Appendix B

(1) Following is an amalgamation of the International (72 COLREGS) and Inland Navigation Rules, their Annexes, and associated Federal rules and regulations.

(2) Text unique to Inland Rules is *italicized* and set apart in a text box or within « double angle brackets ». International Rules are set apart in a text box or denoted with « single angle brackets ».

(3) Text within {curly brackets} denotes additions made by the U.S. Coast Guard Office of Navigation Systems.

(4) Disparate paragraph or section numbering are shown side by side separated by a dagger, i.e. (a)(b).

(5) Instances of “...§§83.xx / in / with / of ...” this section / subpart / part of this Rule, etc.” are redacted, and herein are shown as the enumerated rule(s) they referred to, i.e. 72 COLREGS Rule 18(e) states: "...with the Rules of this Part" and the same Inland Rule states: "...with the Rules of this Subpart (Rules 4-19) (§§83.04 through 83.19)", but, herein it is stated as "...with Rules 4-19.

(6) Instances of paragraph / section (x) are redacted, and herein are shown as §(x).

(7) Rules denoted with an asterisk also have an associated implementing or interpretative rule (i.e. 33 CFR 81-90), which can be found in chapter 2.

Part A—General

Rule 1—Application

<table>
<thead>
<tr>
<th>Rule 1—Application</th>
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<tbody>
<tr>
<td><strong>International</strong></td>
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<tr>
<td>(a) These Rules shall apply to all vessels upon the high seas and in all waters connected therewith navigable by seagoing vessels.</td>
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<tr>
<td>(b) Nothing in these Rules shall interfere with the operation of special rules made by an appropriate authority for roadsteads, harbors, rivers, lakes, or inland waterways connected with the high seas and navigable by seagoing vessels. Such special rules shall conform as closely as possible to these Rules.</td>
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<tr>
<td>(c) Nothing in these Rules shall interfere with the operation of any special rules made by the Government of any State with respect to additional station or signal lights and shapes or whistle signals for ships of war and vessels proceeding under convoy, or with respect to additional station or signal lights or shapes for fishing vessels engaged in fishing as a fleet. These additional station or signal lights and shapes or whistle signals shall, so far as possible, be such that they cannot be mistaken for any light, shape or signal authorized elsewhere under these Rules. Notice of such special rules shall be published in the Federal Register and, after the effective date specified in such notice, they shall have effect as if they were a part of these Rules.</td>
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<td><strong>Inland</strong></td>
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<td>(a) These rules apply to all vessels upon the inland waters of the United States, and to vessels of the United States on the Canadian waters of the Great Lakes to the extent that there is no conflict with Canadian law. These Rules have preemptive effect over State or local regulation within the same field.</td>
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<td>(b)(i) These rules constitute special rules made by an appropriate authority within the meaning of Rule 1(b) of the International Regulations for Preventing Collisions at Sea, 1972, including annexes currently in force for the United States (&quot;International Regulations&quot;).</td>
</tr>
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<td>(ii) All vessels complying with the construction and equipment requirements of the International Regulations are considered to be in compliance with these Rules.</td>
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**Rule 1—Application**

(f) The Secretary may accept a certificate of alternative compliance issued by a contracting party to the International Regulations if it determines that the alternative compliance standards of the contracting party are substantially the same as those of the United States.

(g) The operator of each self-propelled vessel 12 meters or more in length shall carry, on board and maintain for ready reference, a copy of these Rules.

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**Rule 2—Responsibility**

(a) Nothing in these Rules shall exonerate any vessel, or the owner, master, or crew thereof, from the consequences of any neglect to comply with these Rules or of the neglect of any precaution which may be required by the ordinary practice of seamen, or by the special circumstances of the case.

(b) In construing and complying with these Rules due regard shall be had to all dangers of navigation and collision and to any special circumstances, including the limitations of the vessels involved, which may make a departure from these Rules necessary to avoid immediate danger.

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**Rule 3—General Definitions**

For the purpose of these Rules, except where the context otherwise requires:

(a) The word “vessel” includes every description of watercraft, including non-displacement craft, WIG craft, and seaplanes, used or capable of being used as a means of transportation on water.

(b) The term “power-driven vessel” means any vessel propelled by machinery.

(c) The term “sailing vessel” means any vessel under sail provided that propelling machinery, if fitted, is not being used.

(d) The term “vessel engaged in fishing” means any vessel fishing with nets, lines, trawls, or other fishing apparatus which restrict maneuverability, but does not include a vessel fishing with trolling lines or other fishing apparatus which do not restrict maneuverability.

(e) The term “seaplane” includes any aircraft designed to maneuver on the water.

(f) The term “vessel not under command” means a vessel which through some exceptional circumstance is unable to maneuver as required by these Rules and is therefore unable to keep out of the way of another vessel.

(g) The term “vessel restricted in her ability to maneuver” means a vessel which from the nature of her work is restricted in her ability to maneuver as required by these Rules and is therefore unable to keep out of the way of another vessel. The term “vessels restricted in their ability to maneuver” shall include but not be limited to: (i) A vessel engaged in laying, servicing, or picking up a navigational mark, submarine cable or pipeline; (ii) A vessel engaged in dredging, surveying or underwater operations; (iii) A vessel engaged in replenishment or transferring persons, provisions or cargo while underway; (iv) A vessel engaged in the launching or recovery of aircraft; (v) A vessel engaged in mine clearance operations; (vi) A vessel engaged in a towing operation such as severely restricts the towing vessel and her tow in their ability to deviate from their course.

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**Rule 3h (International)**

(b) The term “vessel constrained by her draft” means a power-driven vessel which because of her draft in relation to the available depth and width of navigable water is severely restricted in her ability to deviate from the course she is following.

(i) The word “underway” means that a vessel is not at anchor, or made fast to the shore, or aground.

(j) The words “length” and “breadth” of a vessel mean her length overall and greatest breadth.

(k) Vessels shall be deemed to be in sight of one another only when one can be observed visually from the other.

(l) The term “restricted visibility” means any condition in which visibility is restricted by fog, mist, falling snow, heavy rainstorms, sandstorms, or any other similar causes.

(m) The term “Wing-In-Ground (WIG)” craft means a multimodal craft which, in its main operational mode, flies in close proximity to the surface by utilizing surface-effect action.

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**Rules 3n–3q (Inland)**

(n) “Western Rivers” means the Mississippi River, its tributaries, South Pass, and Southwest Pass, to the navigational demarcation lines {30 CFR 80} dividing the high seas from harbors, rivers and other inland waters of the United States, and the Port Allen-Morgan City Alternate Route, and that part of the Atchafalaya River above its junction with the Port Allen-Morgan City Alternate Route including the Old River and the Red River.

(o) “Great Lakes” means the Great Lakes and their connecting tributary waters including the Calumet River as far as the Thomas J. O’Brien Lock and Controlling Waters (between mile 326 and 327), the Chicago River as far as the east side of the Ashland Avenue Bridge (between mile 321 and 322), and the Saint Lawrence River as far east as the lower exit of Saint Lambert Lock.

(p) “Secretary” means the Secretary of the Department in which the Coast Guard is operating.

(q) “Inland Waters” means the navigable waters of the United States shoreward of the navigational demarcation lines {30 CFR 80} dividing the high seas from harbors, rivers and other inland waters of the United States and the waters of the Great Lakes on the United States side of the International Boundary.
Part B—Steering and Sailing Rules

I—Conduct of Vessels in Any Condition of Visibility

Rule 4—Application

Rules 4 through 10 apply to any condition of visibility.

Rule 5—Lookout

Every vessel shall at all times maintain a proper look-out by sight and hearing as well as by all available means appropriate in the prevailing circumstances and conditions so as to make a full appraisal of the situation and of the risk of collision.

Rule 6—Safe Speed

Every vessel shall at all times proceed at a safe speed so that she can take proper and effective action to avoid collision and be stopped within a distance appropriate to the prevailing circumstances and conditions. In determining a safe speed the following factors shall be among those taken into account:

(a) By all vessels:
   (i) The state of visibility; (ii) The traffic density including concentrations of fishing vessels or any other vessels; (iii) The maneuverability of the vessel with special reference to stopping distance and turning ability in the prevailing conditions; (iv) At night, the presence of background light such as from shore lights or from back scatter from her own lights; (v) The state of wind, sea and current, and the proximity of navigational hazards; (vi) The draft in relation to the available depth of water.

(b) Additionally, by vessels with operational radar:
   (i) The characteristics, efficiency and limitations of the radar equipment; (ii) Any constraints imposed by the radar range scale in use; (iii) The effect on radar detection of the sea state, weather and other sources of interference; (iv) The possibility that small vessels, ice and other floating objects may not be detected by radar at an adequate range; (v) The number, location and movement of vessels detected by radar; (vi) The more exact assessment of the visibility that may be possible when radar is used to determine the range of vessels or other objects in the vicinity.

Rule 7—Risk of Collision

(a) Every vessel shall use all available means appropriate to the prevailing circumstances and conditions to determine if risk of collision exists. If there is any doubt such risk shall be deemed to exist.

(b) Proper use shall be made of radar equipment if fitted and operational, including long-range scanning to obtain early warning of risk of collision and radar plotting or equivalent systematic observation of detected objects.

(c) Assumptions shall not be made on the basis of scanty information, especially scanty radar information.

(d) In determining if risk of collision exists the following considerations shall be among those taken into account:

(i) Such risk shall be deemed to exist if the compass bearing of an approaching vessel does not appreciably change.

(ii) Such risk may sometimes exist even when an appreciable bearing change is evident, particularly when approaching a very large vessel or a tow or when approaching a vessel at close range.
Rule 9—Narrow Channels

(a) ‹(i)› A vessel proceeding along the course of a narrow channel or fairway shall keep as near to the outer limit of the channel or fairway which lies on her starboard side as is safe and practicable.

(b) A vessel of less than 20 meters in length or a sailing vessel shall not impede the passage of a vessel which ‹(that)› can safely navigate only within a narrow channel or fairway.

(c) A vessel engaged in fishing shall not impede the passage of any other vessel navigating within a narrow channel or fairway.

(d) A vessel ‹ shall › not cross a narrow channel or fairway if such crossing impedes the passage of a vessel which can safely navigate only within that channel or fairway. The latter vessel ‹ may › use the signal prescribed in Rule 34(d) if in doubt as to the intention of the crossing vessel.

Rule 9a (Inland)

(ii) Notwithstanding Rule 9(a)(i) and Rule 14(a), a power-driven vessel operating in narrow channel or fairway on the Great Lakes, Western Rivers, or waters specified by the Secretary, and proceeding downbound with a following current shall have the right-of-way over an upbound vessel, shall propose the manner and place of passage, and shall initiate the maneuvering signals prescribed by Rule 34(a)(i), as appropriate. The vessel proceeding upbound against the current shall hold as necessary to permit safe passing.

(e) A vessel, other than a crossing vessel or a vessel engaged in fishing, shall not impede the safe passage of a vessel following a traffic lane.

(f) A vessel not using a traffic separating scheme or cross a separation line except:

(i) In cases of emergency to avoid immediate danger;

(ii) To engage in fishing within a separation zone.

(g) Any vessel shall, if the circumstances of the case admit, avoid anchoring in a narrow channel.

Rule 10—Traffic Separation Schemes

(a) This Rule applies to traffic separation schemes adopted by the Organization and does not relieve any vessel of her obligation under any other rule.

(b) A vessel using a traffic separation scheme shall:

(i) Proceed in the appropriate traffic lane in the general direction of traffic flow.

(ii) So far as is practicable keep clear of a traffic separation line or separation zone.

(iii) Normally join or leave a traffic lane at the termination of the lane, but when joining or leaving from either side shall do so at as small an angle to the general direction of traffic flow as practicable.

(c) A vessel, shall so far as practicable, avoid crossing traffic lanes but if obliged to do so shall cross on a heading as nearly as practicable at right angles to the general direction of traffic flow.

(d)(i) A vessel shall not use an inshore traffic zone when she can safely use the appropriate traffic lane within the adjacent traffic separation scheme. However, vessels of less than 20 meters in length, sailing vessels and vessels engaged in fishing may use the inshore traffic zone.

(ii) Notwithstanding Rule 10(d)(i), a vessel may use an inshore traffic zone when en route to or from a port, offshore installation or structure, pilot station or any other place situated within the inshore traffic zone, or to avoid immediate danger.

(e) A vessel, other than a crossing vessel or a vessel joining or leaving a lane shall not normally enter a separation zone or cross a separation line except:

(i) In cases of emergency to avoid immediate danger;

(ii) To engage in fishing within a separation zone.

(f) A vessel navigating in areas near the terminations of traffic separation schemes shall do so with particular caution.

(g) A vessel shall so far as practicable avoid anchoring in a traffic separation scheme or in areas near its terminations.

(h) A vessel not using a traffic separating scheme shall avoid it by as wide a margin as is practicable.

(i) A vessel engaged in fishing shall not impede the passage of any vessel following a traffic lane.

(j) A vessel of less than 20 meters in length or a sailing vessel shall not impede the safe passage of a power-driven vessel following a traffic lane.

(k) A vessel restricted in her ability to maneuver when engaged in an operation for the maintenance of safety of navigation in a traffic separation scheme is exempted from complying with this Rule to the extent necessary to carry out the operation.
(86) (I) A vessel restricted in her ability to maneuver when engaged in an operation for the laying, servicing or picking up of a submarine cable, within a traffic separation scheme, is exempted from complying with this Rule to the extent necessary to carry out the operation.

II—Conduct of Vessels in Sight of One Another

Rule 11—Application
(89) Rules 11 through 18 apply to vessels in sight of one another.

Rule 12—Sailing Vessels
(91) (a) When two sailing vessels are approaching one another, so as to involve risk of collision, one of them shall keep out of the way of the other as follows:

(i) when each has the wind on a different side, the vessel which has the wind on the port side shall keep out of the way of the other;

(ii) when both have the wind on the same side, the vessel which has the wind on the port side shall keep out of the way of the other;

(iii) if a vessel with the wind on the port side sees a vessel to windward and cannot determine with certainty whether the other vessel has the wind on the port or on the starboard side, she shall keep out of the way of the other.

(b) For the purposes of this Rule, the windward side shall be deemed to be the side opposite that on which the mainsail is carried or, in the case of a square-rigged vessel, the side opposite to that on which the largest fore-and-aft sail is carried.

Rule 13—Overtaking
(97) (a) Notwithstanding anything contained in the Rules 4 through 18, any vessel overtaking any other shall keep out of the way of the vessel being overtaken.

(b) A vessel shall be deemed to be overtaking when coming up with another vessel from a direction more than 22.5 degrees abaft her beam, that is, in such a position with reference to the vessel she is overtaking, that at night she would be able to see only the sternlight of that vessel but neither of her sidelights.

(c) When a vessel is in any doubt as to whether she is overtaking another, she shall assume that this is the case and act accordingly.

(d) Any subsequent alteration of the bearing between the two vessels shall not make the overtaking vessel a crossing vessel within the meaning of these Rules or relieve her of the duty of keeping clear of the overtaken vessel until she is finally past and clear.

Rule 14—Head-on Situation
(102) (a) Unless otherwise agreed, when two power-driven vessels are meeting on reciprocal or nearly reciprocal courses so as to involve risk of collision each shall alter her course to starboard so that each shall pass on the port side of the other.

(b) Such a situation shall be deemed to exist when a vessel sees the other ahead or nearly ahead and by night she could see the masthead lights of the other in line or nearly in a line and/or both sidelights and by day she observes the corresponding aspect of the other vessel.

(c) When a vessel is in any doubt as to whether such a situation exists she shall assume that it does exist and act accordingly.

Rule 14d (Inland)
(d) Notwithstanding Rule 14(a), a power-driven vessel operating on the Great Lakes, Western Rivers, or waters specified by the Secretary, and proceeding downbound with a following current shall have the right-of-way over an upbound vessel, shall propose the manner of passage, and shall initiate the maneuvering signals prescribed by Rule 34(a)(i), as appropriate.

Rule 15—Crossing Situation
(106) (a) When two power-driven vessels are crossing so as to involve risk of collision, the vessel which has the other on her own starboard side shall keep out of the way and shall, if the circumstances of the case admit, avoid crossing ahead of the other vessel.

Rule 15b (Inland)
(b) Notwithstanding Rule 15(a), on the Great Lakes, Western Rivers, or water specified by the Secretary, a power-driven vessel crossing a river shall keep out of the way of a power-driven vessel ascending or descending the river.

Rule 16—Action by Give-way Vessel
(110) Every vessel which is directed to keep out of the way of another vessel shall, so far as possible, take early and substantial action to keep well clear.

Rule 17—Action by Stand-on Vessel
(a)(i) Where one of two vessels is to keep out of the way, the other shall keep her course and speed.

(ii) The latter vessel may, however, take action to avoid collision by her maneuver alone, as soon as it becomes apparent to her that the vessel required to keep out of the way is not taking appropriate action in compliance with these Rules.

(b) When, from any cause, the vessel required to keep her course and speed finds herself so close that collision cannot be avoided by the action of the give-way vessel alone, she shall take such action as will best aid to avoid collision.

(c) A power-driven vessel which takes action in a crossing situation in accordance with Rule 17(a)(ii) to avoid collision with another power-driven vessel shall,
if the circumstances of the case admit, not alter course to port for a vessel on her own port side.

(d) This Rule does not relieve the give-way vessel of her obligation to keep out of the way.

Rule 18—Responsibilities Between Vessels

Exception where Rules 9, 10, and 13 otherwise require:

(a) A power-driven vessel underway shall keep out of the way of: (i) a vessel not under command; (ii) a vessel restricted in her ability to maneuver; (iii) a vessel engaged in fishing; (iv) a sailing vessel.

(b) A sailing vessel underway shall keep out of the way of: (i) a vessel not under command; (ii) a vessel restricted in her ability to maneuver; (iii) a vessel engaged in fishing.

(c) A vessel engaged in fishing when underway shall, so far as possible, keep out of the way of: (i) a vessel not under command; (ii) a vessel restricted in her ability to maneuver.

Rule 18d (International)

(d)(i) Any vessel other than a vessel not under command or a vessel restricted in her ability to maneuver shall, if the circumstances of the case admit, avoid impeding the safe passage of a vessel constrained by her draft, exhibiting the signals in Rule 28.

(ii) A vessel constrained by her draft shall navigate with particular caution having full regard to her special condition.

(e) A seaplane on the water shall, in general, keep well clear of all vessels and avoid impeding their navigation. In circumstances, however, where risk of collision exists, she shall comply with Rules 4 through 19.

(f)(i) A WIG craft shall, when taking off, landing and in flight near the surface, keep well clear of all other vessels and avoid impeding their navigation;

(ii) A WIG craft operating on the water surface shall comply with Rules 4 through 19 as a power-driven vessel.

III—Conduct of Vessels in Restricted Visibility

Rule 19—Conduct of Vessels in Restricted Visibility

(a) This Rule applies to vessels not in sight of one another when navigating in or near an area of restricted visibility.

(b) Every vessel shall proceed at a safe speed adapted to the prevailing circumstances and conditions of restricted visibility. A power-driven vessel shall have her engines ready for immediate maneuver.

(c) Every vessel shall have due regard to the prevailing circumstances and conditions of restricted visibility when complying with Rules 4 through 10.

(d) A vessel which detects by radar alone the presence of another vessel shall determine if a close-quarters situation is developing and/or risk of collision exists. If so, she shall take avoiding action in ample time, provided that when such action consists of an alteration in course, so far as possible the following shall be avoided:

(i) An alteration of course to port for a vessel forward of the beam, other than for a vessel being overtaken;

(ii) An alteration of course toward a vessel abeam or abaft the beam.

(e) Except where it has been determined that a risk of collision does not exist, every vessel which hears apparently forward of her beam the fog signal of another vessel, or which cannot avoid a close-quarters situation with another vessel forward of her beam, shall reduce her speed to be the minimum at which she can be kept on her course. She shall if necessary take all her way off and in any event navigate with extreme caution until danger of collision is over.

Part C—Lights and Shapes

Rule 20—Application

(a) Rules 20 through 31 shall be complied with in all weathers.

(b) The Rules concerning lights shall be complied with from sunset to sunrise, and during such times no other lights shall be exhibited, except such lights which cannot be mistaken for the lights specified in these Rules or do not impair their visibility or distinctive character, or interfere with the keeping of a proper look-out.

(c) The lights prescribed by these Rules shall, if carried, also be exhibited from sunrise to sunset in restricted visibility and may be exhibited in all other circumstances when it is deemed necessary.

(d) The Rules concerning shapes shall be complied with by day.

(e) The lights and shapes specified in these Rules shall comply with the provisions of Annex I of these Rules.

Rule 20f (Inland)

(f) A vessel’s navigation lights and shapes may be lowered if necessary to pass under a bridge.

Rule 21—Definitions

(a) "Masthead light" means a white light placed over the fore and aft centerline of the vessel showing an unbroken light over an arc of the horizon of 225° and so fixed as to show the light from right ahead to 22.5° abaft the beam on either side of the vessel «except that on a vessel of less than 12 meters in length the masthead light shall be placed as nearly as practicable to the fore and aft centerline of the vessel».

(b) "Sidelights" means a green light on the starboard side and a red light on the port side each showing an unbroken light over an arc of the horizon of 112.5° and so fixed as to show the light from right ahead to 22.5°.
abaft the beam on its respective side. In a vessel of less than 20 meters in length the sidelights may be combined in one lantern carried on the fore and aft centerline of the vessel except that on a vessel of less than 12 meters in length the sidelights when combined in one lantern shall be placed as nearly as practicable to the fore and aft centerline of the vessel.

(c) "Sternlight" means a white light placed as nearly as practicable at the stern showing an unbroken light over an arc of the horizon of 135° and so fixed as to show the light 67.5° from right aft on each side of the vessel.

(d) "Towing light" means a yellow light having the same characteristics as the "sternlight" defined in Rule 21(c).

(e) "All-round light" means a light showing an unbroken light over an arc of the horizon of 360°.

(f) "Flashing light" means a light flashing at regular intervals at a frequency of 120 flashes or more per minute.

Rule 21g (Inland)

(g) "Special flashing light" means a yellow light flashing at regular intervals at a frequency of 50 to 70 flashes per minute, placed as far forward and as nearly as practicable on the fore and aft centerline of the tow and showing an unbroken light over an arc of the horizon of not less than 180 degrees nor more than 225 degrees and so fixed as to show the light from right ahead to abeam and no more than 22.5 degrees abaft the beam on either side of the vessel.

Rule 22—Visibility of Lights

The lights prescribed in Rules 20 through 31 shall have an intensity as specified in §8 of Annex I to these Rules so as to be visible at the following minimum ranges:

(a) In vessels of 50 meters or more in length: (i) a masthead light, 6 miles; (ii) a sidelight, 3 miles; (iii) a towing light, 3 miles; (iv) a white red, green or yellow all-round light, 3 miles. (v) a special flashing light, 2 miles.

(b) In vessels of 12 meters or more in length but less than 50 meters in length: (i) a masthead light, 5 miles; except that where the length of the vessel is less than 20 meters, 3 miles; (ii) a sidelight, 2 miles; (iii) a sternlight,
Rule 23—Power-driven Vessels Underway

2 miles; (iv) a towing light, 2 miles; (v) a white, red, green or yellow all-round light, 2 miles. «(vi) a special flashing light, 2 miles.»

(c) In vessels of less than 12 meters in length: (i) a masthead light, 2 miles; (ii) a sidelight, 1 mile; (iii) a towing light, 2 miles; (iv) a white, red, green or yellow all-round light, 2 miles. «(v) a special flashing light, 2 miles.»

(d) In inconspicuous, partly submerged vessels or objects being towed; (i) a white all-round light; 3 miles.

Rule 23—Power-driven Vessels Underway

(a) A power-driven vessel underway shall exhibit: (i) a masthead light forward; (ii) a second masthead light abaf of and higher than the forward one; except that a vessel of less than 50 meters in length shall not be obliged to exhibit such a light but may do so; (iii) sidelights; and (iv) a sternlight.

(b) An air-cushion vessel when operating in nondisplacement mode shall, in addition to the lights prescribed in Rule 23(a) Air Cushion Vessel in Displacement Mode, exhibit an all-round flashing yellow light «where it can best be seen».

(c) A WIG craft only when taking off, landing and in flight near the surface shall, in addition to the lights prescribed in Rule 23(a), exhibit a high intensity allround flashing red light.

(d) A power-driven vessel of less than 12 meters in length may in lieu of the lights prescribed in Rule 23(a) exhibit an all-round white light and sidelights.
Regulations containing specifics on Law Enforcement and Public Safety Vessel lighting are in Annex V–Pilot Rules, 33 CFR 88.05 and 33 CFR 88.07, chapter 2.

Rule 24—Towing and Pushing

(a) A power-driven vessel when towing astern shall exhibit: (i) instead of the light prescribed in Rule 23(a)(i) or 23(a)(ii), two masthead lights in a vertical line. When the length of the tow, measuring from the stern of the towing vessel to the after end of the tow, exceeds 200 meters, three such lights in a vertical line; (ii) sidelights; (iii) a sternlight; (iv) a towing light in a vertical line above the sternlight; and (v) when the length of the tow exceeds 200 meters, a diamond shape where it can best be seen.

(b) When a pushing vessel and a vessel being pushed ahead are rigidly connected in a composite unit they shall be regarded as a power-driven vessel and exhibit the lights prescribed in Rule 23.

Interpretive Rule—See 33 CFR 90.3 and 33 CFR 82.3, chapter 2, for regulations.

(c) A power-driven vessel when pushing ahead or towing alongside, except in the case of a composite unit referred to in Rules 24(b) and (i), shall exhibit: (i) instead of the light prescribed in Rule 23(a)(i) or 23(a)(ii), two masthead lights in a vertical line; (ii) sidelights; and (iii) a sternlight (two towing lights in a vertical line).

(d) A power-driven vessel to which Rule 24(a) or (c) applies shall also comply with Rule (a)(i) and (a)(ii).

(e) A vessel or object being towed, other than those mentioned referred to in Rule 24(g), shall exhibit: (i) sidelights; (ii) a sternlight; (iii) when the length of the tow exceeds 200 meters, a diamond shape where it can best be seen.

(f) Provided that any number of vessels being towed alongside or pushed in a group shall be lighted as one vessel except as provided in Rule 24((f)(iii)).

(i) a vessel being pushed ahead, not being part of a composite unit, shall exhibit at the forward end, sidelights, and (a) special flashing light; (ii) a vessel being towed shall exhibit a sternlight and at the forward end, sidelights, and a special flashing light.

Rule 24f (Inland)

(iii) when vessels are towed alongside on both sides of the towing vessel a sternlight shall be exhibited on the stern of the outboard vessel on each side of the towing vessel, and a single set of sidelights as far forward and as far outboard as is practicable, and a single special flashing light;

(g) An inconspicuous, partly submerged vessel or object, or combination of such vessels or objects being towed, shall exhibit:

(i) if it is less than 25 meters in breadth, one all-round white light at or near the forward end and one at or near the after end except that dracones need not exhibit a light at or near the forward end;

(ii) if it is 25 meters or more in breadth, two or more additional all-round white lights at or near the extremities of its breadth;

Rule 24g (International)

(ii) if it is 25 meters or more in breadth, four all-round white lights to mark its length and breadth;

(iii) if it exceeds 100 meters in length, additional allround white lights between the lights prescribed in Rule 24(g)(i) and (ii) and so that the distance between the lights shall not exceed 100 meters. Provided that any vessels or objects being towed alongside each other shall be lighted as one vessel or object.

(iv) a diamond shape at or near the aftermost extremity of the last vessel or object being towed; and if the length of the tow exceeds 200 meters an additional diamond shape where it can best be seen and located as far forward as is practicable.

Rule 24g (Inland)

(v) the towing vessel may direct a searchlight in the direction of the tow to indicate its presence to an approaching vessel.

(h) Where from any sufficient cause it is impracticable for a vessel or object being towed to exhibit the lights or shapes prescribed in Rule 24(e) or (g), all possible measures shall be taken to light the vessel or object towed or at least to indicate the presence of such the unlighted vessel or object.
Rule 24—Towing and Pushing (International/Inland)

Interpretive Rule—See 33 CFR 90.7 and 33 CFR 82.7, chapter 2, for regulations.

Rule 24h (Inland)

(i) Notwithstanding Rule 24(c), on the Western Rivers (except below the Huey P. Long Bridge on the Mississippi River) and on waters specified by the Secretary, a power-driven vessel when pushing ahead or towing alongside, except as Rule 24b applies, shall exhibit: (i) sidelights; and (ii) two towing lights in a vertical line.

(ii) Where from any sufficient cause it is impracticable for a vessel not normally engaged in towing operations to display the lights prescribed in Rule 24a, (c) or (i), such vessel shall not be required to exhibit those lights when engaged in towing another vessel in distress or otherwise in need of assistance. All possible measures shall be taken to indicate the nature of the relationship between the towing vessel and the vessel being towed as authorized by Rule 36, in particular by illuminating the towline and the vessel being assisted. The searchlight authorized by Rule 36 may be used to illuminate the tow.
Rule 25—Sailing Vessels Underway and Vessels Under Oars (International/Inland)

(a) A sailing vessel underway shall exhibit: (i) sidelights; (ii) a sternlight.

(b) In a sailing vessel of less than 20 meters in length the lights prescribed in Rule 25(a) may be combined in one lantern carried at or near the top of the mast where it can best be seen.

(c) A sailing vessel underway may, in addition to the lights prescribed in Rule 25(a), exhibit at or near the top of the mast, where they can best be seen, two all-round lights in a vertical line, the upper being red and the lower green, but these lights shall not be exhibited in conjunction with the combined lantern permitted by Rule 25(b).

(d)(i) A sailing vessel of less than 7 meter in length shall, if practicable, exhibit the lights prescribed in Rule 25(a) or (b), but if she does not, she shall «exhibit an all around white light or» have ready at hand an electric torch or lighted lantern showing a white light which shall be exhibited in sufficient time to prevent collision.

(e) A vessel proceeding under sail when also being propelled by machinery shall exhibit forward where it can best be seen a conical shape, apex downwards. «A vessel of less than 12 meters in length is not required to exhibit this shape, but may do so.»

Rule 26—Fishing Vessels

(a) A vessel engaged in fishing, whether underway or at anchor, shall exhibit only the lights and shapes prescribed in this Rule.

(b) A vessel when engaged in trawling, by which is meant the dragging through the water of a dredge net or other apparatus used as a fishing appliance, shall exhibit: (i) two all-round lights in a vertical line, the upper being green and the lower white, or a shape consisting of two cones with their apexes together in a vertical line one above the other; (ii) a masthead light abaft of and higher than the all-round green light; a vessel of less than 50 meters in length shall not be obliged to exhibit such a light but may do so; (iii) when making way through the water, in addition to the lights prescribed in this paragraph, sidelights and a sternlight.

(c) A vessel engaged in fishing, other than trawling, shall exhibit: (i) two all-round lights in a vertical line, the
upper being red and the lower white, or a shape consisting of two cones with their apexes together in a vertical line one above the other; (ii) when there is outlying gear extending more than 150 meters horizontally from the vessel, an all-round white light or a cone apex upwards in the direction of the gear; (iii) when making way through the water, in addition to the lights prescribed in this paragraph, sidelights and a sternlight.

**Rule 26—Fishing Vessels (International/Inland)**

26(b) Vessel Engaged in Trawling
   - Not making way
   - Making way; less than 50 meters in length

26(c) Vessel Engaged in Fishing Other Than Trawling
   - Not making way
   - Making way

26d (International)

(d) The additional signals described in Annex II to these Regulations apply to a vessel engaged in fishing in close proximity to other vessels engaged in fishing.

(e) A vessel when not engaged in fishing shall not exhibit the lights or shapes prescribed in this Rule, but only those prescribed for a vessel of her length.

(f) Additional signals for fishing vessels in close proximity. [Same as COLREGS Annex II, except where denoted by angle brackets]

1(i) The lights mentioned herein shall, if exhibited in pursuance of Rule 26(d), be placed where they can best be seen. They shall be at least 0.9 meters apart but at a lower level than lights prescribed in Rule 26. (b)(i) and (c)(ii) The lights shall be visible all around the horizon at a distance of at least 1 mile but at a lesser distance from the lights prescribed by these Rules through (c) of this Rule for fishing vessels.

2(ii) Signals for trawlers.

(a)(1) Vessels of 20 meters or more in length when engaged in trawling, whether using demersal or pelagic gear, may exhibit: (i)(A) when shooting their nets—two white lights in a vertical line; (ii)(B) when hauling their nets—one white light over one red light in a vertical line; (iii)(C) when the net has come fast upon an obstruction—two red lights in a vertical line.

(b)(2) Each vessel of 20 meters or more in length engaged in pair trawling may exhibit: (i)(A) by night, a searchlight directed forward and in the direction of the other vessel of the pair; (ii)(B) when shooting or hauling their nets or when their nets have come fast upon an obstruction, the lights prescribed in Rule 26((f)(ii)).

3(iii) Signals for purse seiners.

(a)(1) Vessels engaged in fishing with purse seine gear may exhibit two yellow lights in a vertical line. These lights shall flash alternately every second and with equal light and occultation duration. These lights may be
Rule 27—Vessels Not Under Command or Restricted in Their Ability to Maneuver (International/Inland)

27(a) Vessel Not Under Command
Not making way

27(a)(iii) Vessel Not Under Command
Making way

27(b) Vessel Restricted in Her Ability to Maneuver—Making way; less than 50 meters in length

27(c) Vessel engaged in towing operation which severely restricts towing vessel and her tow in their ability to deviate from their course—Length of tow does not exceed 200 meters; towing vessel less than 50 meters in length.

27(d) Vessel engaged in dredging or underwater operations when restricted in ability to maneuver—Making way with an obstruction on the starboard side.

27(d) Vessel engaged in dredging or underwater operations when restricted in ability to maneuver—Not making way with an obstruction on the starboard side.

27(e) Small vessel engaged in diving operations

27(f) Vessel engaged in mineclearance operations
Vessel less than 50 meters in length.

27(f) Vessel engaged in mineclearance operations
Vessel 50 meters or greater in length.
Rule 27—Vessels Not Under Command or Restricted in Their Ability to Maneuver

(a) A vessel not under command shall exhibit: (i) two all-round red lights in a vertical line where they can best be seen; (ii) two balls or similar shapes in a vertical line where they can best be seen; (iii) when making way through the water, in addition to the lights prescribed in this paragraph, sidelights and a sternlight.

(b) A vessel restricted in her ability to maneuver, except a vessel engaged in mineclearance operations, shall exhibit: (i) three all-round lights in a vertical line where they can best be seen. The highest and lowest of these lights shall be red and the middle light shall be white; (ii) three shapes in a vertical line where they can best be seen. The highest and lowest of these shapes shall be balls and the middle one a diamond; (iii) when making way through the water, a masthead light(s), sidelights and a sternlight.

(c) A power-driven vessel engaged in a towing operation such as severely restricts the towing vessel and her tow in their ability to deviate from their course shall, in addition to the lights or shape prescribed in Rule 27(b)(i) and (ii), exhibit the lights or shapes prescribed in Rule 24.

(d) A vessel engaged in dredging or underwater operations, when restricted in her ability to maneuver, shall exhibit the lights and shapes prescribed in Rules 27(b)(i), (ii) and (iii) and shall in addition when an obstruction exists, exhibit: (i) two all-round red lights or two balls in a vertical line to indicate the side on which the obstruction exists; (ii) two all-round green lights or two diamonds in a vertical line to indicate the side on which another vessel may pass; and (iii) when at anchor, the lights or shapes prescribed in this paragraph instead of the lights or shapes prescribed in Rule 30.

Rule 27d (Inland)

(iv) Dredge pipelines that are floating or supported on trestles shall display the following lights at night and in periods of restricted visibility.

1. One row of yellow lights. The lights must be: (A) flashing 50 to 70 times per minute, (B) visible all around the horizon, (C) visible for at least 2 miles, (D) not less than 1 meter and not more than 3.5 meters above the water, (E) approximately equally spaced, and (F) not more than 10 meters apart where the pipeline crosses a navigable channel. Where the pipeline does not cross a navigable channel the lights must be sufficient in number to clearly show the pipeline’s length and course.

2. Two red lights at each end of the pipeline, including the ends in a channel where the pipeline is separated to allow vessels to pass (whether open or closed). The lights must be: (A) visible all around the horizon, and (B) visible for at least 2 miles, and one meter apart in a vertical line with the lower light at the same height above the water as the flashing yellow light.

(e) Whenever the size of a vessel engaged in diving operations makes it impracticable to exhibit all lights and shapes prescribed in Rule 27(d), the following shall be exhibited: (i) Three all-round lights in a vertical line where they can best be seen. The highest and lowest of these lights shall be red and the middle light shall be white; (ii) a rigid replica of the International Code flag “A” not less than 1 meter in height. Measures shall be taken to ensure its all-round visibility.

(f) A vessel engaged in mine clearance operations shall, in addition to the lights prescribed for a power-driven vessel in Rule 23 or to the lights or shape prescribed for a vessel at anchor in Rule 30 as appropriate, exhibit three all-round green lights or three balls. One of these lights or shapes shall be exhibited near the foremost head and one at each end of the fore yard. These lights or shapes...
indicate that it is dangerous for another vessel to approach within 1000 meters of the mineclearance vessel.

(g) Vessels of less than 12 meters in length, except those engaged in diving operations, shall not be required to exhibit the lights prescribed in this Rule.

(h) The signals prescribed in this Rule are not signals of vessels in distress and requiring assistance. Such signals are contained in Annex IV to these Rules.

Rule 28—Vessels Constrained by Their Draft

See graphic, Rule 28—Vessels Constrained by Their Draft.

Rule 29—Pilot Vessels

(a) A vessel engaged on pilotage duty shall exhibit:
(i) at or near the masthead, two all-round lights in a vertical line, the upper being white and the lower red; (ii) when underway, in addition, sidelights and a sternlight; (iii) when at anchor, in addition to the lights prescribed in Rule 29(a)(i), the light, lights, or shape prescribed in Rule 30 for vessels at anchor.

(b) A pilot vessel when not engaged on pilotage duty shall exhibit the lights or shapes prescribed for a similar vessel of her length.

Rule 30—Anchored Vessels and Vessels Aground

(a) A vessel at anchor shall exhibit where it can best be seen: (i) in the fore part, an all-round white light or one ball; (ii) at or near the stern and at a lower level than the light prescribed in Rule 30(a)(i), an all-round white light.

Interpretive Rule—See 33 CFR 90.5 and 33 CFR 82.5, chapter 2, for regulations on vessels at anchor.

(b) A vessel of less than 50 meters in length may exhibit an all-round white light where it can best be seen instead of the lights prescribed in Rule 30(a).

(c) A vessel at anchor may, and a vessel of 100 meters and more in length shall, also use the available working or equivalent lights to illuminate her decks.

(d) A vessel aground shall exhibit the lights prescribed in Rule 30(a) or (b) and in addition, if practicable, where they can best be seen: (i) two all-round red lights in a vertical line; (ii) three balls in a vertical line.

(e) A vessel of less than 7 meters in length, when at anchor not in or near a narrow channel, fairway or where other vessels normally navigate, shall not be required to exhibit the lights or shape prescribed in Rule 30(a) and (b).

(f) A vessel of less than 12 meters in length, when aground, shall not be required to exhibit the lights or shapes prescribed in Rule 30(d)(i) and (ii).

Rule 30 (Inland)

(g) A vessel of less than 20 meters in length, when at anchor in a special anchorage area designated by the Coast Guard, shall not be required to exhibit the anchor lights and shapes required by this Rule.

(h) The following barges shall display at night and if practicable in periods of restricted visibility the lights described in Rule 30(i):
(i) Every barge projecting into a buoyed or restricted channel.
(ii) Every barge so moored that it reduces the available navigable width of any channel to less than 80 meters.
(iii) Barges moored in groups more than two barges wide or to a maximum width of over 25 meters.
(iv) Every barge not moored parallel to the bank or dock.

(i) Barges described in Rule 30(h) shall carry two unobstructed all-round white lights of an intensity to be visible for at least 1 nautical mile and meeting the technical requirements as prescribed in Annex I.

(j) A barge or a group of barges at anchor or made fast to one or more mooring buoys or other similar device, in lieu of the provisions of Rule 30, may carry unobstructed all-round white lights of an intensity to be visible for at least 1 nautical mile that meet the requirements of Annex I and shall be arranged as follows:
(i) Any barge that projects from a group formation, shall be lighted on its outboard corners.
(ii) On a single barge moored in water where other vessels normally navigate on both sides of the barge, lights shall be placed to mark the corner extremities of the barge.
(iii) On barges moored in group formation, moored in water where other vessels normally navigate on both sides of the group, lights shall be placed to mark the corner extremities of the group.

(k) The following are exempt from the requirements of Rule 30:
(i) A barge or group of barges moored in a slip or slough used primarily for mooring purposes.
(ii) A barge or group of barges moored behind a pierhead.
(iii) A barge less than 20 meters in length when moored in a special anchorage area designated in accordance with 33 CFR 109.10.

(l) Barges moored in well-illuminated areas are exempt from the lighting requirements of Rule 30. These areas are as follows:

CHICAGO SANITARY SHIP CANAL

(1) Mile 293.2 to 293.9
(2) Mile 295.2 to 296.1
(3) Mile 297.5 to 297.8
(4) Mile 298 to 298.2
(5) Mile 298.6 to 298.8
(6) Mile 299.3 to 299.4
(7) Mile 299.8 to 300.5
(8) Mile 303 to 303.2
(9) Mile 303.7 to 303.9
(10) Mile 305.7 to 305.8
(11) Mile 310.7 to 310.9
(12) Mile 311 to 311.2
(13) Mile 312.5 to 312.6
(14) Mile 313.8 to 314.2

CALUMET SAG CHANNEL

(28) Mile 316.5
Rule 30 (Inland)

**LITTLE CALUMET RIVER**
(29) Mile 321.2  
(30) Mile 322.3

**CALUMET RIVER**
(31) Mile 328.5 to 328.7  
(32) Mile 329.2 to 329.4  
(33) Mile 330 west bank to 330.2  
(34) Mile 331.4 to 331.6  
(35) Mile 332.2 to 332.4  
(36) Mile 332.6 to 332.8

**CUMBERLAND RIVER**
(37) Mile 126.8  
(38) Mile 191

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**Rule 31—Seaplanes**

Where it is impracticable for a seaplane or a WIG craft to exhibit lights or shapes of the characteristics or in the positions prescribed in Rules 20 through 31 she shall exhibit lights and shapes as closely similar in characteristics and position as is possible.

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**Part D—Sound and Light Signals**

**Rule 32—Definitions**

(a) The word "whistle" means any sound signaling appliance capable of producing the prescribed blasts and which complies with the specifications in Annex III to these Rules.

(b) The term "short blast" means a blast of about one seconds duration.

(c) The term "prolonged blast" means a blast of from four to six seconds duration.

**Rule 33—Equipment for Sound Signals**

(a) A vessel of 12 meters or more in length shall be provided with a whistle, a vessel of 20 meters or more in length shall be provided with a bell in addition to a whistle, and a vessel of 100 meters or more in length shall, in addition be provided with a gong, the tone and sound of which cannot be confused with that of the bell. The whistle, bell and gong shall comply with the specifications in Annex III to these Regulations. The bell or gong or both may be replaced by other equipment having the same respective sound characteristics, provided that manual sounding of the prescribed signals shall always be possible.

(b) A vessel of less than 12 meters in length shall not be obliged to carry the sound signaling appliances prescribed in Rule 33(a) but if she does not, she shall be provided with some other means of making an efficient signal.

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**Rule 34—Maneuvering and Warning Signs**

(a) When vessels are in sight of one, a power-driven vessel underway, when maneuvering as authorized or required by these Rules, shall indicate that manoeuvre by the following signals on her whistle:

- One short blast to mean “I am altering my course to starboard”
- Two short blasts to mean “I am altering my course to port”
- Three short blasts to mean “I am operating astern propulsion”

(b) Any vessel may supplement the whistle signals prescribed in Rule 34(a) by light signals, repeated as appropriate, while the maneuver is being carried out:

(i) these signals shall have the following significance:

(ii) the duration of each flash shall be about one second, the interval between flashes shall be about one second, and the interval between successive signals shall not be less than ten seconds.

(iii) the light used for this signal shall, if fitted, be an all-round white, visible at a minimum range of 5 miles, and shall comply with the provisions of Annex I to these Regulations.

- One flash to mean “I am altering my course to starboard”
- Two flashes to mean I am altering my course to port”
- Three flashes to mean “I am operating astern propulsion”.

(c) When in sight of one another in a narrow channel or fairway:

(i) a vessel intending to overtake another shall in compliance with Rule 9(e)(i) indicate her intention by the following signals on her whistle:

- Two prolonged blasts followed by one short blast to mean “I intend to overtake you on your starboard side”
- Two prolonged blasts followed by two short blasts to mean “I intend to overtake you on your port side”.

(ii) the vessel about to be overtaken when acting in accordance with Rule 9(e)(i) shall indicate her agreement by the following signal on her whistle:

- one prolonged, one short, one prolonged and one short blast, in that order.

(d) When vessels in sight of one another are approaching each other and from any cause either vessel fails to understand the intentions or actions of the other, or is in doubt whether sufficient action is being taken by the other to avoid collision, the vessel in doubt shall immediately indicate such doubt by giving at least five short and rapid blasts on the whistle. Such signal may be supplemented by at least five short and rapid flashes.

(e) A vessel nearing a bend or an area of a channel or fairway where other vessels may be obscured by an intervening obstruction shall sound one prolonged blast. This signal shall be answered with a prolonged blast by any approaching vessel that may be within hearing around the bend or behind the intervening obstruction.

(f) If whistles are fitted on a vessel at a distance apart of more than 100 meters, one whistle only shall be used for giving maneuvering and warning signals.

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**Inland**
Rule 34—Maneuvering and Warning Signs

(a) When power-driven vessels are in sight of one another and meeting or crossing at a distance within half a mile of each other, each vessel underway, when maneuvering as authorized or required by these Rules,

(i) shall indicate that maneuver by the following signals on her whistle:

– One short blast to mean "I intend to leave you on my port side"
– Two short blasts to mean "I intend to leave you on my starboard side"
– Three short blasts to mean "I am operating astern propulsion"

(ii) upon hearing the one or two blast signal of the other, if in agreement, sound the same whistle signal and take the steps necessary to effect a safe passing. If, however, from any cause, the vessel doubts the safety of the proposed maneuver, she shall sound the signal specified in Rule 34(d) and each vessel shall take appropriate precautionary action until a safe passing agreement is made.

(b) Any vessel may supplement the whistle signals prescribed in Rule 34(a) by light signals:

(i) these signals shall have the following significance:

(ii) the duration of each flash shall be about one second.

(iii) the light used for this signal shall, if fitted, be an all-round white or yellow, visible at a minimum range of 2 miles, synchronized with the whistle and shall comply with the provisions of Annex I to these Regulations.

– One flash to mean "I intend to leave you on my port side"
– Two flashes to mean "I intend to leave you on my starboard side"
– Three flashes to mean "I am operating astern propulsion"

(c) When in sight of one another:

(i) a power-driven vessel intending to overtake another power-driven vessel shall indicate her intention by the following signals on her whistle:

– One short blast to mean "I intend to overtake you on your starboard side"
– Two short blasts to mean "I intend to overtake you on your port side"

(ii) the power-driven vessel about to be overtaken shall, if in agreement, sound a similar sound signal. If in doubt she shall sound the signal prescribed in Rule 34(d).

(d) When vessels in sight of one another are approaching each other and from any cause either vessel fails to understand the intentions or actions of the other, or is in doubt whether sufficient action is being taken by the other to avoid collision, the vessel in doubt shall immediately indicate such doubt by giving at least five short and rapid blasts on the whistle. Such signal may be supplemented by at least five short and rapid flashes.

(e) A vessel nearing a bend or an area of a channel or fairway where other vessels may be obscured by an intervening obstruction shall sound one prolonged blast. This signal shall be answered with a prolonged blast by any approaching vessel that may be within hearing around the bend or behind the intervening obstruction.

(f) If whistles are fitted on a vessel at a distance apart of more than 100 meters, one whistle only shall be used for giving maneuvering and warning signals.

(g) When a power-driven vessel is leaving a dock or berth, she shall sound one prolonged blast.

Rule 35—Sound Signals in Restricted Visibility

In or near an area of restricted visibility, whether by day or night the signals prescribed in this Rule shall be used as follows:

(a) A power-driven vessel making way through the water shall sound at intervals of not more than 2 minutes one prolonged blast.

(b) A power-driven vessel underway but stopped and making no way through the water shall sound at intervals of no more than 2 minutes two prolonged blasts in succession with an interval of about 2 seconds between them.

(c) A vessel not under command, a vessel restricted in her ability to maneuver «whether underway or at anchor», a vessel constrained by her draft, a sailing vessel, a vessel engaged in fishing and a vessel engaged in towing or pushing another vessel shall, instead of the signals prescribed in Rule 35(a) or (b), sound at intervals of not more than 2 minutes three blasts in succession, namely one prolonged followed by two short blasts.

Rule 35d (International)

(d) A vessel engaged in fishing, when at anchor, and a vessel restricted in her ability to maneuver when carrying out her work at anchor, shall instead of the signals prescribed in Rule 35(g) sound the signal prescribed in Rule 35(c).

(e) A vessel towed or if more than one vessel is towed the last vessel of the tow, if manned, shall at intervals of not more than 2 minutes sound four blasts in succession, namely one prolonged followed by three short blasts. When practicable, this signal shall be made immediately after the signal made by the towing vessel.

(f) When a pushing vessel and a vessel being pushed ahead are rigidly connected in a composite unit they shall sound one prolonged blast. If agreement is not reached, then whistle signals shall be exchanged in a timely manner and shall prevail.

(g) A vessel at anchor shall at intervals of not more than 1 minute ring the bell rapidly for about 5 seconds. In a vessel 100 meters or more in length the bell shall be sounded in the forepart of the vessel and immediately after the ringing of the bell the gong shall be sounded rapidly for about 5 seconds in the after part of the vessel. A vessel at anchor may in addition sound three blasts in succession, namely one short, one long and one short
blast, to give warning of her position and of the possibility of collision to an approaching vessel.

(h) A vessel aground shall give the bell signal and if required the gong signal prescribed in Rule 35(g) and shall, in addition, give three separate and distinct strokes on the bell immediately before and after the rapid ringing of the bell. A vessel aground may in addition sound an appropriate whistle signal.

(i) A vessel of 12 meters or more but less than 20 meters in length shall not be obliged to give the bell signals prescribed in Rule 35(g) and (h). However, if she does not, she shall make some other efficient sound signal at intervals of not more than 2 minutes.

(j) A vessel of less than 12 meters in length shall not be obliged to give the above mentioned signals but, if she does not, she shall make some other efficient sound signal at intervals of not more than 2 minutes.

(k) A pilot vessel when engaged on pilotage duty may, in addition to the signals prescribed in Rule 35(a), (b) or (g), sound an identity signal consisting of four short blasts.

Rule 35 (Inland)

(l) The following vessels shall not be required to sound signals as prescribed in Rule 35(g) when anchored in a special anchorage area designated by the Coast Guard:

(i) a vessel of less than 20 meters in length; and

(ii) a barge, canal boat, scow, or other nondescript craft.

Rule 36—Signals to Attract Attention

If necessary to attract the attention of another vessel, any vessel may make light or sound signals that cannot be mistaken for any signal authorized elsewhere in these
Rules, or may direct the beam of her searchlight in the
direction of the danger, in such a way as not to embarrass
any vessel.

(264) **Rule 36 (International)**

Any light to attract the attention of another vessel
shall be such that it cannot be mistaken for any aid to
navigation. For the purpose of this Rule the use of high
intensity intermittent or revolving lights, such as strobe
lights, shall be avoided.

(265) **Rule 37—Distress Signals**

When a vessel is in distress and requires assistance
she shall use or exhibit the signals described in Annex IV
to these Rules. (See graphic, **Rule 37—Distress
Signals**).

(268) **Part E—Exemptions**

(269) **Rule 38—Exemptions**

**International**

Any vessel (or class of vessel) provided that she complies
with the requirements of — the International Regulations for
the Preventing of Collisions at Sea, 1960, the keel of which is
laid or is at a corresponding stage of construction before the
entry into force of these Regulations may be exempted from
compliance therewith as follows:

(a) The installation of lights with ranges prescribed in Rule
22, until 4 years after the date of entry into force of these
Regulations.

(b) The installation of lights with color specifications as
prescribed in §7 of Annex I to these Regulations, until 4 years
after the entry into force of these Regulations.

(c) The repositioning of lights as a result of conversion from
Imperial to metric units and rounding off of measurement figures,
permanent exemption.

(d)(i) The repositioning of masthead lights on vessels of less
than 150 meters in length, resulting from the prescriptions of
§3 (a) of Annex I to these Regulations, permanent exemption.
(ii) The repositioning of masthead lights on vessels of 150
meters or more in length, resulting from the prescriptions of §3
(a) of Annex I to these Regulations, until 9 years after the date
of entry into force of these Regulations.

(e) The repositioning of masthead lights resulting from the
prescriptions of §2(b) of Annex I to these Regulations, until 9
years after the date of entry into force of these Regulations.

(f) The repositioning of sidelights resulting from the prescriptions
of §2(g) and 3(b) of Annex I to these Regulations, until 9 years
after the date of entry into force of these Regulations.

(g) The requirements for sound signal appliances prescribed in
Annex II to these Regulations, until 9 years after the date of
entry into force of these Regulations.

(h) The repositioning of all-round lights resulting from the
prescription of §9(b) of Annex I to these Regulations, permanent
exemption.

**Inland**

(270) **Implementing Rule**—See 33 CFR 81.20, chapter
2, for regulations.

(271) **Part F—Verification of Compliance with the
Provisions of the Convention**

(272) **Rule 39—Definitions**

(273) **Rule 39 (International)**

(a) “Audit” means a systematic, independent and
documented process for obtaining audit evidence and
evaluating it objectively to determine the extent to which
audit criteria are fulfilled.

(b) “Audit Scheme” means the IMO Member State
Audit Scheme established by the Organization and
taking into account the guidelines developed by the
Organization*.

(c) “Code for Implementation” means the IMO
Instruments Implementation Code (III Code) adopted by
the Organization by resolution A.1070(28).

(d) “Audit Standard” means the Code for Implementation.
Rule 40—Application

Contracting Parties shall use the provisions of the Code for Implementation in the execution of their obligations and responsibilities contained in the present Convention.

Rule 41—Verification of Compliance

(a) Every Contracting Party shall be subject to periodic audits by the Organization in accordance with the audit standard to verify compliance with and implementation of the present Convention.

(b) The Secretary-General of the Organization shall have responsibility for administering the Audit Scheme, based on the guidelines developed by the Organization.*

(c) Every Contracting Party shall have responsibility for facilitating the conduct of the audit and implementation of a programme of actions to address the findings, based on the guidelines developed by the Organization*.

(d) Audit of all Contracting Parties shall be:

(i) based on an overall schedule developed by the Secretary-General of the Organization, taking into account the guidelines developed by the Organization*; and

(ii) conducted at periodic intervals, taking into account the guidelines developed by the Organization*.

* Refer to the Framework and Procedures for the IMO Member State Audit Scheme, adopted by the Organization by resolution A.1067(28).

Annex I—Positioning and Technical Details of Lights and Shapes

Definitions

(a) The term “height above the hull” means height above the uppermost continuous deck. This height shall be measured from the position vertically beneath the location of the light.

(b) High-speed craft means a craft capable of maximum speed in meters per second (m/s) equal to or exceeding: 

\( 3.7 \sqrt[0.1667]{\gamma} \); where \( \gamma \) = displacement corresponding to the design waterline (cubic meters).

Note: The same formula expressed in pounds and knots is maximum speed in knots (kts) equal to exceeding 1.98(lbs) \( 3.7 \sqrt[0.1667]{\gamma} \); where \( \gamma \) = displacement corresponding to design waterline in pounds.

Annex I (International)

(c) The term “practical cut-off” means, for vessels 20 meters or more in length, 12.5 percent of the minimum luminous intensity (Table 14(b)) corresponding to the greatest range of visibility for which the requirements of Annex I are met.

(d) The term “Rule” or “Rules” has the same meaning as in Rule 3(r).

Annex I (Inland)

(d) A power-driven vessel of less than 12 meters in length may carry the uppermost light at a height of less than 2.5 meters above the gunwale. When, however, a masthead light is carried in addition to sidelights and a sternlight or the all-round light prescribed in Rule 23(d)(i) is carried in addition to sidelights, then such masthead light or all-round light shall be carried at least 1 meter higher than the sidelights.

Annex I (Inland)

(d) The masthead light, or the all-round light described in Rule 23(d), of a power-driven vessel of less than 12 meters in length shall be carried at least 1 meter higher than the sidelights.

(e) One of the two or three masthead lights prescribed for a power-driven vessel when engaged in towing or pushing another vessel shall be placed in the same position as either the forward masthead light or the after masthead light, provided that \( \gamma \), if carried on the after mast, \( \gamma \) the lowest after masthead light shall be at least \( 4.5 \sqrt[0.1667]{\gamma} \) meters vertically higher than the forward one.

(f)(i) The masthead lights or lights prescribed in Rule 23(a) shall be so placed as to be above and clear of...
all other lights and obstructions except as described in §(f)(ii).

(ii) When it is impracticable to carry the all-round lights prescribed in Rule 27(b)(i) or Rule 28 below the masthead lights, they may be carried above the after masthead light(s) or vertically in between the forward masthead light(s) and after masthead light(s), provided that in the latter case the requirement of §3(c) shall be complied with.

(g) The sidelights of a power-driven vessel shall be placed at a height above the hull not greater than three quarters of that «least 1 meter lower» of the «than» forward masthead light. They shall not be so low as to be interfered with by deck lights.

(i) When the Rules prescribe two or three lights to be carried in a vertical line, they shall be spaced as follows: (i) On a vessel of 20 meters in length or more such lights shall be spaced not less than 1 meter apart, and the lowest of these lights shall, except where a towing light is required, be placed at a height of not less than 4 meters above the hull. (ii) On a vessel of less than 20 meters in length such lights shall be spaced not less than 1 meter apart and the lowest of these lights shall, except where a towing light is required, be placed at a height of not less than 2 meters above the gunwale. (iii) When three lights are carried they shall be equally spaced.

(j) The lower of the two all-round lights prescribed for a vessel when engaged in fishing shall be at a height above the sidelights not less than twice the distance between the two vertical lights.

(k) The forward anchor light prescribed in Rule 30(a)(i), when two are carried, shall not be less than 4.5 meters above the after one. On a vessel of 50 meters or more in length this forward anchor light shall be placed at a height or not less than 6 meters above the hull.

Horizontal Positioning and Spacing of Lights

(a) «Except as specified in §1(e), » when two masthead lights are prescribed for a power-driven vessel, the horizontal distance between them must not be less than one-« quarter » «half» of the length of the vessel but need not be more than «100 » «50» meters. The forward light must be placed not more than one-« quarter » «half» of the length of the vessel from the stem.

(b) On a power-driven vessel of 20 meters or more in length the sidelights shall not be placed in front of the forward masthead lights. They shall be placed at or near the side of the vessel.

(c) When the lights prescribed in Rule 27(b)(i) or Rule 28 are placed vertically between the forward masthead light(s) and the after masthead light(s), these all-round lights shall be placed at a horizontal distance of not less than 2 meters from the fore and aft centerline of the vessel in the athwartship direction.

(d) When only one masthead light is prescribed for a power-driven vessel, this light must be exhibited forward as is practicable.

Annex I (International)

(h) The sidelights, if in a combined lantern and carried on a power-driven vessel of less than 20 meters in length, shall be placed not less than 1 meter below the masthead light.

(i) When the Rules prescribe two or three lights to be carried in a vertical line, they shall be spaced as follows: (i) On a vessel of 20 meters in length or more such lights shall be spaced not less than 1 meter apart, and the lowest of these lights shall, except where a towing light is required, be placed at a height of not less than 4 meters above the hull. (ii) On a vessel of less than 20 meters in length such lights shall be spaced not less than 1 meter apart and the lowest of these lights shall, except where a towing light is required, be placed at a height of not less than 2 meters above the gunwale. (iii) When three lights are carried they shall be equally spaced.

(j) The lower of the two all-round lights prescribed for a vessel when engaged in fishing shall be at a height above the sidelights not less than twice the distance between the two vertical lights.

(k) The forward anchor light prescribed in Rule 30(a)(i), when two are carried, shall not be less than 4.5 meters above the after one. On a vessel of 50 meters or more in length this forward anchor light shall be placed at a height or not less than 6 meters above the hull.

Details of Location of Direction-Indicating Lights for Fishing Vessels, Dredgers and Vessels Engaged in Underwater Operations

(a) The light indicating the direction of the outlying gear from a vessel engaged in fishing as prescribed in Rule 26(c)(ii) shall be placed at a horizontal distance of not less than 2 meters and not more than 6 meters away from the two all-round red and white lights. This light shall be placed not higher than the all-round white light prescribed in Rule 26(c)(i) and not lower than the sidelights.

(b) The lights and shapes on a vessel engaged in dredging or underwater operations to indicate the obstructed side and/or the side on which it is safe to pass, as prescribed in Rule 27(d)(i) and (ii), shall be placed at the maximum practical horizontal distance, but in no case less than 2 meters, from the lights or shapes prescribed in Rule 27(b)(i) and (ii). In no case shall the upper of these lights or shapes be at a greater height than the lower of the three lights or shapes prescribed in Rule 27(b)(i) and (ii).

Screen «For Sidelights»

(a) The sidelights of vessels of 20 meters or more in length shall be fitted with «inboard screens painted matt black,«inboard screens» and meet «ing » the requirements of §10 «15». On vessels of less than 20 meters in length, the sidelights, if necessary to meet the requirements of §9 «15», shall be fitted with «inboard » matt black «inboard» screens. With a combined lantern, using a single vertical filament and a very narrow division between the green and red sections, external screens need not be fitted.

Annex I (Inland)
(b) On power-driven vessels less than 12 meters in length constructed after July 31, 1983, the masthead light, or the all-round light described in Rule 23(d) shall be screened to prevent direct illumination of the vessel forward of the operator’s position.

(b) The vertical distance between shapes shall be at least 1.5 meter.

c) In a vessel of less than 20 meters in length shapes of lesser dimensions but commensurate with the size of the vessel may be used and the distance apart may be correspondingly reduced.

Color Specification of Lights

(a) The chromaticity of all navigation lights shall conform to the following standards, which lie within the boundaries of the area of the diagram specified for each color by the International Commission on Illumination (CIE). In the “Colors of Light Signals”, which is incorporated by reference. It is Publication CIE No. 2.2, (TC-1.6), 1975, and is available from the Illumination Engineering Society, 345 East 47th Street, New York, NY 10017 and is available for inspection at the Coast Guard, Shore Infrastructure Logistics Center, Aids to Navigation and Marine Environmental Response Product Line (CGSILC-ATON/MER), 2703 Martin Luther King, Jr. Ave SE, Mailstop 7714, Washington, DC 20593-7714. It is also available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202–741–6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. This incorporation by reference was approved by the Director of the Federal Register.

(b) The boundaries of the area for each color are given by indicating the corner coordinates, which are as follows:

(i) White

<table>
<thead>
<tr>
<th>x</th>
<th>0.525</th>
<th>0.525</th>
<th>0.452</th>
<th>0.310</th>
<th>0.310</th>
<th>0.443</th>
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</thead>
<tbody>
<tr>
<td>y</td>
<td>0.382</td>
<td>0.440</td>
<td>0.440</td>
<td>0.348</td>
<td>0.283</td>
<td>0.382</td>
</tr>
</tbody>
</table>

(ii) Green

<table>
<thead>
<tr>
<th>x</th>
<th>0.028</th>
<th>0.009</th>
<th>0.300</th>
<th>0.203</th>
</tr>
</thead>
<tbody>
<tr>
<td>y</td>
<td>0.385</td>
<td>0.723</td>
<td>0.511</td>
<td>0.356</td>
</tr>
</tbody>
</table>

(iii) Red

<table>
<thead>
<tr>
<th>x</th>
<th>0.680</th>
<th>0.660</th>
<th>0.735</th>
<th>0.721</th>
</tr>
</thead>
<tbody>
<tr>
<td>y</td>
<td>0.320</td>
<td>0.320</td>
<td>0.265</td>
<td>0.259</td>
</tr>
</tbody>
</table>

(iv) Yellow

<table>
<thead>
<tr>
<th>x</th>
<th>0.612</th>
<th>0.618</th>
<th>0.575</th>
<th>0.575</th>
</tr>
</thead>
<tbody>
<tr>
<td>y</td>
<td>0.382</td>
<td>0.382</td>
<td>0.425</td>
<td>0.406</td>
</tr>
</tbody>
</table>

Intensity of Lights

(a) The minimum luminous intensity of lights shall be calculated by using the formula:

\[ I = 3.43 \times 10^6 \times T \times D^2 \times K^0 \]

I is luminous intensity in candelas under service conditions.

T is threshold factor 2 x 10⁻⁷ lux.

D is range of visibility (luminous range) of the light in nautical miles.

K is atmospheric transmissivity. For prescribed lights the value of K shall be 0.8, corresponding to a meteorological visibility of approximately 13 miles.

(b) A selection of figures derived from the formula is given in the following table:

<table>
<thead>
<tr>
<th>Range of visibility (luminous range) of light in nautical miles D</th>
<th>Minimum luminous intensity of light in candelas for K = 0.8 I</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0.9</td>
</tr>
<tr>
<td>2</td>
<td>4.3</td>
</tr>
<tr>
<td>3</td>
<td>12</td>
</tr>
<tr>
<td>4</td>
<td>27</td>
</tr>
<tr>
<td>5</td>
<td>52</td>
</tr>
<tr>
<td>6</td>
<td>94</td>
</tr>
</tbody>
</table>

Note: The maximum luminous intensity of navigation lights should be limited to avoid undue glare. This shall not be achieved by a variable control of the luminous intensity.

Horizontal Sectors

(a) In the forward direction, sidelights as fitted on the vessel shall show the minimum required intensities.

The intensities shall decrease to reach practical cut-off between 1 and one degrees outside the prescribed sectors.

(ii) For sternlights and masthead lights and at 22.5 degrees abaft the beam for sidelights, the minimum required intensities shall be maintained over the arc of the horizon up to 5 degrees within the limits of the sectors prescribed in Rule 21. From 5 degrees within the prescribed sectors the intensity may decrease by 50 percent up to the prescribed limits; it shall decrease steadily to reach practical cut-off at not more than 5 degrees outside the prescribed sectors.

(b) All-round lights shall be so located as not to be obscured by masts, topmasts or structures within angular sectors of more than 6 degrees, except anchor
lights prescribed in Rule 30, which need not be placed at an impracticable height above the hull «, and the allround white light described in Rule 23(e), which may not be obscured at all».

(ii) If it is impracticable to comply with §2(b)(i) by exhibiting only one all-round light, two all-round lights shall be used suitably positioned or screened so that they «two» appear, as far as practicable, as one light at a «minimum» distance of 1 «nautical» mile.

«Note: Two unscreened all-round lights that are 1.28 meters apart or less will appear as one light to the naked eye at a distance of 1 nautical mile.»

Vertical Sectors

(a) The vertical sectors of electric lights as fitted, with the exception of lights on sailing vessels underway «and on unmanned barges», shall ensure that: (i) At least the required minimum intensity is maintained at all angles from 5 degrees above to 5 degrees below the horizontal; (ii) at least 60 percent of the required minimum intensity is maintained from 7.5 degrees above to 7.5 degrees below the horizontal.

(b) In the case of sailing vessels underway the vertical sectors of electric lights as fitted shall ensure that: (i) At least the required minimum intensity is maintained at all angles from 5 degrees above to 5 degrees below the horizontal; (ii) at least 50 percent of the required minimum intensity is maintained from 25 degrees above to 25 degrees below the horizontal.

Annex I (Inland)

(c) In the case of unmanned barges the minimum required intensity of electric lights as fitted shall be maintained on the horizontal.

(c)(d) In the case of lights other than electric lights these specifications shall be met as closely as possible.

Intensity of Non-electric Lights

Non-electric lights shall so far as practicable comply with the minimum intensities, as specified in the «Intensity of Lights» Table.

Maneuvering Light

«Notwithstanding the provisions of §2(f)», the maneuvering light described in Rule 34(b) shall be placed «approximately» in the same fore and aft vertical plane as the masthead light or lights and, where practicable, at a minimum height of < 2 »1.5» meter vertically above the forward masthead light, provided that it shall be carried not less than < 2 »1.5» meter vertically above or below the after masthead light. On a vessel where only one masthead light is carried, the maneuvering light, if fitted, shall be carried where it can best be seen, not less than <2 »1.5» meters vertically apart from the masthead light.

High-speed Craft

(a) The masthead light of high-speed craft may be placed at a height related to the breadth «of the craft» lower than that prescribed in §2(a)(i), provided that the base angle of the isosceles triangle formed by the sidelights and masthead light when seen in end elevation is not less than 27 degrees.

(b) On high-speed craft of 50 meters or more in length, the vertical separation between foremost and mainmast light of 4.5 meters required by §2(a)(ii) »2(k)» may be modified provided that such distance shall not be less than the value determined by the following formula:

\[
y = \frac{(a+17\Psi) C}{1000} + 2
\]

\[
a = \text{the height of the mainmast light above the foremost light in meters.}
\]

\[
Y = \text{the trim in service condition in degrees.}
\]

\[
C = \text{the horizontal separation of masthead lights in meters.}
\]


Approval

The construction of lights and shapes and the installation of lights on board the vessel «shall be to the satisfaction of the appropriate authority of the State whose flag the vessel is entitled to fly »must satisfy the Commandant, U. S. Coast Guard».

Annex II—Additional Signals for Fishing Vessels Fishing in Close Proximity

See Rule 26(f).

Annex III—Technical Details of Sound Signal Appliances

(a) Frequencies and range of audibility. The fundamental frequency of the signal shall lie within the range 70-700 Hz. The range of audibility of the signal from a whistle shall be determined by those frequencies, which may include the fundamental and/or one or more higher frequencies, which lie within the range 180-700 Hz (+/- 1 percent) for a vessel of 20 meters or more in length, or 180-2100 Hz (+/- 1 percent) for a vessel of less than 20 meters in length and which provide the sound pressure levels specified in §1(c).

(b) Limits of fundamental frequencies. To ensure a wide variety of whistle characteristics, the fundamental frequency of a whistle shall be between the following
limits: (i) 70-200 Hz, for a vessel 200 meters or more in length; (ii) 130-350 Hz, for a vessel 75 meters but less than 200 meters in length; (iii) 250-700 Hz, for a vessel less than 75 meters in length.

(c) Sound signal intensity and range of audibility. A whistle fitted in a vessel shall provide, in the direction of maximum intensity of the whistle and at a distance of 1 meter from it, a sound pressure level in at least one onethird octave band within the range of frequencies 180-700 Hz (+/- 1 percent) for a vessel of 20 meters or more in length, or 180-2100 Hz (+/- 1 percent) for a vessel of less than 20 meters in length, of not less than the appropriate figure given in the table below.

<table>
<thead>
<tr>
<th>Length of vessel in meters</th>
<th>One-third octave band level at 1 meter in dB referred to $2 \times 10^{-5}$ N/m$^2$</th>
<th>Audible range in nautical miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 or more</td>
<td>143</td>
<td>2</td>
</tr>
<tr>
<td>75 but less than 200</td>
<td>138</td>
<td>1.5</td>
</tr>
<tr>
<td>75 but less than 200</td>
<td>130</td>
<td>1</td>
</tr>
<tr>
<td>Less than 20</td>
<td>120*</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>115**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>111***</td>
<td></td>
</tr>
</tbody>
</table>

* When the measured frequencies lie within the range 180-450 Hz
** When the measured frequencies lie within the range 450-800 Hz
*** When the measured frequencies lie within the range 800-2100 Hz

The range of audibility in the table is for information and is approximately the range at which a whistle may be heard on its forward axis with 90 percent probability in conditions of still air on board a vessel having average background noise level at the listening posts (taken to be 68 dB in the octave band centered on 250 Hz and 63 dB in the octave band centered on 500 Hz). «It is shown for informational purposes only.» In practice, the range at which a whistle may be heard is extremely variable and depends critically on weather conditions; the values given can be regarded as typical but under conditions of strong wind or high ambient noise level at the listening post the range may be reduced.

(d) Directional properties. The sound pressure level of a directional whistle shall be not more than 4 dB below the «prescribed» sound pressure level «on the axis at», «specified in §(c)» any direction in the horizontal plane within +/- 45 degrees of the axis. The sound pressure level at «of the whistle in» any other direction in the horizontal plane shall be not more than 10 dB «below the prescribed» «less than the» sound pressure level «on the» «specified for the forward» axis, so that the range «audibility» in any direction will be at least half the range «required» on the forward axis. The sound pressure level shall be measured in that one-third octave band which determines the audibility range.

(e) Positioning of whistles.

(i) When a directional whistle is to be used as the only whistle on a vessel, it shall be installed with its maximum intensity directed straight ahead «the vessel and is permanently installed, it shall be installed with its forward axis directed forward».

(ii) A whistle shall be placed as high as practicable on a vessel, in order to reduce interception of the emitted sound by obstructions and also to minimize hearing damage risk to personnel. The sound pressure level of the vessel’s own signal at listening posts shall not exceed 110 dB(A) and so far as practicable should not exceed 100 dB(A).

(f) Fitting of more than one whistle. If whistles are fitted at a distance apart of more than 100 meters, «it shall be so arranged that they are »they shall» not «be» sounded simultaneously.

Annex Ilg (International)

(g) Combined whistle systems.

If due to the presence of obstructions the sound field of a single whistle or of one of the whistles referred to in §(f) is likely to have a zone of greatly reduced signal level, it is recommended that a combined whistle system be fitted so as to overcome this reduction. The whistles of a combined system shall be located at a distance apart of not more than 100 meters and arranged to be sounded simultaneously. The frequency of any one whistle shall differ from those of the others by at least 10 Hz.

Annex Ilg (Inland)

(g) Combined whistle systems.

(i) A combined whistle system is a number of whistles (sound emitting sources) operated together. For the purposes of the Rules a combined whistle system is to be regarded as a single whistle.

(ii) The whistles of a combined system shall:

(1) Be located at a distance apart of not more than 100 meters;

(2) Be sounded simultaneously;

(3) Each have a fundamental frequency different from those of the others by at least 10 Hz; and

(4) Have a tonal characteristic appropriate for the length of vessel which shall be evidenced by at least 2-thirds of the whistles in the combined system having fundamental frequencies falling within the limits prescribed in §(b) of this section, or if there are only two whistles in the combined system, by the higher fundamental frequency falling within the limits prescribed in paragraph (b) of this section.

Note: If, due to the presence of obstructions, the sound field of a single whistle or of one of the whistles referred to in §(f) of this section is likely to have a zone of greatly reduced signal level, a combined whistle system should be fitted so as to overcome this reduction.

For the purposes of the Rules a combined whistle system is to be regarded as a single whistle. «(ii)» The whistles of a combined system shall:

(1) Be located at a distance apart of not more than 100 meters;
Annex III(h) (Inland)

(h) Towing vessel whistles
A power-driven vessel normally engaged in pushing ahead or towing alongside, at all times, may use a whistle whose characteristic falls within the limits prescribed by §1(b) for the length of the vessel and its tow.

Bell or Gong

(a) Intensity of signal. A bell or gong, or other device having similar sound characteristics shall produce a sound pressure level of not less than 110 dB at a distance of 1 meter from it.

(b) Construction. Bells and gongs shall be made of corrosion-resistant material and designed to give clear tone. The diameter of the mouth of the bell shall be not less than 300 mm for vessels of 20 meters or more in length. Where practicable, a power-driven bell striker is recommended to ensure constant force but manual operation shall be possible. The mass of the striker shall be not less than 3 percent of the mass of the bell.

Approval

Annex III (International)

The construction of sound signal appliances, their performance and their installation on board the vessel shall be to the satisfaction of the appropriate authority of the State whose flag the vessel is entitled to fly.

Annex IV—Distress Signals

« Need of Assistance »

The following signals, used or exhibited either together or separately, indicate distress and need of assistance:

(a) a gun or other explosive signal fired at intervals of about a minute;

(b) a continuous sounding with any fog-signaling apparatus;

(c) rockets or shells, throwing red stars fired one at a time at short intervals;

(d) a signal made by any signaling method consisting of the group . . . — — — (SOS) in the Morse Code;

(e) a signal sent by radiotelephony consisting of the spoken word “Mayday”;

(f) the International Code Signal of distress indicated by N.C.;

(g) a signal consisting of a square flag having above or below it a ball or anything resembling a ball;

(h) flames on the vessel (as from a burning tar barrel, oil barrel, etc.);

(i) a rocket parachute flare or a hand flare showing a red light;

(j) a smoke signal giving off orange-colored smoke;

(k) slowly and repeatedly raising and lowering arms outstretched to each side;

(l) a distress alert by means of digital selective calling (DSC) transmitted on: (i) VHF channel 70, or (ii) MF/HF on the frequencies 2187.5 kHz, 8414.5 kHz, 4207.5 kHz, 6312 kHz, 12577 kHz or 16804.5 kHz;

(m) a ship-to-shore distress alert transmitted by the ship’s Inmarsat or other mobile satellite service provider ship earth station;

(n) signals transmitted by emergency position-indicating radio beacons;

(o) approved signals transmitted by radiocommunication systems, including survival craft radar transponders meeting the requirements of 47 CFR 80.109.

(p) A high intensity white light flashing at regular intervals from 50 to 70 times per minute.

« Exclusive Use »

The use or exhibition of any of the foregoing signals except for the purpose of indicating distress and need of assistance and the use of other signals which may be confused with any of the above signals is prohibited.

« Supplemental Signals »

Attention is drawn to the relevant sections of the International Code of Signals, the International Aeronautical and Maritime Search and Rescue Manual, Volume III, the International Telecommunication Union Radio Regulations, and the following signals:

(a) A piece of orange-colored canvas with either a black square and circle or other appropriate symbol (for identification from the air);

(b) A dye marker.

Annex V—Pilot Rules

Vessel Bridge-to-Bridge Radiotelephone Regulations—see 33 CFR 26, chapter 2, for regulations.