COMMERCIAL FISHING VESSEL EMERGENCY INSTRUCTION & DRILL MANUAL

F/V

As required by the Commercial Fishing Industry Vessel Safety Act of 1988 46 CFR 28.265



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WHY THIS BOOK?

This manual was compiled to help commercial fishermen meet two requirements of the Commercial Fishing Industry Vessel Safety Act of 1988: monthly onboard drills and emergency instructions. It provides a foundation for conducting onboard safety training in an easy-to-use format and contains the necessary emergency instructions required to be available to your crew.

As of 1993, documented commercial fishing vessels that fish beyond the boundary line are required to have an emergency instruction & drill manual. However, all mariners, commercial and recreational, will find it useful.

Studies and actual vessel casualties have shown that training increases your chance of survival. The information contained here can help you plan your course of action in case of an emergency. We recommend a hands-on safety-training course as a compliment to the information in this book. For information about port-based training in your community contact AMSEA at the address below. AMSEA also maintains a list of marine safety resources including books and videotapes.

The Alaska Marine Safety Education Association (AMSEA) is a nonprofit, community based information and training network. AMSEA's mission is to reduce injury and death in the marine and freshwater environment through education and training provided by a network of qualified marine safety instructors.

We welcome your comments and suggestions. Please direct them to:

AMSEA 2924 Halibut Point Road Sitka, Alaska 99835 907-747-3287 www.amsea.org

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HOW TO USE THIS BOOK

Captains and drill leaders should use this book as a guide for vessel orientations, drills and debriefs. Every crewmember should be familiar with its contents. This book should be kept readily available at all times.

General Instructions: Explains what all crewmembers are responsible for knowing while onboard your vessel.

Vessel Orientation for Newcomers: A checklist of topics to be covered with every crewmember including vessel layout, safety and survival equipment, and emergency assignments.

How to Conduct an Effective Drill: Onboard safety drills are required to be done monthly. Here you will find tips for conducting drills that are positive experiences for all crewmembers.

*Emergency Equipment Location & Abandon Ship: An outline is provided to allow for a customized layout of emergency equipment and abandon ship station.

*Emergency Assignments and Signals: A place to list crewmember names and/or positions with specific responsibilities in case of person overboard, fire, flooding, and abandon ship. Also lists the signals for these emergencies.

***Distress Broadcast:** Outlines proper Mayday format. Write in your boat name, call sign and vessel description.

***Donning Immersion Suits:** Instructions for quick and proper donning of an immersion suit.

Emergency Anchoring: Procedure for emergency anchoring.

Person Overboard: Procedure for person overboard includes key points that should be covered in drill debrief.

Unintentional Flooding/Rough Weather at Sea/Crossing Hazardous Bars: Signal and instructions for unintentional flooding, rough weather at sea and crossing a hazardous bar. Includes key points that should be covered in drill debrief.

Fire: Procedure for an onboard fire. Includes key points that should be covered in drill debrief.

Abandon Ship: Procedure for abandoning ship. Includes key points that should be covered in drill debrief.

****Safety Orientation Log:** A log to be signed by crewmembers to verify their understanding of the emergency instructions contained within this manual and how they pertain to your vessel.

****Monthly Drill Log:** A log to record date and type of drill given.

****Monthly EPIRB Test Log:** A log to record date and time of monthly EPIRB test. Includes space to note EPIRB battery and hydrostatic release expiration dates.

Additional Information: Space for information added by vessel owner or captain.

*Note: Instructions required to be posted on documented fishing vessels operating beyond the boundary line. Vessels with less than four persons onboard do not have to post but must keep instructions readily available.

**Note: Two pages are provided. Use the second page to make additional copies as needed..

GENERAL INSTRUCTIONS

Captain _____

- 1. All persons on board shall:
 - a. Report to the Captain for an orientation briefing.
 - b. Have emergency duties.
 - c. Be responsible for knowing their emergency duties.
- 2. Emergency Duties include knowing:
 - a. The location of lifesaving and emergency equipment.
 - b. How to operate assigned equipment.
 - c. How to make a distress call.
 - d. What to do in the event of a person overboard.
 - e. What to do in the event of a fire.
 - f. What to do in the event of flooding.
 - g. What to do in the event of abandon ship order.

VESSEL ORIENTATION FOR NEWCOMERS

Show Vessel Layout

Show Vessel Safety and Survival Equipment

- __Immersion suit/PFD: need, stowage, fit, donning
- Liferaft/survival craft: need, location, function, deployment, what not to do
- EPIRB: need, location, function, deployment, what not to do
- Radio(s): need, location, function, use
- Electronic position fixing devices: function, how to find position
- Flares: need, location, function, use, what not to do
- Fire extinguishers: location, function, use, what not to do
- __Other equipment: line thrower, person overboard recovery gear, first aid kit, etc.
- __Engine: on/off, steering, gear selection, etc
- __Shut off and crossover valves
- ___Alarms: what they are; what they mean; reporting inoperative alarms
- __Entrapment: exit routes
- ___Hazards: hatches, winches, machinery, lines, slippery areas, etc.
- ___Hypothermia recognition and treatment
- __Drug and alcohol policy
- __Placards: report all injuries; report all malfunctions; waste disposal
- __Emergency instructions: both posted and in book

Emergency Assignments (Station Bill) – Each Crewmember's Specific Duties in:

- Abandoning the vessel
- _Fighting fires in different locations onboard the vessel
- __Recovering an individual from the water
- __Minimizing the effects of unintentional flooding
- _Launching survival craft and recovering lifeboats and rescue boats
- ____Donning immersion suits and wearable PFDs
- ____Donning fireman's outfit and self-contained breathing apparatus (if so equipped)
- ____Making a voice radio distress call
- ____Using visual distress signals
- Activating the general alarm
- ___Reporting inoperative alarm systems and fire detection systems

HOW TO CONDUCT AN EFFECTIVE DRILL

Be Realistic

- Scenarios should be as realistic as possible.
- Crews should feel some pressure; pressure is normal. However, each crewmember must understand his or her **personal responsibility to be safe. It is part of the job.**

Be Spontaneous

- Don't always announce drills ahead of time, but always announce a drill as a drill
- Don't always conduct drills at the same time or place. Try them at the dock, while underway, at night, in heavy rain. Be creative!

Do Hands-On Drills

- Retention for hands on learning is 90 percent.
- Crewmembers should touch equipment as much as practical.
- Familiarity with equipment during both night and day should be stressed.

Make Drills Progressive

- Start with simple walk-through and build skill and speed, but never include running.
- Progress to more complicated scenarios.
- Throw in "curves" to make scenarios more interesting.

Build Teamwork

- Build on the team that you already have for fishing.
- Teamwork will increase efficiency and save lives.
- Crewmembers should cross-train to cover each other's responsibilities in the event of injury. If the skipper is injured is the crew prepared?
- All hands should participate in drills.

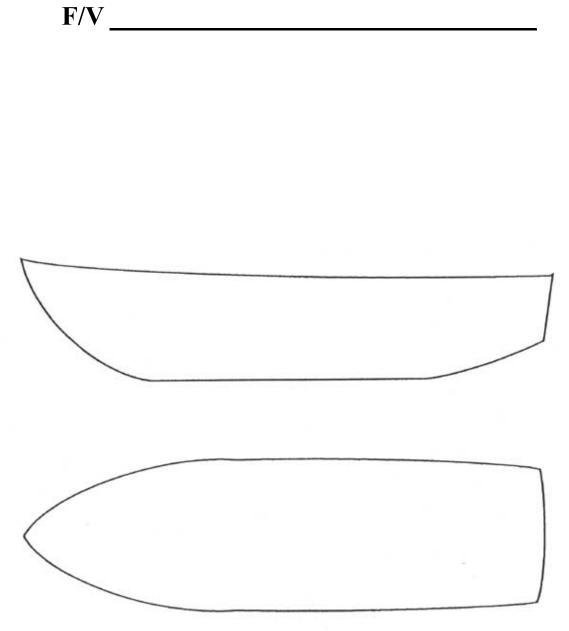
Be Positive

- Drills should not have a punitive cost and should never be used to harass, intimidate or frustrate.
- Drills can be fun . . . a chance to feel good about those you must count on in an emergency.

Debrief All Drills

- A drill is not complete until it is debriefed.
- Each member should talk about what was learned and how it could be done better.

EMERGENCY EQUIPMENT AND ABANDON SHIP FOR



Codes to Use:

EPIRB	EPIRB	ISUIT	Immersion Suits
RADIO	Radio	0	Life Rings
PFD	PFDs	RAFT	Liferaft
FEX	Fire Extinguishers	FL	Flares
ABSTA	Abandon Ship Station		

	EMERGEN	EMERGENCY ASSIGNMENTS	SLN3	
Note: Alternate signals may be determined and practiced by vessel operator	PERSON OVERBOARD Signal: 3 long blasts repeated at least 4 times	FIRE Signal: 1 long continuous blast not less than 10 seconds	FLOODING Signal: 1 long continuous blast not less than 10 seconds	ABANDON SHIP Signal: At least 7 short blasts followed by 1 long blast
Position/Name	Station/Bring/Duty	Station/Bring/Duty	Station/Bring/Duty	Station/Bring/Duty
Captain				
All Others				

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Captain				
All Others				

DISTRESS BROADCAST

- Make sure communications equipment is on.
- Select 156.8 MHz (VHF channel 16), 4125 kHz or other distress frequency used in your area of operation. Note: VHF channel 16 and 4125 kHz are for emergency and calling purposes only.
- Press microphone button. Speak slowly, clearly and calmly. Say:

MAYDAY, MAYDAY, MAYDAY

This is the F/V_____, F/V_____, F/V_____. Over.

• Release microphone button briefly and listen for acknowledgement. If no one answers say:

MAYDAY, MA	AYDAY, MAYDAY			
This is the F/V_	, F/V_		, F/V	
			(Use latitude/longitud LORAN readings, etc.) R	
I am	(Sinkin	ng, on fire,	listing, etc.)	
I estimate that I	can stay afloat		hours/minutes.	
I have	persons o	on board.		
My vessel is a long, has a		type	of vessel,	_ feet
	color hull with		color trim, and	
I will be listenir	ng on channel			
This is the F/V_		Over.		

- Release microphone button. If situation permits, stand by the radio to await further communications with the Coast Guard or another vessel.
- If no answer and situation permits, try another channel and repeat.

DONNING IMMERSION SUITS

Your life may depend on your ability to quickly don an immersion suit in an emergency, so it makes sense to have done it before. Monthly practice should reduce your donning time from minutes to seconds.

Practice donning the suit while sitting on deck. Vessel movement or list often prevents donning while standing.



Sit on the deck and work your legs into the suit, leaving boots or shoes on if possible. Placing plastic bags over your boots or shoes may make suit donning easier. Wear or bring extra warm clothing if possible. Pull the hood over your head, then place one arm into each sleeve of the suit and reset the hood on your head.

OR

Place your weaker arm into the sleeve of the suit. Then reach up and pull the hood over your head with your free hand. Then place your strong arm into the sleeve of the suit.

Hold the zipper below the slide with one hand, and fully close the zipper by pulling on the lanyard. Then secure the flap over your mouth.



WARNINGS

- To prevent possible injury, do not inflate the air bladder until you are in the water.
- Ease or lower yourself into the water. Jump only if necessary.
- Beware of snagging on gear.
- Keep the hood on it could save your life.

EMERGENCY INSTRUCTION FOR ANCHORING

- 1. Choose a location with protection from the wind and seas if possible, and with a suitable bottom.
- 2. Anchor in a **maximum water depth** of _____ feet or _____ fathoms. (Note: This vessel has _____ feet or _____ fathoms of line/chain.)
- 3. Approach the anchorage location slowly and head the bow into the wind or current, whichever is stronger.
- 4. When the vessel starts to back slowly, ease the anchor to the bottom.
- Quickly pay out a scope of five (in good weather) to 10 times (in bad weather) times the water depth in anchor line/chain.
 Secure the anchor line/chain. If drift is not rapid, back down with minimum power to set the anchor.
- 6. Maintain an anchor watch to feel the anchor drag and look out for any vessel drift. Be prepared to get underway if vessel drags anchor.

PERSON OVERBOARD

- 1. Throw a ring life buoy or flotation as close to the individual as possible.
- 2. Post a lookout to keep the individual in the water in sight and communicate the distress and position to the pilothouse.
- 3. Pilothouse watch to **sound alarm and maneuver as necessary**. Mark position electronically.
- 4. Launch a **rescue boat or platform** to recover the individual, **if appropriate**.
- 5. Have a **crew member put on a PFD or immersion suit**, attach a **safety line** to the crew member and have crew member stand by to enter the water to **assist** in recovery **if appropriate**.
- 6. If individual overboard is not immediately located, notify the Coast Guard and other vessels in the vicinity; and continue searching until released by the Coast Guard.

UNINTENTIONAL FLOODING, ROUGH WEATHER AT SEA, AND CROSSING HAZARDOUS BARS

Signal: 1 long continuous blast not less than 10 seconds.

1. a. If unintentional flooding: notify pilothouse immediately to sound alarm & call Mayday.

b. If rough weather at sea or crossing a hazardous bar is anticipated, notify the entire crew.

- 2. Close all watertight and weather-tight doors, hatches, ports, and air vents to **prevent taking water aboard or further flooding** in vessel.
- 3. Keep bilges dry to **prevent loss of stability due to water** in bilges. Use power driven bilge pumps, hand pumps, fire pumps and buckets to **dewater**.
- 4. Check all intake and discharge lines that penetrate the hull for leakage. All crewmembers should know the location and operation of all through-hull lines.
- 5. On a small vessel, crew should keep their collective weight evenly distributed.
- 6. Personnel should **don immersion suits/PFDs** if the going becomes very rough, the vessel is about to cross a hazardous bar, or **when** otherwise **instructed by the master** or individual in charge of the vessel.

WARNING

If immersion suits/PFDs are worn inside the vessel, their buoyancy may hamper escape during a sudden capsizing.

FIRE

- 1. Notify pilothouse immediately to sound alarm and call Mayday.
- 2. Shut off air supply to fire: close hatches, ports, doors, vents, etc.
- 3. **De-energize electrical systems supplying the affected space**, if possible.
- 4. Assemble portable fire fighting equipment.
- 5. Account for personnel and fight fire. Do not use water on electrical fires.
- 6. If fire is in machinery space, **shut off fuel supply** and use fixed extinguishing system if appropriate.
- 7. Maneuver vessel to **minimize effect of wind** on the fire.
- 8. Move survival gear that could be damaged by fire.
- 9. Check adjoining spaces to prevent spread of fire.
- 10. Once fire is extinguished, begin dewatering to avoid stability problems.
- 11. If unable to control fire, notify Coast Guard and nearby vessels. Prepare to abandon ship.

ABANDON SHIP

- 1. **Preparations** should include the following as time and circumstances permit:
 - a. General alarm and mayday
 - b. All personnel don immersion suits/PFDs and warm clothing
 - **c. Prepare to launch liferaft**; attach sea painter to vessel above weak link
 - **d.** Get abandon ship kit including signals (EPIRB, flare signal smoke, flashlights, hand-held radios, etc.), first aid kit, water and food
 - e. Gather other useful items
- 2. Meet at abandon ship station
- 3. When sinking is imminent or when remaining onboard is inappropriate:
 - a. Close watertight openings
 - b. Launch and board liferaft
 - c. Keep sea painter attached to vessel but be prepared to cut it immediately if there is risk to raft or if vessel begins to sink
 - d. Activate EPIRB and begin Seven Steps to Survival (see last page)

SAFETY ORIENTATION LOG FOR F/V _____

_

This certifies that I have read and received a safety orientation briefing on this vessel including the instructions, emergency assignments and diagrams contained herein and understand the above.

Date	Printed Name	Signature
<u> </u>		

SAFETY ORIENTATION LOG FOR F/V _____

This certifies that I have read and received a safety orientation briefing on this vessel including the instructions, emergency assignments and diagrams contained herein and understand the above.

Date	Printed Name	Signature

		Σ	ONT	HLY	DRII	MONTHLY DRILLS LOG	90					
Drill Performed	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
1. Abandoning vessel												
2. Fighting fires in different locations												
3. Person overboard												
4. Minimizing the effects of flooding												
 Launching survival craft & recovering life boats and rescue boats 												
6. Donning immersions suits & PFDs												
7. Donning fire-fighting outfit & SCBA												
8. Mayday; using visual distress signals												
9. Activating general alarm												
10. Reporting inoperative alarms and fire												
All personnel onboard must receive a safety orientation that includes the above PLUS the contents of the vessel's emergency instruction manual.	e a safety	orientatior	that inclu	udes the a	bove PLU	JS the con	tents of th	e vessel's	emergenc	sy instruct	ion manua	al.
Drill Instructor Signature:							AMSI	AMSEA Card Number:	Vumber:			
							I		I			

		Σ	ONT	HLY	DRII	MONTHLY DRILLS LOG	90					
Drill Performed	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
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Drill Instructor Signature:							AMSI	AMSEA Card Number:	Vumber:			
							I		I			

MONTHLY EPIRB TEST LOG FOR

F/V_____

Battery Expiration Date	
Hydrostatic Release Expiration Date	

Date	Time	Comments	Date	Time	Comments

Note: 406 MHz EPIRBs can be tested any time. All other EPIRBs can be tested the first 5 minutes of any hour. Batteries and hydrostatic release are dated and should be changed as indicated.

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