

RESOLUTION MSC.39(63)  
(adopted on 19 May 1994)  
ADOPTION OF AMENDMENTS TO THE CODE ON  
ALARMS AND INDICATORS

ANNEX 23

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ADOPTION OF AMENDMENTS TO THE CODE ON ALARMS AND INDICATORS

THE MARITIME SAFETY COMMITTEE,

RECALLING Article 28(b) of the Convention on the International Maritime Organization concerning the functions of the Committee,

RECALLING ALSO that the Assembly, at its seventeenth session, when adopting resolution A.686(17) on the Code on alarms and indicators, authorized the Committee to amend or extend the Code as may be necessary,

RECOGNIZING the need for extension of the above Code to cover the Code for the Construction and Equipment of Mobile Offshore Drilling Units, 1989 (1989 MODU Code) and the Code of Safety for Diving Systems, with a view to ensuring their uniform application,

HAVING CONSIDERED at its sixty-third session the text of proposed amendments to the Code on alarms and indicators, developed by the Sub-Committee on Ship Design and Equipment,

1. ADOPTS amendments to the Code on alarms and indicators, the text of which is set out in the Annex to the present resolution;
2. RECOMMENDS Governments to take appropriate steps to give effect to the said amendments.

ANNEX

AMENDMENTS TO THE CODE ON ALARMS AND INDICATORS  
TO COVER THE 1989 MODU CODE AND THE CODE  
OF SAFETY FOR DIVING SYSTEMS

- 1 Add a new paragraph 5.6 to section 5 of the Code:

"5.6 On MODUs, where supplemental visual alarms are installed for general emergency alarms, the colour of these supplemental alarms may be amber, provided they flash with a pulse frequency of at least 4 Hz."

- 2 In paragraph 9.1, replace "9.1.8" by "9.1.9".

- 3 In the box containing notes below paragraph 9.2, replace "9.1.8" by "9.1.9".

- 4 Add the following to Table 9.1.1 - Location: navigating bridge

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
S	7.4.1	Propeller pitch indicator	I	Column 2, table 8.1
S	7.4.2.5 8.5.5	Propulsion station in control indication	I	Columns 1&3, table 8.2 II-1/31.2.5* II-1/49.3*
P	7.4.2.7	Propulsion machinery remote control failure	A,V	Column 1, table 8.2 II-1/31.2.7*
P	7.4.2.8	Propeller speed/ direction/pitch	MI	Column 1, table 8.2 II-1/31.2.8*
P	7.4.2.9	Low starting air pressure	A,V	Columns 1&3 table 8.2 II-1/31.2.9*
P	7.5.1.17	Rudder angle indicator	A,V	Column 1, table 8.1 II-1/29.11*
P	7.6.1	Steering gear running	I	Columns 1 & !3, table 8.1 II-1/30.1*
P	7.6.3	Steering gear phase failure/overload alarm	A,V	Column 1, table 8.3 II-1/30.3*

\* Cross reference to SOLAS regulation

Add the following to Table 9.1.1 (continued) - Location: navigating bridge

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
P	8.5.7	Propulsion machinery remote control failure	A,V	Column 1, table 8.2 II-1/31.2.7*
P	8.5.8	Propeller speed/direction/pitch	MI	Column 1, table 8.3 II-1/49.6*
P	8.5.9	Low propulsion starting air pressure	A,V	Column 1, table 8.2 II-1/49.7*
P	8.7.1	Fault requiring attention	A,V	Column 1, table 8.3, including 8.3.5.1, 8.4.1, 8.8.6 and 8.9 II-1/51.1.3*
P	8.7.3	Alarm system normal supply failure	A,V	Column 2, table 8.3 II-1/51.2.2*
P	9.7.1	Fire detection system alarm	A,V	Column 2, table 8.1 II-2/13*
P	9.8	Gas detection and alarm system	A,V	! Column 2, table 8.1

5 Add the following to Table 9.1.2 - Location: machinery space/machinery control room

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
P	4.2.7	Machinery failure pre-alarm	A,V	! Column 3, table 8.1
P	4.5.2	Manual overriding of the automatic control indicator	I	Column 3, table 8.1
S	5.3.12	Emergency battery discharge	I	Column 3, table 8.1 II-1/42.5.3*
S	5.5.7	Electrical distribution system low insulation level	A or I	! Column 3, table 8.1 II-1/45.4.2*

\* Cross reference to SOLAS regulation

Add the following to Table 9.1.2 (continued)  
- Location: machinery space/machinery control room

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
P	7.3.1	Water tube boiler high water level alarm	A,V	Column 3, table 8.1
S	7.4.2.4 8.5.4	Propulsion machinery orders from bridge	I	Column 3, table 8.2 II-1/31.2.4* II-1/49.2*
S	7.4.2.5 8.5.5	Propulsion station in control indication	I	Columns 1&3, table 8.2 II-1/31.2.5* II-1/49.3*
P	7.4.2.9	Low starting air pressure	A,V	Columns 1&3, table 8.2 II-1/31.2.9*
P	7.6.1	Steering gear running	I	Columns 1 & !3, Table 8.1 II-1/30.1*
P	8.3.1	HP fuel oil pipe leakage	A,V	! Column 3, table 8.3 II-2/15.5.1*
P	8.3.3	Fuel heating temperature alarm	A,V	! Column 3, table 8.3 II-2/15.5.3*
P	8.3.6	Fire detection alarm for boiler/propulsion machinery	A,V	! Column 3, table 8.3 II-1/47.1*
P	8.3.7	Internal combustion engine monitors	MI	Column 3, table 8.3 II-1/47.2*
P	8.5.7	Propulsion machinery remote control failure	A,V	Column 3, table 8.2 II-1/49.5*
P	8.7.1	Fault requiring attention	A,V	At a normally manned control station in addition to main machinery control station including 8.3.5.1, 8.4.1, 8.8.6 and 8.9 II-1/51.1*
P	8.8.3	Automatic changeover of propulsion auxiliaries	A,V	Column 3, table 8.3 II-1/53.4.2*

\* Cross reference to SOLAS regulation

- 6 Add the following to Table 9.1.3  
- Location: central fire control station where provided

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
P	9.7.1	Fire detection system alarm	A,V,I	II-2/13*
P	9.8	Gas detection and alarm system	A,V	!

- 7 Add the following to Table 9.1.4  
- Location: at the equipment or at the location being monitored

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
S	3.6.4.2	Watertight doors and hatch cover positions alarm	A,V	
S	4.3.5	Water level of essential boiler	MI	II-1/32.6*
S	4.4.3	Steam pressure	MI	II-1/33.3*
S	4.8.6	Bilge valve indicator	I	II-1/21.2.12*
S	4.9.8	Ballast valve position indicator	I	
S	4.11.11	Cable tension Windlass power Amount of cable paid out	I	

\* Cross reference to SOLAS regulation

Add the following to Table 9.1.4 (continued)  
- Location: at the equipment or at the location being monitored

Priority	IMO Instrument	Function	Type	Notes
	<b>Diving Code</b>			
P	2.5.3	Diving bell internal pressure	MI	! At the location of the attendant monitoring diving operations
P	2.5.5	Diving bell etc. overpressure alarm	A,V	! At the location of the attendant monitoring diving operations
P	2.9.3	Diving equipment fire detection alarm	A,V	! At the location of the attendant monitoring diving operations

8 Add the following to Table 9.1.5 - Location: engineers' accommodation

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
P	7.8	Engineers' alarm	A	Column 4, table 8.3 II-1/38*
P	8.7.1	Fault requiring attention	A	Activate engineers' alarm required by 7.8 including 8.3.5.1, 8.4.1, 8.8.6 and 8.9 II-1/51.1.5*

\* Cross reference to SOLAS regulation



9 Add the following to Table 9.1.6 - Location: miscellaneous

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
S	3.6.2	Watertight boundary valve position indicator	I	At the remote control station
P	4.3.2	Oil-fired boiler low water level, air supply failure or flame failure	A,V	Alarm at an attended location II-1/32.2*
S	4.8.1	Presence of water indicator	I	
S	4.11.12	Cable tension speed and direction of wind	I	At a manned station
S	6.3.1.1.3	Loss of ventilation	A,V	At a manned station
S	6.3.1.2.3	Loss of ventilation	A,V	At a manned station
S	6.3.1.3.3	Loss of ventilation overpressure	A,V	At a manned station
P	8.7.1	Fault requiring attention	A,V	Including 8.3.5.1, 8.4.1, 8.8.6 and 8.9 II-1/51.1*
P	9.7.1	Fire detection system alarm	A,V	At alarm location easily accessible to crew at all times II-2/13.1.6*
EM	9.7.1	Fire detection alarm not receiving attention	A	Alarmed to crew, may be part of general emergency alarm II-2/13.1.4*
P	9.8	Gas detection and alarm system	A,V	! Alarm at a location easily accessible to crew at all times
EM	10.16.1	General emergency alarm	A	Clearly perceptible in all parts of the unit III/6.4.2* III/50*

\* Cross reference to SOLAS regulation



Add the following to Table 9.1.6 (continued) - Location: miscellaneous

Priority	IMO Instrument	Function	Type	Notes
	<b>Diving Code</b>			
P	2.5.2	Compression chamber internal pressure	MI	At central control position
P	2.5.3	Diving bell external pressure	MI	Within the bell
P	2.9.3	Diving equipment fire detection alarm	A,V	! At an attended location other than the above
P	2.11.2	Compression chamber/diving bell parameters	MI	At central control position
P	2.11.3	Diving bell oxygen and CO <sub>2</sub> levels	MI	Within the bell

10 Add the following to Table 9.1.8 - Location: not indicated by IMO instruments

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
S	4.9.15	Draught indicator	MI	! At an attended location ** II-1/8.7.3*

\* Cross reference to SOLAS regulation

11 Add the following new table:

"Table 9.1.9 Location: - central ballast control station of  
column-stabilized MODUs

Priority	IMO Instrument	Function	Type	Notes
	<b>1989 MODU Code</b>			
S	3.6.4.1	Watertight doors and hatch cover position indicator	I,V	
S	3.6.4.2	Watertight doors and hatch covers position alarm	A,V	
S	4.8.8.1	Flooding detector	I	
P	4.8.8.3	Propulsion and pump room bilge high water level alarm	A,V	
S	4.9.10.2	Ballast pump status indicating system	I	For details see also 4.9.12
S	4.9.10.4	Ballast valve position indicating system	I	For details see also 4.9.17
S	4.9.10.5	Tank level indicating system	I	For details see also 4.9.14
S	4.9.10.6	Draught indicating system	I	For details see also 4.9.15
S	4.9.10.7	Heel and trim indicators	I	
S	4.9.10.8	Main and emergency power available indication	I	
S	4.9.10.9	Ballast system hydraulic/pneumatic pressure indicating system	I	
S	4.9.14.1	Ballast tanks liquid level	MI	
S	4.9.14.2	Other tanks liquid level	MI	
S	4.9.17	Ballast valve position	I	!

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