

**DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT**

**LAW ENFORCEMENT DIVISION**

**ASSOCIATED EQUIPMENT ON VESSELS**

(By authority conferred on the director of natural resources and environment by section 80109 of 1994 PA 451, MCL 324.80109 and Executive Reorganization Order Nos. 1991-22 and 2009-31, MCL 299.13 and 324.99919)

**R 281.1231 Definitions.**

Rule 1. (1) "Act" means 1994 PA 451, MCL 324.80101 to 324.80199. Terms defined in the act have the same meanings when used in these rules.

(2) "Open boat" means a motorboat with all engine and fuel tank compartments and other spaces to which explosives or flammable gases and vapors from these compartments may flow, open to the atmosphere and so arranged as to prevent the entrapment of gases and vapors within the vessel.

(3) "Point" means 11 1/4 degrees of the compass.

History: 1979 AC; 2010 AACCS.

**R 281.1232 Applicability.**

Rule 2. These rules apply to vessels and associated equipment used, to be used, or carried in vessels used on any waters within the territorial limits of this state including those waters of the Great Lakes which are under the jurisdiction of this state, except:

(a) Foreign vessels temporarily using waters subject to state jurisdiction.

(b) Military or public vessels of the United States, except recreational-type public vessels.

(c) A vessel whose owner is a state or political subdivision thereof, other than this state and its political subdivisions, which is used principally for governmental purposes, and which is clearly identifiable as such.

(d) A ship's lifeboat.

History: 1979 AC.

**R 281.1233 Navigation lights; intensity standards; placement; screening.**

Rule 3. (1) Navigation lights shall be of sufficient intensity so that the candlepower outside the lens is not less than that amount corresponding to the required distance of visibility as indicated in table 1.

**TABLE 1**

---

<b>Distance of Visibility In Nautical Miles</b>		<b>Candlepower</b>
1		1.0
2		5.5
3		17.6
5		100.0

(2) As an aid in complying with this rule, the standard double contact bayonet candelabra base lamps listed in table 2 are recommended for motorboats having 6- to 32-volt electrical systems.

**TABLE 2**

<b>Distance of Visibility in Nautical Miles</b>	<b>Color</b>	<b>Lamp Number for Certain Voltage Systems</b>					
		<b>With Fresnel Lens</b>			<b>Without Fresnel Lens</b>		
		<b>6</b>	<b>12</b>	<b>32</b>	<b>6</b>	<b>12</b>	<b>32</b>
1	Red	82	90	1,226	1,130	1,142	1,230
1	Green	88	94	1,228	—	—	—
2	White	64	68	1,224	82	90	1,226
3	White	82	90	1,226	1,130	1,142	1,230

(3) As an aid in complying with this rule, the incandescent lamps listed in table 3 are recommended for vessels having 115 volt electrical systems.

**TABLE 3**

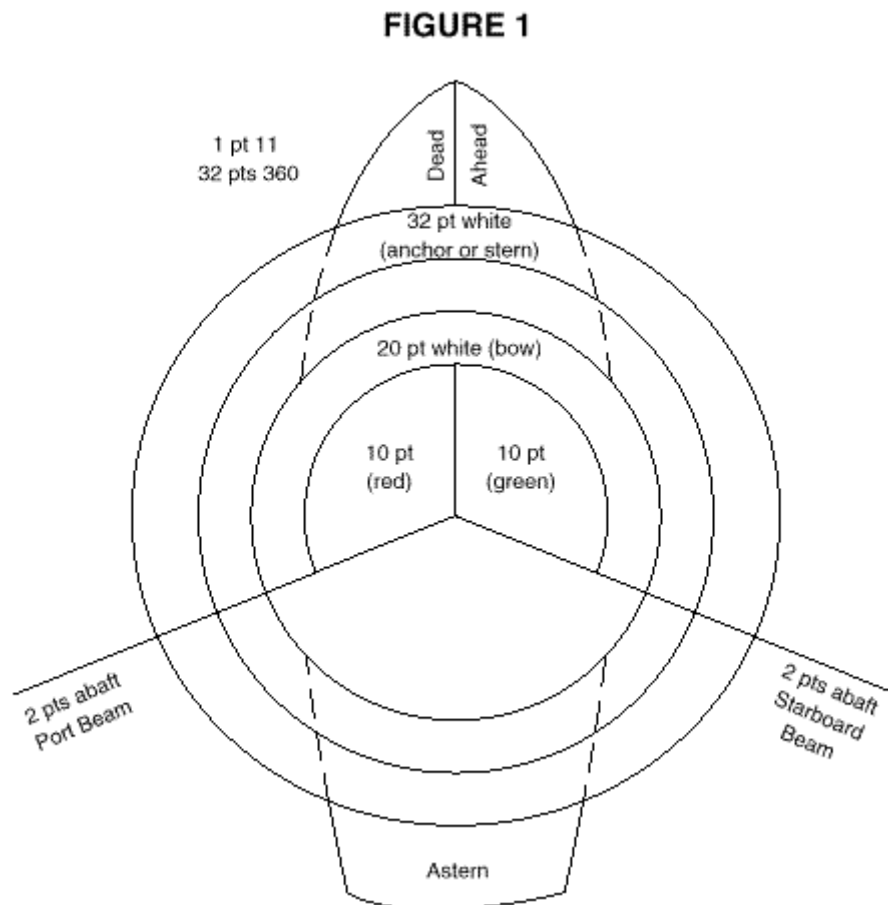
<b>Distance of Visibility in Nautical Miles</b>	<b>Color</b>	<b>Wattage</b>	
		<b>With Fresnel Lens</b>	<b>Without Fresnel Lens</b>
1	Red	—	25
1	Green	25	50
2	White	—	15
2	Amber	—	25
2	Red	40	100
2	Green	75	200
3	White	—	25

3	Amber	25	75
5	White	40	100

(4) The light intensity standards of this rule shall apply to new navigation lights installed and replacements of existing lights made on and after January 1, 1973.

(5) Navigation lights required by these rules shall be placed high enough that their light will not be obstructed by persons or parts of the boat or its equipment and shall be screened as indicated in figure 1.

**Figure for 281.1233**



History: 1979 AC.

**R 281.1234 Personal flotation devices.**

Rule 4. (1) Personal flotation devices required by these rules to be carried aboard vessels shall be of the following types:

(a) Type I, an approved device designed to turn an unconscious person in the water from a face downward position to a vertical or slightly backward position, and to have more than 20 pounds of buoyancy.

(b) Type II, an approved device designed to turn an unconscious person in the water from a face down position to a vertical or slightly backward position and to have at least 15.5 pounds of buoyancy.

(c) Type III, an approved device designed to keep a conscious person in a vertical or slightly backward position and to have at least 15.5 pounds of buoyancy.

(d) Type IV, an approved device designed to be thrown to a person in the water and not worn. It is designed to have at least 16.5 pounds of buoyancy.

(2) Personal flotation devices required by these rules to be carried aboard vessels shall be:

(a) Approved by the United States coast guard.

(b) Legibly marked with the approval number issued by the United States coast guard.

(c) Of an appropriate size for the person for whom it is intended.

(d) Readily accessible and immediately available.

(e) In good and serviceable condition.

History: 1979 AC.

**R 281.1235 Fire extinguishing equipment.**

Rule 5. (1) All hand portable fire extinguishers, semiportable fire extinguishing systems, and fixed fire extinguishing systems required by these rules shall be of a type approved by the United States coast guard.

(2) Hand portable fire extinguishers and semiportable fire extinguishing systems are classified by a combination letter and number symbol whereby the letter indicates the type of fire which the unit could be expected to extinguish, and the number indicates the relative size of the unit.

(3) For the purpose of these rules, all required hand portable fire extinguishers and semiportable fire extinguishing systems are of the "B" type suitable for extinguishing fires involving flammable liquids and greases.

(4) The number designations for size start with "I" for the smallest to "III" for the largest. Sizes I and II are considered hand portable fire extinguishers and size III is considered a semiportable fire extinguishing system which shall be fitted with a suitable hose and nozzle or other practicable means so that all portions of the space concerned may be covered. Examples of size graduations for some of the typical hand portable fire extinguishers and semiportable fire extinguishing systems are as indicated in table 4.

TABLE 4

Classification		Foam, Gallons	Carbon Dioxide, Pounds	Dry Chemical, Pounds
Type	Size			
B	I	1¼	4	2
B	II	2½	15	10
B	III	12	35	20

(5) All hand portable fire extinguishers and semiportable fire extinguishing systems shall have permanently attached a metallic nameplate giving the name of the item; the rated capacity in gallons, quarts, or pounds; the name and address of the person or firm for whom approved; and, the identifying mark of the actual manufacturer.

(6) Vaporizing liquid-type fire extinguishers containing carbon tetrachloride or chlorobromomethane or other toxic liquids are not acceptable as equipment required by these rules.

(7) Hand portable or semiportable extinguishers which are required on their nameplates to be protected from freezing shall not be located where freezing temperatures may be expected.

(8) A dry chemical, stored pressure, fire extinguisher not fitted with pressure gauge or indicating device, manufactured prior to January 1, 1965, may be carried on motorboats so long as it is maintained in good and serviceable condition. The following maintenance and inspections are required for such an extinguisher:

(a) When the date on the inspection record tag on the extinguisher shows that 6 months have elapsed since the last weight check ashore, the extinguisher is not accepted as meeting required maintenance conditions until reweighed ashore and found to be in a serviceable condition and within required weight conditions.

(b) If the weight of the container is 1/4 ounce less than that stamped on the container, it shall be serviced.

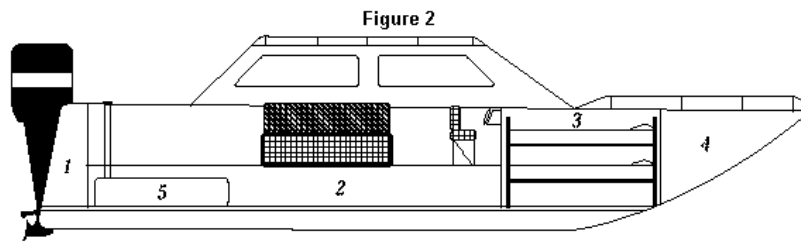
(c) If the outer seals, which indicate tampering or use when broken, are not intact, the officer shall inspect the extinguisher to see that the frangible disc in the neck of the container is intact; and if the disc is not intact, the container shall be serviced.

(d) If there is evidence of damage, use, or leakage, such as dry chemical powder observed in the nozzle or elsewhere on the extinguisher, the container shall be replaced and the extinguisher properly serviced or the extinguisher replaced with another approved extinguisher.

(9) A dry chemical, stored pressure, fire extinguisher without pressure gauge or indicating device manufactured after January 1, 1965, shall not be carried on motorboats as required equipment.

(10) When a fixed fire extinguishing system is installed, it shall be of a carbon dioxide-type approved and installed as required by the United States coast guard.

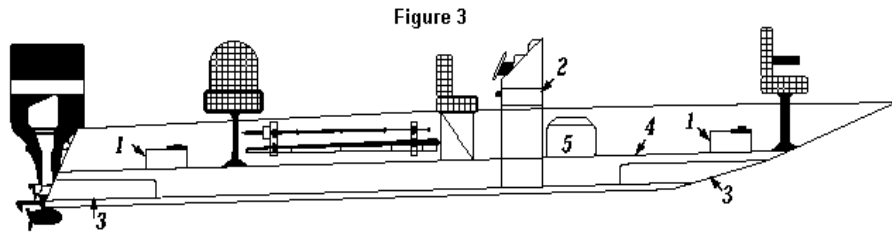
(11) The intent of these rules is illustrated in figure 2, where fire extinguishers are required if any of the specified conditions exist, and in figure 3, where specified conditions do not, in themselves, require that fire extinguishers be carried.



Fire extinguishers are required if any of the following conditions exist:

1. Closed compartment under thwarts and seats where portable fuel tanks may be stored.
2. Double bottoms not sealed to the hull or which are not completely filled with flotation material.
3. Closed living spaces.
4. Closed compartments in which combustible or flammable materials are stored.

5. Permanently installed fuel tanks.



The following conditions do not, in themselves, require that fire extinguishers be carried:

1. Bait wells.
2. Glove compartments.

3. Buoyant flotation material.
4. Open slatted flooring.
5. Ice chests.

History: 1979 AC; 2010 AACS.

### **R 281.1236 Backfire flame control.**

Rule 6. (1) Every gasoline engine installed in a motorboat after April 25, 1940, except outboard motors, shall be equipped with an acceptable means of backfire flame control.

(2) Installations made before November 19, 1952, need not meet the requirements of this rule and may be continued in use as long as they are serviceable and in good condition. Replacements shall meet the requirements in this rule.

(3) Installations consisting of backfire flame arresters bearing United States coast guard approval no. 162.015 may be continued in use as long as they are serviceable and in good condition. Replacements shall meet the requirements of this rule.

(4) Installations consisting of engine air and fuel induction systems and given United States coast guard approval no. 162.015 may be continued in use as long as they are serviceable and in good condition. Replacements shall meet the requirements of this rule.

(5) The following are acceptable means of backfire flame control for gasoline engines:

(a) A backfire flame arrester constructed in accordance with specifications of, and approved by, the United States coast guard. The flame arrester shall be suitably secured to the air intake with flame-tight connections.

(b) An engine air and fuel induction system which provides adequate protection from propagation of backfire flame to the atmosphere equivalent to that provided by an approved backfire flame arrester. A gasoline engine utilizing an air and fuel induction system, and operated without an approved backfire flame arrester shall have the installation tested and labeled in accordance with the specifications of, and approved by, the United States coast guard.

(c) Any attachment to the carburetor or the engine air induction system to ensure that flames caused by engine backfire will be dispersed to the atmosphere outside the vessel so that the flames will not endanger the vessel, persons on board, or nearby vessels and structures. All attachments shall be of metallic construction with flame-tight connections and firmly secured to withstand vibration, shock, and engine backfire. The installations do not require formal approval and labeling, but will be accepted by state and local law enforcement officers on the basis of compliance with this rule.

(d) If manufacturers produce an integrated engine-vessel design, a pre-market approval of an engine air induction system is available. An installation shall be tested and labeled in accordance with specifications approved by the United States coast guard.

History: 1979 AC; 2010 AACS.

### **R 281.1237 Ventilation.**



Rule 7. All motorboats, except open boats, the construction or decking over of which is commenced after April 25, 1940, and which use fuel having a flash point of 110 degrees Fahrenheit or less, shall have at least 2 ventilator ducts, fitted with cowls or their equivalent, for the efficient removal of explosive or flammable gases from the bilges of every engine and fuel tank compartment. There shall be at least 1 exhaust duct installed to extend from the open atmosphere to the lower portion of the bilge and at least 1 intake duct installed to extend to a point at least midway to the bilge or at least below the level of the carburetor intake. The cowls shall be located and trimmed for maximum effectiveness to prevent displaced fumes from being recirculated.

History: 1979 AC; 2010 AACCS.

**R 281.1238 Mufflers; cut outs.**

Rule 8. The exhaust of all internal combustion engines used on any waters of this state shall be muffled effectively by equipment constructed and used to muffle the noise of the exhaust of the engine in a reasonable manner. The use of cut outs, bypasses, or similar devices is prohibited, except for vessels competing in a boat race or regatta sanctioned by the department under sections 80164 and 80165 of the act. A modern device, underwater exhaust system or a system discharging cold water through the exhaust of an inboard engine, each of which is capable of muffling the noise of the exhaust of the engine in a reasonable manner, shall be considered as meeting the requirements of this rule.

History: 1979 AC; 2010 AACCS.

**R 281.1239 Associated equipment carriage requirements.**

Rule 9. Associated equipment required by these rules to be carried aboard vessels are as listed in R 281.1240 to R 281.1252 by type and length of vessel and by type of propulsion. A person shall not operate a vessel on waters of this state unless the vessel is equipped in accordance with these rules.

History: 1979 AC; 2010 AACCS.

## **OUTBOARD MOTORBOATS**

**R 281.1240 Outboard motorboats less than 16 feet in length.**

Rule 10. An outboard motorboat less than 16 feet in length shall be equipped as follows:

(a) If the motorboat is not an open boat, it shall be equipped with 2 ducts fitted with cowls or their equivalent as specified in R 281.1237.

(b) One type I, II, III, or IV coast guard-approved personal flotation device as specified in R 281.1234 in good and serviceable condition for each person aboard. The

devices shall be readily available and not encased in plastic bags or other type containers.

(c) If the motorboat is constructed so that it has decking or compartments where explosive or flammable gases may be entrapped as illustrated in figure 2, it shall be equipped with 1 BI-type coast guard approved fire extinguisher in good and serviceable condition and as specified in R 281.1235. When a fixed fire extinguishing system is installed in the machinery space, 1 less BI-type fire extinguisher is required.

(d) If underway between sunset and sunrise, the motorboat shall be equipped with an exhibit 1 white light aft, higher than the bowlight, showing all around the horizon and visible 2 miles and a combination 20 point bowlight forward, showing green to starboard and red to port, visible 1 mile, or in lieu of this requirement, may display lights as specified by the international rules of the road.

(e) If the motorboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area, a white light shall be displayed on the forward part of the motorboat to be visible to a boat approaching from any direction.

(f) With lights as specified by R 281.1233.

(g) With a muffler as specified by R 281.1238 for each motor.

History: 1979 AC; 2010 AACs.

#### **R 281.1241 Outboard motorboats 16 feet or over and less than 26 feet in length.**

Rule 11. An outboard motorboat 16 feet or over and less than 26 feet in length shall be equipped as follows:

(a) If the motorboat is not an open boat, it shall be equipped with 2 ducts fitted with cowls or their equivalent as specified in R 281.1237.

(b) One type I, II, or III coast guard-approved personal flotation device as specified in R 281.1234 in good and serviceable condition, for each person aboard, plus 1 type IV throwable device. The devices shall be readily available and not encased in plastic bags or other type containers.

(c) One hand, mouth, or power-operated whistle, capable of producing a blast of 2 seconds or more in duration, and audible for at least 1/2 mile.

(d) If the motorboat is constructed so that it has decking or compartments where explosive or flammable gases may be entrapped as illustrated in figure 2, it shall be equipped with 1 BI-type coast guard approved fire extinguisher in good and serviceable condition and as specified in R 281.1235. When a fixed fire extinguishing system is installed in the machinery space, 1 less BI-type fire extinguisher is required.

(e) If underway between sunset and sunrise, the motorboat shall be equipped with an exhibit 1 white light aft, higher than the bowlight, showing all around the horizon and visible 2 miles and a combination 20 point bowlight forward, showing green to starboard and red to port visible 1 mile or in lieu of this requirement may display lights as specified by the international rules of the road.

(f) If the motorboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area, a white light shall be displayed on the forward part of the motorboat to be visible to a boat approaching from any direction.

- (g) With lights as specified by R 281.1233.
- (h) With a muffler as specified by R 281.1238 for each motor.

History: 1979 AC; 2010 AACCS.

**R 281.1242 Outboard motorboats 26 feet or over and less than 40 feet in length.**

Rule 12. An outboard motorboat 26 feet or over and less than 40 feet in length shall be equipped as follows:

(a) If the motorboat is not an open boat, it shall be equipped with 2 ducts fitted with cowls or their equivalent as specified in R 281.1237.

(b) One type I, II, or III coast guard-approved personal flotation device as specified in R 281.1234 in good and serviceable condition for each person aboard, plus 1 type IV throwable device. The devices shall be readily available and not encased in plastic bags or other type containers.

(c) One hand or power-operated whistle, capable of producing a blast of 2 seconds or more duration and audible for a distance of at least 1 mile.

(d) If the motorboat is constructed so that it has decking or compartments where explosive or flammable gases may be entrapped as illustrated in figure 2, it shall be equipped with 2 BI-type coast guard approved hand portable fire extinguishers in good and serviceable condition and as specified in R 281.1235. 1 BII-type coast guard-approved fire extinguisher may be substituted for 2 BI types. When a fixed fire extinguishing system is installed in the machinery space, 1 less BI-type fire extinguisher is required.

(e) If underway between sunset and sunrise, the motorboat shall be equipped with an exhibit 1 white light aft, higher than the bowlight, showing all around the horizon and visible 2 miles, 1 white light forward showing 20 points and visible 2 miles, a green light to starboard showing 10 points and visible 1 mile and a red light to port showing 10 points and visible 1 mile or in lieu of this requirement may display lights as specified by the international rules of the road.

(f) If the motorboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area a white light shall be displayed on the forward part of the motorboat to be visible to a boat approaching from any direction.

- (g) With lights as specified by R 281.1233.
- (h) With a muffler as specified by R 281.1238 for each motor.

History: 1979 AC; 2010 AACCS.

**R 281.1243 Outboard motorboats 40 feet or over and not more than 65 feet in length.**

Rule 13. An outboard motorboat 40 feet or over and not more than 65 feet in length shall be equipped as follows:

(a) If the motorboat is not an open boat, it shall be equipped with 2 ducts fitted with cowls or their equivalent as specified in R 281.1237.

(b) One type I, II, or III coast guard-approved personal flotation device as specified in R 281.1234 in good and serviceable condition for each person aboard, plus 1 type IV throwable device. The devices shall be readily available and not encased in plastic bags or other containers.

(c) One power-operated whistle capable of producing a blast of 2 seconds or more duration, and audible for a distance of at least 1 mile.

(d) If the motorboat is constructed so that it has decking or compartments where explosive or flammable gases may be entrapped as illustrated in figure 2, it shall be equipped with 3 BI-type coast guard-approved hand portable fire extinguishers in good and serviceable condition and as specified in R 281.1235. One BII-type coast guard-approved fire extinguisher may be substituted for 2 BI types. When a fixed fire extinguishing system is installed in the machinery space, 1 less BI-type fire extinguisher is required.

(e) If underway between sunset and sunrise, the motorboat shall be equipped with an exhibit 1 white light aft, higher than the bowlight, showing all around the horizon and visible 2 miles, 1 white light forward showing 20 points and visible 2 miles, a green light to starboard showing 10 points and visible 1 mile and a red light to port showing 10 points and visible 1 mile, or in lieu of this requirement, may display lights as specified by the international rules of the road.

(f) If the motorboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area a white light shall be displayed on the forward part of the motorboat to be visible to a boat approaching from any direction.

(g) With lights as specified by R 281.1233.

(h) With a muffler as specified by R 281.1238 for each motor.

History: 1979 AC; 2010 AACCS.

## **INBOARD AND INBOARD-OUTBOARD MOTORBOATS**

### **R 281.1244 Inboard and inboard-outboard motorboats less than 16 feet in length.**

Rule 14. An inboard or inboard-outboard motorboat less than 16 feet in length shall be equipped as follows:

(a) One coast guard-approved backfire flame arrester as specified in R 281.1236 on each carburetor of all gasoline engines.

(b) At least 2 ducts fitted with cowls or their equivalent as specified in R 281.1237.

(c) One type I, II, III, or IV coast guard-approved personal flotation device as specified in R 281.1234 in good and serviceable condition for each person aboard. The devices shall be readily available and not encased in plastic bags or other containers.

(d) One BI-type coast guard-approved hand portable fire extinguisher in good and serviceable condition and as specified in R 281.1235. When a fixed fire extinguishing system is installed in the machinery space, 1 less BI-type fire extinguisher is required.

(e) If underway between sunset and sunrise, the motorboat shall be equipped with and exhibit 1 white light aft, higher than the bowlight, showing all around the horizon and

visible 2 miles and a combination 20 point bowlight forward, showing green to starboard and red to port visible 1 mile, or in lieu of this requirement, may display lights as specified by the international rules of the road.

(f) If the motorboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area, a white light shall be displayed on the forward part of the motorboat to be visible to a boat approaching from any direction.

(g) With lights as specified by R 281.1233.

(h) A muffler as specified by R 281.1238 for each motor.

History: 1979 AC; 2010 AACS.

**R 281.1245 Inboard and inboard-outboard motorboats 16 feet or over and less than 26 feet in length.**

Rule 15. An inboard or inboard-outboard motorboat 16 feet or over and less than 26 feet in length shall be equipped as follows:

(a) One coast guard-approved backfire flame arrester as specified in R 281.1236 on each carburetor of all gasoline engines.

(b) At least 2 ducts fitted with cowls or their equivalent as specified in R 281.1237.

(c) One type I, II, or III coast guard-approved personal flotation device as specified in R 281.1234 in good and serviceable condition for each person aboard, plus 1 type IV throwable device. The devices shall be readily available and not encased in plastic bags or other containers.

(d) One hand, mouth, or power-operated whistle, capable of producing a blast of 2 seconds or more duration, and audible for at least 1/2 mile.

(e) One BI-type coast guard approved hand portable fire extinguisher in good and serviceable condition and as specified in R 281.1235. When a fixed fire extinguishing system is installed in the machinery space, 1 less BI-type fire extinguisher is required.

(f) If underway between sunset and sunrise, the motorboat shall be equipped with an exhibit 1 white light aft, higher than the bowlight, showing all around the horizon and visible 2 miles and a combination 20 point bowlight forward showing green to starboard and red to port visible 1 mile or in lieu of this requirement may display lights as specified by the international rules of the road.

(g) If the motorboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area, a white light shall be displayed on the forward part of the motorboat to be visible to a boat approaching from any direction.

(h) With lights as specified by R 281.1233.

(i) With a muffler as specified by R 281.1238 for each motor.

History: 1979 AC; 2010 AACS.

**R 281.1246 Inboard and inboard-outboard motorboats 26 feet and over and less than 40 feet in length.**

Rule 16. An inboard or inboard-outboard motorboat 26 feet or over and less than 40 feet in length shall be equipped as follows:

(a) One coast guard-approved backfire flame arrester as specified in R 281.1236 on each carburetor of all gasoline engines.

(b) At least 2 ducts fitted with cowls or their equivalent as specified in R 281.1237.

(c) One hand or power-operated whistle, capable of producing a blast of 2 seconds or more duration and audible for a distance of at least 1 mile.

(d) One type I, II, or III coast guard-approved personal flotation device as specified in R 281.1234 in good and serviceable condition for each person aboard, plus 1 type IV throwable device. The devices shall be readily available and not encased in plastic bags or other containers.

(e) At least 2 BI-type coast guard-approved hand portable fire extinguishers in good and serviceable condition and as specified in R 281.1235. 1 BII-type coast guard-approved fire extinguisher may be substituted for 2 BI types. When a fixed fire extinguishing system is installed in the machinery space, 1 less BI-type fire extinguisher is required.

(f) If underway between sunset and sunrise, the motorboat shall be equipped with an exhibit 1 white light aft, higher than the bowlight, showing all around the horizon and visible 2 miles, 1 white light forward showing 20 points and visible 2 miles, a green light to starboard showing 10 points and visible 1 mile and a red light to port showing 10 points and visible 1 mile, or in lieu of this requirement, may display lights as specified by the international rules of the road.

(g) If the motorboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area, a white light shall be displayed on the forward part of the motorboat to be visible to a boat approaching from any direction.

(h) With lights as specified by R 281.1233.

(i) With a muffler as specified by R 281.1238 for each motor.

History: 1979 AC; 2010 AACs.

**R 281.1247 Inboard and inboard-outboard motorboats 40 feet and over and not more than 65 feet in length.**

Rule 17. An inboard or inboard-outboard motorboat 40 feet or over and not more than 65 feet in length shall be equipped as follows:

(a) One coast guard-approved backfire flame arrester as specified in R 281.1236 on each carburetor of all gasoline engines.

(b) At least 2 ducts fitted with cowls or their equivalent as specified in R 281.1237.

(c) One power-operated whistle, capable of producing a blast of 2 seconds or more duration and audible a distance of at least 1 mile

(d) One type I, II, or III coast guard-approved personal flotation device as specified in R 281.1234 in good and serviceable condition for each person aboard, plus 1 type IV throwable device. The devices shall be readily available and not encased in plastic bags or other containers.

(e) At least 3 BI-type coast guard-approved hand portable fire extinguishers in good and serviceable condition as specified in R 281.1235. 1 BII-type coast guard-

approved fire extinguisher may be substituted for 2 BI types. When a fixed fire extinguishing system is installed in the machinery space, 1 less BI-type fire extinguisher is required.

(f) If underway between sunset and sunrise, the motorboat shall be equipped with an exhibit 1 white light aft, higher than the bowlight, showing all around the horizon and visible 2 miles, 1 white light forward showing 20 points and visible 2 miles, a green light to starboard 10 points and visible 1 mile, and a red light to port showing 10 points and visible 1 mile or, in lieu of this requirement, may display lights as specified by the international rules of the road.

(g) If the motorboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area, a white light shall be displayed on the forward part of the motorboat to be visible to a boat approaching from any direction.

(h) With lights as specified by R 281.1233.

(i) With a muffler as specified by R 281.1238 for each motor.

History: 1979 AC; 2010 AACS.

## **SAILBOATS AND OTHER TYPES OF BOATS**

### **R 281.1248 Sailboat without motor less than 16 feet in length.**

Rule 18. A sailboat without a motor and less than 16 feet in length shall be equipped as follows:

(a) One type I, II, III, or IV coast guard approved personal flotation device as specified in R 281.1234 in good and serviceable condition for each person aboard. The devices shall be readily available and not encased in plastic bags or other containers.

(b) If underway between sunset and sunrise, the sailboat shall be equipped with a lantern showing a white light which shall be readily available and shall be exhibited to a boat approaching from any direction in sufficient time to prevent collision.

(c) If the sailboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area, a white light shall be displayed on the forward part of the sailboat to be visible to a boat approaching from any direction.

History: 1979 AC; 2010 AACS.

### **R 281.1249 Sailboat without motor 16 feet or over in length.**

Rule 19. A sailboat without a motor and 16 feet or over in length shall be equipped as follows:

(a) One type I, II, III, or IV coast guard approved personal flotation device as specified in R 281.1234 in good and serviceable condition for each person aboard, plus 1 type IV throwable device. The devices shall be readily available and not encased in plastic bags or other containers.

(b) If underway between sunset and sunrise, the sailboat shall be equipped with a lantern showing a white light which shall be readily available and shall be exhibited to a boat approaching from any direction in sufficient time to prevent collision.

(c) If the sailboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area, a white light shall be displayed on the forward part of the sailboat to be visible to a boat approaching from any direction.

History: 1979 AC; 2010 AACS.

### **R 281.1250 Sailboat with motor.**

Rule 20. A sailboat with a motor shall be equipped as follows:

(a) Personal flotation devices, backfire flame arresters, ventilation ducts and cowls, fire extinguishers, whistles, bells, and mufflers, as required by these rules for motorboats of the same length.

(b) If underway between sunset and sunrise, the sailboat shall be equipped with and exhibit navigation lights as required by these rules for motorboats of the same length, except the following:

(i) A sailboat 26 feet or over in length under sail alone on the Great Lakes and waters connected thereto between sunset and sunrise shall be equipped with and exhibit a green light to starboard showing 10 points and visible 1 mile, a red light to port showing 10 points and visible 1 mile, and a lantern showing a white light which shall be readily available and shall be exhibited to a boat approaching from any direction in sufficient time to prevent collision.

(ii) If the sailboat is anchored between sunset and sunrise on the Great Lakes or waters connected thereto and not in a special anchorage area, a white light shall be displayed on the forward part of the sailboat to be visible to a boat approaching from any direction. In lieu of these lighting requirements sailboats may display lights as specified by the international rules of the road.

History: 1979 AC; 2010 AACS.

### **R 281.1251 Rowboats.**

Rule 21. (1) A rowboat shall be equipped with personal flotation devices as required by these rules for a motorboat of the same length.

(2) If underway between sunset and sunrise a rowboat shall be equipped with a lantern showing a white light which shall be readily available and shall be exhibited to a boat approaching from any direction in sufficient time to prevent collision.

History: 1979 AC; 2010 AACS.

### **R 281.1252 Canoes and kayaks.**

Rule 22. (1) A canoe or kayak shall be equipped with 1 type I, II, III, or IV coast guard approved personal flotation device as specified in R 281.1234 in good and serviceable



condition for each person aboard. The devices shall be readily available and not encased in plastic bags or other type containers.

(2) If underway between sunset and sunrise a canoe or kayak shall be equipped with a lantern showing a white light which shall be readily available and shall be exhibited to a boat approaching from any direction in sufficient time to prevent collision.

History: 1979 AC; 2010 AACS.