2023

### **Providence College**

### Small Boat Safety Manual

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#### PROVIDENCE COLLEGE SMALL BOAT SAFETY MANUAL

#### **1.0 OVERVIEW**

#### 1.1 Purpose

Small boat operations involve certain risks that must be understood and addressed prior to beginning any time on the water. This Small Boat Safety Manual (the Manual) has been prepared to prevent the loss of life, personal injury, property damage, and environmental impacts that may be associated with both educational and recreational boating activities. It is imperative that all individuals spending time on the water understand their equipment, the rules of the water and road, and the effects of weather conditions.

The purpose of this Manual is to establish good boating practices under the auspices of Providence College (PC), to ensure that all PC-sanctioned boating activities are conducted in a reasonably safe and efficient manner, and to familiarize participants with the basic procedures that affect their own safety and the safety of others.

All PC small boat operators are required to understand and observe the guidelines and rules of this document. All boats and equipment used by authorized PC operators in United States waters, regardless of ownership, will conform to the standards set forth in this Manual and Rhode Island Department of Environmental Management (RIDEM) and United States Coast Guard (USCG) requirements, in addition to the requirements of the applicable state or local jurisdiction should the vessel leave Rhode Island waters.

#### **1.2 Contents**

This Manual contains policies and procedures for all boating operations. This includes:

- 1. Policies and procedures that pertain to all PC boating operations.
- 2. Administrative procedures for conducting PC small boat activities.
- 3. Equipment and maintenance recommendations.
- 4. Reporting guidelines.

#### 1.3 Applicability

This Manual applies whenever PC faculty, staff, or students are using powered or sailing vessels under auspices of PC's operations and educational and recreational programming, whether or not the boat is owned by PC.



For the purposes of this Manual, a small boat is any boat less than 26 feet in length (US Coast Guard Class 1 and smaller). In order to be approved for use by PC personnel, a small boat must be numbered in accordance with the regulations of the State of Rhode Island or in accordance with applicable Federal Law or with a federally-approved numbering system of another State. Small boats used under PC auspices may fall into three categories:

- 1. Boats owned by PC and maintained by individual PC programs (e.g., Department of Biology, Recreational Sports, etc.).
- 2. Privately-owned boats used for PC research.
- 3. Vessels chartered by PC personnel for the purpose of conducting research or education or college-sanctioned recreation.



#### 2.0 RESPONSIBILITY

#### 2.1 Small Boat Safety Committee (SBSC)

The PC Small Boat Safety Committee is responsible for recommending changes to this Small Boat Safety Manual and for general oversight of the small boat operations at PC, including reviews of incidents involving injury or loss/damage to equipment. The PC SBSC will also make recommendations to applicable responsible division heads for appropriate sanctions in the case of recurring incidents and/or blatant disregard of safety policies and procedures.

In the case of programs requesting to use non-PC-owned equipment, requests will be made to the SBSC, which will review the equipment specifications along with damage and liability insurance coverage in consultation with the Office of the General Counsel. The SBSC will maintain the list of PC-owned and insured boats and associated trailers through the Office of the General Counsel.

Membership in the SBSC will consist of faculty from departments in which open water research is conducted and staff representatives from the Legal, Public Safety/Emergency Management, and Environmental, Health, and Safety (EHS) departments. The Chair of the SBSC will be the EHS Director.

#### 2.2 Principal Investigators

Principal Investigators (research) will assure that all small boat operations that are part of a program under their direction are conducted in accordance with this Manual. Principal Investigators are responsible for the implementation and enforcement of the safety requirements of this plan for all activities on the water, as well as the required activities before and after the time spent on the water. It is required that any Principal Investigators who operate boats, either owned by college- or privately-owned and used for PC research, meet all safety standards required by the Rhode Island Department of Environmental Management (RIDEM) and the United States Coast Guard (USCG). Principal Investigators are responsible for ensuring that all boat passengers are briefed on safety and emergency response procedures.

#### 2.3 Boat Operator

Individuals must apply to the PC SBSC for authorization as a "boat operator" using the Statement of Responsibility Form included as Appendix A. Only PC individuals shall be designated as boat operators on PC-owned or rented vessels. PC students, who are at least 19 years old and in sophomore enrollment status, who otherwise meet the requirements of this Manual, may be authorized as a Boat Operator in the discretion of the PC SBSC and provided they are accompanied by a PC employee, who is an authorized Boat Operator under this



Manual, during any boating activity.

The designated boat operator is responsible for all aspects of boating operations and safety, regardless of the presence of senior staff or faculty in the boat. These responsibilities include, but are not limited to:

- The safe navigation of the vessel to and from the site(s) of operation.
- The safe operation of all equipment, either in the collection of data or the handling of the vessel.
- Safe transport of the vessel to and from the launch site.
- Ensuring that all required operational and safety equipment is on board before getting underway and properly stowed upon return.
- Enforcing safe behavior of all persons on board, including the wearing of USCGapproved Personal Flotation Devices (PFDs) at all times on the water.
- Acquainting all passengers with safety equipment, its proper use, potential hazards, and an emergency plan before departure.

Non-compliance with this Manual must be reported to the PC SBSC for review.

Any operator may deviate from the requirements of this Manual to the extent necessary to prevent or minimize a situation that is likely to cause death, serious physical harm, or major environmental damage. A written report of such actions must be submitted within 24-hours to the PC SBSC explaining the circumstances and justifications.

#### 2.4 Passengers

Passengers are required to comply with this Manual as it pertains to them. The boat operator is in charge at all times. Passengers are required to wear USCG-approved PFDs at all times on the water. The safety guidelines should not be deviated from unless a specific situation has occurred where following a guideline could cause injury – this decision should be made by the boat operator. If any passenger does not feel the weather or conditions of the vessel or environment are safe, it is their right and responsibility to inform the boat operator and not participate in the boating activity. The passenger also has the right to report unsafe conditions during the activity or after the fact to the SBSC for review.



#### **3.0 ADMINISTRATIVE PROCEDURES**

The regulations in this Manual must be observed wherever small boat operations are carried out under the auspices of PC. All operators must follow the provisions of the Manual and all equipment used must conform to RIDEM and USCG regulations, and, as applicable, any other state or municipal rules and regulations depending upon the location of the activity. If participating in a water activity in a vessel not owned by PC, the boat operator must also follow the policies of the owning body.

#### 3.1 Operating Areas

The regulations be observed at all locations where boating operations are conducted under the auspices of the PC. Operators are responsible for knowing and complying with all local requirements and regulations for both equipment and operator licensing, as well as RIDEM and USCG regulations.

#### 3.2 Boat Operators

Boat operators must have and demonstrate basic knowledge and competencies for handling the vessel they intend to use in the expected environment and conditions or their time on the water. Anyone operating a vessel **powered by a motor of more than 10 horsepower** must pass an approved boater education course; proof of this completion must be carried by each operator on board all qualifying vessels and be provided to the PC SBSC. An operator that holds a valid, current commercial vessel operator's license is exempt from this requirement.

All boat operators are required to read and understand the USCG small boat requirements and RIDEM boating safety material included in Appendix B.

All boat operators are required to review the required pre-use vessel safety checks, basic startup and underway procedures, navigation rules, incident response and man-overboard rescue procedures, mooring and anchoring procedures, and basic knot methods.

Departments and boat owners may set additional requirements for the use of their vessels.



#### **4.0 EQUIPMENT AND PROCEDURES**

#### 4.1 Vessel Requirements

All PC watercraft must comply with USCG and RIDEM regulations, including boater education course requirements.

All boats used by PC personnel are required to have an installed data plate that designates the number of people and weight capacity according to the manufacturer's specifications. It is the responsibility of the boat operator to stay within these limits and to have all weight evenly distributed so that the boat will be trimmed properly. Any modifications to a vessel, such as the addition of a platform designed for specific research needs, must be reviewed and approved by the SBSC.

#### 4.2 Equipment

All operators and passengers of watercraft must wear a US Coast Guard-approved, noninflatable personal flotation device (PFD) at all times on the water.

All operators must carry a USCG-approved first aid kit for water operations.

Motorized watercraft must be equipped with an USCG B-1 handheld fire extinguisher.

Watercraft must be equipped with communication equipment. Motorized equipment must have a Marine VHF radio, while the non-motorized club boats can be served by the radio on the operator's vessel. It is recommended that all watercraft operators and passengers have a functioning cell phone. All watercraft must have a safety whistle, or equivalent sound distress signal such as a fog horn, onboard.

The operator shall be familiar with the operation of the equipment and shall inspect all emergency equipment prior to departure. Special attention should be given to PFDs and communication equipment (radios and cell phones). He/she shall notify the boat owner SBSC of any malfunctioning equipment used during their operation.

#### 4.3 Float Plan

All boat operators must file a float plan with the SBSC Chair prior to any water activities. The minimum requirements for a float plan are:

1. The boat being used;



- 2. The planned date, time and place of departure;
- 3. The planned date, time and place of return;
- 4. The site(s) of operation;
- 5. The Principal Investigator (if research trip);
- 6. The names and affiliation of all people on board;
- Means of Communication (i.e., cell phone number(s) and/or VHF working frequency);
- 8. Safety equipment on board; and
- 9. Emergency contact information for people on board.

Appendix C is a USCG Float Plan that may be used for PC boating operations.

#### 4.4 Communications

Scheduled check-ins by cell phone and/or radio communications shall be maintained between boat operator and their shore contact. To initiate any change in an approved float plan, the shore contact must be notified and changes confirmed. If the boat operator is unable to notify the shore contact, the boat operator must adhere to the filed float plan. Failure to maintain scheduled radio communications (within one-half hour) may cause initiation of USCG Search and Rescue procedures.

The shore contact shall be notified by phone or in person upon completion of work. Notice of return is required within one hour after the scheduled time of return. If shore-based contact is not made, procedures for USCG action may be initiated. Vessel operators and shore contacts shall take into account the limited VHF radio and cell phone coverage in coastal waters.

#### 4.5 Weather

Use of any boat is always contingent upon weather conditions. Responsibility for monitoring weather conditions prior to departure and during operations resides with the operator. When small craft advisories are issued by the National Weather Service for the waters of a planned operation or experiment, boats that are scheduled for operations within that area should postpone their operations until more favorable conditions prevail.

#### 4.6 Safety Checks

#### 4.61 Prior to Departure

The boat operator shall:



- 1. File the Float Plan with the designated onshore responsible person.
- 2. Perform a functional inspection of the boat and all equipment. Appendix D is a Vessel Safety Checklist.
- 3. Assess all environmental risks weather conditions and sea conditions.
- 4. Inform all passengers of emergency procedures man-overboard, fire, and abandonment and the appropriate methods for seeking assistance.
- 5. Inform all passengers of the location of emergency equipment.
- 6. Inform all passengers of additional hazards and appropriate precautions for the particular environment, weather, and objectives of the operation.

#### 4.62 During Trailering

During trailering operations, the operator shall:

- 1. Carefully inspect the trailer before use. All tires, lugs, hubs, lights, hitches, and safety chain connections must be inspected before use.
- 2. The boat must be securely attached to the trailer and secondary straps and lines used to prevent shift during transport; lines must be secured so as to not become caught in a trailer wheel.
- 3. Double check the following connection items:
  - a. The hitch is secure and the lock/pin is in place.
  - b. The trailer chains are crossed under the hitch and secured so that the end of the hook is facing the boat.
  - c. The emergency brake cable is secured to the vehicle with the end of the hook facing the boat.
  - d. All trailer lights are functioning properly.
  - e. All tires are properly inflated, including the spare tire that must be present.
- 4. All antennae and equipment that extend vertically must be lowered during trailering to prevent snagging and damage.
- 5. A spotter must be used outside of the trailering vehicle and within the driver's sight at all times, whether the trailer is loaded or not.

The trailer should be inspected at every stop. If any indication is noted that there is something wrong with the trailer or boat, the driver must pull over as soon as safely possible to perform a safety check. Only drivers authorized to operate PC vehicles are allowed to use PC trailers in accordance with the PC Motor Vehicle Use Policy. Any issues with the trailer or equipment must be reported immediately to the SBSC for arranging repairs.

#### 4.63 Launching

Before backing the trailer into the water, the boat operator must check the following items:

1. The drain plug is installed, if applicable.



- 2. The securing straps on the back of the boat have been removed.
- 3. Disconnect the trailer lights.
- 4. The battery switch has been turned on, if applicable.
- 5. The fuel switch is in the on position, if applicable.
- 6. The trailering lock is off, if applicable.
- 7. The tilt support lever is up. Motors are up and ready to be lowered.
- 8. All gear has been loaded into the boat and properly secured.

Once the boat has been backed into the water to the point of buoyancy, lower the motor and start is before releasing the boat from the trailer. Allow the engine to warm up briefly and check for signs of stalling or improper functioning.

#### 4.64 While Underway

It is required that all operators and passengers will follow the requirements of this Manual and the boating navigation rules during all operations. This includes, but is not limited to, appropriate and safe behavior, PFD usage, and acting as representatives of PC while on the water and in transit.

Be advised that USCG personnel, RIDEM Conservation Officers or analogous authorities in other state waters, harbormasters, and police officers all have the authority to stop and board any vessel within their respective jurisdiction.

#### 4.65 Retrieving

The boat operator must consider wind and current conditions at the approach to the trailer. Once the boat is on the trailer, secured by the winch, and security chain is pulled up, the boat operator must do the following:

- 1. Secure the rear of the boat with the straps.
- 2. Raise the engine, lower the trailering lock, and lower engine into the locked position.
- 3. Remove drain plugs.
- 4. Secure all loose lines and gear.
- 5. Turn off battery and fuel switches.
- 6. Lower any antennae or objects that project above the boat.

#### 4.66 After Returning

The boat operator shall:

- 1. Check in with shore contact person upon return.
- 2. Use fresh water to thoroughly rinse the boat and trailer to remove all mud, debris, and vegetation.
- 3. Shut down all electronics.



- 4. Remove all personal items, research-related items, and trash from the boat.
- 5. Properly stow all safety equipment and dedicated equipment.
- 6. Note any problems with the boat or equipment that occurred, and inform the responsible department within 24 hours.



#### **5.0 WEATHER MONITORING**

Each program is responsible for monitoring weather for their program. Reliable weather conditions can be obtained through the National Oceanic and Atmospheric Administration (NOAA), the National Weather Service (NWS), and the US Coast Guard (USCG) VHF Channels 16 and 22. The following details types of weather warnings and watches to understand and the procedures for determining operations.

#### 5.1 Small Craft Warnings

A small craft warning is issued by the National Weather Service when winds have reached, or are expected to reach within 12 hours, 25 to 28 miles per hour (mph) and/or waves are expected to reach heights of four feet or greater.

In the event of a small craft warning, any recreational boating will be cancelled; if a small craft warning is received while on the water, the Boat Operator will return to dock as soon as possible. Research trips may be allowed to occur during small craft warnings, depending on the experience of the boat operator and the type and size of the vessel. This determination will be made through the SBSC. A small craft advisory during a marine operation will require the Boat Operator to assess the weather conditions and vessel sea worthiness during the trip. It is recommended that research operations be completed as soon as possible and the vessel returned to shore.

#### 5.2 Gale Warnings

A gale warning is issued by the National Weather Service when winds are present or expected at 39 to 54 mph or when gale-force winds are imminent at sea.

No research or recreational PC-sponsored marine activities will occur during gale warnings. Any gale warning received during operations will require immediate return to dock.

#### 5.3 Storm Watch

A storm watch is issued by the National Weather Service when conditions are favorable for the development of dangerous weather patterns (e.g., hurricanes, tornadoes, and severe thunderstorms), but the dangerous condition is not currently present.

PC-sponsored research and recreational marine activities are not permitted during storm watch conditions.

#### 5.4 Storm Warnings

Storm warnings are advisories issued by the National Weather Service to warn of occurring,



approaching, or high-probability dangerous weather.

PC-sponsored research and recreational marine activities are not permitted during storm warning conditions. Any storm warning received during operations will require immediate return to dock.

#### 5.5 Tropical Storm/Hurricane Watch and Warnings

A tropical storm is an organized, low-pressure system with a defined circulation and with sustained winds between 39 and 73 mph. A tropical storm watch is issued by the National Weather Service when tropical storm conditions are possible within 36 hours. A tropical storm warning is issued when conditions are expected within 24 hours or less.

A hurricane is an intense tropical weather system with a well-defined circulation and sustained wind speed exceeding 73 mph. A hurricane watch indicates a potential hurricane within the next 24 to 36 hours. A hurricane warning indicates an hurricane strike within the next 24 hours.

PC-sponsored research and recreational marine activities are not permitted during tropical storm/hurricane watch or warning conditions. Any tropical storm/hurricane watch or warning received during operations will require immediate return to dock.



#### 6.0 COMMUNICATION SYSTEMS

The following systems provide redundancy and function across varying technologies to ensure safety of all PC faculty, staff, and students involved in PC boating activities.

#### 6.1 Safety Whistle

All non-motorized vessels will be equipped with a safety whistle. Safety whistles will be tested prior to every use on the water. In the event of a water emergency, the vessel user will signal distress with repeated short blasts of the whistle. It is the responsibility of all vessel operators to respond to a safety whistle signal while on the water.

#### 6.2 Marine VHF Radio

Marine VHF radios are intended for short-range communications (e.g., within 5-10 nautical miles) and USCG station communications up to 20 nautical miles. VHF Channel 16 (156.800 MHz) is reserved worldwide for distress communications.

Each powered vessel must be equipped with a VHF marine radio, and that radio must be maintained on Channel 16 when not in other active communications. USCG announces storm warnings, weather advisories, and other urgent messaging on Channel 16.

#### **6.3 Emergency Call Procedures**

It is important to understand and use proper radio/telephone call procedures to expedite rescue and emergency response. All boat operators must be familiar with call procedures. When calling in an emergency, the caller must never be the first person to end the call, so that the responder can receive all needed information during the call.

On a VHF marine radio, Channel 16 is the emergency channel. Radios must be left tuned to this channel at all times, with the exception of necessary communications on another channel. In the event of an emergency, Channel 16 communications must proceed as follows:

- 1. Distress signal "MAYDAY" is spoken three times.
- 2. The words "THIS IS" spoken once.
- 3. Name of vessel in distress, spoken three times, and boat registration number, spoken once.
- 4. Repeat "MAYDAY" and name of vessel, spoken once.
- 5. Give position of latitude and longitude or by bearing (true or magnetic and state which) and distance to a well-known landmark such as a navigational aid or small island. If these references are not available, use any terms that will assist a responder in locating



the vehicle in distress. Include information on vessel travel, such as course, speed, and destination.

- 6. State nature of distress (e.g., sinking, fire, etc.).
- 7. State the kind of assistance that is required.
- 8. Indicate the number of persons onboard.
- 9. Provide any other information that might facilitate rescue, such as length of vessel, persons needing medical attention, color hull, etc.
- 10. The word "OVER."
- 11. Repeat at regular intervals until an answer is received.

Stay by the radio if possible. Responders can find a vessel more quickly if a signal is transmitting.

Appendix E is a reference guide for call procedures that may be printed and mounted for emergency use.



#### 7.0 EMERGENCY ACTION PLAN

This section describes actions to be taken in the event of an incident while participating in waterfront activities. The goals of these steps are to:

- Prevent further deterioration of conditions.
- Ensure the safety of those participants not immediately involved in the incident.
- Ensure that victims are given appropriate care in a timely and effective manner.

#### 7.1 Priorities During an Emergency

#### The safety and welfare of water users, not equipment, is the number one priority.

- All injured persons on the water will return to the shore.
- Boats can be left and recovered when convenient.
- Protect victims from further harm and make sure lives are not at risk.
- Provide life-sustaining aid, if required. Ensure no other injuries occur. Try to prevent well-intentioned, but untrained, people from doing more harm than good by moving injured persons unnecessarily.

#### People not involved in the incident should not be put at risk.

• Do not let the incident distract from the health and safety of all people on the water.

#### Determine which emergency services are required.

• On the water: Marine VHF standby and hailing on **Channel 16**.

#### 7.2 Staff Onsite at the Time of the Incident

Any Providence College personnel present during an incident, but not directly involved, should attempt to complete the following action items:

- Assess nature of incident and determine whether or not it is life-threatening.
- Assist in getting other watercraft users in the area on shore or to another area of the water, away from the incident area.
- Assist in rescue, if necessary and properly trained.
- Provide response assistance, such as CPR or first aid, if necessary and properly trained.
- Contact emergency responders if others are incapable of doing so.
- Collect information on incident and impacted people to provide to emergency responders and for incident reporting, after the incident has been addressed.

#### 7.3 Weather Emergencies

As discussed in Section 5.0, it is the responsibility of the boat operator to monitor weather



conditions prior to launch and during all operations underway. Weather can change rapidly. Channel 16 on the marine radio will receive emergency weather updates. Impending severe weather will require the immediate return to shore and suspension of all water operations.

If caught in severe weather, the boat operator must prepare the vessel and passengers for those conditions using the following procedures:

- Slow the vessel speed, but keep enough power to maintain headway and steering.
- Close all hatches, windows, and doors to reduce the chance of swamping.
- Stow any unnecessary gear.
- Turn on navigational lights and sound fog horn, if applicable.
- Keep bilges free of water. Be prepared to bail to remove water if necessary.
- If there is lightning, disconnect all electrical equipment. Steer clear of metal objects.
- Ensure all passengers are wearing their PFD.
- Move passengers to sit on the vessel floor close to the centerline of the boat for safety and stability.
- If possible, head for the nearest shore that is safe to approach. However, it may be safest to ride out the storm if a vessel is caught in it.
- Head the bow into waves at a 45-degree angle.
- If the engine stops, drop a sea anchor to keep the bow headed into the wind. A bucket can serve as an anchor in an emergency. If insufficient, the conventional anchor may be used to prevent drifting and swamping.

#### 7.4 Other Boating Emergencies

#### 7.4.1 Person Overboard

In order to prevent person overboard incidents while boating, it is important for the boat operator and passengers to not sit on any vessel surfaces not designed for seating, such as the gunwale, bow, seat backs, or motor cover. Pedestal seats should only be used for sitting when the boat is underway at idle speed or less. Occupants should not stand up in or move about the vessel while it is underway. Occupants should also not lean out of the boat.

A person overboard may also be the result of swamping or capsizing. The risk of these incidents can be reduced by not overloading a boat, slowing it appropriately when turning, anchored by the bow, and avoiding boating in rough water or bad weather.

To respond to a person overboard:

- Reduce vessel speed.
- Toss the victim a throwable PFD.
- Turn the boat around and slowly pull alongside the victim. Approach should be from



downwind or into the current, whichever is stronger.

- Turn off the engine.
- Pull the victim aboard over the stern with the intent of keeping the weight in the boat balanced.

If the operator has gone overboard, they should stay with the boat and attempt to reboard, or climb on top if it has capsized.

#### 7.4.2 Cold Water Immersion

The effects of cold water immersion and hypothermia can occur in water that is less than 60° Fahrenheit. If a person falls overboard in cold water, response time is especially critical. Victims who fall overboard suffer initial cold water shock in the first minute, which causes hyperventilation. This can be especially dangerous if the victim is unable to keep their head above water, as the involuntary deep breaths can cause water inhalation and drowning. After the first few minutes, the second stage of cold water immersion causes cold incapacitation, also called swim failure, where a victim is unable to control their muscles. Finally, hypothermia is the final state of cold water immersion. In hypothermia, victims may experience exhaustion, loss of muscle response, confusion, and slurred speech.

If a victim falls overboard in cold water conditions, the following may reduce the risks and effects of cold water immersion:

- Wearing a PFD can reduce the dangers associated with first and second state cold water immersion by keeping the head above water and reducing the requirement for active swimming to keep afloat.
- Dress in several layers of clothing under the PFD when the water temperature is cold, or wear a wet/dry suit.
- If a person does go overboard, instruct them to keep as much of their body out of the water as possible by hugging their knees into their chest.
- A person overboard should stay with the boat.
- A person overboard should not thrash or move excessively.
- If several people are overboard, instruct them to huddle together with arms around each other's shoulders.

Following any cold water immersion incident, victims must seek medical attention upon rescue and as soon as possible following a return to shore.



#### 8.0 RECORD KEEPING AND INCIDENT REPORTING

#### 8.1 Program Approval

All new PC programs involving watercraft, and any significant changes to existing programs, must be reviewed and approved by the PC Office of Environmental, Health, and Safety and the SBSC. This review will ensure safety protocols and procedures are in place prior to program activation.

#### 8.2 Routine Records

The designee (i.e. departments owning boats, individual owners of boats, etc.) shall keep a file of usage for all boats, including a log of scheduled and unscheduled maintenance for each boat, boat trailer, and outboard engine.

The SBSC will maintain records of incident reports and copies of operator forms and certifications.

#### 8.3 Incident Reporting

All incidents, including injuries, damage to vehicles or vessels, and near misses, involving boats must be reported to the SBSC and PC Office of Public Safety and to the department to which the program belongs for review within 48 hours of the incident. The RIDEM Rhode Island Boating Accident Form (Appendix F) must be used to report all incidents to the SBSC. The SBSC shall investigate and document the accident and related personal injury and/or property damage and prepare a report with recommended further action for submittal to EHS and the applicable department head.

Any incident involving personal injury or fatality of PC faculty or staff must also be reported to PC Human Resources and PC Office of Public Safety *immediately* following incident resolution. The On-the-Job Injury form, for Human resources reporting, is included as Appendix G.

Any incident involving personal injury or fatality of a student must also be reported to the governing department and PC Office of Public Safety *immediately* following incident resolution via the form in Appendix H and to EHS within 24 hours of the incident.

In addition, if the incident meets the following criteria, SBSC will report the incident to RIDEM within five days of the incident:

- Loss of life or disappearance from a vessel.
- Injury to any person that requires medical treatment beyond ordinary first aid. This includes ambulance/first responder calls or emergency room/urgent care visits.
- Complete loss of a vessel.



APPENDIX A

BOAT OPERATOR STATEMENT OF RESPONSIBILITY FORM



#### **APPENDIX A**

#### **BOAT OPERATOR**

#### STATEMENT OF RESPONSIBILITY

I understand that as a designated boat operator, I am responsible for all aspects of boating operations, regardless of the presence of any senior staff or faculty in the boat.

These responsibilities include, but are not limited to:

- Safe navigation of the vessel to and from the site(s) of operation
- Safe operation of all equipment
- Safe transport of the vehicle to and from the launch site(s)
- Insuring that the vessel is in proper working order prior to use
- Insuring that all operational and safety equipment are on board
- Enforcing safe behavior of all persons on board.

I have thoroughly read and understand the contents of the Small Boat Safety Manual and agree to follow all procedures therein.

Boat Operator Printed Name

Date

**Boat Operator Signature** 



APPENDIX B

#### USCG AND RIDEM BOATING REQUIREMENTS

### Rhode Island Department of Environmental Management Environmental Police



Rhode Island Specific Boating Statutes & Regulations

## **Statutes and Regulations**

• R.I.G.L. Title 46-Waters & Navigation

http://www.rilin.state.ri.us/Statutes/TITLE46/INDEX.HTM

This Title establishes law on the regulation of boats, laws regarding boating and alcohol and laws regarding Personal Watercraft (PWC) operation

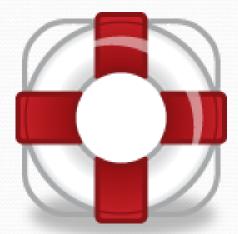
• DEM Rules and Regulations Promulgated in 2014 <u>http://www.dem.ri.gov/pubs/regs/regs/enforce/boats14t.pdf</u> These Rules and Regulations Incorporate:

- The international/inland rules for vessels operating on the water of the state.
- Additional boating regulations with regards to safety equipment

### **Personal Flotation Devices**

- This regulation applies to all vessels used on all RI waters. Only exemptions are racing vessels engaged in sanctioned races or practicing within 48 hours of a sanctioned race.
- There are now only <u>two types</u> of Personal Floatation Devices
  - WEARABLE PFD-PFD intended to be worn or otherwise attached to the body & used in accordance to specifications and limitations on the USCG label
  - **THROWABLE PFD**-PFD intended to be thrown to a person in the water & used in accordance to specifications and limitations on the USCG label. *\*Wearable can not be used as a throwable.*





### State P.F.D Requirements

- <u>All</u> vessels must have at least one Wearable PFD for each person on board
  - Includes canoes and kayaks, kiteboards, sailboards & paddleboards
- Vessels 16' or longer must have at least one Throwable PFD
  - Exempted: canoes and kayaks, kiteboards, sailboards & paddleboards
- RI Law requires all children under 13 years of age to wear a USCG approved PFD while underway in a vessel less than 65' unless below deck or in an enclosed cabin.

### State PFD Requirements Cont.

- **STOWAGE**-All PFDs MUST be readily accessible
  - <u>Readily Accessible</u> defined as being visible to the operator and passengers and/or easy to gain access to in the event of an emergency
- **CONDITIONS, APPROVAL & MARKING-**All PFDs must be in serviceable condition, legibly marked with USCG approval, of the appropriate size for person it is intended
  - <u>Serviceable Condition</u> defined as all straps, hardware, cover, floatation material in undamaged condition

# **Fire Extinguishers**

- Regulation applies to all motorboats/ motor vessels
- Must be type "B"
- USCG approved
- Good Serviceable Condition
- Readily Accessible
- Required Amount Onboard
- Exemptions: motorboat w/ outboard motor & open construction (construction does not permit entrapment of gases)



### **Fire Extinguishers**

Less than 26ft 1 BI
26ft < 40ft 2 BI or 1 BII</li>
40ft up to 65ft 3 BI or 1 BI & 1 BII



• Fixed system substitutes 1 BI



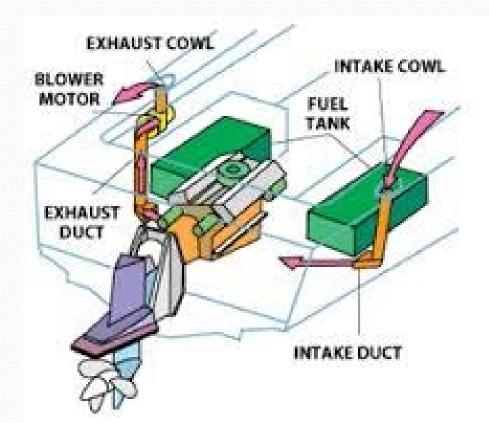
### **Backfire Flame Arresters**

- Approved by USCG
  Marked according to 46 CFR 162
- Maintained in serviceable condition



## Ventilation

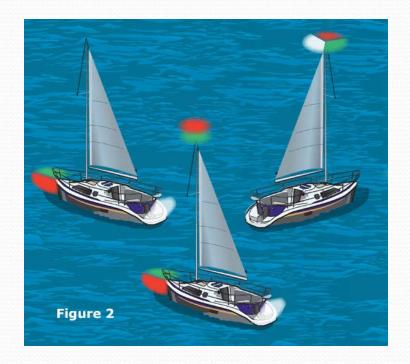
- Required on all motorboats or motor vessels, except open boats, the construction or decking over of which is commenced after April 25, 1940, and which use fuel having a flash-point of 110 degrees Fahrenheit or less.
- The vessel shall have at least 2 ventilator ducts fitted with cowls or their equivalent, for the efficient removal of explosive or flammable gasses from the bilges of every engine and fuel tank compartment.
- There shall be at least one exhaust duct installed so as to extend from the open atmosphere to the lower portion of the bilge and at least one intake duct installed so as to extend to a point at least midway to the bilge or at least below the level of the carburetor air intake.
- The cowls shall be located and trimmed for maximum effectiveness and in such a manner so as to prevent displaced fumes from being re-circulated.



# **Navigation Lights**

• Rhode Island Regulations mirror Federal Regulations





# **Sound Signal Devices**

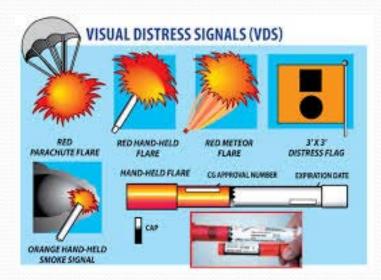
- Vessels 65.6 ft to 328.1 ft (20-100 meters)
  - Whistle & Bell audible for 1 nautical mile
- Vessels 39.4 ft to 65.6 ft (12-20 meters)
  - Whistle audible for ½ nautical mile
- Vessels less than 39.4 ft(12 meters)



- Some means of making an efficient sound signal capable of a 4 second blast.
- This regulation includes canoes, kayaks, sailboards, kiteboards, and paddleboards
- Vessels over 328.1 ft (100 meters)
  - Whistle, Bell & Gong where tone of gong and bell must be different. Electronic version of bell and gong can be used as long as manual signal is always possible.

### **Visual Distress Signals**

- Applies to vessels used on COASTAL waters of this State
- Vessels 16ft or > must have 3 day use and 3 night use OR 3 day/night
- Vessels < 16ft must carry 3 devices suitable for night when operating between sunset and sunrise
- Exempted vessels: vessels engaged in a race or practice & sailboat < 26ft w/ open construction and no motor
- VDS must be readily accessible and in serviceable condition
- NOTE: Expired flares can be carried on board as extra equipment



### **Uniform State Waterway Marker System**

- DEM is authorized to make rules for the marking of water areas through the placement of navigation aids or regulatory markers.
- It is unlawful to operate a vessel in a manner other than prescribed or permitted by a navigation aid/regulatory marker(i.e. No Wake, Swim Area)
- It is unlawful to moor or fasten to a navigational aid/regulatory marker or to willfully damage, tamper, remove, obstruct or interfere with



## Diving, Skin Diving and Snorkeling

- Dive flag required
- 12 inches x 12 inches if displayed on a buoy
- 18 inches x 18 inches if displayed from a boat
- Illuminated by a light at night
- Flag must be displayed only when diving operation is in progress
- Boats required to stay at least 50 feet away
- Diver can not obstruct navigation



## Waterskiing

- \*Prohibited between
   1 hour after sunset to
   1 hour before sunrise
- 2nd person in the boat at least 12 years of age to act as an observer
- Person being towed must wear an approved PFD



## Registration

- Required on <u>all</u> vessels except:
  - Non-motorized rowboats less than 12ft
  - Canoes and kayaks (w/out motors)
  - A ship's lifeboat
  - Boats exclusively used for racing
  - Houseboats
  - Ferries
  - Vessels registered from another state in RI waters less than 90 days (law does **not** say consecutively)
  - Outboard engines must also be registered. This is a one-time registration that does not expire

RHODE IBLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT Office of Boort Registration (ROOM 346) 235 Promende St., Providence R 62566 APTL/LWF10. 82492			DE ISLAND	
61/01/2001	RHODE ISL		TN 152827	BCAT NUMBER 22252 8
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1 SMITH ST	1	1	1	2 1
PROVIDENCE, RI \$2989	NECAPOIO MOTO	1 10.00	MOTOR # 1 SERIAL N	LANDER
HUNDRAL MOORING AREAMALING PORT	COLOR RANGE Y	5 44.45	MOTOR # 2 SERVEL N	LMBER
PORT OF DOCUMENTATION	OWNERS SIGNATURE			

• Documented vessels are **not** exempt. The documentation number will become your registration number. Unregistered vessels are subject to property tax.

TITLE 44 Taxation CHAPTER 44-3 Property Subject to Taxation SECTION 44-3-3

§ 44-3-3 Property exempt. – The following property is exempt from taxation
(27) Motorboats as defined in § 46-22-2 for which the annual fee required in § 46-22-4 has been paid;

## **Registration & Titling**

- 2 year registration expires last day of February
- Must be kept onboard the vessel
- Only current registration decal shall be displayed
- Required to notify boat registry on changes (i.e. address, owner, etc)
- All vessels over 14ft must be titled



# What you will need to register your vessel:

### **NEW VESSELS:**

- Dealer's Bill of Sale
- Manufacturer's Certificate of Origin

### **USED VESSELS:**

- Notarized Bill of Sale or gift statement
- Title notarized by the Seller



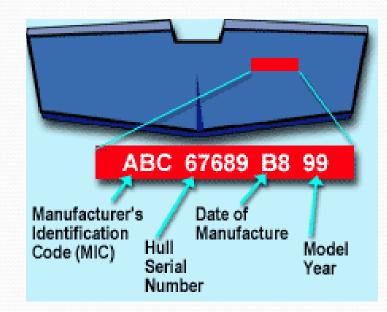
Always recommended to contact DEM Boat Licensing & Registration prior to any purchase to verify what paperwork you will need.

401-222-6647

### 

## **Hull Identification Number**

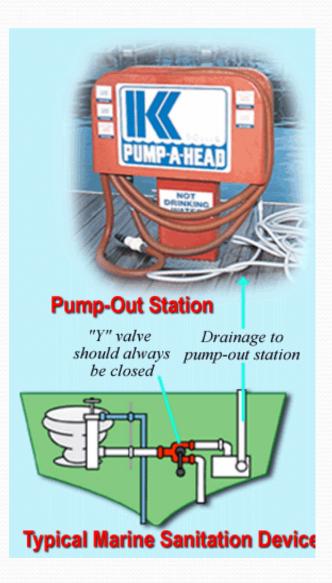
- 12 digit number required on all boats built after 1972
- Illegal to alter, remove or deface (RIGL 46-22.1-6)
- Normally located on starboard transom
- Environmental Police perform HIN inspections at request of Div. of Boat Registration & Licensing
- RIZ number issued to homemade boats



## Marine Sanitation Devices

- Applies to any vessel equipped with a MSD
- Inspections by Authorized Agents
- No Discharge Certificate Decals
  - Green decals for type III MSD or No MSD ( these
  - Yellow decals for type I & II MSD
- Decals will be valid for 4 years
- Program Handled by: DEM/Division of Water Resources-Shellfish Section

http://www.dem.ri.gov/programs/water /shellfish/marine-pumpouts.php



## **Marine Sanitation Devices**

- All RI waters are declared a
  - "No Discharge" area
- MSDs CG approved
- Three main types:
  - Type I & II
    - Chemically treats waste
    - Y-valve transfer into holding tank or discharges overboard
    - Y-valve must be secured to prevent overboard discharge when within state waters
  - Type III
    - Transfer waste to holding tank for pump-out

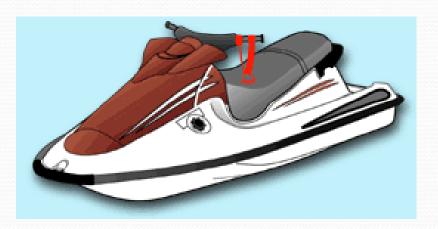
## Personal Water Craft

- PFDs must be worn
- Prohibited between
   <sup>1</sup>/<sub>2</sub> hour after sunset to
   <sup>1</sup>/<sub>2</sub> before sunrise
- Operated with engine cut-off lanyard attached



## Personal Water Craft

- Operated at headway speed 200ft from swimmers divers shore and moored boats
- Operate as perpendicular to shoreline as possible when launching as you head out to area of operation
- Operate in reasonable and prudent manner
- Boating Safety Education card required for all operators no matter how old you are or what State you are from!!!!!



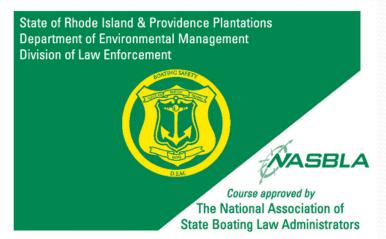
## **Prohibited Operations**

- Reckless Operation/ Operating to Endanger the life, limb, property of another
- Reckless Operation Death Resulting or Serious Bodily Injury Resulting
- Violating NO-WAKE zone
- Obstructing navigation
- Docking or making fast to any pier, wharf or structure without the consent of the owner



## **Boating Education**

- Required by anyone born after Jan 1, 1986, to operate a vessel having more than 10 hp.
- Anyone operating a personal watercraft (PWC) regardless of their age or where they are from
- Certificate card required to be onboard while operating
- RI DEM Environmental Police maintains a database of all Rhode Island certified boaters.





## **Boating Education**

•Operators are exempted from these requirements if they:

-Are supervised onboard by person 18 years of age or older who has met the education requirements

-Hold a valid commercial vessel operator's license

-Are not a resident of Rhode Island and meet the requirements of their state of residence (this does not apply to non-residents operating a PWC-must be certified)

-Have been a resident of Rhode Island for 60 days or less

-Are operating a rented vessel and have successfully completed the requirements for renters

### TITLE 46 Waters and Navigation

### **CHAPTER 46-22 Regulation of Boats**

**SECTION 46-22-9.6** 

**§ 46-22-9.6 False distress or hoax calls.** – (a) Whoever, knowing it to be false, transmits or causes to be transmitted by radio, telephone, use of emergency flares or other means of communication, the alleged occurrence or impending occurrence of an emergency situation which threatens the life, or safety of a person and/or the loss of property, to any state, federal or local law enforcement or other public safety agency shall be guilty of transmitting a false distress or hoax call.

(b) Any person charged with the commission of the foregoing shall, upon conviction, be subject to imprisonment not to exceed one year and a fine not to exceed one thousand dollars (\$1,000). In addition to any other fines or penalties imposed under this section, the person or persons convicted shall pay restitution for any cost related to the emergency response to the false or hoax call.

### **BOAT ACCIDENTS-Duty of Operator**

### • DUTY OF OPERATOR

- Render Aid (as long as it does not put you or your vessel in danger)
- Give your name, address, and identification of your vessel in writing to any person injured or owner of any property damaged





## **BOATING ACCIDENTS-Reporting**

- **Immediate Reporting** to DEM, USCG, Local Police, or State Police if:
- accident results in death or personal injury that requires anything beyond basic first aid
- accident results in property damage in excess of \$2000

Written Report to DEM within 5 days of incident if

- accident results in death or personal injury that requires anything beyond basic first aid
- accident results in property damage in excess of \$2000

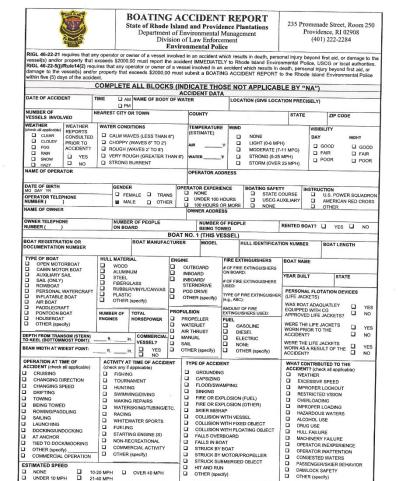
### **BOAT ACCIDENT REPORT FORMS**

Forms are available online:

http://www.dem.ri.gov/programs bnatres/enforce/pdfs/boatacc.pd

Or by calling: DEM/Environmental Police

401-222-3070



### **BOATING UNDER THE INFLUENCE**



- Rhode Island law sets the blood alcohol limit for boating while intoxicated at 0.08% or greater
- The BUI statute mirror the DUI state in Rhode Island
- Only differences with regards to penalties are:
  - Boating Safety Course vs. Driver Retraining
  - Boating rights are suspended vs. Drivers's license suspended
    - Exception is if under 21, then Driver's license will be suspended if convicted

Note: Statute states *"Watercraft"- a device for transportation by water*. This means that all vessels including canoes, kayaks, rowboats, etc. are subject to this statute.

### TITLE 46 Waters and Navigation CHAPTER 46-22 Regulation of Boats SECTION 46-22-15

§ 46-22-15 **Owner's civil liability.** – The owner of a vessel shall be liable for any injury or damage occasioned by the negligent operation of the vessel, whether the negligence consists of a violation of the provisions of the statutes of this state, or neglecting to observe such ordinary care and such operation as the rules of the common law require. The owner shall not be liable, however, unless the vessel is being used with his or her express or implied consent. It shall be presumed that the vessel is being operated with the knowledge and consent of the owner, if at the time of the injury or damage, it is under the control of his or her spouse, father, mother, brother, sister, son, daughter, or other immediate member of the owner's family. Nothing contained herein shall be construed to relieve any other person from any liability which he or she would otherwise have, but nothing contained herein shall be construed to authorize or permit any recovery in excess of the injury or damage actually incurred.

History of Section. (P.L. 1959, ch. 187, § 1.)

### **CONTACT INFORMATION**

**Environmental Police** 24-Hr Dispatch Center 401-222-3070

Boating Safety Program Coordinator Lt Steven Criscione 401-222-2986 Steven.Criscione@dem.ri.gov

Boating Safety Education Coordinator EPO Jennifer Ogren 401-222-1986 Jennifer.Ogren@dem.ri.gov

www.dem.ri.gov

### A BOATER'S GUIDE TO THE FEDERAL REQUIREMENTS FOR RECREATIONAL BOATS AND SAFETY TIPS

#### New in this Edition:

- Navigation Locks
- Trailer Safety
- Digital Selective Calling
- Rescue 21
- Naval Vessel Protection Zones
- America's Waterway Watch





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#### WELCOME

As a boat operator, you are expected to make sure that your vessel carries the required safety equipment (carriage requirement) and is in

compliance with federal and state regulations for such things as numbering and operation. A Quick Reference Chart on page 42 will help you determine the minimum federal safety equipment requirements for your vessel.



This publication contains information about federal laws and equipment carriage requirements for recreational vessels of the United States. It is important that you understand that federal equipment requirements are *minimum* requirements and *do not* guarantee the safety of your vessel or its passengers. In the following sections, we have also provided recommendations for additional safety equipment you may wish to have on board.

In addition to the requirements stated in this pamphlet, the owner/ operator may be required to comply with additional regulations and/or laws specific to the state in which the vessel is registered or operated. To ensure compliance with state boating laws, you should contact the appropriate boating agency in your area. A vessel in compliance with the laws of the state of registration may not meet the requirements of another state where the vessel is being operated.



Other equipment recommended for your safety and the safety of your passengers is noted in the section on Vessel Safety Checks on page 52 and in the Boater's Pre-Departure Checklist on page 70.

**Remember**, drowning is the Number One cause of boating fatalities and the most preventable. The U.S. Coast Guard recommends that you always wear a life jacket and require your passengers to do the same.

#### Conversion of Metric to U.S. Units

Metric Measure	Feet in Decimals	Feet and Inches
50.0 m	164.0 ft.	164' 1/2"
20.0 m	65.6 ft.	65' 71/2"
12.0 m	39.4 ft.	39' 4 1/2"
10.0 m	32.8 ft.	32' 9 3/4"
8.0 m	26.3 ft.	26' 3"
7.0 m	23.0 ft.	22' 11 1/2"
6.0 m	19.7 ft.	19' 8 1/4"
5.0 m	16.4 ft.	16' 4 3/4"
4.0 m	13.1 ft.	13' 11/2"
2.5 m	8.2 ft.	8' 21/2"
1.0 m	3.3 ft.	3' 3 1/3"

### REGISTRATION (33 CFR 173) AND DOCUMENTATION (46 CFR 67)

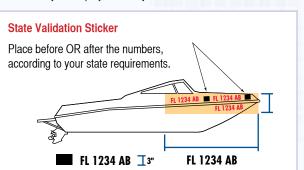
There are two methods of registration for U.S. recreational vessels.

- Vessel Registration: state-issued Certificate of Number.
- Vessel Documentation: federally documented with the U.S. Coast Guard.

Vessel Registration: All undocumented vessels equipped with propulsion machinery must be registered in the state of principal use. A Certificate of Number will be issued upon registration and the number must be displayed on your vessel. The owner/operator of a vessel must also carry the valid Certificate of Number whenever the vessel is in use. When a vessel is moved to a new state of principal use, the Certificate remains valid for 60 days. Check with your state boating authority for registration requirements. Some states require all vessels to be registered, including vessels that are manually propelled and those that are Coast Guard documented.

#### **Display of Numbers**

Numbers must be painted or permanently attached to each side of the forward half of the vessel. The numbers must be read from left to right, and of a color that is contrasting with the background color; for example, black numbers on a white hull. The validation sticker(s) must be affixed within six inches of the registration number. No other letters or numbers may be displayed nearby.



Lettering must be in plain, vertical block characters of not less than 3 inches in height. Spaces or hyphens between letter and number groupings must be equal to the width of a letter other than "I" or a number other than "1".

#### Notification of Changes to a Numbered Vessel

The owner of a vessel must notify the agency that issued the Certificate of Number within 15 days if:

- The vessel is transferred, destroyed, abandoned, lost, stolen, or recovered.
- The Certificate of Number is lost, destroyed, or the owner's address changes.

If the Certificate of Number becomes invalid for any reason, it must be surrendered to the issuing authority within 15 days.



#### **Vessel Documentation**

The U.S. Coast Guard Certificate of Documentation is a national form of registration dating back to the 11<sup>th</sup> Act of the First Congress. It serves as evidence of a vessel's nationality for international purposes, provides for unhindered commerce between the states, and admits vessels to certain restricted trades, such as coastwise trade and the fisheries. Since 1920, vessel financing has been enhanced through the availability of preferred mortgages on documented vessels.

Recreational vessels are eligible to be documented if they are wholly owned by a citizen or citizens of the United States *and* measure at least five net tons. Net tonnage is a measure of a vessel's volume. Most vessels more than 25 feet in length will measure five net tons or more.

A documented vessel is not exempt from:

- · Applicable state or federal taxes.
- Compliance with state or federal equipment carriage requirements.

A documented vessel may also be required to pay a registration fee and display a validation sticker from the state of principal use. Boaters should check with their state boating agency.

To be in compliance with federal documentation requirements, a Certificate of Documentation must be:

- The original document (photocopy not acceptable).
- · On board the vessel.
- · Current (not expired).
- Signed by the Director of the National Vessel Documentation Center.

#### Documented Vessel Marking Requirements Hull Display

A documented recreational vessel hull display must:

- Have the name and hailing port of the vessel together in one place on the hull (usually on the stern).
- Be in letters not less than 4 inches in height.
- · Be clearly readable.



The marking requirements for a documented recreational vessel state "together in one place on the hull." Many recreational vessels will place the vessel name and hailing port on the stern, and vessel name on both sides of the bow, which is required for a commercial vessel. Although not required for a recreational vessel, this is an acceptable option.

#### Interior Display (Recreational and Commercial)

In addition, the vessel must have the official number permanently affixed in block-type Arabic numerals of not less than 3 inches in height, preceded by the letters "NO." on some clearly visible interior integral structural part of the vessel.

Arabic numerals are the most common symbolic representation of numbers in the world. Permanently affixed means that the numbers must be affixed to the vessel so that alteration, removal, or replacement would be obvious. Numbers can be painted, carved, or welded.

### NO.1234567 <sup>‡</sup>

Interior display (recreational and commercial). Numbers must be no less than 3 inches high.

For more information on documented vessels, contact the U.S. Coast Guard National Vessel Documentation Center at (800) 799-8362 or online at www.uscg.mil/hq/cg5/nvdc.

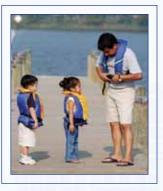
#### EQUIPMENT REQUIREMENTS

The United States Coast Guard sets minimum standards for recreational vessels and associated safety equipment. To meet these standards, required equipment must be U.S. Coast Guard "approved" or "certified." This means that it meets U.S. Coast Guard specifications, standards, and regulations for performance, construction, or materials.

#### Life Jackets (33 CFR 175)

You may have heard reference to Type I, II, III, IV, and V "Personal Flotation Devices" (PFDs). The term PFD is used in a strictly regulatory sense. For greater clarity, this publication will use the term "wearable life jacket" and "throwable device." Understand that Type and Number refer to the same equipment, whether called a PFD or life jacket, and that any PFD is approved for use anywhere.

All recreational vessels must carry one wearable life jacket for each person on board. Any boat 16 feet and longer (except canoes and kayaks) must also carry one throwable (Type IV) device. Life jackets *should* be worn at all times when the vessel is underway. *A life jacket can save your life, but only if you wear it.* 



Always check and read the manufacturer's information booklet and label provided with all life jackets. They will provide valuable information, including size, type, intended use, and Coast Guard approval information.

Life jackets must be:

- U.S. Coast Guard-approved (check the label).
- · In good and serviceable condition.
- Appropriate size and type for the intended user.
- Properly stowed.

Some items that are not required but are a good idea to have with your life jacket are a whistle and an emergency light.

#### Stowage

- · Wearable life jackets must be readily accessible.
- You should be able to put them on in a reasonable amount of time in an emergency (vessel sinking, on fire, etc.)
- They should not be stowed in plastic bags, in locked or closed compartments, or have other gear stowed on top of them.
- Throwable devices must be immediately available for use. They should be on the main deck within arm's reach, hanging on a lifeline, or other easily reached location.

#### **Inflatable Life Jackets**

- U.S. Coast Guard-approved inflatable life jackets are authorized for use by persons 16 years of age and older (check the label).
- Inflatable life jackets require regular maintenance and attention to the condition of the inflator.
- They must have a full cylinder and all status indicators on the inflator must be green or the device is *not* serviceable and does *not* satisfy the legal requirement for the wearable life jacket carriage requirement.
- Inflatable life jackets are more comfortable, encouraging regular use. The best life jackets are ones the user will wear.

#### **Child Life Jacket Requirements**

On a vessel that is underway, children under 13 years of age must wear an appropriate U.S. Coast Guard-approved life jacket unless they

are 1) below deck, or 2) within an enclosed cabin. If a state has established a child life jacket wear requirement that differs from the Coast Guard requirement, the state requirement will be applicable on waters subject to that state's jurisdiction.

Children's life jackets are approved for specific weight categories. Check the "User Weight" on the label and for an approval statement that will read something like:



Approved for use on recreational boats and uninspected commercial vessels not carrying passengers for hire by persons weighing "less than 30, lbs.," "30 to 50 lbs.," "less than 50 lbs.," or "50 to 90 lbs."

#### Life Jacket Requirements for Specific Activities

The U.S. Coast Guard recommends – and many states require – wearing life jackets when engaged in the following activities:

- Water skiing and other towed activities (use a type designed for water skiing.)
- Operating a Personal Watercraft, or PWC (use a type designed for water skiing or PWC use.)
- Whitewater boating activities.
- · Sailboarding.

Check with your state boating agency for the laws that apply.

Federal law does not require life jacket use on racing shells, rowing sculls, racing canoes, and racing kayaks; state laws vary, however. Check with your state boating agency.

Note that if you are boating in an area under the jurisdiction of the U.S. Army Corps of Engineers, or a federal, state, or local park authority, other rules may also apply.

The U.S. Coast Guard recommends that you always wear a life jacket while underway on a boat and require passengers to do the same.

#### Life Jacket Flotation

The five types of life jackets are based on three kinds of flotation and can be characterized as follows:

#### Inherently Buoyant (Primarily Foam)

- · The most reliable.
- · Come in Adult, Youth, Child, and Infant sizes.
- · Designed for swimmers and non-swimmers.
- · Come in wearable and throwable styles.
- · Special designs available for water sports.

#### Inflatable

- · The most compact.
- Lightweight and comfortable.
- · Sized only for adults.
- · Only recommended for swimmers.
- · Wearable styles only.
- · Some have the best in-water performance.

#### Hybrid (Foam and Inflation)

- Reliable.
- Provides Inherent and Inflatable Buoyancy.
- Adult, Youth, and Child sizes.
- · For swimmers and non-swimmers.
- · Wearable styles only.
- Some designed for water sports.

#### **BUOYANCY RATING: FOAM**

Wearable Size	Туре	Inherent Buoyancy
Adult		22 lbs.
	&	15.5 lbs.
	V	15.5 to 22 lbs.
Youth	&	11 lbs.
	V	11 to 15.5 lbs.
Child and Infant	I	7 lbs.
Throwable:		
Cushion	IV	20 lbs.
Ring Buoy		16.58. 32 lb.

BUOYANCY RATING: INFLATABLE			
Wearable Size	Туре	Inflatable Buoyancy	
Adult	&	34 lbs.	
		22.5 lbs.	
	V	22.5 to 34 lbs.	

#### **BUOYANCY RATING: HYBRID**

Wearable	Туре	Inherent	Inflated
Size		Buoyancy	Total Buoyancy
Adult	&	10 lbs.	22 lbs.
	V	7.5 lbs.	22 lbs.
Youth	&	9 lbs.	15 lbs.
	V	7.5 lbs.	15 lbs.
Child		7 lbs.	12 lbs.

#### **Types of Life Jackets**

*A Type I, Off-Shore Life Jacket* provides the most buoyancy. It is effective for all waters, especially open, rough, or remote waters where rescue may be delayed. It is designed to turn an unconscious wearer to a face-up position in the water.

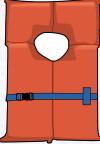


*A Type II, Near-Shore Buoyancy Vest* is intended for calm, inland waters or where there is a good chance of quick rescue. Inherently buoyant life jackets of this type will turn some unconscious wearers to

a face-up position in the water, but the turning is not as pronounced as with a Type I. This type of inflatable turns as well as a Type I foam jacket.







*A Type III, Flotation Aid* is good for users in calm, inland waters, or anywhere there is a good chance of quick rescue. The wearer may have to tilt their head back to remain in a face-up position in the water. The Type III foam vest has the same minimum buoyancy as a Type II. It comes in many styles, colors, and sizes and is generally the most comfortable type for continuous wear. Float coats, fishing vests, and vests designed with features suitable for various sports activities are examples of this type. This type of inflatable turns as well as a Type II foam vest.



*A Type IV, Throwable Device* is intended for use anywhere. It is designed to be thrown to a person in the water and grasped and held by the user until rescued. It is not designed or intended to be worn. Type IV devices include buoyant cushions, ring buoys, and horseshoe buoys. There are no Coast Guard-approved inflatable Type IV devices.



A Type V, Special-Use Device is intended for specific activities and may be carried instead of another life jacket only if used according to the condition(s) for which it is approved, as shown on its label. A Type V provides the performance of a Type I, II, or III (as marked on its label). If the label says the life jacket is "approved only when worn," the life jacket must be worn (except by persons in enclosed spaces) and used in accordance with the approval label to meet carriage requirements. Some Type V devices provide significant hypothermia protection. Varieties include deck suits, work vests, sailboarding vests, and sailing vests with a safety harness.



*An Inflatable with Safety Harness* is approved only as a Type V, Special-Use Device because its use to prevent falls overboard presents several risks. The U.S. Coast Guard has not assessed its potential for injury from suddenly stopping a fall and, in case of capsizing or sinking, the boat may take the wearer down, resulting in death. *Do not* attach the harness to the boat unless it is being worn with a tether of less than 6.5 feet in length with quick-release-under-load hardware. *Read the safety harness section of the owner's manual for intended use. Under no circumstances should the safety harness be used for any climbing activity. U.S. Coast Guard approval does not apply to this harness used under those circumstances.* 

#### Finding the Right Life Jacket for You

Life jackets come in many designs, colors, styles, and materials. Some are made to stand up to rugged water sports, others to protect the wearer from cold-water temperatures. Be sure to choose one that is appropriate for your body size, planned activities, and the water conditions you expect to encounter.

#### Test the Fit

Start with a life jacket that is U.S. Coast Guard-approved. Try it on. It should fit comfortably snug. Then give it this test: with all straps, zippers, and ties securely fastened, raise your arms over your head. The jacket should stay in place and not ride up. Next, have someone lift your life jacket straight up at the shoulders. Again, the jacket should stay in place. If the zipper touches your nose or the jacket almost comes off, it is too loose.

#### Test the Buoyancy of Your Life Jacket

In shallow water or a swimming pool, under supervision and with all straps, zippers, and ties fastened, see how the life jacket floats you. Relax your body and let your head tilt back. Your chin should remain above water so that you can breathe easily. If not, you may need a different size or model, one that provides more buoyancy.

#### **Choosing a Child's Life Jacket**

Be sure to choose a child's life jacket that is U.S. Coast Guardapproved. Check to make sure your child's weight falls within the range shown on the label. While some children in the 30-50 pound weight range who can swim may ask for the extra freedom of movement that a Type III provides, note that most children in this weight range, especially those who cannot swim, should wear a Type II. To check for a good fit, pick the child up by the shoulders of the life jacket. If it fits correctly, the child's chin and ears will not slip through.

A child's life jacket should be tested in the water immediately after purchase. Children may panic when they fall into the water suddenly. Float testing not only checks the fit and buoyancy but also provides an important opportunity to teach them to relax in the water.

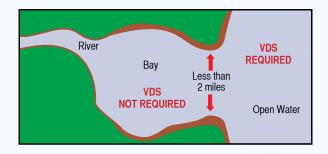
#### Be Safe. Wear Your Life Jacket.

Most deaths from drowning occur near shore in calm weather, not out at sea during a storm; 9 out of 10 drowning fatalities occur in inland waters, most within a few feet of safety. Worse still, many of these victims owned life jackets and may have survived had they been worn.

#### Wear your life jacket. When you don't, you're risking your life.

#### Visual Distress Signals (33 CFR 175.101)

Vessels operating on U.S. coastal waters, the Great Lakes, and territorial seas, as well as those waters connected directly, up to a point where the waterway is less than two nautical miles wide, must be equipped with U.S. Coast Guard-approved visual distress signals (VDS). Vessels owned in the United States and operating on the high seas must also be equipped with U.S. Coast Guard-approved visual distress signals.



The following vessels are not required to carry day signals, but must carry night signals when operating from sunset to sunrise:

- Recreational boats less than 16 feet in length.
- Boats participating in organized events, such as races, regattas, or marine parades.
- Open sailboats less than 26 feet in length that are not equipped with propulsion machinery.
- · Manually propelled boats.

### **Remember:** The carriage requirement is only applicable in areas where VDS are required.

#### Pyrotechnic Devices

Pyrotechnic visual distress signals must be U.S. Coast Guard-approved, in serviceable condition, and readily accessible.

Check the expiration date. Expired signals may be carried as extra equipment, but cannot be counted toward meeting the visual distress signal requirement. Launchers manufactured before January 1, 1981, and intended for use with approved signals, are not required to be U.S. Coast Guardapproved as long as they remain in serviceable condition.

If pyrotechnic devices are selected, a minimum of three signals are required for day use and three signals for night use. Some pyrotechnic signals meet both day and night use requirements (combination flares).

Pyrotechnic devices should be stored in a cool, dry place, if possible. A watertight container painted red or orange and prominently marked "DISTRESS SIGNALS" or "FLARES" is recommended.

U.S. Coast Guard-approved pyrotechnic visual distress signals and associated devices include:

- · Pyrotechnic red flares, hand-held or aerial (day/night use.)
- Pyrotechnic orange smoke, hand-held or floating (day use.)
- · Launchers for aerial red meteors or parachute flares.

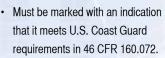
Each of these devices has a different operating/burning time. Check the label to see how long each pyrotechnic device will remain illuminated. Choose a device best suited to the conditions in the area where your vessel is typically used.

#### **Non-Pyrotechnic Devices**

Non-pyrotechnic visual distress signals must be in serviceable condition, readily accessible, and certified by the manufacturer as complying with U.S. Coast Guard requirements. These signals include:

#### **Orange Distress Flag**

- Used as a day signal only.
- Must be at least 3 x 3 feet with a black square and ball on an orange background.



Most visible when attached and



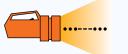
Orange Flag (day only)

waved on a paddle or boat hook, or flown from a mast.

 May be incorporated into devices designed to attract attention in an emergency, such as balloons, kites, or floating streamer.

#### **Electric Distress Light**

- Acceptable for night use only.
- Automatically flashes the international SOS distress signal (•••---•).



Electric Distress Signals (night only)

 Must be marked with an indication that it meets U.S. Coast Guard requirements in 46 CFR 161.013.

Under Inland Navigation Rules, a high-intensity white light flashing at regular intervals from 50-70 times per minute is considered a distress signal. Such devices, however, *do not* meet the Visual Distress Signal carriage requirement.

Regulations prohibit display of visual distress signals on the water under any circumstances, except where assistance is needed because of immediate or potential danger to persons on board a vessel.

All distress signals have distinct advantages and disadvantages. No single device is ideal under all conditions or suitable for all purposes.

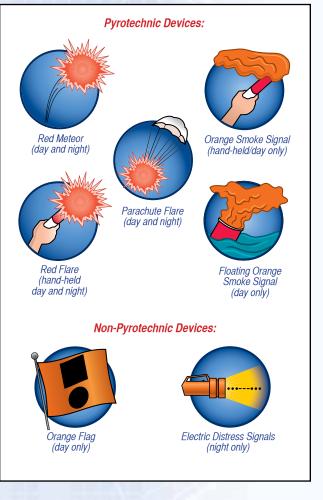
Pyrotechnics are universally recognized as excellent distress signals, but there is potential for injury and property damage if not handled properly. These devices produce a very hot flame with the potential to cause burns and ignite flammable materials.

Pistol-launched and hand-held parachute flares and meteors have many characteristics of a firearm and must be handled with extreme caution. In some states and Canada they may be considered a firearm and prohibited from use. Be sure to check with your state boating agency.



The following are just a few of the many combinations of devices that will meet the requirements:

- · 3 hand-held red flares that are approved for day/night use.
- 1 hand-held red flare and 2 parachute flares for day/night use.
- 1 hand-held orange smoke signal and 2 floating orange smoke signals for day, and 1 electric distress light for night.

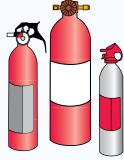


All boaters should be able to signal for help. Boaters must have U.S. Coast Guard-approved day and night signals for vessels when required. Signaling devices are recommended when operating on all open bodies of water.

#### Fire Extinguishers (46 CFR 25)

U.S. Coast Guard-approved, marine-type fire extinguishers are required on boats where a fire hazard could be expected from the engines or fuel system. Extinguishers are classified by a letter and number symbol. The letter indicates the type of fire the unit is designed to extinguish. Type B, for example, is designed to extinguish flaming liquids, such as gasoline, oil, and grease. The number indicates the amount of the extinguishing agent contained in the extinguisher; the higher the number, the greater the amount of agent in the extinguisher.

U.S. Coast Guard-approved extinguishers required for boats are hand-portable, have either B-I or B-II classification, and must be provided with a mounting bracket. While not required, it is recommended that the extinguishers be mounted in a readily accessible location. Consider locations where the



Fire Extinguishers

extinguisher can be reached easily; for example, at or near the steering station or in the galley or engine room, but away from locations where a fire may likely start.

Extinguisher markings can be confusing because one extinguisher can be approved for several different types of fires (A, B, or C). For example, an extinguisher marked "Type A, Size II; Type B; C, Size I" is acceptable as a Type B-I extinguisher.

Look for the section of the label that states "Marine Type USCG, Type A, Size II; Type B; C Size I." (It will also contain a USCG approval number.) Make sure Type B is indicated. Hand-portable extinguishers will be either a Size I or II.

Size III and larger are too big for use on most recreational boats.

Classes	Foam (gals)	CO² (lbs)	Dry Chemical (Ibs)
B-I (Type B, Size I)	1.75	4	2
B-II (Type B, Size II)	2.5	15	10

Fire extinguishers are required on boats when any of the following conditions exist:

- There are closed compartments and compartments under seats where portable fuel tanks may be stored.
- There are double bottoms not sealed to the hull or that are not completely filled with flotation materials.
- There are closed living spaces.
- There are closed stowage compartments, in which combustible or flammable materials are stored.
- There are permanently installed fuel tanks. (Fuel tanks secured so they cannot be moved in case of a fire or other emergency are considered permanently installed. Also, if the weight of a fuel tank is such that persons on board cannot move it, the U.S. Coast Guard may consider it permanently installed.)

#### Fire Extinguisher Maintenance

Inspect extinguishers monthly to make sure that:

- · Seals and tamper indicators are not broken or missing.
- Pressure gauges or other indicators, if so equipped, read in the operable range as described on the extinguisher.
- There is no obvious physical damage, rust, corrosion, leakage, or clogged nozzles.

If the minimum weight is stated on the extinguisher label, weigh extinguishers annually to check.

Fire extinguishers that do not satisfy the above requirements or that have been partially emptied must be replaced or taken to a qualified fire extinguisher servicing company for recharge.

#### **Required Number of Fire Extinguishers**

The following chart lists the number of fire extinguishers that are required on recreational vessels. If a U.S. Coast Guard-approved fixed fire extinguishing system is installed for the protection of the engine compartment, the required number of extinguishers may be reduced in accordance with the chart.

It is recommended that hand portable extinguishers be mounted in a readily accessible location.

#### Minimum Number of Hand-Portable Fire Extinguishers Required

Vessel length	No Fixed System	With approved Fixed Systems
Less than 26'	1 B-I	0
26' to less than 40'	2 B-I or 1 B-II	1 B-I
40' to 65'	3 B-I or 1 B-II and 1 B-I	2 B-I or 1 B-II

#### Ventilation (33 CFR 175/183, 46 CFR 25)

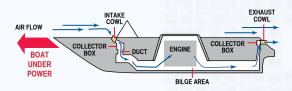
Boats that use gasoline for electrical generation, mechanical power, or propulsion are required to be equipped with a ventilation system.

A natural ventilation system is required for each compartment in a boat that:

- · Contains a permanently installed gasoline engine.
- Has openings between it and a compartment that requires ventilation.
- Contains a permanently installed fuel tank and an electrical component that is not ignition-protected.
- Contains a fuel tank that vents into that compartment (including a portable tank.)
- · Contains a non-metallic fuel tank.

A natural ventilation system consists of:

- A supply opening (duct/cowl) from the outside air (located on the exterior surface of the boat), or from a ventilated compartment, or from a compartment that is open to the outside air.
- An exhaust opening into another ventilated compartment or an exhaust duct to the atmosphere.



All blower motors installed in exhaust ducts must be in working condition regardless of date of manufacture.

Each exhaust opening or exhaust duct must originate in the lower onethird of the compartment. Each supply opening or supply duct and each exhaust opening or duct in a compartment must be above the normal accumulation of bilge water.

A powered ventilation system is required for each compartment in a boat that has a permanently installed gasoline engine with a cranking motor for remote starting.

A powered ventilation system consists of one or more exhaust blowers.

Each intake duct for an exhaust blower must be in the lower one-third of the compartment and above the normal accumulation of bilge water.

For boats built prior to 1980, there was no requirement for a powered ventilation system; however, some boats were equipped with a blower.

The U.S. Coast Guard Ventilation Standard, a manufacturer requirement, applies to all boats built on or after August 1, 1980. Some builders began manufacturing boats in compliance with the Ventilation Standard as early as August 1978. If your boat was built on or after August 1, 1978 it might have been equipped with either (1) a natural ventilation system, or (2) both a natural ventilation system and a powered ventilation system. If your boat bears a label containing the words "This boat complies with U.S. Coast Guard safety standards," you can assume that the design of your boat's ventilation system meets applicable regulations.

Boats built after 1980 with remote starters are required to display a label that contains at least the following information:

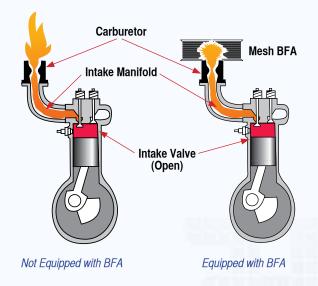
#### Warning

Gasoline vapors can explode. Before starting engine, operate blower at least four minutes and check the engine compartment bilge for gasoline vapors.

All boat owners are responsible for keeping their vessel's ventilation systems in operating condition. This means making sure openings are free of obstructions, ducts and ducting are not blocked or torn, blowers operate properly, and worn components are replaced with equivalent marine-type equipment.

#### Backfire Flame Control (46 CFR 25/58)

Gasoline engines installed in a motorboat or motor vessel after April 25, 1940, except outboard motors, must be equipped with an acceptable means of backfire flame control. The backfire flame arrestor (BFA) must be suitably secured to the air intake with a flame-tight connection, and is required to be either U.S. Coast Guard-approved or comply with SAE J-1928 or UL 1111 standards and marked accordingly.



Other acceptable means of backfire flame control include: air and fuel induction systems usually found on personal watercraft, velocity stacks (attachments to carburetors), and reed-type (found in outboards.)

#### Sound Producing Devices (33 CFR 83)

Navigation Rules require sound signals to be made under certain circumstances. Meeting, crossing, and overtaking situations, described in the Navigation Rules beginning with Rule 32, are examples of circumstances in which sound signals are required. Recreational vessels are also required to use sound signals during periods of reduced visibility and while at anchor. The following matrix provides the sound producing devices required for vessels:

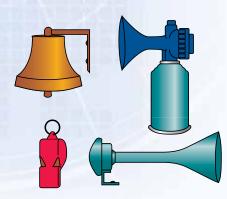
#### **International Waters**

Vessel Length	Whistle	Bell	Gong
12 meters or more (39.4 ft.)	Х		
20 meters or more (65.6 ft.)	Х	Х	
100 meters or more (328.1 ft.)	Х	Х	Х

#### Inland Waters\*

Vessel Length	Whistle	Bell	Gong
12 meters or more (39.4 ft)	Х		
20 meters or more (65.6 ft.)	Х	Х	
100 meters or more (328.1 ft.)	Х	Х	Х

\*There have been changes to the Collision Regulations (COLREGS) and a regulatory change is forthcoming that will align the Inland Navigation Rules with the COLREGS. The Coast Guard is exercising its discretion not to enforce the provisions of the inland rules until the regulatory change is enacted.



Signaling Devices

#### Navigation Lights (33 CFR 83)

Recreational vessels are required to display navigation lights between sunset and sunrise and during periods of restricted visibility (fog, rain, haze, etc.) The U.S. Coast Guard Navigation Rules, International-Inland, specifies lighting requirements for every description of watercraft. The information provided below is for power-driven and sailing vessels less than 65.5 feet (20 meters) in length.

#### **Power-Driven Vessels**

Note that a sail vessel under machine propulsion is considered a power-driven vessel.

If your power-driven vessel is less than 164 feet (50 meters) in length, it must display navigation lights as shown in Figure 1.

If your power-driven vessel is less than 39.4 feet (12 meters) in length, then it may display navigation lights as shown in Figure 2.



Figure 1



Figure 2

If your power-driven vessel is less than 23 feet (7 meters) in length and its maximum speed does not exceed 7 knots, then it may display an all-round white light and, if possible, sidelights, instead of the lights prescribed previously. (International Rules only.)

For power-driven vessels less than 39.4 feet (12 meters) in length, the masthead or all-round white light must be at least 3.3 feet (1 meter) above the sidelights.

In a vessel of less than 65.6 feet (20 meters) in length, sidelights may be displayed in a combination light as shown in Figure 2.

#### Sailing Vessels

If your sailing vessel is less than 65.6 feet (20 meters) in length, then it must display navigation lights as shown in Figures 3, 4, or 5.

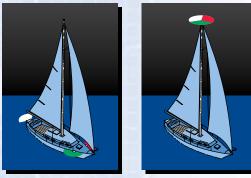


Figure 3

Figure 4



Figure 5



A sailing vessel of less than 23 feet (7 meters) in length shall, if practicable, exhibit lights as shown. (Figures 3 or 4.) If it does not, it shall have ready at hand an electric torch or lighted lantern (flashlight) showing white light that shall be exhibited in sufficient time to prevent collision. (See Figure 6.)

Figure 6

#### Vessel Under Oars

A vessel under oars may exhibit the lights for a sailboat. If it does not, it shall have ready at hand an electric torch (flashlight) or lighted lantern showing a white light that shall be exhibited in sufficient time to prevent collision. (See Figure 7.)



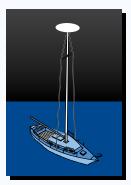
Figure 7

#### **Lights and Shapes**

To alert other vessels of conditions that may be hazardous, there are requirements to display lights at night and shapes during the day.

#### **Anchored Vessels**

*At night:* All vessels at anchor must display anchor lights. If your vessel is less than 164 feet (50 meters) in length, then its anchor light is an all-round white light visible where it can best be seen from all directions. (See Figure 8.)



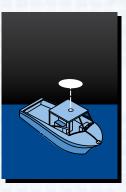
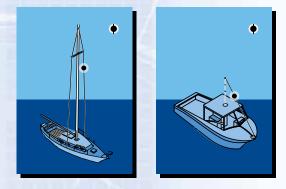


Figure 8

*During the day:* All vessels at anchor must display forward, where it can be best seen, a black ball shape. (See Figure 9.)



#### Figure 9

**EXCEPTIONS:** If your vessel is less than 23 feet (7 meters) in length, it is not required to display an anchor light or shape unless it is anchored in or near a narrow channel, fairway, or anchorage, or where other vessels normally navigate.

If your vessel is less than 65.6 feet (20 meters) in length, it is not required to display an anchor light if it is anchored in inland waters in a special anchorage designated by the Secretary under which the Coast Guard is operating.

#### Sailing Vessels Under Power

During the day, vessels under sail that are also being propelled by machinery, must exhibit forward, where it can best be seen, a black conical shape with the apex pointing down. (See Figure 10.)

**EXCEPTION:** If your vessel is less than 39.4 feet (12 meters) in length, then it is not required to display the shape in inland waters.



Figure 10

**Reminder:** If you are operating your sailing vessel at night using machinery, or sail and machinery, then your vessel must display the lights required for a power-driven vessel. (See Figures 3, 4, and 5.)

#### Vessels Restricted in their Ability to Maneuver

Navigation Rules require vessels restricted in their ability to maneuver to display appropriate day shapes (ball/diamond/ball) or lights. If the size of the vessel engaged in diving activities during the day make it impractical to display the day shapes, then it must exhibit a rigid replica of the international code flag "Alpha" not less than 3.3 feet (1 meter) in height to meet this requirement. If the diving activities are at night, then your vessel must display the navigation lights shown in Figure 11. This requirement does not affect the use of a red and white Divers Flag, which may be required by state or local law to mark a diver's location. The "A" flag is a navigation signal indicating your vessel's restricted maneuverability and does not pertain to the location of the diver.

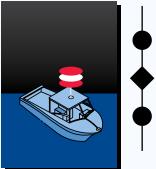




Figure 11



## Pollution Regulations (33 CFR 151/155)

Annex V of MARPOL 73/78 prohibits throwing, discharging, or depositing any refuse matter of any kind (including trash, garbage, oil, and other liquid pollutants) into the waters of the United States.

The Federal Water Pollution Control Act prohibits the discharge of oil or hazardous substances that may be harmful into U.S. navigable waters. Vessels 26 feet and greater in length, with machinery spaces, must display a placard at least 5 by 8 inches, made of durable material, fixed in a conspicuous place in the machinery spaces, or at the bilge pump control station, stating the following:

### **Discharge of Oil Prohibited**

The Federal Water Pollution Control Act prohibits the discharge of oil or oily waste upon or into any navigable waters of the United States. This prohibition includes any discharge that causes a film or discoloration of the surface of the water, or causes a sludge or emulsion beneath the surface of the water. Violators are subject to substantial civil and/or criminal sanctions, including fines and imprisonment.

Regulations issued under the Federal Water Pollution Control Act require all vessels with propulsion machinery to have a capacity to retain oily mixtures on board and be equipped with a fixed or portable means to discharge these oily mixtures to a reception facility. On recreational vessels, a bucket, oil absorbent pads, and heavy-duty plastic bag, bailer, or portable pump are some of the suitable means that meet the requirement for retention on board until transferring the oily mixture to a reception facility. No person may intentionally drain oil or oily waste from any source into the bilge of any vessel. You must immediately notify the U.S. Coast Guard if your vessel discharges oil or hazardous substances in the water. Call the Coast Guard National Response Center toll-free (800) 424-8802, or (202) 267-2675. Report the following information:

- · Location of the incident.
- · Size/quantity (estimated amount of material released).
- Description, color, consistency, odor.
- Date and time observed.
- · Source and cause of the release, if known.
- · Substance, if known.
- Weather and any other information that may help emergency personnel respond to the incident.

#### **Discharge of Garbage**

The Act to Prevent Pollution from Ships (MARPOL ANNEX V) places limitations on the discharge of garbage from vessels. It is illegal to dump plastic trash anywhere in the ocean or navigable waters of the United States. It is also illegal to discharge garbage in the navigable waters of the United States, including the inland waters and anywhere in the Great Lakes. The discharge of other types of garbage is permitted outside of specific distances offshore as determined by the nature of that garbage. (See chart next page.)



Note: state and local laws may place further restrictions on the disposal of garbage.

Garbage Type	Discharge
Plastics – includes synthetic ropes, fishing nets, and plastic bags	Prohibited in all areas
Comminuted or ground food waste, paper, rags, glass, etc.	Prohibited less than 3 miles from nearest land
Food waste, paper, rags, glass, metal, bottles, crockery, and similar refuse	Prohibited less than 12 miles from nearest land
Floating dunnage, lining, and packing materials	Prohibited less than 25 miles from nearest land

United States vessels of 26 feet or longer must display in a prominent location, a durable placard at least 4 by 9 inches notifying the crew and passengers of the discharge restrictions.



United States ocean-going vessels of 40 feet or longer that are engaged in commerce or equipped with a galley and berthing must have a written waste management plan describing the procedures for collecting, processing, storing, and discharging garbage, and must designate the person in charge of carrying out the plan.

### Marine Sanitation Devices (33 CFR 159)

All recreational boats with installed toilet facilities must have an operable marine sanitation device (MSD) on board. Vessels 65 feet and under may use a Type I, II, or III MSD. Type I and Type II are "flowthrough" devices, while a holding tank is a Type III device. Vessels over 65 feet must install a Type II or III MSD. All installed MSDs must be U.S. Coast Guard-certified. U.S. Coast Guard-certified devices are so labeled, except for some holding tanks, which are certified by definition under the regulations.

The discharge of treated sewage is allowed within 3 nautical miles of shore except in designated "No Discharge Zone" areas. (Untreated sewage may be discharged beyond 3 nautical miles.)

A "No Discharge Zone" is a body of water where the discharge of treated or untreated sewage is prohibited. When operating a vessel in a No Discharge Zone, the operator must secure the device in a manner that prevents any discharge. Some acceptable methods are: padlocking overboard discharge valves in the closed position, using a non-releasable wire tie to hold overboard discharge valves in the closed position, closing overboard discharge valves and removing the handle, and locking the door to the space enclosing the toilets. Note: these methods for preventing the overboard discharge are only required when operating in a No Discharge Zone. State and local laws may place further restrictions on overboard discharges.



### **OPERATING PROCEDURES**

#### **Navigation Rules**

Boaters call navigation rules – the basic laws governing the steering or sailing of a boat – "The Rules of the Road." These Rules define the roles and responsibilities of vessel operators. If all operators followed these rules, most accidents could be avoided.

The Rules are divided into two parts, Inland and International. Inland Rules apply to vessels operating inside the line of demarcation, while International Rules apply outside that line. Demarcation lines are printed on most navigational charts and are listed in the Navigation Rules.

Print copies of the rules can be obtained from the Superintendent of Documents, U.S. Government Printing Office, P.O. Box 979050, St. Louis, MO 63197-9000. Tel. (202) 512-1800, or you can download a copy from the U.S. Coast Guard, Boating Safety Division website at www.uscgboating.org.

The operator of a vessel 39.4 feet (12 meters) or greater is responsible for having and maintaining a copy of the Navigation Rules on board while operating on U.S. inland waters.

The Rules vary slightly depending on whether you are boating on inland or on international waters. As an example, when operating on inland waters, sound signals are signals of *intent*; when operating on international waters, they are signals of *action*.

*Post a lookout.* Designate someone to watch for dangers that may come from any direction.

Maintain a safe speed. Except where speed is restricted by regulation, or the waterway is marked as a "No Wake" or "Slow Speed" area, you must judge safe speed for yourself, taking into account visibility, vessel traffic, your boat's ability to maneuver, and the weather conditions.

*Avoid a collision.* The Rules of the Road include the actions to take when encountering another vessel on the water. Some of the most common situations you may encounter are: overtaking, meeting head-on, and crossing the bow of another vessel. In each case, the

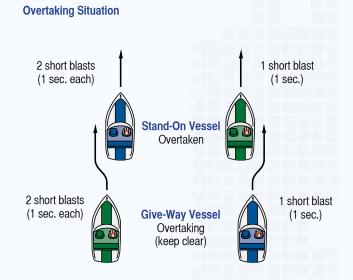
boat designated as the "give-way" vessel is required to yield to the other boat, while the boat designated as the "stand-on" vessel should maintain its course and speed.

The following diagrams describe the whistle signals and actions to be taken by vessels in a crossing, meeting, or overtaking situation while operating in inland waters. These are basic examples; for additional information, consult the Navigation Rules.

#### **Crossing Situations**

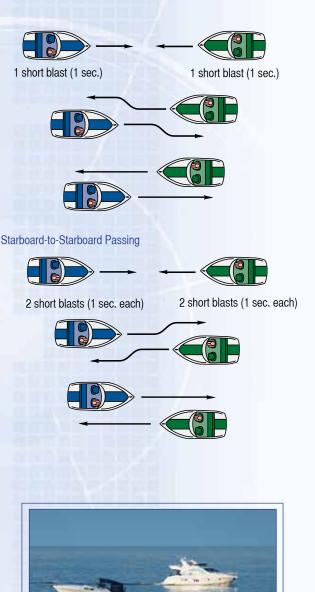


Give-Way Vessel should alter course to pass astern (behind) 1 short blast (1 sec.) Stand-On Vessel should maintain its course and speed 1 short blast (1 sec.)



#### **Meeting Head-On**

Port-to-Port Passing (preferred)



### **Aids to Navigation**

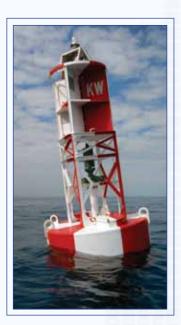
Navigation buoys and beacons are placed along coastal and navigable waters as guides to mark safe water and hidden dangers, as well as to assist boat operators in determining their position in relation to land. Each aid to navigation provides specific information.

Several Aids are usually used together to form a local system that helps the boat operator follow natural and improved channels. Such Aids also provide a continuous system of charted markers for coastal piloting.

Individual Aids are used to mark landfall from seaward, and to mark isolated dangers.

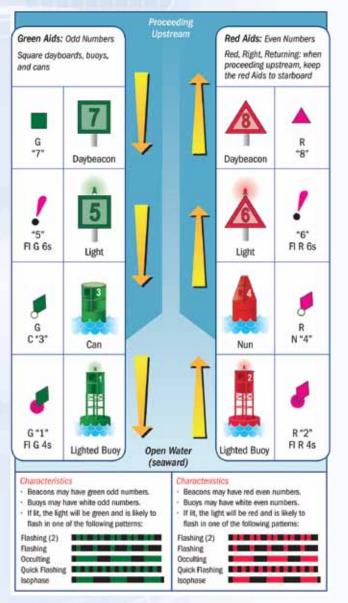
Lateral markers are buoys or beacons that indicate the port and starboard sides of a route to be followed. Virtually all U.S. lateral marks follow the traditional 3-R principle of "Red, Right, Returning." This means that when returning from seaward, keep the red markers on the right-hand (starboard) side of the vessel.

Boat operators *should not* rely on Aids to Navigation alone for determining their position. Storms and wave action can move buoys out of place.



#### **Lateral Aids**

Lateral aids marking the sides of channels, as seen when entering from seaward.



*Do not* tie up your boat to Aids to Navigation; it is dangerous and illegal.

#### Information and Regulatory Markers

These orange-and-white Aids are used to alert vessel operators to various warnings and regulations.

Symbol	Meaning	Examples
$\diamond$	Danger A diamond shape alerts boaters to hazards	DANGER ROCK
0	Restricted Operations Marks with a circle indicate areas with regulated operations	NO WAKE DIDLE SPEED
$\Leftrightarrow$	Exclusion A diamond shape with a cross means boats are prohibited from the area	BOATS KEEP OUT
	Information Marks with a square provide helpful information such as directions, distances, and locations	GAS DOCK

#### **Characteristics**

- White with an orange horizontal band at both top and bottom.
- Black text within or around an orange square, circle, or diamond; or black text outside a diamond with an orange cross.
- May be buoys or beacons.
- If lit, the light will be white and may have any light rhythm except quick flashing, flashing (2), or Morse code "A."
- The chart symbol for this type of buoy is:

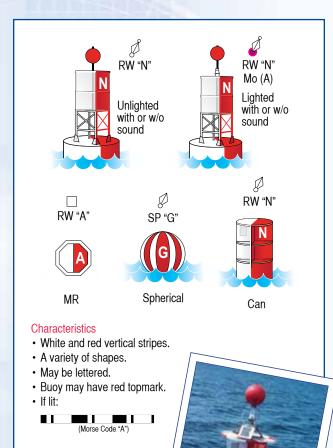


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Equipment	Requirement	<16 Af	sel Len 16<26	Vessel Length (in feet) 16 16<26 26<40 40<65	<mark>eet)</mark> 40<65	Page
Certificate of Number (State Registration)	All undocumented vessels equipped with propulsion machinery must be state registered. Certificate of Number must be on board when the vessel is in use. Note that some states require all vessels to be registered.	×	×	×	×	2
State Numbering	<ul> <li>(a) Plain block letters/numbers, not less than 3 inches in height, must be affixed on each side of the forward half of the vessel, in a contrasting color to the background, and read from left to right.</li> <li>(b) State validation sticker(s) must be affixed within 6 inches of the registration number. Note: check with your local boating agency for specific state requirements.</li> </ul>	×	×	×	×	ъ
Certificate of Documentation	Applies only to "Documented" vessels: (a) Original and current certificate must be on board. (b) Vessel name/hailing port must be marked on exterior part of hull in letters not less than 4 inches in height. (c) Official Number must be permanently affixed on interior structure in numbers not less than 3 inches in height.		×	×	×	Q
Life Jackets	<ul> <li>(a) One Type I, III, or V wearable life jacket for each person on board. Must be U.S. Coast Guard-approved.</li> <li>(b) In addition, must carry one Type IV throwable device.</li> </ul>	×	××	××	××	6
Visual Distress Signals (VDS)	<ul> <li>(a) One electric distress light, or three combination day/night red flares. Note: only required to be carried on board when the vessel is operating between sunset and sunrise.</li> <li>(b) Three combination day/night red flares – hand-held, meteor, or parachute-type, or one orange distress flag, or one electric distress light, or three hand-held or floating orange smoke signals and one electric distress light.</li> </ul>	× ×	×	×	×	17
Fire Extinguishers	<ul> <li>(a) One B-I (when enclosed compartment).</li> <li>(b) One B-II or two B-I. Note: fixed system equals one B-I.</li> <li>(c) One B-II and one B-I, or three B-I. Note: fixed system equals one B-I.</li> </ul>	×	×	×	×	21
Ventilation	<ul> <li>(a) All vessels built after April 25, 1940 that are gasoline-fueled with enclosed engine and/or fuel tank compartments must have natural ventilation (at least two ducts fitted with cowls).</li> <li>(b) In addition, a vessel built after July 31, 1980 must have a rated power exhaust blower.</li> </ul>	×	×	×	×	23
Sound Producing Devices	<ul> <li>(a) A vessel of less than 39.4 feet (12 meters) must, at a minimum, have some means of making an efficient sound signal – i.e., handheld air hom, athletic whistle. A human voice/sound is not acceptable.</li> <li>(b) A vessel 39.4 feet (12 meters) or greater, must have a sound-signaling appliance capable of producing an efficient sound signal, audible for 1/2 mile, with a 4- to 6-second duration.</li> </ul>	×	×	× ×	×	25
<b>Backfire Flame Arrestor</b>	Required on gasoline engines installed after April 25, 1940, except outboard motors.	×	×	×	×	25
Navigational Lights	Required to be displayed from sunset to sunrise and in areas of restricted visibility.	×	×	×	×	27
Oil Pollution Placard	<ul><li>(a) Placard must be at least 5 by 8 inches and made of durable material.</li><li>(b) Placard must be posted in each machinery space or at the bilge control station.</li></ul>			×	×	32
Garbage Placard	<ul><li>(a) Placard must be at least 4 by 9 inches and made of durable material.</li><li>(b) Displayed in a conspicuous place notifying all on board of the discharge restrictions.</li></ul>			×	×	34
Marine Sanitation Devices	If there is an installed toilet, the vessel must have an operable MSD Type I, II, or III.	×	×	×	×	35
Navigation Rules (Inland Only)	The operator of a vessel 39 .4 feet (12 meters) or greater while operating on U.S. inland waters must have on board a copy of these rules.			×	×	36

#### Safe Water Markers

These Aids are used to mark fairways, mid-channels, and offshore approach points. They have unobstructed water on all sides. A buoy, lighted or unlighted, may show a red topmark. An appropriate nautical chart must be consulted to determine exact position



### **Nautical Charts**

One of the most important tools for safely navigating waterways is a Nautical Chart. Today, many recreational boaters use GPS receivers and perform electronic waypoint navigation. Although a GPS can tell you where you are in terms of latitude and longitude, it cannot show what is around or beneath the boat, or what obstacles may be in the way.

Nautical charts show the nature and shape of the coast, including water depths, marine hazards, general configuration and character of the bottom, and Aids to Navigation, as well as prominent landmarks, port facilities, and other relevant information. Changes brought about by people and nature require that nautical charts be constantly maintained and updated to aid safe navigation.

To meet the needs of the boating public, the National Oceanic and Atmospheric Administration's National Ocean Service (NOS) produces a variety of nautical charts and related products. Nautical charts can vary in scale and format. Chart scale refers to a measurement of an area, not the distance. A chart covering a relatively large area is called a "small scale" chart; a "large scale" chart will cover a relatively small area and show much greater detail. Having the most current chart is important. That is why the publication date is critical. Storms and wave action can alter the coastline, so only up-to-date charts should be used for navigation. For all navigation, boat operators should also use the chart that provides the level of detail needed.

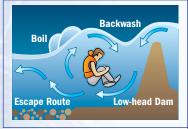
NOS nautical charts may be purchased directly by mail from the NOS Distribution Branch or through an authorized agent. There are more than 1,700 nautical chart agents that sell NOS charts. Use the address and contact numbers below to obtain a list of agents near you or to request a free catalog:

> FAA, National Aeronautical Charting Office Distribution Division, AJW-3550 10201 Good Luck Road Glendale, MD 20769-9700 Tel: (301) 436-8301 or (800) 638-8972 Fax: (301) 436-6829 E-mail: 9-AMC-chartsales@faa.gov Website: www.naco.faa.gov/ecomp

Updated chart information can be obtained from "Local Notice to Mariners," updated weekly by the U.S. Coast Guard and available online at www.navcen.uscg.gov/lnm/default.htm.

### Dams and Navigation Locks Low-head Dams

Those boating on rivers need to be aware of their location in regard to dams in their boating area. Low-head, or "fixed crest," dams can be difficult to see from small vessels moving downriver. They can be extremely



dangerous to small boats and swimmers; so much so they have been nicknamed "drowning machines." Be aware that buoys are not in the river year round and even when they are they can be moved off station by the current. Keep a lookout for "Danger Dam" signs. It is strongly recommended that boaters *use navigation charts*, which provide valuable information on the location of dams and other hazards in the river.

#### **Navigation Locks**

A lock is an engineered structure that enables vessels to move between waterways of differing heights. There are specific procedures in place for navigating through locks. Specifics may vary in certain regions, but in general:

- Stay between the red and green buoys that mark the river's navigable channel.
- Request an opening using your marine radio, cell phone, or with a sound signal consisting of one prolonged blast (4-6 seconds) and one short blast (1 second) within one mile of the lock. Sound signals can be made by using the lock's pull-cord or your whistle, horn, megaphone, or hailer.
- Wait for the lock operator to signal you with horn blasts; additional signals may include traffic lights or flashing lights.
- Enter the lock at reduced speed.
- Make sure all passengers remain seated and wear their life jackets.
- Tie your craft to the mooring devices after entering; a minimum of 50 feet of line is recommended.
- · Use fenders to avoid damage to your vessel and the lock walls.
- When through, wait for the lock operator's signal (horn and/or lights), then leave the lock at idle speed.

There is a specific order of lockage priority among vessels. Military and most commercial vessels have priority over recreational vessels.

### LAW ENFORCEMENT

A vessel underway when hailed by a Coast Guard vessel is required to heave to or maneuver as directed so as to permit a boarding team to come aboard. (See "U.S. Coast Guard Boarding Policy: What to Expect" page 50.)

Other federal, state, and local maritime law enforcement officials may also board and examine your vessel, whether it is numbered, unnumbered, or documented. U.S. Coast Guard law enforcement personnel work with and may also be found aboard other agencies' enforcement vessels.

The U.S. Coast Guard may impose a civil penalty for failure to:

- · Comply with equipment requirements.
- · Report a boating accident.
- · Comply with other federal regulations.
- · Comply with Navigation Rules.

#### Negligent Operation (46 USC 2302 (a) (b))

Federal law prohibits the negligent or grossly negligent operation of a vessel and/or interference with the safe operation of a vessel so as to endanger lives and/or property. The U.S. Coast Guard may impose a civil penalty for negligent operation. Grossly negligent operation is a criminal offense and an operator may be fined up to \$5,000, imprisoned for one year, or both.

Some actions that may constitute negligent or grossly negligent operation are:

- · Operating a boat in a designated swimming area.
- Excessive speed in the vicinity of other boats or in regulated waters.
- · Hazardous water skiing or other water sports practices.
- · Bowriding, or riding on seatback, gunwale, or transom.
- · Operating a boat while under the influence of alcohol or drugs.

#### Boating Under the Influence (BUI) (46 USC 2302 (c)/33 CFR 95)

Operating a vessel while intoxicated is dangerous and a federal offense. If an operator of a recreational boat has a blood alcohol content of .08 (.10 in some states) or greater, the operator is subject to a civil penalty not to exceed \$1,000 a criminal penalty not to exceed \$5,000, or a one-year imprisonment, or both. Intoxicated operators who are cited by the Coast Guard may also be cited by other state or local law enforcement officials. State criminal penalties may vary and could include arrest, fines, and/or loss of motor vehicle driving privileges.

#### Termination of Use (46 USC 4308/33 CFR 177.05)

A U.S. Coast Guard Boarding Officer who observes a vessel being operated in an unsafe condition, specifically defined by law or regulation, and determines that an especially hazardous condition exists that cannot be corrected on the spot, may terminate the vessel's voyage and direct the operator to return to port.

Termination for unsafe use may be imposed for:

- Insufficient life-saving devices.
- · Insufficient fire extinguishers.
- · An overloaded vessel.
- Improper display of navigation lights.
- · Improper ventilation of fuel tanks and engine spaces.
- Fuel leak or accumulation of fuel in the bilges.
- Inadequate backfire flame control.
- Operating in regulated boating areas during predetermined adverse conditions (applies only to Thirteenth USCG District: Idaho, Montana, Oregon, Washington).
- A manifestly unsafe voyage.

An operator who refuses to comply with the directions of a U.S. Coast Guard Boarding Officer to terminate the unsafe use of a recreational vessel can be cited for failure to comply with the Boarding Officer's instruction, as well as for the specific violation that was the basis for the termination order. Violators may be fined up to \$1,000, or imprisoned for up to one year, or both.

#### Reporting Boating Accidents (33 CFR 173.55)

The operator or owner of any recreational boat is required to file a Boating Accident Report if the boat is involved in an accident that results in any of the following:

- · Loss of life.
- A person disappears from the vessel under circumstances that indicate death or injury.
- Personal injury that requires medical treatment beyond basic first aid.
- Damage to the boat and other property damage of \$2,000 or more.
- · Complete loss of the boat.

Boat operators are required to report their accident to local authorities in the state where the accident occurred.

#### Fatal Accidents

Immediate notification is required for fatal accidents. If a person dies or goes missing as a result of a recreational boating accident, the nearest state boating authority must be notified without delay. The following information must be provided:

- Date, time, and exact location of the accident.
- · Name of each person who died or went missing.
- Number and name of the vessel.
- · Name and address of the owner and operator.

#### **Reporting Timelines**

If a person dies, goes missing from the boat, or receives injuries requiring medical treatment beyond basic first aid, a formal report must be filed within 48 hours of the accident.

For accidents involving property damage of \$2,000 or more, or the complete loss of a vessel, a formal report must be made within 10 days.

Note that state requirements for reporting boating accidents may be more stringent than federal requirements. Some states, for example, may require that all boating accidents be reported immediately. Check with the local marine patrol or the Boating Law Administrator in the state where the accident occurred for the reporting procedures that apply. To download a Reference Guide to State Boating Laws and find more information regarding accident reporting, visit the U.S. Coast Guard Boating Safety Division website at www.uscgboating.org.

#### Rendering Assistance (46 USC 2304)

The master or person in charge of a vessel is obligated by law to provide assistance that can be safely provided to any individual in danger at sea. The master or person in charge is subject to a fine and/ or imprisonment for failure to do so.

#### Requesting Assistance (Non-Distress Call)

If a boater contacts the U.S. Coast Guard on Channel 16 VHF-FM or Channel 70 DSC and the situation is determined to be non-distress, the Coast Guard will offer to contact any assistance provider (commercial or friend) the boater requests. If the boater has no preference, the Coast Guard will issue a Marine Assistance Request Broadcast (MARB). The boater may then be contacted directly by another boater "Good Samaritan" or by a commercial assistance provider with an offer of help.

#### U.S. Coast Guard Boarding Policy

Title 14, Section 89, of the United States Code authorizes the U. S. Coast Guard to board vessels subject to the jurisdiction of the United States, anytime upon the high seas and upon waters over which the United States has jurisdiction, to make inquiries, examinations, inspections, searches, seizures, and arrests.

#### What to Expect

The U.S. Coast Guard is a multi-mission agency. Although its legacy mission of saving lives at sea remains a priority, enforcement of maritime laws and homeland security has become the U.S. Coast Guard's – and the nation's – focus. The U.S. Coast Guard conducts nearly 70,000 boardings a year in its multiple roles: enforcing the law, providing search and rescue services, promoting boating safety, preventing damage to marine environments, and helping to secure the nation's borders. The more time a boater spends on the water, the more likely he or she will experience a U.S. Coast Guard boarding.

During law enforcement boardings, the scope of the vessel inspection is to determine the vessel's status (commercial, recreational, passenger, cargo, and/or commercial fishing) and to check for compliance with all applicable federal laws and regulations.

The decision to board may be based on a vessel's activity, location, and, in some circumstances, obvious violations, such as operating at night without navigation lights, or improper display of registration numbers. The Coast Guard vessel will usually radio a series of preboarding questions, such as: What was the vessel's last port of call

and what is its next port of call? How many persons are on board? What is the purpose of your voyage?

If the Coast Guard decides to board, consider it an important opportunity to learn something



new about safety equipment and safe boating practices. Typically, a uniformed U.S. Coast Guard Boarding Team of two to four officers will come aboard, introduce themselves, and state the reason for the boarding. Like all law enforcement officers, they will be armed. The officer in charge will ask if you have any weapons aboard; if so, they will usually secure all weapons for the duration of the boarding. They will conduct an initial safety inspection to identify any obvious safety hazards and to verify the general seaworthiness of your vessel.

The officer will then ask to see the vessel's registration or other documentation and proceed to a more detailed inspection of your required safety equipment: life jackets, fire extinguishers, flares, etc. You should know that the Boarding Officer will check every aspect of each item on the list. For example, with life jackets – the item most frequently cited for violations – the officer will check to see if you have U.S. Coast Guard-approved life jackets on board, in good and serviceable condition, properly stowed, and the correct size for the intended wearers.

When the boarding is complete, the officer will provide you with a report of the boarding, noting the results of the inspection of your vessel. In the event of a violation, the Boarding Officer will explain the results and the procedures you will need to follow to bring your vessel into compliance. If you have any questions, ask the Boarding Officer before the team departs.

## **VESSEL SAFETY CHECK**

The U.S. Coast Guard would like to see all vessels in compliance with equipment carriage requirements and safely operated. If you are uncertain about the safety requirements for your vessel, one way to make sure you are in



compliance is to schedule a Vessel Safety Check (VSC), offered as a free public service by the United States Coast Guard Auxiliary and United States Power Squadrons®, volunteer organizations dedicated to assisting the U.S. Coast Guard in promoting boating safety. Other federal and state agencies may also conduct these Vessel Safety Checks. (Find out more at www.safetyseal.net.)

A VSC is *not* a law enforcement action; however, in some states qualified marine law enforcement personnel may conduct Vessel Safety Checks. Qualified examiners will come to your vessel and conduct a courtesy examination of safety equipment carried or installed and certain aspects of the vessel's overall condition. VSC requirements parallel federal and state requirements with regard to equipment and vessel condition. Those vessels that pass will be awarded a VSC decal indicating a successful check.

The items checked during a VSC are:

- · Navigation lights.
- · Sound producing devices/bell.
- · Voice communications.
- · Life jackets and throwable flotation devices.
- · Fire extinguishers.
- · Visual distress signals.
- · Backfire flame control.
- Overall vessel condition, including electric-fuel systems, galley-heating systems, deck free of hazards/clean bilge.
- · Ventilation.
- · Proper display of numbers.
- Pollution placard (oily waste discharge).
- MARPOL trash placards (garbage dumping restriction).
- · Marine sanitation device.
- Registration/documentation.
- · Navigation Rules book.
- · State and/or local requirements.

#### Other recommended equipment

While not required, the following are also strongly recommended:

- VHF-FM Marine Radio with Digital Selective Calling System.
- Dewatering Device and Backup.
- Mounted Fire Extinguishers.
- Anchor and Line.
- First Aid Kit.
- Person-in-Water (PIW) Kit.
- · Capacity Plates.

During the Vessel Safety Check, the vessel examiner will discuss with the recreational boater the purpose of specific marine safety equipment, will clarify federal and state regulations, will discuss certain safety procedures, and will answer any boating-related



questions. Some of the topics discussed are:

- · Accident reporting/owner responsibility.
- Charts and Aids to Navigation.
- · Offshore operation.
- · Inflatable life rafts.
- Immersion suits.
- · Survival tips.
- First aid.
- Float plans.
- · Weather and sea conditions.
- Insurance considerations.
- Fueling and fuel management.
- · Boating checklist.
- · Availability of boating safety classes.
- America's Waterway Watch.

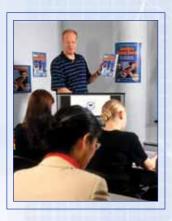
#### For More Information

To schedule a Vessel Safety Check, or for more information on the Vessel Safety Check Program, contact your local U.S. Coast Guard Auxiliary or United States Power Squadrons, state boating agency, or visit the Vessel Safety Check website at www.safetyseal.net.

### SAFETY AND SURVIVAL TIPS

#### Safe Boating Education

Training is important for boaters of all experience levels, but especially for the beginning boater. In a typical year, approximately 70 percent of accidents involving fatalities occur on boats where the boat operator



has had no formal instruction on how to operate the vessel. As a result, more than half of all states have enacted legislation mandating boater safety education as a requirement for boat operators.

Boating safety is no accident. To further develop your boating knowledge, proficiency, and confidence, take a boating safety course.

To locate local course offerings, or for more information on recreational boating and boating safety, contact your state boating agency, U.S. Coast Guard District office, or one of the organizations listed below:

United States Coast Guard Auxiliary National Headquarters www.cgaux.org National Safe Boating Council (703) 361-4294 www.safeboatingcouncil.org

United States Power Squadrons® National Headquarters (888) 367-8777 www.usps.org

National Association of State Boating Law Administrators (859) 225-9487 www.nasbla.org

#### **BoatU.S. Foundation**

(800) 245-2628 www.boatus.com/foundation

U.S. Coast Guard District Offices are listed on the inside back cover.

Take Time to Reflect on Safety Safe Boating Begins Here ... with You!

#### **Operator's Responsibilities**

Your degree of enjoyment on the water depends on you, your equipment, and other people who, like yourself, boat responsibly. As a boat operator, you should:

- Make sure that everyone on board is wearing a U.S. Coast Guard-approved life jacket at all times while on the water.
- · Take a boating safety course.
- Never operate a vessel while under the influence of alcohol or dangerous drugs.
- Make sure your boat is in top operating condition. It should be free of tripping hazards and fire hazards, and have clean bilges.
- Make sure the required safety equipment is on board, maintained in good working order, and that you know how to use these devices.
- · Always file a float plan with a relative or friend.
- Have a complete understanding of the operation and handling characteristics of your boat.
- Know your location, where you are going, and how to return.
- Maintain a safe speed at all times to avoid collision.
- Keep an eye out for changing weather conditions, and act accordingly.
- Know and follow the "Rules of the Road" (Navigation Rules.)
- Know and obey federal and state regulations and waterway markers.
- Be sure to maintain a proper lookout. Scan the water back and forth. Stay alert. Most boating accidents are caused by operator inattention.

#### Remember, you are the key to safe boating!

#### **Carbon Monoxide Hazards**

Carbon Monoxide (CO) can be a silent killer on houseboats and other recreational vessels. Each year, boaters are injured or killed by carbon monoxide. Virtually all such poisonings are preventable.

Carbon monoxide is a by-product of the combustion of carbon-based material, such as gasoline, propane, charcoal, or wood. Common sources aboard boats include main and auxiliary engines, generators, cooking ranges, space heaters, and water heaters. Note that cold and poorly tuned engines produce more carbon monoxide than warm, properly tuned engines. CO can collect within a boat in a variety of ways. Exhaust leaks – the leading cause of carbon monoxide fatalities – can allow CO to migrate throughout the boat and into enclosed areas. Even properly vented exhaust can re-enter a boat if it is moored too close to a dock or another boat, or if the exhaust is pushed back by prevailing winds. Exhaust can also re-enter boats when cruising under certain conditions, especially with canvas in place, which produces the "station wagon" effect. Exhaust can also collect in enclosed spaces near the stern swim platform.

#### What To Do

Schedule regular engine and exhaust system maintenance inspections by experienced and trained mechanics.

Be aware that dangerous concentrations of CO can accumulate when a boat, generator, or other fueled device is operated while the boat is at a pier, near a seawall, or alongside another boat. Do not run engines or equipment for extended periods of time under these conditions without continuous monitoring.

Keep forward-facing hatches open to allow fresh air to circulate in accommodation spaces, even in inclement weather.

Keep people clear of the rear deck area and swim platform of the boat while the generator or engines are running. Always monitor the swimming area.

Another dangerous practice to avoid is the towed water sport of "teak" surfing (also referred to as "drag" or "platform" surfing). Teak surfing is an activity where participants hang on to the boat's swim platform while the boat moves forward slowly through the water and the participants surf in its wake. This is dangerous on two levels: it places individuals in close proximity to the vessel's propeller, and it exposes them to dangerously high levels of carbon monoxide created by the vessel's exhaust. Individuals can lose consciousness in seconds. Teak surfing is a dangerous practice that has been prohibited by law in many states.

Do not confuse carbon monoxide poisoning with seasickness or intoxication. If someone on board complains of irritated eyes, headaches, nausea, weakness, or dizziness, immediately move the person to fresh air, investigate the cause, and take corrective action. If necessary, seek medical attention. Install a carbon monoxide detector in each accommodation space on your boat. Check the detectors periodically to be sure they are functioning properly.

#### Carbon Monoxide Checklist

Each Trip:

- · Make sure all exhaust clamps are in place and secure.
- Look for exhaust leaking from the exhaust system components, as evidenced by rust and/or black streaking, water leaks, or corroded or cracked fittings.
- Inspect rubber exhaust hoses for burned or cracked sections. All rubber hoses should be pliable and free of kinks.
- Confirm that cooling water flows from the exhaust outlet when the engines and generator are started.
- Listen for any change in exhaust sound that could indicate a failure of an exhaust component.
- Test the operation of each carbon monoxide detector.
- Do not operate the vessel if any of these problems exist.

Annual Maintenance to be Performed by a Qualified Marine Technician:

- Replace exhaust hoses if any evidence of cracking, charring, or deterioration is found.
- Inspect each water pump impeller and inspect the condition of the water pump housing. Replace if worn or cracked (refer to the engine and generator manuals for further information).
- Inspect each of the metallic exhaust components for cracking, rusting, leaking, or looseness. Pay particular attention to the cylinder head, exhaust manifold, and water injection elbow.
- Clean, inspect, and confirm the proper operation of the generator cooling water anti-siphon valve (if so equipped).

Regular maintenance and proper operation of the boat are the best defenses against poisoning from carbon monoxide. To find out more about how you can prevent carbon monoxide poisoning on recreational boats, visit the U.S. Coast Guard Boating Safety Division website at www.uscgboating.org/command/co.htm.

#### Overloading

Never load your boat with passengers and cargo beyond its safe carrying capacity. Too many people and/or too much gear can cause the boat to become unstable. Always balance the load so that the boat maintains proper trim. When loading your boat:

- Distribute the load evenly fore and aft and from side to side.
- · Keep the load low in the boat.
- · Keep passengers seated; avoid standing in small boats.
- · Secure gear to prevent shifting.
- Do not exceed the load specified in the U.S. Coast Guard Maximum Capacities information label, commonly called the "capacity plate," required by federal law on motorized mono-hull boats less than 20 feet in length.

0			(
U.S. CO/	AST GUARD	CAPACITY	INFORMATION
MAXIMUM HO	RSE POWER		
MAXIMUM PER	SONS CAPAC	ITY (POUNDS)	
	GHT CAPACIT	-	
PERSONS MO	FOR & GEAR (P	OUNDS)	
			T GUARD SAFETY OF CERTIFICATION
MODEL NO.		SERIAL NO.	
•	MFO. BY		(

If there is no capacity plate, use the following formula as a guide to determine the maximum number of persons you can safely carry in calm weather. The formula is applicable only to mono-hull boats less than 20 feet (12 meters) in length. A mono-hull is a boat that makes a single "footprint" in the water when loaded to its rated capacity; catamarans, trimarans, and pontoon boats are not mono-hull boats.

Boat Length		Boat Width (in feet)						
(in feet)	2.5	3	3.5	4	4.5	5	5.5	6
6	1	1	2	2	3	3	4	4
8	1	2	2	3	3	4	4	5
10	2	2	3	3	4	4	5	5
12	2	3	3	4	4	5	5	6
14	3	3	4	4	5	5	6	6
16	3	4	4	5	5	6	6	7

Maximum Number of Persons =  $\frac{\text{Boat Length X Boat Width}}{15}$ 

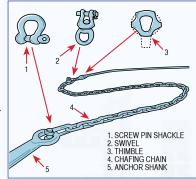
#### Anchoring

Anchoring is done for two principal reasons: 1) to stop for fishing, swimming, lunch, or an overnight stay, and 2) to keep the boat from running aground in bad weather or as a result of engine failure. Anchoring can be a simple task if you follow these guidelines:

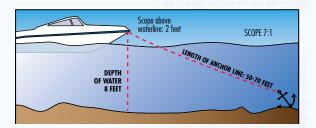
- Make sure you have the proper type of anchor (Danforth/Plow/ Mushroom).
- Attach a 3-6 foot length of galvanized chain to the anchor. A chain will withstand abrasion by sand, rock, or mud on the bottom much better than a fiber line.
- Attach a length of nylon anchor line to the end of the chain using an anchor swivel, a combination called the "Rode." The nylon

will stretch under the impact of heavy waves or wind, cushioning the strain on the boat and the anchor.

- Select an area that offers maximum protection from wind, current, and boat traffic.
- Determine the water depth and type of bottom (preferably sand or mud).



• Calculate the amount of anchor line you will need to let out. The general rule is five to seven times as much line as the depth of water plus the distance from the surface of the water to where the anchor will attach to the bow. For example, if the water is eight feet deep and it is two feet from the surface of the water to your bow cleat, you would multiply 10 feet by 5 or 7 to get the amount of anchor line to put out. (See diagram below.)



- Secure the anchor line to the bow cleat at the point you want it to stop.
- · Bring the bow of the vessel into the wind or current.
- When you get to the spot you want to anchor, place the engine in neutral.
- When the boat comes to a stop, slowly lower the anchor. Do not throw the anchor over, as throwing tends to foul the anchor line.
- When all of the line has been let out, back down on the anchor with the engine in idle reverse to help set the anchor firmly on the bottom.
- When the anchor is set, take note of reference points (landmarks) in relation to the boat. Check these points frequently to make sure you are not drifting.

### Do not anchor from the stern!!

Anchoring by the stern has caused many boats – small boats especially – to capsize and sink. The reason is that the transom is usually squared off and has less freeboard than the bow. In addition, the stern may be carrying the added weight of a motor, fuel tank, or gear brought on board. In a strong current, the force of the water can pull the stern under. Anchoring at the stern also makes the boat vulnerable to swamping by wave action.

#### **Vessels Operating Offshore**

If you operate your vessel offshore, you should consider carrying additional safety equipment beyond the minimum federal requirements. This equipment should include appropriate communications gear, an inflatable life raft, an Emergency Position Indicating Radio Beacon (EPIRB), and a means of accurately determining your location. In cold waters, you should also carry an immersion suit for everyone on board. Do not underestimate the danger of hypothermia.

#### Communications

Carry communications gear – a marine VHF-FM and/or HF transceiver(s) – appropriate to your operating area. Cellular phone coverage is available in many coastal areas, but *should not* be considered a substitute for VHF-FM marine band radios for emergency purposes.

Improper use of a radio-telephone is a criminal offense. The use of obscene, indecent, or profane language during radio communications is a federal offence. Penalties exist for misuse of a radio, such as issuing a false distress call.

Channel 16 is the primary VHF-FM marine radio calling and distress channel. It is not to be used for general conversation or radio checks. Such traffic should be conducted on another authorized working channel.

#### Inflatable Life Rafts

An inflatable life raft can provide a survival platform for an extended period of time. Make sure the life raft is large enough for everyone on board when the boat operates offshore. It should have the appropri-

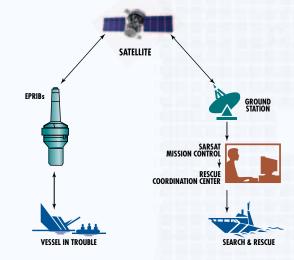


Life Raft

ate emergency equipment pack, and should be professionally serviced periodically, according to the manufacturer's instructions. U.S. Coast Guard-approved life rafts must meet a number of stringent material and performance standards.

#### Satellite EPIRBs

406 MHz Satellite Emergency Position Indicating Radio Beacons (EPIRBs) are designed to quickly and reliably alert rescue personnel, indicate an accurate distress position, and guide rescue units to the distress scene, even when all other communications fail. (See page 75.)



#### **Immersion Suits**

Immersion suits will delay the effects of hypothermia in cold water. (See page 63.) They should be properly stowed and maintained in accordance with the manufacturer's instructions.

#### **Determining Your Location**

It is advisable to carry on board a device to determine your position, such as a Global Positional System (GPS). These devices can be mounted or hand-held and will provide the boater with an accurate location to aid rescue agencies in the event of an emergency.

#### Small Boats, Hunters, Anglers, and Paddlers

Many hunters, anglers, and paddlers do not think of themselves as boaters, yet they use semi-V hull vessels, flat-bottom jon boats, or canoes and kayaks in pursuit of their sport. These boats tend to be less stable and can easily capsize. Capsizings, sinkings, or falls overboard from small boats account for 70 percent of all boating fatalities. Operators need to be fully aware of their boat's limitations and possess the skill and knowledge to overcome them.

Standing in a small boat raises the center of gravity and risks capsizing the boat. Standing for any reason, even changing seating position, can be dangerous, as is sitting on the gunwales or seat backs, or on a pedestal seat while underway. A raised center of gravity means that a wave, wake, or sudden turn can capsize the boat or result in a person falling overboard.

#### Staying Afloat

If the boat capsizes, or you fall overboard, follow these rules to stay afloat:

- Remain calm: do not thrash about or try to remove clothing or footwear. It is a common belief that persons dressed in heavy clothing or waders will sink immediately if they fall overboard. This is not true. Air trapped in clothing provides considerable flotation, and bending the knees will trap air in waders, providing additional flotation. Thrashing in the water leads to exhaustion and increases the loss of air that keeps you afloat.
- If you are wearing a life jacket, keep it on.
- Keep your knees bent.
- Float on your back and paddle slowly to safety.

#### **Cold-Water Survival**

Sudden immersion in cold water can induce rapid, uncontrolled breathing, cardiac arrest, and other physical conditions that can result in drowning. In an unexpected plunge, or in situations where you must enter cold water, here are a few guidelines to follow:

- · Button up your clothing.
- Cover your head if possible; about 50 percent of body heat is lost from the head.
- If entering the water voluntarily, enter slowly.
- · Keep your head out of the water if possible.
- · If you cannot immediately get out of the water and rescue is

not imminent, draw your knees to your chest and wrap your arms across your chest, hugging your life jacket in the Heat Escape Lessening Posture (H.E.L.P.) This will protect the major areas of your body from heat loss.

 If your boat has capsized and there are others in



the water with you, huddle together with your arms around each other. These huddles are good for morale, keep everyone together, and make a larger target to spot in the water – all of which increase your chances of being seen and rescued.

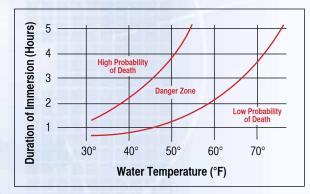
#### Hypothermia

Immersion in cold water speeds the loss of body heat and can lead to hypothermia. Hypothermia is the abnormal lowering of internal body temperature. If your vessel capsizes, it will likely float on or just below the surface. Outboard-powered vessels, built after 1978, are designed to support you even if full of water or capsized. To reduce the effects of hypothermia, get in or on the boat. Try to get as much of your body out of the water as possible. If you do not get in the boat, a life jacket will enable you to keep your head out of the water. This is important because about 50 percent of body heat loss is from the head. Cold water survival can be broken down into three phases:

- Cold Shock: an initial deep and sudden gasp followed by hyperventilation. Cold shock will pass in about one minute.
- Cold Incapacitation: in the next 10 minutes you will lose the effective use of your fingers, arms, and legs for any meaningful movement. Concentrate on self-rescue.
- Hypothermia: Depending on the temperature of the water, loss of consciousness may occur in as little as one hour.

For more information, see Cold Water Boot Camp at www.watersafetycongress.org.

It may be possible to revive a drowning victim who has been under water for considerable time and shows no signs of life. Numerous documented cases exist where victims have been resuscitated with no apparent harmful effects after long immersions. Start CPR immediately and get the victim to a hospital as quickly as possible.



The Danger Zone indicates conditions where safety precautions and appropriate behavior (adopting H.E.L.P.) can make the difference between death and survival.



#### Trailering

#### Legal Requirements

Be sure your boat trailer has current state registration and license plates, and working lights. Also, if your boat is more than 8.5 feet wide, it may require a special permit from your state Department of Transportation before transporting it on the highway.

#### Safety

A boat hull is designed for even support on the water. When transported on a trailer, your boat should be supported as evenly as possible across the hull to allow for even distribution of the weight of the boat and any contents. Your trailer should be long enough to support the full length of the hull, but short enough to allow the boat engine – secured and in the full "up" position – to extend freely.

#### Before towing:

- Be sure the tow ball and coupler are the same size and that all bolts with washers are tightly secured. The coupler should be completely over the ball and the latching mechanism locked.
- Balance the load evenly from front to rear and side-to-side. Too
  much weight on the hitch will cause the rear wheels of the tow
  vehicle to drag and may make steering difficult. Too much weight
  on the rear of the trailer will cause the trailer to "fishtail."
- Check that safety chains are attached, trailer lights function properly, tires (including the spare) are adequately inflated, brakes are fully functional, and side mirrors are large enough to provide an unobstructed view on both sides of the vehicle.
- Secure all equipment inside the boat. Secure the boat cover, if used, so that it will not blow off or tear while towing.

#### **Pre-Launching Preparations**

- To save time, prepare your boat for launching away from the ramp. Remove engine supports and tie-downs, and make sure the winch is properly attached to the bow eye and locked in position.
   Disconnect the trailer lights to prevent shorting of the electrical system or burning out a bulb.
- Install the drain plug. Make ready dock lines, fenders, and boat hooks. Attach a line to the bow and the stern of the boat so the

boat cannot drift away after launching and can be easily maneuvered to the docking area.

- Visually inspect the launch ramp for hazards, such as a steep drop off, slippery area, and sharp objects. Proceed slowly to the ramp, remembering that your boat is just resting on the trailer and attached only at the bow. Have one person in the boat and one at the water's edge to help guide the driver of the tow vehicle.
- · Double-check that you have installed the drain plug.

#### Launching

- Keep the trailer's rear wheels (and the boat's exhaust pipes) out of the water. If the exhaust pipes become immersed in the water, the engine may stall.
- Set the parking brake and place tire chocks behind rear wheels. Check boat systems, blower, bilge, pumps, and lights. Lower the motor. Start the boat engine and make sure water is passing through the engine cooling system.
- Make sure someone on shore is holding the lines attached to the boat. Release the winch and disconnect the winch line from the bow when the boat operator is ready. Launch with a light shove or by backing off the trailer under power.

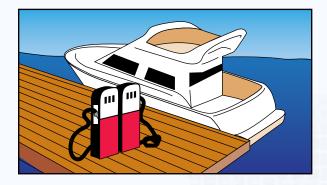
#### Retrieval

- As you approach the takeout ramp, note any changes in the current, tide, wind direction and/or velocity, and any increases in boating traffic that could make retrieval more difficult. Maneuver the boat carefully to the submerged trailer and raise the lower unit of the engine.
- Winch the boat onto the trailer and secure it. Drive the trailer with boat aboard carefully out of the ramp to a designated parking area for cleanup, reloading, and an equipment safety check.
- Remove the drain plug. Wash the trailer and boat, and flush the engine with fresh water. This will help prevent the transfer or spread of invasive species. In some areas special washing stations are provided and must be used. Check with your local marine patrol agencies.

#### **Fueling Precautions**

Most fires and explosions happen during or shortly after fueling. To avoid an accident, follow these safety guidelines.

- · Refuel any portable tanks ashore.
- Close all hatches and other openings before refueling. Extinguish all smoking materials. Turn off engines, all electrical equipment, radios, stoves, and other appliances. Remove all passengers.
- Keep the fill nozzle in contact with the tank and wipe up any spilled fuel.
- After fueling, open all ports, hatches, and doors to ventilate. Run the blower for at least four minutes. Check the bilges for fuel vapors before starting the engine. Do the "sniff test" to make sure there is no odor of gasoline anywhere in the boat.



Do not start the engine until all traces of fuel vapors are eliminated!

#### Fuel Management

Practice the "One-Third Rule" by using:

- · One-third of the fuel to go out.
- · One-third to get back.
- · One-third held in reserve.

#### **Propeller Blade Warning**

Never forget the danger to persons in the water and injuries that boat propellers can inflict. Most propeller injuries and fatalities involve open motorboats from 16 to 25 feet in length and result from operator inattention, inexperience, and carelessness.



People in the water can be severely injured or killed!

Be alert! Remember to shut off your engines when approaching swimmers or other persons in the water. Keep those in the water on the operator's side of the boat, always in view. Propeller guards are helpful but are not suitable for all types of boats. The best and safest action when people are in the water near your boat is to *shut off* your engines.

#### Weather

You should never leave the dock without first checking the local weather forecast. You can get the weather information from the TV, radio, local newspaper, online, or from one of the weather channels on your VHF-FM radio.

At certain times of the year, weather can change rapidly and you should continually keep a "weather eye" out. While you are out in a boat, here are a few signs you can look for that indicate an approaching weather change:

- · Flat clouds getting lower and thicker.
- Puffy, vertically rising clouds getting higher.
- · Dark, threatening clouds, especially to the west/southwest
- A sudden drop in temperature.
- A halo around the sun or moon.
- Increasing wind or a sudden change in wind direction.
- Flashes on the horizon.
- Seas becoming heavy.
- Heavy AM radio static, which can indicate nearby thunderstorm activity.

If you have a barometer on board, check it every two to three hours. A rising barometer indicates fair weather and a rise in wind velocity; a falling barometer indicates rain approaching.

#### What to Do in Severe Weather

- · Reduce speed, keeping just enough power to maintain headway.
- Make sure everyone on board is wearing their life jacket.
- Turn on your running lights.
- · If possible, head for the nearest shore that is safe to approach.
- Head the boat into the waves at a 45 degree angle.
- · Keep the bilges free of water.
- Seat any passengers on the bottom of the boat, near the center line.
- If the engine fails, trail a sea anchor from the bow of the boat to keep it headed into the waves (A bucket can work as a sea anchor in an emergency.)
- Anchor the boat, if necessary.

#### **Float Plans**

Play it safe; keep a stack of Float Plan forms on hand. Leave a copy with a friend, relative, or the local marina before heading out on the water. In case of an emergency, pertinent information will be right at their fingertips to enable them to contact the local marine police or Coast Guard with necessary details. A world of caution: if you are delayed and it is not an emergency, inform those with your Float Plan, and be sure to notify them when you return so the Float Plan can be "closed out" and an unnecessary and costly search avoided. A sample Float Plan Form is provided on page 73. The Coast Guard also makes Float Plan Forms available online at www.uscgboating.org.



## **BOATER'S PRE-DEPARTURE CHECKLIST**

Know your vessel. Before departure, always be sure your vessel is in good working order and properly equipped for emergencies. Avoid inconvenience and potential danger by taking a few minutes to check the following:

State Registration (Certificate of Number)5State Numbering Display5Certificate of Documentation6Life Jackets: one for each person on board9Throwable Type IV Device14Visual Distress Signals17Fire Extinguisher (Fully Charged)21Proper Ventilation23Backfire Flame Control25Sound Producing Device25Navigation Lights27	Minimum Federal Required Equipment	Page	Yes	No
Certificate of Documentation6Life Jackets: one for each person on board9Throwable Type IV Device14Visual Distress Signals17Fire Extinguisher (Fully Charged)21Proper Ventilation23Backfire Flame Control25Sound Producing Device27Image: Control Lights27	State Registration (Certificate of Number)	5		
Life Jackets: one for each person on board9Throwable Type IV Device14Visual Distress Signals17Fire Extinguisher (Fully Charged)21Proper Ventilation23Backfire Flame Control25Sound Producing Device25Navigation Lights27	State Numbering Display	5		
Throwable Type IV Device14Visual Distress Signals17Fire Extinguisher (Fully Charged)21Proper Ventilation23Backfire Flame Control25Sound Producing Device25Navigation Lights27	Certificate of Documentation	6		
Visual Distress Signals17Fire Extinguisher (Fully Charged)21Proper Ventilation23Backfire Flame Control25Sound Producing Device25Navigation Lights27	Life Jackets: one for each person on board	9		
Fire Extinguisher (Fully Charged)21Proper Ventilation23Backfire Flame Control25Sound Producing Device25Navigation Lights27	Throwable Type IV Device	14		
Proper Ventilation     23       Backfire Flame Control     25       Sound Producing Device     25       Navigation Lights     27	Visual Distress Signals	17		
Backfire Flame Control     25       Sound Producing Device     25       Navigation Lights     27	Fire Extinguisher (Fully Charged)	21		
Sound Producing Device     25       Navigation Lights     27	Proper Ventilation	23		
Navigation Lights 27	Backfire Flame Control	25		
	Sound Producing Device	25		
Oil Dellution Discord	Navigation Lights	27		
OII POIIUIIOII PIACAIO 32	Oil Pollution Placard	32		
Garbage Placard 34	Garbage Placard	34		
Marine Sanitation Device 35	Marine Sanitation Device	35		
Copy of Navigation Rules (Inland Waters) 36	Copy of Navigation Rules (Inland Waters)	36		
Any Additional State Requirements	Any Additional State Requirements			

Besides meeting the federal requirements, prudent boaters carry additional safety equipment and supplies. The following additional items are suggested depending on the size, location, and use of your boat:

Recommended Equipment and Supplies Yes	No	N/A
VHF-FM Marine Radio		
EPIRB/PLB		
Anchor and Line		
Chart(s) of the Area and Navigation Tools		
Magnetic Compass		
Fenders and Boat Hook		
Mooring Lines and Heaving Line		
Manual Bilge Pump or Bailing Device		
Tool Kit		
Spare Parts (Fuses, Spark Plugs, Belts, etc.)		
Spare Battery (Fully Charged)		
Spare Propeller/Shear or Cotter Pins		
Extra Fuel and Oil		
Alternate Propulsion (Paddles/Oar)		
Flashlight and Batteries		
Search Light		
First Aid Kit		
Sunscreen (SPF 30+)		
Mirror		
Food and Water		
Extra Clothing/Foul Weather Gear		
AM-FM Radio		
Cellular Phone		
Binoculars		

Safety Checks and Tests Yes	No	N/A
Test VHF Marine Radio (Voice Call)		
Test Navigation and Anchor Lights		
Test Steering (Free Movement)		
Test Tilt/Trim		
Test Bilge Pump		
Check for Excessive Water in Bilges		
Check Fuel System for Leaks		
Check Engine Fluids		
Ensure Boat Plug is Properly Installed		
Check Electrical System		
Check Galley/Heating Systems		
Check Gauges (i.e., Battery)		
Check Fuel Amount		
Ensure Anchor is Ready for Use		
Check Load of Vessel and Secure Gear		
Ensure Passengers Know Emergency Procedures and Equipment Location		
Check that all Life Jackets Fit Properly		
Check the Weather Forecast		
File a Float Plan with Relative or Friend		

You can also download a Pre-Departure Checklist from the U.S. Coast Guard website at www.uscgboating.org.

## SAMPLE FLOAT PLAN

The Coast Guard makes Float Plan forms available online at www.uscgboating.org. Complete a Float Plan before boating and leave it with a person who can be depended upon to notify the U.S. Coast Guard or other marine rescue organization, should you not return as scheduled.

*Remember: Do not file this plan with the U.S. Coast Guard.* Contact your friend in case of a delay, and always when you return.

#### 1. Person Reporting Vessel Overdue

Name	Phone
Address	

### 2. Description of Boat

	Length
	-
Trim Color	
Engine Type	
0 11	
	Туре

#### 3. Operator of Boat

Name	Age
Health	Phone
Address	
Operator's Experience	

### 4. Survival Equipment (Check as Appropriate)

#Life Jackets	Flares	Mirror
Smoke Signals	Paddles	Raft or Dinghy
Flashlight	Water	Food
Anchor	EPIRB	
Others		

#### 5. Marine Radio: Yes No

#### 6. Trip Expectations

Depart from	
Departure Date	_Time
Going to	
Arrival Date	Time
If operator has not arrived/return	ned by: Date Time
call the Coast Guard or local au	thority at the following number:

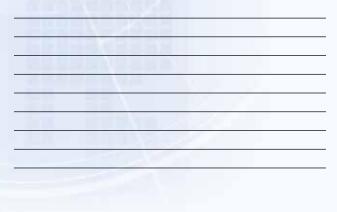
7. Vehicle Description

License No.	
Make	Model Color
Where is vehicle parked?	

#### 8. Persons on Board

Name	
Age	Phone
Medical Conditions _	

#### 9. Additional Information



### EMERGENCY NOTIFICATION/COMMUNICATION

#### Satellite EPIRBs (Emergency Position Indicating Radio Beacons)

Emergency distress beacons are essentially specialized radio transmitters that are designed for use in situations of grave or imminent danger or when lives are at risk.

#### How the System Works



EPIRBs operate as part of a worldwide distress system. An international satellite constellation maintains a vigilant, global "listening" watch for satellite EPIRB distress signals. The National Oceanic and Atmospheric Administration (NOAA) operates satellites, ground stations, and an alert-distribution system serving the United States and a large segment of the international community.

When activated, the satellite EPIRB transmits a distress signal with a beacon-unique identifying code. The system detects the signal, calculates an accurate distress position, checks the unique identifying code against the EPIRB registration database (vessel and point of contact information supplied by the owner) and routes the distress alert with registration information to the responsible U.S. Coast Guard (or international) Rescue Coordination Center (RCC).

406 MHz EPIRBs with GPS capability – either internally or externally supplied positional information – also provide an immediate GPS position in the information passed to the RCC and geostationary satellites make detection almost immediate. If the EPIRB does not have the ability to provide a GPS position, the process to determine a position takes about one hour on average and almost always less than two hours.

Satellite EPIRBs also include a homing beacon and strobe to help rescue forces quickly locate the distress scene. Satellite beacons have significant coverage, with alerting timeliness, position accuracy, and signaling advantages over other devices. Before purchasing or using other-than a 406MHz EPIRB, be sure you understand its capabilities and limitations.

Mount the EPIRB to float free, according to the manufacturer's instructions, if possible. Otherwise, make sure it is readily accessible. Register the EPIRB with NOAA, according to the instructions provided with the beacon or at the NOAA website: www.sarsat.noaa.gov. Registration is mandatory, improves response time, and reduces false alarms.

#### **Radio Regulations**

Most recreational vessels less than 65.6 feet (20 meters) in length are not required to carry a marine radio. Any vessel that carries a marine radio must follow the rules of the Federal Communications Commission (FCC).

#### Licensing

The FCC does not require most operators of recreational vessels to carry a radio or to have an individual license to operate VHF-FM marine radios, EPIRBs, or any type of radar. Operators must however follow the procedures and courtesies that are required of licensed operators specified in the FCC rules. You may use the name or registration number of your vessel to identify your ship station.

Recreational Vessels that may be required to be licensed:

- Power-driven driven vessels more than 65 feet (20 meters) in length.
- Any vessel, including a recreational vessel, on an international voyage.

#### **Radio Listening Watch**

Vessels not required to carry a marine radio – for example, recreational vessels less than 65.6 feet (20 meters) in length, but which voluntarily carry a radio – must maintain a watch on Channel 16 (156.800 MHz) or VHF Channel 9 (156.450 MHz), the boater-calling channel, whenever the radio is operating and not being used to communicate.

#### **VHF Marine Radio Channels**

The chart below contains a partial listing of channels recreational boaters should be familiar with. For a complete listing of VHF channels and frequencies visit the U.S. Coast Guard Navigation Center website at www.navcen.uscg.gov.

06Inter-ship Safety: Used for ship-to-ship safety messages and search messages and for ships and aircraft of the Coast Guard.09Boater Calling: the FCC has established this channel as a supplementary calling channel for recreational boaters in order to relieve congestion on VHF Channel 16.13, 67Navigation Safety (also known as the Bridge-to- Bridge Channel): Ships greater than 20 meters in length maintain a listening watch on this channel in U.S. waters. This channel is available, to all ships. Messages must be about ship navigation – i.e., passing or meeting other ships. You must keep your messages short. Your power output must not be more than one watt. This is also the main working channel at most locks and drawbridges. Channel 67 is for the lower Mississippi River only.16International Distress, Safety, and Calling: Use this channel to get the attention of another station (calling) or in emergencies. Ships required to carry a radio maintain a listening watch on this channel. The U.S. Coast Guard and most coast stations also maintain a listening watch on this channel.21A, 23A,U.S. Coast Guard only.22AU.S. Coast Guard liaison and Maritime Safety Informa- tion Broadcasts: Announcements of urgent marine information broadcasts and storm warnings on Channel 16.24,25, 26,27Public Correspondence (Marine Operator): Use these channels to call the marine operator at a public station. By contacting a public coast station, you can make and receive calls from telephones on shore. Except for dis- tress calls, public stations usually charge for this service.70Digital Selective Calling: Use this channel for distress and safety calling and for general purpose calling, using only digital selective calling (DSC) tech	Channel	Type of Message and Use
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<ul> <li>26,27</li> <li>28,84</li> <li>85,86</li> <li>86</li> <li>87</li> <li>86</li> <li>87</li> <li>86</li> <li></li></ul>	22A	tion Broadcasts: Announcements of urgent marine
and safety calling and for general purpose calling, using	26,27 28, 84	channels to call the marine operator at a public station. By contacting a public coast station, you can make and receive calls from telephones on shore. Except for dis-
	70	and safety calling and for general purpose calling, using

#### **Digital Selective Calling (DSC)**

Digital Selective Calling (DSC), allows boaters to instantly send an automatically formatted distress alert to the Coast Guard or other rescue authority anywhere in the world. Digital Selective Calling also allows boaters to initiate or receive distress, urgency, safety, and routine radiotelephone calls to or from any similarly equipped vessel or shore station, without requiring either party to be near a radio loudspeaker. DSC acts like the dial and bell of a telephone, allowing you to "direct dial" and "ring" other radios, or allowing others to "ring" you, without having to listen to a speaker. New VHF and HF radiotelephones have DSC capability.

All DSC-equipped radios, and most GPS receivers, have a data interface connector. The interface allows most models of GPS to be successfully interconnected to DSC-capable radios, regardless of manufacture. The Coast Guard recommends that you interconnect your GPS and DSC-equipped radio. Doing so may save your life in an emergency situation.

Users of a VHF-FM marine radio equipped with Digital Selective Calling will also need to obtain a Maritime Mobile Service Identity (MMSI) number. These are available from BoatU.S., Sea Tow, the FCC and the United States Power Squadrons®. More information on Digital Selective Calling is available online at www.navcen.uscg.gov/MARCOMMS/gmdss/dsc.htm.

When properly registered with an MMSI number and interfaced with GPS, the DSC radio signal transmits vital vessel information in an emergency. With one push of a button, your DSC radio sends an automated digital distress alert containing your MMSI number, position, and the nature of the distress (if entered) to other DSC-equipped vessels and rescue facilities.

#### Rescue 21

Rescue 21 is the advanced command, control, and communications system created to improve search and rescue with stronger VHF-FM marine radio signals, direction-finding capabilities, tracking of ships and aircraft, and better communications with state and local firstresponders. The system is currently being installed in stages across the contiguous 48 states, Alaska, Hawaii, Guam, Puerto Rico, and the Great Lakes. When fully deployed, it will form the backbone of the U.S. Coast Guard's short-range communications system. With increased communications coverage, advanced direction finding capabilities, and Digital Selective Calling, Rescue 21 helps take the "search" out of search and rescue.

#### Capabilities:

- Incorporates direction-finding equipment to improve locating vessels in distress.
- Enhances the clarity of distress calls.
- · Upgrades playback and recording feature of distress calls
- · Allows simultaneous channel monitoring.
- · Provides full coverage out to 20 nautical miles from the coastline
- Reduces coverage gaps for coastal communications and along navigable rivers and waterways.
- Supports Digital Selective Calling.
- Portable towers for restoration of communications during emergencies or natural disasters.
- · Improves interoperability among federal, state, and local agencies.

To take full advantage of Rescue 21, boat operators should upgrade to a DSC-capable VHF-FM marine radio, obtain a Maritime Mobile Service Identity (MMSI) number, enter the number into their radio, and connect the radio to a GPS receiver.

#### For Vessels Equipped with DSC-Capable Radios

If your vessel is equipped with a DSC-capable radio, and you have obtained and registered an MMSI number and it is properly connected to a GPS receiver, you need only press the red DSC Emergency Call Button for 5 seconds. Your vessel information and position will automatically be transmitted, including the nature of the distress (if entered), and a DSC reply should be received. Upon receipt of this acknowledgement, your radio should automatically shift to Channel 16 to continue voice communications with rescue assets. If no reply is received, switch the Channel 16 and use the procedures below.

#### **SOS: Ships in Distress**

Channel 16 is the primary radio channel for ships in distress. To make a distress call on marine VHF-FM Channel 16:

- 1. Make sure radio is on.
- 2. Select Channel 16 for standard marine VHF.
- 3. Press/hold the transmit button.
- 4. Clearly say: MAYDAY, MAYDAY, MAYDAY.

- 5. Also give:
  - Vessel name, number and/or description.
  - · Position and/or location.
  - Nature of emergency.
  - Number of people on board.
- 6. Release transmit button.
- Wait for 10 seconds. If no response, repeat "MAYDAY" call as above.

\*\*\*Make sure all persons are wearing their life jackets\*\*\*

#### Maritime Search and Rescue

To report Maritime Search and Rescue Emergencies, call the following numbers:

For the Great Lakes, Gulf and East Coasts: Atlantic Area Command Center: (757) 398-6700

For the Hawaiian, Alaskan and Pacific Coasts: Pacific Area Command Center: (510) 437-3701

#### **False Distress Alerts**

It is unlawful to intentionally transmit a false distress alert, or to unintentionally transmit a false distress alert without taking steps to cancel that alert. Boaters who transmit a false distress alert are required to immediately cancel the alert.

If you inadvertently transmit a false DSC alert:

- 1. Reset the equipment immediately.
- Tune for radiotelephony on the associated distress and safety frequency in each band in which a false distress alert was transmitted.
- 3. Transmit a broadcast message to "All Stations" giving the ship's name, call sign, time the alert was transmitted and MMSI, and cancel the false alert on the distress and safety frequency in each band in which the false distress alert was transmitted.

Please post these guidelines near your radio.

## **OTHER RESPONSIBILITIES**

#### Regulated Navigation Areas/Limited Access Areas (33 CFR 165)

In the aftermath of the September 11, 2001, terrorist attacks on the World Trade Center and the Pentagon, and the earlier attack on the USS Cole in Aden Harbor, Yemen, the United States Coast Guard established Safety and Security Zones to prevent further attacks on U.S. Naval vessels, cruise ships and commercial vessels, and critical infrastructure – such as petroleum facilities and nuclear power plants situated on or near the water. As a boater, not knowing how to act in certain areas or situations may put you in legal jeopardy or, worse, at risk of personal injury.

Help protect our country by learning the new rules:

#### **Naval Vessel Protection Zones**

Do not approach within 100 yards, and slow to minimum speed within 500 yards, of any U.S. Naval vessel. If you need to approach within 100 yards in order to ensure a safe passage in accordance with the Navigation Rules, you must contact the U.S. Naval vessel or the U.S. Coast Guard escort vessel on your VHF radio (Channel 16) for authorization.



If a Naval vessel is passing near where you are operating your boat, you may be asked to move your vessel to maintain the 100-yard distance. The U.S. Coast Guard will make an announcement ahead of time to alert boaters in the area.

Violations of the Naval Vessel Protection Zone are a felony offense, punishable by up to 6 years in prison and/or up to \$250,000 in fines.

Be aware that both the U.S. Navy and the U.S. Coast Guard are authorized to use deadly force to protect themselves.

#### **Commercial Shipping Safety Zones**

In addition to the Naval Vessel Protection Zone requirements, you must also avoid operating your vessel near all military vessels, cruise liners, and certain commercial vessels.



Observe and avoid all security zones and commercial port operations. Areas that have large marine facilities – including military, commercial/ cruise, or petroleum facilities – should be avoided. There are also restrictions near most dams, power plants, and other facilities located near water.

#### **Bridges and Shipping Channels**

Do not stop or anchor beneath bridges or in shipping channels. If you do, you can expect to be asked to move and/or be boarded by law enforcement officials.



#### America's Waterway Watch

If you operate a towboat, marina, recreational vessel, fishing vessel, or otherwise live, work, or engage in recreational activities on or near the nation's waterways, the United States Coast Guard would like your help in keeping these areas safe and secure. You can do this by participating in America's Waterway Watch (AWW), a nationwide initiative similar to the well-known and successful Neighborhood Watch program that asks community members to report suspicious activities to local law enforcement agencies.



We ask boaters to call 877-24WATCH if they notice suspicious activity or behavior on or near the water. Things to report include:

- Someone taking pictures, video, or making sketches of facilities like bridges, tunnels, ferry transport systems, fuel docks, or power plants.
- · Someone asking questions about access to one of these facilities.

- Someone anchoring, fishing, or diving in an area not typically used for that activity.
- Unattended vessels in unusual locations.
- Unusual transfer of personnel or cargo while underway.
- · Seeing a hole in a security fence around an industrial facility.



*Do not* take matters into your own hands. Call 877-24WATCH. In cases of immediate danger to life or property, call the Coast Guard on Channel 16 VHF-FM, or dial 911 for emergencies.

America's coasts, rivers, bridges, tunnels, ports, ships, military bases, and waterside industries may be targets for terrorist activity. Although waterway security is better than ever, with more than 95,000 miles of shoreline and more than 290,000 square miles of water, the U.S. Coast Guard and local first responders cannot do the job alone.

To find out how you can become involved, visit the America's Waterway Watch website at www.americaswaterwaywatch.org.

### **USCG INFORMATION**

United States Coast Guard Boating Safety Division (CG-5422) 2100 2nd Street SW, STOP 7581 Washington, D.C. 20593-7581 (202) 372-1062 www.uscgboating.org

#### **District Recreational Boating Safety Specialists:**

First District: Connecticut, Maine, Massachusetts, New Hampshire, New York, Rhode Island, Vermont (617) 223-8464

Fifth District: Delaware, Maryland, New Jersey, North Carolina, Pennsylvania, Virginia, District of Columbia (757) 398-6204

Seventh District: Florida, Georgia, South Carolina, Puerto Rico, U.S. Virgin Islands (305) 415-7057

Eighth District: North Dakota, South Dakota, Wyoming, Nebraska, Minnesota, Iowa, Illinois, Indiana, Ohio (shared with Ninth District), Pennsylvania, West Virginia, Kentucky, Tennessee, Mississippi, Alabama, Georgia, Florida (shared with Seventh District) Louisiana, Arkansas, Missouri, Oklahoma, Kansas, New Mexico, Colorado, Texas. (504) 671-2157

Ninth District: Michigan, Minnesota, Ohio, Wisconsin (216) 902-6094

**Eleventh District:** Arizona, California, Nevada, Utah (510) 437-5364

Thirteenth District: Idaho, Montana, Oregon, Washington (206) 220-7257

Fourteenth District: Hawaii, Guam, American Samoa, Northern Marianas (808) 535-3424

Seventeenth District: Alaska (907) 463-2297

The U.S. Coast Guard thanks the following partners for their support:

U.S. Coast Guard Auxiliary www.cgaux.org

United States Power Squadrons® (888) 367-8777 www.usps.org

National Association of State Boating Law Administrators (859) 225-9487 www.nasbla.org

National Safe Boating Council (703) 361-4294 www.safeboatingcouncil.org

National Water Safety Congress (440) 209-9805 www.watersafetycongress.org



For more information, please contact:



**APPENDIX C** 

FLOAT PLAN FORM



APPENDIX D

**VESSEL SAFETY CHECKLIST** 

VESSEL SAFE CHECKLIST	
VESSEL CHECKS	SAFETY EQUIPMENT
Check battery switch	□ Check weather report
☐ Check fluids (engine oil, fuel, coolant)	□ Marine VHF
□ Check fuel line	□ Cell phone
Check navigation and running lights	Compass/GPS and charts
□ Check bilges and bilge pump	□ PFDs (each passenger and throwable)
$\Box$ Anchor and rode	☐ Fire extinguisher
$\Box$ Dock lines and floats	□ First aid kit
□ Boat hook and mooring lines	□ Foul weather gear bailing device
□ Paddle	□ Safety whistle
□ Tools, spare parts, and knife	Visual signaling devices
Test steering for ease of movement	□ Bailing device or bucket
□ Stow and secure gear	□ Flashlight



APPENDIX E

## **EMERGENCY CALL PROCEDURES GUIDE**

## WATERCRAFT EMERGENCY CALL PROCEDURES

- 1. Tune Marine VHF Radio to Channel 16.
- 2. Follow this call method:
  - a. Distress signal "MAYDAY" spoken three times.
  - b. The words "THIS IS" spoken one time.
  - c. Name of vessel in distress spoken three times.
  - d. Call sign or boat registration number spoken once.
  - e. Repeat "MAYDAY" and name of vessel spoken once.
  - f. Give position of vessel by latitude and longitude (preferable) or by bearing (Note: true or magnetic, and state which) and distance to a well-known landmark such as a navigational aid. Use whatever features you can to make your location known if you do not have a GPS or compass.
  - g. Include information on vessel movement course, speed, and destination.
  - h. Give nature of distress (e.g., fire, injury, sinking, etc.).
  - i. Kind of assistance required.
  - j. Number of passengers onboard.
  - k. Any additional information that may facilitate rescue, such as number of injured passengers and nature of injuries.
  - I. The word "OVER" spoken one time.
  - m. Repeat at intervals until an answer is received.
- 3. Stay by the radio, if possible. Transmitting a signal from a radio may help rescuers hone in on vessel location.

## EXAMPLE MAYDAY CALL

## MAYDAY-MAYDAY-MAYDAY

## THIS IS FRIAR-FRIAR-FRIAR RI1234

## MAYDAY FRIAR

## POINT JUDITH LIGHT BEARS 185 DEGREES MAGNETIC – DISTANCE 2 MILES

## STRUCK SUBMERGED OBJECT-NEEDS PUMPS MEDICAL ASSISTANCE AND TOW

## THREE ADULTS ONBOARD

## ONE PERSON COMPOUND FRACTURE OF ARM

## ESTIMATE CAN REMAIN AFLOAT TWO HOURS

## FRIAR IS 16 FOOT ALUMINUM FISHING BOAT

## OVER



APPENDIX F

## **RHODE ISLAND BOATING ACCIDENT FORM**



RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**Division of Law Enforcement** 235 Promenade Street, Room 250 Providence, RI 02908 401-222-3070 Fax 401-222-6823 Telecommunication for Hearing Impaired 711

# INSTRUCTIONS FOR COMPLETING THE RHODE ISLAND BOATING ACCIDENT REPORT

Rhode Island boating accident report must be filled out by the owner/operator of any vessel that is involved in a boating accident on the inland waters and the coastal waters contiguous to this state that meets the following criteria:

- 1. Loss of life or disappearance from a vessel.
- 2. Injury to any person that requires medical treatment beyond ordinary first aid. (if you go to the emergency room or call a rescue, it is beyond first aid)
- 3. Property damage in excess of \$2000.00 (combined damage to both vessels if more than one vessel involved)
- 4. Complete loss of a vessel.

Reportable accidents must be submitted within five (5) days after the incident on forms provided by the department.

Accidents must be reported to the State Authorities where the accident occurred.

If more than one vessel is involved the <u>owner/operator of all vessels</u> must fill out and file a boating accident report.

When filling out a boating accident report, insure that **all** of the blocks are filled out completely.

- 1. Most information about your boat can be found on the registration card.
- 2. Both the operator and the owner information is required to be completed.
- 3. Addresses should be complete including zip codes.
- 4. Damage estimates <u>MUST</u> be filled out. (Best guess estimate is acceptable and changed as information is received).
- 5. Accident description should be as clear and accurate as possible. Diagrams and description can be continued on additional sheets if necessary. Include any information as to the involvement of alcohol or drugs in the cause or contributing to the accident. Include any descriptive information about the use of lifejackets (PFD's) that may have contributed to the survival or assistance to anyone involved.
- 6. To submit form electronically, follow instructions on the form. If you are having difficulty submitting this form, it is recommended that you save this form to your computer or other electronic device prior to submitting.
- 7. To submit printed forms, please mail to:

Department of Environmental Management Division of Law Enforcement 235 Promenade Street, Room 250 Providence, RI 02908 Attention: Boating Accident

If you have any difficulty with/or questions regarding the BOATING ACCIDENT FORM, you may call this office at (401) 222-3070 during normal business hours and your call will be referred to an Environmental Police Officer for assistance.



## **BOATING ACCIDENT REPORT**

State of Rhode Island and Providence Plantations Department of Environmental Management 235 Promenade Street, Room 250 Providence, RI 02908 (401) 222-2284

Division of Law Enforcement Environmental Police

<b>RIGL 46-22-21</b> requires that any operator or owner of a vessel involved in an accident which results in death, personal injury beyond first aid, or damage to the vessel(s) and/or property that exceeds \$2000.00 must report the accident IMMEDIATELY to Rhode Island Environmental Police, USCG or local authorities. <b>RIGL 46-22-5(j)/Rule14(2)</b> requires that any operator or owner of a vessel involved in an accident which results in death, personal injury beyond first aid, or damage to the vessel(s) and/or property that exceeds \$2000.00 must submit a BOATING ACCIDENT REPORT to the Rhode Island Environmental Police within five (5) days of the accident.																	
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Revised 08/16/2018

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NAME OF VICTIM	1					ADDRESS	OF VI	ІСТІМ						WAS L	IFE J		WORN	
															YES		NO	
DATE OF BIRTH	GENDER							071150	DEATH	CAUS								
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NAME OF OWNER						OWNER AD	DRE	SS						C	OWNE		EPHONE	NUMBER
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ACCIDENT DESCRIPTION DESCRIBE WHAT HAPPENED (SEQUENCE OF EVENTS) INCLUDE FAILURE OF EQUIPMENT. INCLUDE A DIAGRAM IF NEEDED. CONTINUE ON ADDITIONAL PAGE IF NECESSARY.																		
INCLUDE ANY INFORMATION REGARDING THE INVOLVEMENT OF ALCOHOL AND/OR DRUGS IN CAUSING OR CONTRIBUTING TO THE ACCIDENT. INCLUDE ANY DESCRIPTIVE																		
FOR AGENCY USE ONLY																		
CAUSES BASED O	N (check or	1e) 🗖	TH	IS REPO	DRT	_		IGATION	_			N AND T	HIS R	EPORT		] 0	THER	
NAME OF REVIEW		,				DATE REC			_		ATIONA			MMERCIA				REPORTABLE
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ACCIDENT DESCRIPTION CONTINUED



APPENDIX G

**ON-THE-JOB INJURY FORM** 



# **ON-THE-JOB INJURY REPORT**

## **EMPLOYEE INFORMATION**

Name:					
Address:					
City, State, Zip: Home Phone:			Banner ID:		
Title/Department:			Supervisor:		
INJURY INFORMATION		т. ст.			
Date of Injury: Date Supervisor Notified:		Time of Injury: Time Workday B	2000		AM PM AM PM
First full day lost from work:		Has employee ret		Yes	
Did the injury occur on campus?	Yes No	Date returned to v			
Exact location where injury occurred:					
Describe work activities at the time of the incid	lent and how the inj	ury occurred:			
	D 11		•••	• • •	
Circle the Affected Body Part(s): Left Right Right Left	Note: Describe	the nature of the ibe all injuries sustained	<b>Injury</b> (e.g., spra during the incident.	ain, burn, etc.	<u>):</u> itv.
				,	
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A.Y. MA					
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MEDICAL INFORMATION			INFORMATI		
		Note: List all ind	dividuals (PC and co	ntractor) present	at the incident.
Treatment Facility:		Name:			
Address:		Name:			
City, State, Zip		Name:			
Telephone:		Name:			
Supervisor's Signature			Date		
Employee's Signature		· -	Data		
Employee's Signature			Date		



**APPENDIX H** 

STUDENT INJURY REPORT FORM

## **Student Injury Report Form**

<u>Directions</u>: Submit to the Department Chair and the Office of Environmental Health and Safety at <u>iparrett@providence.edu</u> within 24 hours of the injury.

Name of Injured Person:	
Date of Injury:	
Where Injury Occurred: Building:	Room Number:
Description of the injury:	

Description of how the injury took place:

Action taken in response to the injury:

Signature of Injured Person

Signature of Supervising Faculty Member

Received by:

**Department Chair** 

Date

Date

Date