

AMSA REGULATORY CONSULTATION

Draft *Marine Order 27 (Safety of navigation and radio equipment) Amendment Order 2019* is open for consultation until 30 September 2019.

We invite you to make your comments on this draft Marine Order by using the AMSA Maritime Regulation Database at <http://vcbrintra01/MORreview/MarineOrder/ConsultationIndex?viewType=NavigationalActView>

Who does this Order apply to?

This Order applies to regulated Australian vessels and foreign vessels. Marine Order 27 provides information about radio equipment and communications, navigation safety measures and equipment; and danger, urgency and distress signals and messages. The Order gives effect to Chapter IV and elements of Chapter V of SOLAS.

What are the key changes?

The International Maritime Organisation's Maritime Safety Committee, at its 99th session (MSC 99), adopted resolution MSC.436(99), ending Inmarsat's monopoly on the provision of mobile satellite services within the Global Maritime Distress and Safety System (GMDSS). Although Inmarsat is currently the only provider in NAVAREA X, Iridium Communications Inc. has been acknowledged as having met all of the criteria needed to provide services also. It is expected that Iridium GMDSS and Maritime Safety Information (MSI) services will become available with full operating capability within the next three years. Amendments to Chapter IV of SOLAS and consequently, this Marine Order, will replace references to Inmarsat, where appropriate, with 'recognised mobile satellite service' to give effect to MSC.436(99) as of 1 January 2020.

Commencement

It is intended that these amendments are made to the current Order with effect from **1 January 2020**.

The table below compares the current Marine Order 27 (2016) and the draft Marine Order 27 Amendment Order 2019. Changes are highlighted for ease of reference.

Existing text of <i>Marine Order 27 (Safety of navigation and radio equipment) 2016</i>	New text as modified by draft <i>Marine Order 27 (Safety of navigation and radio equipment) Amendment Order 2019</i>	Notes on changes
<p>Division 1 Preliminary</p> <p>1 Name of Order</p> <p>This Order is <i>Marine Order 27 (Safety of navigation and radio equipment) 2016</i>.</p>	<p>Division 1 Preliminary</p> <p>1 Name of Order</p> <p>This Order is <i>Marine Order 27 (Safety of navigation and radio equipment) Amendment Order 2019</i>.</p> <p>2 Commencement</p> <p>This Order commences on 1 January 2020.</p> <p>3 Amendment of Marine Order</p> <p>Schedule 1 amends <i>Marine Order (Safety of navigation and radio equipment) 2016</i>.</p>	
<p>4 Definitions</p> <p>qualified compass adjuster means a person who:</p> <p>(a) has completed an approved training course; or</p> <p>(b) on 30 June 2016 held a compass adjuster licence issued by AMSA under <i>Marine Order 21 (Safety of navigation and emergency procedures) 2012</i>; or</p> <p>(c) has completed training that is considered by AMSA to be equivalent to an approved training course.</p> <p>(2) Any other term that is used in this Order and defined in the Radio Regulations, has the meaning given in those Regulations.</p> <p><i>Note 1</i> Some terms used in this Order are defined in <i>Marine Order 1 (Administration) 2013</i>, including:</p> <ul style="list-style-type: none"> • Australian fishing vessel • IMO • MARPOL • Pollution Prevention Act • SOLAS 	<p>4 Definitions</p> <p>qualified compass adjuster means a person who has completed an approved training course or has completed training that AMSA considers equivalent to an approved training course.</p> <p>recognised mobile satellite service means any service which operates through a satellite system that is for use in the global maritime distress and safety system (GMDSS) and recognised by the IMO.</p> <p>(2) Any other term that is used in this Order and defined in the Radio Regulations, has the meaning given in those Regulations.</p> <p><i>Note 1</i> Some terms used in this Order are defined in <i>Marine Order 1 (Administration) 2013</i>, including:</p> <ul style="list-style-type: none"> • IMO • SOLAS • STCW Code. 	<p>Marine Order 21 no longer prescribes for compass adjuster licences, so the reference to MO21 has been removed from the definition.</p> <p>New definition, in accordance with IMO resolution MSC.436(99) which ended Inmarsat's monopoly on the provision of mobile satellite services in the GMDSS.</p> <p>Terms not referenced in this Order have been removed.</p>

<ul style="list-style-type: none"> • STCW Code. <p>Note 2 Other terms used in this Order are defined in the Navigation Act, including:</p> <ul style="list-style-type: none"> • AMSA • GT • inspector • owner • Prevention of Collisions Convention • recognised organisation • regulated Australian vessel • STCW Convention • Tonnage Convention. 	<p>Note 2 Other terms used in this Order are defined in the Navigation Act, including:</p> <ul style="list-style-type: none"> • AMSA • GT • inspector • owner • Prevention of Collisions Convention • regulated Australian vessel • STCW Convention 	
<p>26 Specific requirements</p> <p>(3) MF/HF radiotelephone equipment and VHF equipment must:</p> <p>(a) meet the performance standards mentioned in Regulation 14 of Chapter IV of SOLAS that apply to them; and</p> <p>(b) be capable of operating on:</p> <p>(i) the frequencies mentioned in Schedule 4 that apply to them; and</p> <p>(ii) any other frequency that is appropriate to the service in which the vessel is engaged.</p> <p>(4) MF/HF radiotelephone equipment and VHF equipment must meet the climatic and durability testing standards mentioned in IEC 60945:2002 <i>Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results</i>.</p>	<p>26 Specific requirements</p> <p>(3) MF/HF radiotelephone equipment, VHF equipment and satellite communications equipment must:</p> <p>(a) meet the performance standards mentioned in Regulation 14 of Chapter IV of SOLAS that apply to them; and</p> <p>(b) be capable of operating on:</p> <p>(i) the frequencies mentioned in Schedule 4 that apply to them; and</p> <p>(ii) any other frequency that is appropriate to the service in which the vessel is engaged.</p> <p>(4) MF/HF radiotelephone equipment and VHF equipment must meet the climatic and durability testing standards mentioned in IEC 60945:2002 <i>Maritime navigation and radiocommunication equipment and systems – General requirements – Methods of testing and required test results</i> as amended from time to time.</p>	<p>Division 3 (26)(3)(b) refers to the operating frequencies applicable to MF/HF and VHF radio equipment, but omits satellite communications equipment, although Inmarsat frequencies appear in the table at Schedule 4.</p> <p>Reference to satellite communications equipment has been added in the body of the Order.</p> <p>Text added to provide for revisions of the IEC Standard.</p>
<p>28 Safety signals and danger messages</p> <p>(1) For subparagraph 187(1)(b)(i) of the Navigation Act:</p>	<p>28 Safety signals and danger messages</p> <p>(1) For subparagraph 187(1)(b)(i) of the Navigation Act:</p> <p>(a) the safety signal is the word 'securite' (pronounced</p>	

<p>(a) the safety signal is the word 'securite' (pronounced 'say-cure-e-tay') spoken 3 times; and</p> <p>(b) the danger message must include the information mentioned in Regulations 31 and 32 of Chapter V of SOLAS.</p> <p><i>Note</i> For paragraph (a), the sending of a safety signal will normally be preceded by a DSC safety announcement, or Inmarsat EGC message with safety priority.</p> <p>(2) For subparagraph 187(1)(b)(ii) of the Navigation Act, the report to shore must be made to:</p> <p>(a) for a vessel in NAVAREA X — the Rescue Coordination Centre Australia; or</p> <p>(b) for a vessel outside NAVAREA X — the Coordinator for the NAVAREA the vessel is in.</p> <p><i>Note</i> The telephone number of the Rescue Coordination Centre Australia is 1800 641 792 and the fax number is 1800 622 153.</p>	<p>'say-cure-e-tay') spoken 3 times; and</p> <p>(b) the danger message must include the information mentioned in Regulations 31 and 32 of Chapter V of SOLAS.</p> <p><i>Note</i> For paragraph (a), the sending of a safety signal will normally be preceded by a DSC safety announcement, or an EGC message with safety priority.</p> <p>(2) For subparagraph 187(1)(b)(ii) of the Navigation Act, the report to shore must be made to:</p> <p>(a) for a vessel in NAVAREA X — the Joint Rescue Coordination Centre Australia; or</p> <p>(b) for a vessel outside NAVAREA X — the Coordinator for the NAVAREA the vessel is in.</p> <p><i>Note</i> The telephone number of the Joint Rescue Coordination Centre (JRCC) Australia is 1800 641 792 and the fax number is 1800 622 153.</p>	<p>Consequential amendment to the <i>Note</i> as a result of IMO Resolution MSC.436(99), replacing references to Inmarsat where appropriate.</p> <p>Update from RCC to JRCC.</p>
<p>33 Urgency signal</p> <p>(1) The urgency signal is the words 'pan pan'.</p> <p><i>Note</i> The sending of an urgency signal is normally preceded by a DSC urgency announcement or Inmarsat EGC message with safety priority.</p>	<p>33 Urgency signal</p> <p>(1) The urgency signal is the words 'pan pan'.</p> <p><i>Note</i> The sending of an urgency signal is normally preceded by a DSC urgency announcement or an EGC message with safety priority.</p>	<p>Consequential amendment to the <i>Note</i> as a result of IMO Resolution MSC.436(99), replacing references to Inmarsat where appropriate.</p>
<p>36 Signal of distress</p> <p>The signal of distress is the spoken word 'mayday'.</p> <p><i>Note</i> The sending of a distress signal will normally be preceded by a DSC alert or Inmarsat EGC with distress priority. See also the signals mentioned in Annex IV in the Schedule to the Prevention of Collisions Convention.</p> <p>40 Duties on activation of a distress watch receiver</p> <p>(1) When the distress frequency watch receiver or Inmarsat EGC receiver distress alarm on a vessel is activated, the person in charge of the vessel radio station, if it is safe, must commence watch on the</p>	<p>36 Distress signal</p> <p>The distress signal is the spoken word 'mayday'.</p> <p><i>Note</i> The sending of a distress signal will normally be preceded by a DSC alert or an EGC with distress priority. See also the signals mentioned in Annex IV in the Schedule to the Prevention of Collisions Convention.</p> <p>40 Duties on activation of a distress watch receiver</p> <p>(1) When the distress frequency watch receiver or EGC receiver distress alarm on a vessel is activated, the person in charge of</p>	<p>Heading and subject matter re-worded for consistency.</p> <p>Consequential amendment to the <i>Note</i> as a result of IMO Resolution MSC.436(99), replacing references to Inmarsat where appropriate.</p>

<p>distress frequency or other frequency specified by the urgency or distress message.</p> <p>Penalty: 50 penalty units.</p>	<p>the vessel radio station, if it is safe, must commence watch on the distress frequency or other frequency specified by the urgency or distress message.</p> <p>Penalty: 50 penalty units.</p>	<p>Consequential amendment as a result of IMO Resolution MSC.436(99), replacing references to Inmarsat where appropriate.</p>
<p>43 Misuse of distress and safety signals</p> <p>(2) A person may use a flare, rocket or shell, that could be mistaken for a prescribed signal of distress coming from a vessel, only if:</p> <p>(a) the person or another person is in distress; or</p> <p>(b) both:</p> <p>(i) the person has notified the RCC using the approved form, and at least 24 hours before the proposed time of use of the flare, rocket or shell, of:</p> <p>(A) the intended use of the flare, rocket or shell; and</p> <p>(B) the proposed time for the intended use; and</p> <p>(ii) the person has not received any objection from the RCC to the intended use.</p> <p>Penalty: 50 penalty units.</p> <p><i>Note 1</i> The approved form is available from the AMSA website at http://www.amsa.gov.au. Notification to the RCC may be by email: rccaus@amsa.gov.au or fax: 1800 622 153.</p> <p><i>Note 2</i> The person may also need to comply with State or Territory requirements for the use of flares.</p>	<p>43 Misuse of distress and safety signals</p> <p>(2) A person may use a flare, rocket or shell, that could be mistaken for a prescribed signal of distress coming from a vessel, only if:</p> <p>(a) the person or another person is in distress; or</p> <p>(b) both:</p> <p>(i) the person has notified the JRCC using the approved form, and at least 24 hours before the proposed time of use of the flare, rocket or shell, of:</p> <p>(A) the intended use of the flare, rocket or shell; and</p> <p>(B) the proposed time for the intended use; and</p> <p>(ii) the person has not received any objection from the RCC to the intended use.</p> <p>Penalty: 50 penalty units.</p> <p><i>Note 1</i> The approved form is available from the AMSA website at http://www.amsa.gov.au. Notification to the JRCC may be by email: rccaus@amsa.gov.au or fax: 1800 622 153.</p> <p><i>Note 2</i> The person may also need to comply with State or Territory requirements for the use of flares.</p>	<p>Update from RCC to JRCC.</p>
<p>Schedule 2 IMO resolutions</p> <p><i>Note</i> Information on obtaining copies of the IMO Resolutions mentioned in this schedule, and any amendments made to them, is available in the related information on the Marine Orders link on the AMSA website at http://www.amsa.gov.au.</p>	<p>Schedule 2 IMO resolutions</p> <p><i>Note</i> Information on obtaining copies of the IMO Resolutions mentioned in this schedule, and any amendments made to them, is available in the related information on the Marine Orders link on the AMSA website at http://www.amsa.gov.au.</p>	<p>Schedule is reformatted and updated to include amending resolutions.</p>

IMO Resolution Number	IMO Resolution title	
A.694(17)	<i>General requirements for shipborne radio equipment forming part of the global maritime distress and safety systems (GMDSS) and for electronic navigational aids</i>	
MSC.434(98)	<i>Performance standards for a ship earth station for use in the GMDSS.</i>	
A.807(19)	<i>Performance standards for INMARSAT-C ship earth stations capable of transmitting and receiving direct-printing communications</i>	
A.808(19)	<i>Performance standards for ship earth stations capable of two-way communication</i>	
MSC.306(87)	<i>Revised performance standards for enhanced group call (EGC) equipment</i>	
A.382(X), Annex II	<i>Recommendation on performance standards for magnetic compasses</i>	
A.424(XI)	<i>Performance standards for gyro-compasses</i>	
MSC.86(70), Annex 2	<i>Recommendation on performance standards for marine transmitting magnetic heading devices (TMHDs)</i>	
	<i>Note A TMHD installed after 31 December 1999 and before 1 July 2002 must conform to performance standards not inferior to those set out in MSC.86(70), Annex 2.</i>	
MSC.116(73)	<i>Performance standards for transmitting heading devices (THDs).</i>	
	<i>Note A THD installed after 30 June 2002 must conform to performance standards not inferior to those set out in MSC.116(73) Annex.</i>	
MSC.64(67), Annex 4	<i>Recommendation on performance standards for radar equipment</i>	
MSC.192(79)	<i>Adoption of the revised performance standards for radar equipment</i>	

IMO Resolution Number	IMO Resolution title		Note This resolution applies to equipment installed after 30 June 2008.
A.694(17)	<i>General requirements for shipborne radio equipment forming part of the global maritime distress and safety systems (GMDSS) and for electronic navigational aids</i>	A.823(19)	<i>Recommendation on performance standards for automatic radar plotting aids (ARPAs)</i>
A.807(19)	<i>Performance standards for INMARSAT-C ship earth stations capable of transmitting and receiving direct-printing communications</i>	A.817(19)	<i>Performance standards for electronic chart display and information systems (ECDIS)</i> Note This resolution applies to equipment installed after 30 December 1995 and before 1 January 2009.
A.808(19)	<i>Performance standards for ship earth stations capable of two-way communication</i>	MSC.232(82)	<i>Adoption of the revised performance standards for electronic chart display and information systems (ECDIS)</i> Note This resolution applies to equipment installed after 30 December 2008.
MSC.306(87)	<i>Revised performance standards for enhanced group call (EGC) equipment</i>	A.816(19)	<i>Performance standards for shipborne Decca navigator receivers</i>
A.382(X), Annex II	<i>Recommendation on performance standards for magnetic compasses</i>	A.818(19)	<i>Performance standards for shipborne Loran-C and Chayka receivers</i>
A.424(XI)	<i>Performance standards for gyro-compasses</i>	A.819(19)	<i>Performance standards for shipborne global positioning system (GPS) receiver equipment</i>
MSC.86(70), Annex 2	<i>Recommendation on performance standards for marine transmitting magnetic heading devices (TMHDs)</i> Note A TMHD installed after 31 December 1999 and before 1 July 2002 must conform to performance standards not inferior to those set out in MSC.86(70), Annex 2.	MSC.112(73)	<i>Adoption of the revised performance standards for shipborne global positioning system (GPS) receiver equipment.</i> Note This resolution applies if GPS receiver equipment was installed after 30 June 2003.
MSC.116(73)	<i>Performance standards for transmitting heading devices (THDs).</i> Note A THD installed after 30 June 2002 must conform to performance standards not inferior to those set out in MSC.116(73) Annex.	MSC.53(66)	<i>Performance standards for shipborne GLONASS receiver equipment</i> Note This resolution applies if GPS receiver equipment was installed before 1 July 2003.
MSC.64(67), Annex 4	<i>Recommendation on performance standards for radar equipment</i>	MSC.113(73)	<i>Adoption of the revised performance standards for shipborne GLONASS receiver equipment.</i> Note This resolution applies if GLONASS receiver equipment was installed after 30 June 2003.
MSC.192(79)	<i>Adoption of the revised performance standards for radar equipment</i> Note This resolution applies to equipment installed after 30 June 2008.		

A.823(19)	<i>Recommendation on performance standards for automatic radar plotting aids (ARPAs)</i>	MSC.64(67), Annex 2	<i>Recommendation on performance standards for shipborne DGPS and DGLONASS maritime radio beacon receiver equipment</i>
A.817(19)	<i>Performance standards for electronic chart display and information systems (ECDIS)</i> <i>Note</i> This resolution applies to equipment installed after 30 December 1995 and before 1 January 2009.		<i>Note 1</i> A shipborne DGPS and DGLONASS installed on or after 1 July 2003, must conform to performance standards not inferior to those mentioned in MSC.114(73), Annex. <i>Note 2</i> A shipborne DGPS and DGLONASS installed after 31 December 1998 and before 1 July 2003, must conform to performance standards not inferior to those mentioned in the Annex to MSC.64(67), Annex 2.
MSC.232(82)	<i>Adoption of the revised performance standards for electronic chart display and information systems (ECDIS)</i> <i>Note</i> This resolution applies to equipment installed after 30 December 2008.	MSC.74(69), Annex I	<i>Recommendation on performance standards for shipborne combined GPS/GLONASS receiver equipment</i>
A.816(19)	<i>Performance standards for shipborne Decca navigator receivers</i>		<i>Note</i> MSC.74(69), Annex I applies to a GPS/GLONASS receiver installed before 30 June 2003.
A.818(19)	<i>Performance standards for shipborne Loran-C and Chayka receivers</i>		
A.819(19)	<i>Performance standards for shipborne global positioning system (GPS) receiver equipment</i> <i>Note</i> This resolution applies if GPS receiver equipment was installed before 1 July 2003.	MSC.115(73)	<i>Adoption of the revised performance standards for shipborne combined GPS/GLONASS receiver equipment</i> <i>Note</i> MSC.115(73) applies to a GPS/GLONASS receiver installed after 30 June 2003.
MSC.53(66)	<i>Performance standards for shipborne GLONASS receiver equipment</i> <i>Note</i> This resolution applies if GPS receiver equipment was installed after 30 June 2003.	MSC.233(82)	<i>Adoption of the performance standards for shipborne Galileo receiver equipment</i> <i>Note</i> MSC.233(82) applies to a Galileo receiver installed after 31 December 2008.
MSC.64(67), Annex 2	<i>Recommendation on performance standards for shipborne DGPS and DGLONASS maritime radio beacon receiver equipment</i> <i>Note 1</i> A shipborne DGPS and DGLONASS installed on or after 1 July 2003, must conform to performance standards not inferior to those mentioned in MSC.114(73), Annex. <i>Note 2</i> A shipborne DGPS and DGLONASS installed after 31 December 1998 and before 1 July 2003, must conform to performance standards not inferior to those mentioned in the Annex to MSC.64(67), Annex 2.	MSC.379(93) MSC.401(95) MSC.64(67), Annex 3 MSC.74(69), Annex 2	<i>Performance standards for Shipborne Beidou Satellite Navigation System (BDS) receiver equipment</i> <i>Performance standards for multi-system shipborne radio navigation receivers</i> <i>Recommendation on performance standards for heading control systems</i> <i>Note</i> A heading control system installed after 31 December 1998 must conform to performance standards not inferior to those mentioned in MSC.64(67), Annex 3. <i>Recommendation on performance standards for track control systems</i>

MSC.74(69), Annex I	<p><i>Recommendation on performance standards for shipborne combined GPS/GLONASS receiver equipment</i></p> <p><i>Note</i> MSC.74(69), Annex I applies to a GPS/GLONASS receiver installed before 30 June 2003.</p>		<p><i>Note</i> A track control system installed after 31 December 1999 must conform to performance standards not inferior to those mentioned in MSC.74(69), Annex 2.</p>	
MSC.115(73)	<p><i>Adoption of the revised performance standards for shipborne combined GPS/GLONASS receiver equipment</i></p> <p><i>Note</i> MSC.115(73) applies to a GPS/GLONASS receiver installed after 30 June 2003.</p>	A.526(13)	<p><i>Performance standards for rate-of-turn indicators</i></p>	
MSC.233(82)	<p><i>Adoption of the performance standards for shipborne Galileo receiver equipment</i></p> <p><i>Note</i> MSC.233(82) applies to a Galileo receiver installed after 31 December 2008.</p>	A.224(VII)	<p><i>Performance standards for echo sounding equipment</i></p>	
MSC.379(93)	<p><i>Performance standards for Shipborne Beidou Satellite Navigation System (BDS) receiver equipment</i></p>	A.824(19)	<p><i>Performance standards for devices to indicate speed and distance</i></p>	
MSC.401(95)	<p><i>Performance standards for multi-system shipborne radio navigation receivers</i></p>	<p><i>Note 1</i> A device to measure and indicate speed and distance installed after 30 June 2002, must conform to performance standards not inferior to those mentioned in MSC.96(72), Annex.</p> <p><i>Note 2</i> A device to indicate speed and distance installed after 31 December 1996 and before 1 July 2002 must conform at least to the performance standards mentioned in A.824(19).</p> <p><i>Note 3</i> MSC.334(90) applies to equipment installed after 1 July 2014.</p>	<p><i>Note 1</i> A device to measure and indicate speed and distance installed after 30 June 2002, must conform to performance standards not inferior to those mentioned in MSC.96(72), Annex.</p>	
MSC.64(67), Annex 3	<p><i>Recommendation on performance standards for heading control systems</i></p> <p><i>Note</i> A heading control system installed after 31 December 1998 must conform to performance standards not inferior to those mentioned in MSC.64(67), Annex 3.</p>		MSC.74(69), Annex 3	<p><i>Recommendation on performance standards for an universal shipborne automatic identification system (AIS)</i></p>
MSC.74(69), Annex 2	<p><i>Recommendation on performance standards for track control systems</i></p> <p><i>Note</i> A track control system installed after 31 December 1999 must conform to performance standards not inferior to those mentioned in MSC.74(69), Annex 2.</p>	MSC.263(84)	<p><i>Revised performance standards and functional requirements for the long range identification and tracking of ships (LRIT)</i></p>	<p><i>Note 3</i> MSC.334(90) applies to equipment installed after 1 July 2014.</p>
A.526(13)	<p><i>Performance standards for rate-of-turn indicators</i></p>	A.861(20)	<p><i>Performance standards for shipborne voyage data recorders (VDRs)</i></p>	
A.224(VII)	<p><i>Performance standards for echo sounding equipment</i></p>	<p><i>Note 1</i> A VDR fitted before 1 June 2008, must conform to performance standards not inferior to those mentioned in A.861(20), Annex.</p> <p><i>Note 2</i> A VDR fitted after 31 May 2008, must also conform to the amendments to performance standards not inferior to those mentioned in MSC.214(81), Annex I.</p>	<p><i>Note 1</i> A VDR fitted before 1 June 2008, must conform to performance standards not inferior to those mentioned in A.861(20), Annex.</p>	
				<p><i>Note 2</i> A VDR fitted after 31 May 2008, must also conform to the amendments to performance standards not inferior to those mentioned in MSC.214(81), Annex I.</p>

<p>A.824(19)</p>	<p><i>Performance standards for devices to indicate speed and distance</i></p> <p><i>Note 1</i> A device to measure and indicate speed and distance installed after 30 June 2002, must conform to performance standards not inferior to those mentioned in MSC.96(72), Annex.</p> <p><i>Note 2</i> A device to indicate speed and distance installed after 31 December 1996 and before 1 July 2002 must conform at least to the performance standards mentioned in A.824(19).</p> <p><i>Note 3</i> MSC.334(90) applies to equipment installed after 1 July 2014.</p>	<p>MSC.163(78)</p>	<p><i>Performance standards for shipborne simplified voyage data recorders (S-VDRs)</i></p> <p><i>Note 1</i> A S-VDR fitted before 1 June 2008 must conform to performance standards not inferior to those mentioned in MSC.163(78), Annex.</p> <p><i>Note 2</i> A S-VDR fitted after 31 May 2008, must also conform to the amendments to performance standards not inferior to those mentioned in MSC.214(81), Annex 2.</p>	
<p>MSC.74(69), Annex 3</p>	<p><i>Recommendation on performance standards for an universal shipborne automatic identification system (AIS)</i></p> <p><i>Note</i> AIS installed after 31 December 1999 must conform to performance standards not inferior to those mentioned in MSC.74(69), Annex 3.</p>	<p>MSC.363(92)</p> <p>MSC.333(90)</p>	<p><i>Performance standards for electronic inclinometers</i></p> <p><i>Adoption of revised performance standards for shipborne voyage data recorders (VDRs)</i></p> <p><i>Note</i> MSC.333(90) applies to equipment installed after 1 July 2014.</p>	
<p>MSC.263(84)</p>	<p><i>Revised performance standards and functional requirements for the long range identification and tracking of ships (LRIT)</i></p>	<p>A.575(14)</p>	<p><i>Unification of performance standards for navigational equipment</i></p>	
<p>A.861(20)</p>	<p><i>Performance standards for shipborne voyage data recorders (VDRs)</i></p> <p><i>Note 1</i> A VDR fitted before 1 June 2008, must conform to performance standards not inferior to those mentioned in A.861(20), Annex.</p> <p><i>Note 2</i> A VDR fitted after 31 May 2008, must also conform to the amendments to performance standards not inferior to those mentioned in MSC.214(81), Annex 1.</p>	<p>MSC.64(67), Annex I</p>	<p><i>Recommendation on performance standards for integrated bridge systems (IBS)</i></p> <p><i>Note</i> An IBS fitted after 31 December 1998 must conform to performance standards not inferior to those mentioned in MSC.64(67), Annex I.</p>	
<p>MSC.163(78)</p>	<p><i>Performance standards for shipborne simplified voyage data recorders (S-VDRs)</i></p> <p><i>Note 1</i> A S-VDR fitted before 1 June 2008 must conform to performance standards not inferior to those mentioned in MSC.163(78), Annex.</p> <p><i>Note 2</i> A S-VDR fitted after 31 May 2008, must also conform to the amendments to performance standards not inferior to those mentioned in MSC.214(81), Annex 2.</p>	<p>MSC.86(70), Annex 3</p> <p>MSC.252(83)</p>	<p><i>Recommendation on performance standards for an integrated navigation system (INS)</i></p> <p><i>Note</i> An INS installed after 31 December 1999 must conform to performance standards not inferior to those mentioned in MSC.86(70), Annex 3.</p> <p><i>Adoption of the revised performance standards for integrated navigation systems (INS)</i></p> <p><i>Note</i> An INS installed after 31 December 2010 must conform to performance standards mentioned in MSC.252(83).</p> <p><i>Note 2</i> Regulation 18 of Chapter V of SOLAS requires type approved navigation systems that conform to appropriate performance standards.</p>	

MSC.363(92)	<i>Performance standards for electronic inclinometers</i>	MSC.452(99)	<i>Revised performance standards for integrated navigation systems (INS) (Resolution MSC.252(83)).</i>	
MSC.333(90)	<i>Adoption of revised performance standards for shipborne voyage data recorders (VDRs)</i> <i>Note MSC.333(90) applies to equipment installed after 1 July 2014.</i>	MSC.128(75)	<i>Performance standards for a bridge navigational watch alarm system (BNWAS)</i> <i>Note A BNWAS installed after 30 June 2003 must conform to performance standards not inferior to those mentioned in MSC.128(75), Annex.</i>	
A.575(14)	<i>Unification of performance standards for navigational equipment</i>	A.343(IX)	<i>Recommendation on methods of measuring noise levels at listening posts</i>	
MSC.64(67), Annex I	<i>Recommendation on performance standards for integrated bridge systems (IBS)</i> <i>Note An IBS fitted after 31 December 1998 must conform to performance standards not inferior to those mentioned in MSC.64(67), Annex I.</i>	MSC.86(70), Annex I	<i>Recommendation on performance standards for sound reception systems</i>	
MSC.86(70), Annex 3	<i>Recommendation on performance standards for an integrated navigation system (INS)</i> <i>Note An INS installed after 31 December 1999 must conform to performance standards not inferior to those mentioned in MSC.86(70), Annex 3.</i>	MSC.95(72)	<i>Performance standards for daylight signalling lamps</i>	
MSC.252(83)	<i>Adoption of the revised performance standards for integrated navigation systems (INS)</i> <i>Note An INS installed after 31 December 2010 must conform to performance standards mentioned in MSC.252(83).</i>			
MSC.128(75)	<i>Performance standards for a bridge navigational watch alarm system (BNWAS)</i> <i>Note A BNWAS installed after 30 June 2003 must conform to performance standards not inferior to those mentioned in MSC.128(75), Annex.</i>			
A.343(IX)	<i>Recommendation on methods of measuring noise levels at listening posts</i>			
MSC.86(70), Annex I	<i>Recommendation on performance standards for sound reception systems</i>			

<p>MSC.95(72) <i>Performance standards for daylight signalling lamps</i></p>		
<p>Schedule 3 GMDSS equipment for vessels to which Chapter IV of SOLAS does not apply</p> <p>1 Australian coastal voyages (sea area A3):</p> <p>Example A</p> <p>(a) A VHF radio installation with DSC capability; and</p> <p>(b) A DSC watchkeeping receiver for VHF channel 70 which may be separate or combined with the VHF radio installation mentioned in paragraph (a); and</p> <p>(c) A MF radio installation with DSC capability; and</p> <p>(d) A MF DSC watchkeeping receiver capable of maintaining a continuous DSC watch on 2187.5 kHz which may be separate or combined with the MF radio installation above; and</p> <p>(e) An INMARSAT ship earth station capable of:</p> <ul style="list-style-type: none"> (i) transmitting and receiving distress and safety communications using data-communications; (ii) initiating and receiving distress priority calls; (iii) transmitting and receiving general radio communications, using either radiotelephony or data communication; (iv) receiving Maritime Safety Information (MSI) using enhanced group calling; and <p>(f) A 406 MHz EPIRB; and</p> <p>(g) Hand held VHF radiotelephone apparatus fitted with VHF channels 6, 13, 16 and 67; and</p> <p>(h) 9 GHz radar transponder(s) or an AIS-SART, unless AMSA considers this unnecessary given the nature of the vessel's operations.</p> <p><i>Note</i> Specifications and performance standards of radio and communication equipment must be in accordance with Chapter IV of SOLAS.</p> <p><i>Note for paragraph (e)</i> Data communication includes direct-printing telegraphy.</p>	<p>Schedule 3 GMDSS equipment for vessels to which Chapter IV of SOLAS does not apply</p> <p>1 Australian coastal voyages (sea area A3):</p> <p>Example A</p> <p>(a) A VHF radio installation with DSC capability; and</p> <p>(b) A DSC watchkeeping receiver for VHF channel 70 which may be separate or combined with the VHF radio installation mentioned in paragraph (a); and</p> <p>(c) A MF radio installation with DSC capability; and</p> <p>(d) A MF DSC watchkeeping receiver capable of maintaining a continuous DSC watch on 2187.5 kHz which may be separate or combined with the MF radio installation above; and</p> <p>(e) A ship earth station for a recognised mobile satellite service capable of:</p> <ul style="list-style-type: none"> (i) transmitting and receiving distress and safety communications using data-communications; (ii) initiating and receiving distress priority calls; (iii) transmitting and receiving general radio communications, using either radiotelephony or data communication; (iv) receiving Maritime Safety Information (MSI) using enhanced group calling; and <p>(f) A 406 MHz EPIRB; and</p> <p>(g) Hand held VHF radiotelephone apparatus fitted with VHF channels 6, 13, 16 and 67; and</p> <p>(h) 9 GHz radar transponder(s) or an AIS-SART, unless AMSA considers this unnecessary given the nature of the vessel's operations.</p>	<p>Consequential amendment as a result of IMO Resolution MSC.436(99), replacing references to Inmarsat where appropriate.</p>

<p>Example B</p> <p>(a) A VHF radio installation with DSC capability; and</p> <p>(b) A DSC watchkeeping receiver for VHF channel 70 which may be separate or combined with the VHF radio installation mentioned in paragraph (a); and</p> <p>(c) A MF/HF radio installation with DSC capability; and</p> <p>(d) A MF/HF DSC watchkeeping receiver capable of maintaining a continuous DSC watch on 2187.5 kHz, 8414.5 and at least one of the distress and safety frequencies 4207.5, 6312, 12577 or 16804.5 kHz, and allowing, at any time, the selection of any of any of these distress and safety frequencies. This equipment may be combined with or separate from the MF/HF radio installation mentioned in paragraph (c); and</p> <p>(e) An INMARSAT ship earth station capable of receiving Maritime Safety Information (MSI) using enhanced group calling; and</p> <p>(f) A 406 MHz EPIRB; and</p> <p>(g) Hand held VHF radiotelephone apparatus fitted with VHF channels 6, 13, 16 and 67; and</p> <p>(h) 9 GHz radar transponder(s) or an AIS-SART, unless AMSA considers this unnecessary given the nature of the vessel's operations.</p> <p><i>Note for paragraphs (g) and (h) in Examples 1 and 2</i> Radar transponders and hand held VHF radiotelephone units are also required to be carried on a vessel for <i>Marine Order 25 (Equipment — lifesaving) 2014</i>. AMSA will take account of the requirements of that Order when considering the number of radar transponders and hand held VHF radiotelephone units required to meet the functional requirements of subsection 25(2).</p>	<p><i>Note</i> Specifications and performance standards of radio and communication equipment must be in accordance with Chapter IV of SOLAS.</p> <p><i>Note for paragraph (e)</i> Data communication includes direct-printing telegraphy.</p> <p>Example B</p> <p>(a) A VHF radio installation with DSC capability; and</p> <p>(b) A DSC watchkeeping receiver for VHF channel 70 which may be separate or combined with the VHF radio installation mentioned in paragraph (a); and</p> <p>(c) A MF/HF radio installation with DSC capability; and</p> <p>(d) A MF/HF DSC watchkeeping receiver capable of maintaining a continuous DSC watch on 2187.5 kHz, 8414.5 and at least one of the distress and safety frequencies 4207.5, 6312, 12577 or 16804.5 kHz, and allowing, at any time, the selection of any of any of these distress and safety frequencies. This equipment may be combined with or separate from the MF/HF radio installation mentioned in paragraph (c); and</p> <p>(e) a ship earth station for a recognised mobile satellite service capable of receiving Maritime Safety Information (MSI) using enhanced group calling; and</p> <p>(f) A 406 MHz EPIRB; and</p> <p>(g) Hand held VHF radiotelephone apparatus fitted with VHF channels 6, 13, 16 and 67; and</p> <p>(h) 9 GHz radar transponder(s) or an AIS-SART, unless AMSA considers this unnecessary given the nature of the vessel's operations.</p> <p><i>Note for paragraphs (g) and (h) in Examples 1 and 2</i> Radar transponders and hand held VHF radiotelephone units are also required to be carried on a vessel for <i>Marine Order 25 (Equipment — lifesaving) 2014</i>. AMSA will take account of the requirements of that Order when considering the number of radar transponders and hand held VHF radiotelephone units required to meet the functional requirements of subsection 25(2).</p>	

Schedule 4 Station frequencies for GMDSS communications

A — Distress and Safety

Vessel Transmit Frequency	Vessel Receive Frequency	Remarks
A.1 Radiotelephone frequencies		
2182 kHz	2182 kHz	
4125 kHz	4125 kHz	
6215 kHz	6215 kHz	
8291 kHz	8291 kHz	
12290 kHz	12290 kHz	
16420 kHz	16420 kHz	
156.800 MHz	156.800 MHz	VHF marine channel 16
156.375 MHz	156.375 MHz	VHF marine channel 67 – supplementary distress for Australia only
A.2 Digital Selective Calling (DSC) frequencies		
2187.5 kHz	2187.5 kHz	
4207.5 kHz	4207.5 kHz	
6312.0 kHz	6312.0 kHz	
8414.5 kHz	8414.5 kHz	
12577.0 kHz	12577.0 kHz	
16804.5 kHz	16804.5 kHz	
156.525 MHz	156.525 MHz	VHF marine channel 70

Schedule 4 Station frequencies for GMDSS communications

A — Distress and Safety

Vessel Transmit Frequency	Vessel Receive Frequency	Remarks
A.1 Radiotelephone frequencies		
2182 kHz	2182 kHz	The IMO no longer recommends that 2182 kHz be monitored by international sea going vessels for distress and safety. In Australia, coast stations do not continuously monitor 2182 kHz.
4125 kHz	4125 kHz	
6215 kHz	6215 kHz	
8291 kHz	8291 kHz	
12290 kHz	12290 kHz	
16420 kHz	16420 kHz	
156.800 MHz	156.800 MHz	VHF marine channel 16
156.375 MHz	156.375 MHz	VHF marine channel 67 – supplementary distress for Australia only
A.2 Digital Selective Calling (DSC) frequencies		
2187.5 kHz	2187.5 kHz	
4207.5 kHz	4207.5 kHz	
6312.0 kHz	6312.0 kHz	
8414.5 kHz	8414.5 kHz	
12577.0 kHz	12577.0 kHz	
16804.5 kHz	16804.5 kHz	
156.525 MHz	156.525 MHz	VHF marine channel 70

A.3 Narrow Band Direct Printing Telegraphy (NBDP) frequencies		
2174.5 kHz	2174.5 kHz	
4177.5 kHz	4177.5 kHz	
6268.0 kHz	6268.0 kHz	
8376.5 kHz	8376.5 kHz	
Vessel Transmit Frequency	Vessel Receive Frequency	Remarks
12520.0 kHz	12520.0 kHz	
16695.0 kHz	16695.0 kHz	
A.4 Air-Sea SAR communications Radiotelephone		
4125.0 kHz	4125.0 kHz	First preference
3023.0 kHz	3023.0 kHz	Second preference
5680.0 kHz	5680.0 kHz	Third preference
156.300MHz	156.300 MHz	VHF marine channel 6
A.5 Inter-ship Navigation and Safety Communications		
156.650 MHz	156.650 MHz	VHF marine channel 13
A.6 INMARSAT		
1626.5-1660.5 MHz	1525 – 1559 MHz	

B – Maritime Safety Information		
Vessel Transmit Frequency	Vessel Receive Frequency	Remarks
B.1 HF Narrow Band Direct Printing Telegraphy (NBDP) frequencies		
	4210.0 kHz	

A.3 Narrow Band Direct Printing Telegraphy (NBDP) frequencies		
2174.5 kHz	2174.5 kHz	
4177.5 kHz	4177.5 kHz	
6268.0 kHz	6268.0 kHz	
8376.5 kHz	8376.5 kHz	
Vessel Transmit Frequency	Vessel Receive Frequency	Remarks
12520.0 kHz	12520.0 kHz	
16695.0 kHz	16695.0 kHz	
A.4 Air-Sea SAR communications Radiotelephone		
4125.0 kHz	4125.0 kHz	First preference
3023.0 kHz	3023.0 kHz	Second preference
5680.0 kHz	5680.0 kHz	Third preference
156.300MHz	156.300 MHz	VHF marine channel 6
A.5 Inter-ship Navigation and Safety Communications		
156.650 MHz	156.650 MHz	VHF marine channel 13
A.6 INMARSAT		
1626.5-1645.5 MHz	1530 - 1544 MHz	

B – Maritime Safety Information		
Vessel Transmit Frequency	Vessel Receive Frequency	Remarks
B.1 HF Narrow Band Direct Printing Telegraphy (NBDP) frequencies (not used in Australia)		
	4210.0 kHz	
	6314.0 kHz	

Inmarsat L-band frequency range for GMDSS corrected

Note added to advise that HF NDBP is not provided by Australian coast stations.

<p>6314.0 kHz 8416.5 kHz 12579.0 kHz 16806.5 kHz</p> <p>B.2 NAVTEX (not used in Australia)</p> <p>518.0 kHz 490.0 kHz 4209.5 kHz</p> <p>B.3 INMARSAT</p> <p>1626.5 – 1660.5 MHz 1525 – 1559 MHz</p> <hr/>	<p>8416.5 kHz 12579.0 kHz 16806.5 kHz</p> <p>B.2 NAVTEX (not used in Australia)</p> <p>518.0 kHz 490.0 kHz 4209.5 kHz</p> <p>B.3 INMARSAT</p> <p>1626.5 – 1645.5 MHz 1530 - 1544 MHz</p> <hr/>	<p>Inmarsat L-band frequency range for GMDSS corrected</p>
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