 FES004 (ISO 7010-F005) Fire alarm call point	 PSS004 (ISO 7010-P004) No thoroughfare	 WSS004 (ISO 7010-W004) Warning: Laser beam	 MSS004 (ISO 7010-M004) Wear eye protection
 MES005 (ISO 7010-E034) Door slides left to open	 EES005 (ISO 7010-E013) Stretcher	 LSS005 (ISO 7010-E040) Lifebuoy	 FES005 (ISO 7010-F008) Fixed fire extinguishing battery	 PSS005 (ISO 7010-P005) Not drinking water	 WSS005 (ISO 7010-W005) Warning: Non-ionizing radiation	 MSS005 (ISO 7010-M005) Connect an earth terminal to the ground
 MES 006 (ISO 7010-E018) Turn anti-clockwise to open	 EES006 (ISO 7010-E027) Medical grab bag	 LSS006 (ISO 7010-E041) Lifebuoy with line	 FES006 (ISO 7010-F009) Wheeled fire extinguisher	 PSS006 (ISO 7010-P006) No access for fork lift trucks and other industrial vehicles	 WSS006 (ISO 7010-W006) Warning: Magnetic field	 MSS006 (ISO 7010-M006) Disconnect mains plug from electrical outlet

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
 MES007 (ISO 7010-E019) Turn clockwise to open	 EES007 (ISO 7010-E028) Oxygen resuscitator	 LSS007 (ISO 7010-E042) Lifebuoy with light	 FES007 (ISO 7010-F010) Portable foam applicator unit	 PSS007 (ISO 7010-P007) No access for people with active implanted cardiac devices	 WSS007 (ISO 7010-W007) Warning: Floor level obstacle	 MSS007 (ISO 7010-M007) Opaque eye protection must be worn
 MES008 (ISO 7010-E057) Door opens by pulling on left-hand side	 EES008 (ISO 7010-E029) Emergency escape breathing device	 LSS008 (ISO 7010-E043) Lifebuoy with line & light	 FES008 (ISO 7010-F011) Water fog applicator	 PSS008 (ISO 7010-P008) No metallic articles or watches	 WSS008 (ISO 7010-W008) Warning: Drop (fall)	 MSS008 (ISO 7010-M008) Wear safety footwear
 MES009 (ISO 7010-E058) Door opens by pulling on the right-hand side	 EES009 (ISO 7010-E009) Doctor	 LSS008.1 Lifebuoy with light and smoke	 FES009 (ISO 7010-F012) Fixed fire extinguishing installation	 PSS009 (ISO 7010-P010) Do not touch	 WSS009 (ISO 7010-W009) Warning: Biological hazard	 MSS009 (ISO 7010-M009) Wear protective gloves

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
 MES 010 (ISO 7010-E023) Push door on the right-hand side to open	 EES010 (ISO 7010-E010) Automated external heart defibrillator	 LSS009 (ISO 7010-E044) Lifejacket	 FES010 (ISO 7010-F013) Fixed fire extinguishing bottle	 PSS010 (ISO 7010-P011) Do not extinguish with water	 WSS010 (ISO 7010-W010) Warning: Low temperature	 MSS010 (ISO 7010-M010) Wear protective clothing
 MES 011 (ISO 7010-E022) Push door on the left-hand side to open	 EES011 Safety Equipment	 LSS010 (ISO 7010-E045) Child's lifejacket	 FES011 (ISO 7010-F014) Remote release station	 PSS011 (ISO 7010-P013) No activated mobile phones	 WSS011 (ISO 7010-W011) Warning: Slippery surface	 MSS011 (ISO 7010-M011) Wash your hands
	 EES012 (ISO 7010-E031) Shipboard general alarm	 LSS011 (ISO 7010-E046) Infant's lifejacket	 FES012 (ISO 7010-F015) Fire monitor	 PSS012 (ISO 7010-P014) No access for people with metallic implants	 WSS012 (ISO 7010-W012) Warning: Electricity	 MSS012 (ISO 7010-M012) Use handrail
	 EES013 (ISO 7010-E008) Break to obtain access	 LSS012 (ISO 7010-E047) Search and rescue transponder		 PSS013 (ISO 7010-P015) No reaching in	 WSS013 (ISO 7010-W013) Warning: Guard dog	 MSS013 (ISO 7010-M013) Wear a face shield

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
		 LSS013 (ISO 7010-E048) Survival craft distress signal		 PSS014 (ISO 7010-P017) No pushing	 WSS014 (ISO 7010-W014) Warning: Forklift trucks and other industrial vehicles	 MSS014 (ISO 7010-M014) Wear head protection
		 LSS014 (ISO 7010-E049) Rocket parachute flare		 PSS015 (ISO 7010-P018) No sitting	 WSS015 (ISO 7010-W015) Warning: Overhead load	 MSS015 (ISO 7010-M015) Wear high visibility clothing
		 LSS015 (ISO 7010-E050) Line-throwing appliance		 PSS016 (ISO 7010-P019) No stepping on surface	 WSS016 (ISO 7010-W016) Warning: Toxic material	 MSS016 (ISO 7010-M016) Wear a mask
		 LSS016 (ISO 7010-E051) Two-way VHF radio-telephone apparatus		 PSS017 (ISO 7010-P020) Do not use lift in the event of fire	 WSS017 (ISO 7010-W017) Warning: Hot surface	 MSS017 (ISO 7010-M017) Wear respiratory protection

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
		 LSS017 (ISO 7010-E052) Emergency position indicating radio beacon		 PSS018 (ISO 7010-P021) No dogs	 WSS018 (ISO 7010-W018) Warning: Automatic start-up	 MSS018 (ISO 7010-M018) Wear a safety harness
		 LSS018 (ISO 7010-E053) Embarkation ladder		 PSS019 (ISO 7010-P022) No eating or drinking	 WSS019 (ISO 7010-W019) Warning: Crushing	 MSS019 (ISO 7010-M019) Wear a welding mask
		 LSS019 (ISO 7010-E054) Marine evacuation slide		 PSS020 (ISO 7010-P023) Do not obstruct	 WSS020 (ISO 7010-W020) Warning: Overhead obstacle	
		 LSS020 (ISO 7010-E055) Marine evacuation chute		 PSS021 (ISO 7010-P024) Do not walk or stand here		

CATEGORY						
MES	EES	LSS	FES	PSS	WSS	MSS
		 LSS021 (ISO 7010-E056) Survival clothing			 WSS021 (ISO 7010-W021) Warning: Flammable material	
		 LSS022 (ISO 7010-E035) Liferaft Knife			 WSS022 (ISO 7010-W022) Warning: Sharp element	

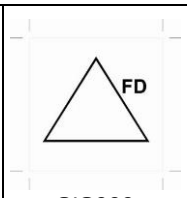
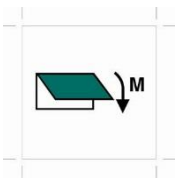
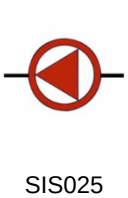
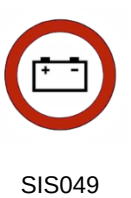
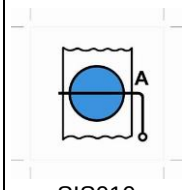
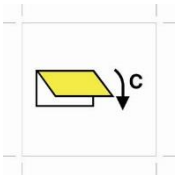
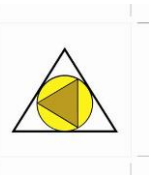
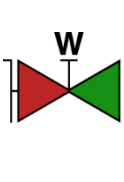
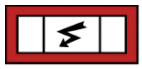
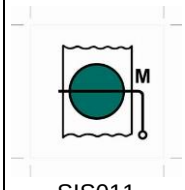
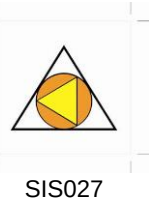
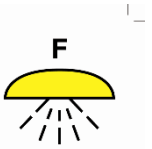
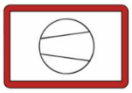
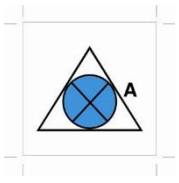
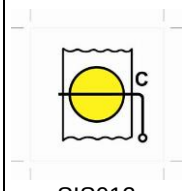
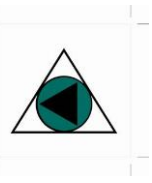
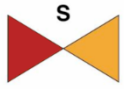
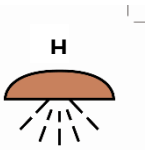
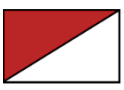
3.3 Signs in table 2 may be displayed together to form a sequence of critical mandatory actions to safely launch a lifeboat, rescue boat, or liferaft.

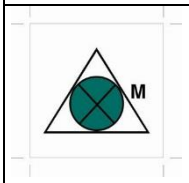
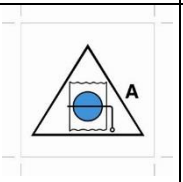
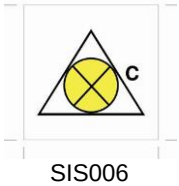
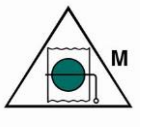
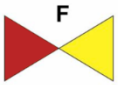
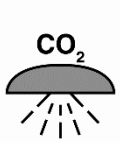
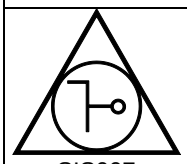
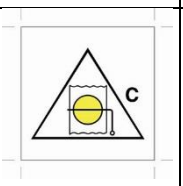
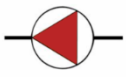
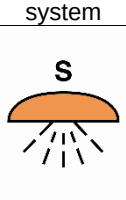
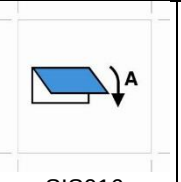
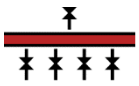
Table 2 — Summary of mandatory action signs for launching lifesaving equipment

 MSS022 (ISO 7010-M020) Fasten safety belts	 MSS023 (ISO 7010-M037) Close and secure hatches in launch sequence	 MSS024 (ISO 7010-M038) Start engine in launch sequence	 MSS025 (ISO 7010-M039) Lower lifeboat to the water in launch sequence	 MSS026 (ISO 7010-M040) Lower liferaft to the water in launch sequence
 MSS027 (ISO 7010- M041) Lower rescue boat to the water in launch sequence	 MSS028 (ISO 7010- M042) Release falls in launch sequence	 MSS029 (ISO 7010- M043) Start water spray in launch sequence	 MSS030 (ISO 7010- M044) Start air supply in launch sequence	 MSS031 (ISO 7010-M045) Release lifeboat gripes in launch sequence

3.4 Table 3 summarizes the SIS catalogue primarily adapted from resolution A.952(23) and standard ISO 17631 with the exception of the SIS signs listed in paragraph 3.1. Table 3 summarizes the standardized shipboard fire control plan signs used in workplaces and public areas to assist trained persons in the operation and management of shipboard fire control systems. The standardized symbols used in these signs are in accordance with the symbols found in the standard ISO 17631.

Table 3 — Summary of shipboard fire control plan signs (SIS) for shipboard use

 SIS001 Fire control plan	 SIS009 Remote control for fire doors	 SIS017 Closing device for ventilation inlet or outlet (machinery spaces)	 SIS025 Emergency fire pump	 SIS033 International shore connection	 SIS041 Inert gas installation	 SIS049 Emergency source of electrical power (battery)
 SIS002 Safety plan	 SIS010 Fire damper (accommodation and service spaces)	 SIS018 Closing device for ventilation inlet or outlet (cargo spaces)	 SIS026 Fuel pump(s) remote shut-off	 SIS034 Fire hydrant	 SIS042 Space or group of spaces protected by a water fire-extinguishing system	 SIS050 Emergency switchboard
 SIS003 Fire and safety plan	 SIS011 Fire damper (machinery spaces)	 SIS019 Remote control for closing device for ventilation inlet and outlet (accommodation and service space)	 SIS027 Lube oil pump(s) remote shut-off	 SIS035 Fire main section valve	 SIS043 Space or group of spaces protected by a foam fire-extinguishing system	 SIS051 Air compressor for breathing devices
 SIS004 Ventilation remote control or shut-off (accommodation and service spaces)	 SIS012 Fire damper (cargo spaces)	 SIS020 Remote control for closing device for ventilation inlet and outlet	 SIS028 Remote control for bilge pump(s)	 SIS036 Sprinkler-section valve	 SIS044 Space or group of spaces protected by a gas other than CO_2 fire-	 SIS052 Control panel for fire detection and alarm system

		(machinery spaces)			extinguishing system	
 SIS005 Ventilation remote control or shut-off (machinery spaces)	 SIS013 Remote control for fire damper (accommodation and service spaces)	 SIS021 Remote control for closing device for ventilation inlet and outlet (cargo spaces)	 SIS029 Remote control for emergency bilge pump	 SIS037 Powder-section valve	 SIS045 Space or group of spaces protected by a powder fire-extinguishing system	
 SIS006 Ventilation remote control or shut-off (cargo spaces)	 SIS014 Remote control for fire damper (machinery spaces)	 SIS022 Remote control for fire pump(s)	 SIS030 Remote control for fuel oil valves	 SIS038 Foam-section valve	 SIS046 Space or group of spaces protected by a CO_2 fire-extinguishing system	
 SIS007 Remote control for skylight	 SIS015 Remote control for fire damper (cargo spaces)	 SIS023 Fire pump(s)	 SIS031 Remote control for lube oil valves	 SIS039 High expansion foam supply trunk (outlet)	 SIS047 Space or group of spaces protected by a sprinkler or high-pressure water fire-extinguishing system	
 SIS008 Remote control for watertight doors	 SIS016 Closing device for ventilation inlet or outlet (accommodation and service spaces)	 SIS024 Remote control for emergency fire pump or fire pump supplied by the emergency source of power	 SIS032 Remote control for fire pump valves	 SIS040 Water spray system valves	 SIS048 Emergency source of electrical power (generator)	