

**Documented Vessels Operating Beyond the Boundary Line or with more than 16 POB**

**High Water Alarms**

#168

46 CFR 28.250

**BIG 8**

**Applies to:**

Documented fishing industry vessels:

1. operating beyond the Boundary Line or with more than 16 persons on board, and
2. which are **36 feet or more** in length.

**Requirement:**

- **Visual** and **Audible** alarm at the operating station to indicate high water levels in unmanned spaces.

**Acceptability:**

The following spaces must be included:

- A space with a **through hull fitting** below the deepest load waterline, such as a lazarette.
- A space **subject to flooding from sea water piping**, such as a machinery space bilge, bilge well, shaft alley bilge.
- A space with a **non-watertight closure**, such as a space covered with a non-watertight deck hatch.

**Documented Vessels Operating Beyond the  
Boundary Line or with more than 16 POB****Drills & Safety Orientation**

#171

46 CFR 28.270

**Applies to:** Documented fishing industry vessels operating beyond the Boundary Line or with more than 16 persons on board.

**Requirements:****A. Drills**

The master or individual in charge of each vessel must ensure that drills are conducted and instructions given to each individual on board at least **once each month** so as to ensure that each individual is familiar with their duties and responses to at least the following contingencies:

1. Abandoning the vessel.
2. Fighting a fire in different locations on board the vessel.
3. Recovering an individual from the water.
4. Minimizing the affects of unintentional flooding.
5. Launching survival craft and recovering lifeboats.
6. Donning immersion suits and other wearable PFDs.
7. Donning a fireman's outfit and a self-contained breathing apparatus, if vessel is so equipped.
8. Making a voice radio distress call and using visual distress signals.
9. Activating the general alarm.
10. Reporting inoperative alarm and fire detection systems.

**Drills must be conducted on board the vessel as if there were an actual emergency and must include participation by all persons on board.**

**B. Safety Orientation** - The master or individual in charge of a vessel must ensure that a safety orientation is given to each individual on board that has not participated in the required drills before the vessel may be operated.

**C. Training** - No individual may conduct drills or provide instructions unless that individual has been trained in the proper procedures for conducting the activity.

**Note:** The individual conducting the drills and instruction need not be the master, individual in charge of the vessel, or a member of the crew.

**Documented Vessels Operating Beyond the  
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**Fireman's Outfit & SCBA**

**#160**

46 CFR 28.205

**BREATHING APPARATUS:**

Documented commercial fishing vessels that use **Ammonia Refrigerant** must have:

- A. Two **self-contained breathing apparatus** that:
  - 1. have as a minimum, a 30 minute air supply
  - 2. have a full facepiece
  - 3. have at least one spare bottle per each SCBA
  - 4. is approved by MSHA and NIOSH

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**FIREMAN'S OUTFIT:**

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Documented fishing vessels **operating with more than 49 persons on board** must have:

- A. Two **firemen's outfits** in widely separated locations that include:
  - 1. Self-contained breathing apparatus with lifeline attached
  - 2. One flashlight
  - 3. A rigid helmet
  - 4. Boots
  - 5. Gloves
  - 6. Protective clothing
  - 7. One fire axe

**Documented Vessels Operating Beyond the Boundary Line or with more than 16 POB**

**First Aid Equipment & Training #161**  
46 CFR 28.210

**Applies to:** Documented fishing industry vessels operating beyond the Boundary Line or with more than 16 persons on board.

**Requirements:**

**A. Equipment**

1. First Aid Manual
2. Medicine Chest

**B. Training**

No. of POB	Persons Certified*	
	First Aid	CPR
More than 2	1	1
More than 16	2	2
More than 49	4	4

**Note:** An individual certified in both first aid and CPR may be counted for both requirements.

**\* A certificate indicating completion of:**

Acceptable First Aid Courses:

- American National Red Cross
- Coast Guard approved course

Acceptable CPR Certificates:

- American National Red Cross
- American Heart Association
- Coast Guard approved course

**Acceptability:**

**First Aid manual and medicine chest** must be -

- of a size suitable for the number of persons on board and
- readily accessible.

**1<sup>ST</sup> Aid/CPR Training**

- Proof of having had the training. The training is not required to be current, i.e., annual CPR training is not required.

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**Guards for Exposed Hazards #162**  
46 CFR 28.215

**Applies to:** Documented fishing industry vessels operating beyond the Boundary Line or with more than 16 persons on board.

**Requirements:**

- Suitable hand covers, guards, or railings must be installed in the way of machinery which can cause injury to personnel.
- Exhaust pipes from an engine in reach of personnel must be insulated or guarded to prevent burns.

**Examples of items to be guarded:**

- ⇒ gearing
- ⇒ chain or belt drives
- ⇒ rotating shafting
- ⇒ electrical hazards

**Note:** This is not meant to restrict access to fishing equipment such as:

- ◇ winches
- ◇ drums
- ◇ gurdies

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**Navigational Information**

**#163**

46 CFR 28.215

**Applies to:** Documented fishing industry vessels operating beyond the Boundary Line or with more than 16 persons on board.

**Requirements:**

Each vessel must have, for the area to be transited and operated in, current editions of:

- A. **Marine Charts** properly scaled and with current corrections
- B. A copy or extract of:
  - 1. **U.S. Coast Pilot (#7 for WA/OR/CA/HI)**
  - 2. **Coast Guard Light List**
  - 3. **Tide Tables**
  - 4. **Current Tables**
- C. **Inland Navigation Rules** must be carried by vessels of 39.4 ft (12m) or more in length operating shoreward of the COLREG Demarcation Line.

**Acceptability:**

- “Current” is considered corrected through the latest Notice To Mariners OR: Chart—the latest edition. Coast Pilot/Light List—within the past 3 years.
- Charts must be of large enough scale to safely navigate the area and currently corrected.
- Computer navigation charts are not accepted at this time.

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**Compasses & Deviation Tables #164**

46 CFR 28.230

**Applies to:** Documented fishing industry vessels operating beyond the Boundary Line or with more than 16 persons on board.

**Requirements:**

1. Magnetic steering compass
2. Compass deviation table

**Acceptability:**

- Compass must be operable.
- Deviation table must be located at the operating station.

**Note:** It is recommended that at least 8 points of the compass be checked and recorded on the deviation table.

**Documented Vessels Operating Beyond the Boundary Line or with more than 16 POB**

**Anchor**

**#165**

46 CFR 28.235

**Applies to:** Documented fishing industry vessels operating beyond the Boundary Line or with more than 16 persons on board.

**Requirements:**

- Anchor with chain, cable, or rope.
- Appropriate for the vessel and waters.

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**Radar Reflectors**

**#165**

46 CFR 28.235

**Applies to:** Documented fishing industry vessels with nonmetallic hulls operating beyond the Boundary Line or with more than 16 persons on board.

**Requirement:**

- Radar Reflector.

**Note:** A vessel rigged with gear that provides a radar signature at 6nm distance is not required to have a radar reflector.

**Documented Vessels Operating Beyond the Boundary Line or with more than 16 POB**

**General Alarm System**

**#166**

46 CFR 28.240

**Applies to:**

Documented fishing industry vessels

1. operating beyond the Boundary Line or with more than 16 persons on board, and
2. having an accommodation or workspace which is not adjacent to the operating station.

**Requirements:**

- An audible general alarm system with contact maker at the operating station.
- A flashing red light must also be installed in spaces where noise makes the alarm system difficult to hear.

**Markings:**

- Each general alarm bell and flashing red light must be identified with ½ inch RED lettering as follows:

**Attention  
General Alarm  
When Alarm Sounds Go to Your Station**

**Acceptability:**

- A. The alarm system must be **capable of notifying** an individual in any accommodation or work space where they may normally be employed.
- B. The alarm **must be tested**:
  1. prior to operation of the vessel and
  2. at least once each week thereafter.

**Note:** A public address system may be used for the alarm system provided it is capable of the above stated requirements.

**Documented Vessels Operating Beyond the Boundary Line or with more than 16 POB**

**Communication Equipment #167**  
46 CFR 28.245

**Applies to:** Documented fishing industry vessels operating beyond the Boundary Line or with more than 16 persons on board.

**Requirements:**

Operating Area	VHF Frequency Capability		
	156 - 162 MHz	2 - 4 MHz	2 - 27.5 MHz
All	X		
More than 20nm from coast	X	X	
More than 100nm from coast	X		X
Waters next to Alaska	X		X

**Emergency Source of Power Must Be:**

1. **provided** for all communications equipment
2. capable of supplying all connected loads continuously for at least **three hours**
3. be located outside the main machinery space.

**Other Acceptability Items:**

- A. **Location** of the equipment must be such as to
  1. Ensure safe operation
  2. Facilitate repair
  3. Protect against vibration, moisture, temperature, excessive current/voltage.
  4. Minimize water intrusion from windows broken by heavy seas.
- B. A single radio capable of communicating on the 2 -4 and 2 - 27.5MHz frequencies is acceptable.
- C. A satellite communication system is an acceptable substitute for 2 -4 and 2 -27.5MHz radios.
- D. A cellular phone capable of communicating with a Coast Guard station may substitute for the radios that operate in the 2 - 4 and 2 - 27.5MHz range.
- E. A 4 - 20MHz radio installed before Sept. 15, 1991, may be used in lieu of a 2 -27.5MHz radio.
- F. The principal operating position of the communication equipment must be at the operating station.

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**Documented Vessels Operating Beyond the Boundary Line or with more than 16 POB**

**Radiotelephone Requirements (VHF) #167**

33 CFR 26.03

**Applies to:** All power driven vessels 20 meters (65.6 ft) or more in length overall operating on the navigable waters of the U.S.

**Requirements:**

1. Monitor VHF Channel 16 (158.800 MHz).
2. Monitor VHF Channel 13 (156.650 MHz).
3. Have equipment capable of transmitting and receiving on VHF Channel 22A (157.100 MHz).
4. The individual maintaining the listening watch must be able to speak English.

**Note:** The FCC has determined that the "Watch" or "Scan" features of VHF radios do not meet requirements for monitoring the designated channels. Therefore, **two VHF radios are required.**

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**FCC Ship/Station License #157**

47 CFR 80.405

**Applies to:** All vessels **required** to have communications equipment on board.

**Acceptability Requirements:**

- Original license on board.
- Name and number of the vessel is correct.
- License is not expired.
- License lists all transmitting equipment and frequencies.
- License is stamped with the FCC seal.
- Licensee listed is the current owner or manager of the vessel.

**Notes:**

- If the vessel is not **required** to carry the radio equipment, then do not cite for lack of the FCC-SSL.
- FCC Ship Station Licenses are renewed every 10 years.
- To renew or apply for FCC SSL contact 1-888-CALL-FCC or [www.fcc.gov](http://www.fcc.gov)

**Documented Vessels Operating Beyond the  
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**Bilge Pumps, Piping & Dewatering #169**  
46 CFR 28.255

**Applies to:** Documented fishing industry vessels operating beyond the Boundary Line or with more than 16 persons on board.

**Requirements:**

- A. **Bilge pumps** and **bilge piping** capable of draining watertight compartments, except tanks and small buoyancy compartments.
- B. **Large spaces**, such as engine room, must be fitted with more than one suction line.
- C. Vessels **79 ft and over** must be equipped with a **fixed, self-priming, power bilge pump** connected to a bilge **manifold** unless an individual pump is provided for each space.
- D. Spaces used in the sorting or processing of fish:
  1. must be fitted with a **dewatering system** capable of dewatering the space at the same rate as water is introduced.
  2. The dewatering pump must be **interlocked** with the pump supplying the water so that if the dewatering pump fails, the water supply pump will be deactivated.

**Acceptability:**

- If a bilge pump is portable, it must have a suitable suction hose of adequate length to reach the bilge of each watertight compartment it must serve and a discharge hose of adequate length to ensure overboard discharge. The portable pump must be capable of dewatering each space it serves at a rate of at least 2 inches of water per minute.
- Except for a required fire pump, a bilge pump may be used for other purposes
- Except where an individual pump is provided for a separate space or for a portable pump, each individual bilge suction line must be **led to a manifold**, have a **stop valve** at the manifold and a **check valve** at some accessible point in the bilge line to prevent unintended flooding of a space.
- Each bilge suction line and dewatering system must be fitted with a **suitable strainer** to prevent clogging of the line. Strainers must have an open area of not less than 3 times the open area of the suction line.

**Documented Vessels Operating Beyond the Boundary Line or with more than 16 POB**

**Electronic Position Fixing Devices #170**

46 CFR 28.260

**Applies to:** Documented fishing industry vessels **79 feet or more in length** operating beyond the Boundary Line or with more than 16 persons on board.

**Requirement:**

Vessel must be equipped with an electronic position fixing device such as:

- GPS/DGPS

**Acceptability:**

- The device must provide accurate fixes for the area in which the vessel operates.

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**Emergency Instructions**

**#172**

46 CFR 28.265

**Applies to:** Documented fishing industry vessels operating beyond the Boundary Line or with more than 16 persons on board.

**Requirement:**

Emergency instructions must be posted in conspicuous locations accessible to the crew.

**Note:** On vessels with less than 4 POB, the emergency instructions may be kept readily available in lieu of posting.

**Acceptability:**

The emergency instructions **must identify at least** the following information, as appropriate for the vessel:

1. Survival craft embarkation stations and the survival craft to which each person is assigned.
2. The fire and emergency signals and the abandon ship signal.
3. If immersion suits are provided, the location of the suits and illustrated instructions on the method for donning the suits.
4. Procedures for making a distress call.
5. Essential action to be taken in an emergency by each individual.
6. Procedures for rough weather at sea, crossing hazardous bars, and flooding.
7. Procedures for anchoring the vessel.
8. Procedures to be used in the event an individual falls overboard.
9. Procedures for fighting a fire.

**Note:** Items 6 - 9 may be kept readily available as an alternative to posting.

**Documented Vessels Operating Beyond the Boundary Line or with more than 16 POB**

**Load Line Certificate**

**#158**

46 CFR 28.265

**Applies to:** Fish processing vessels and fish tender vessels **EXCEPT**

- A. **Fish Processing vessels of not more than 5000 GT:**
1.
    - i) constructed as a fish processing vessel before August 16, 1974, **or**
    - ii) converted for use as a fish processing vessel before January 1, 1983; **and**
  2. is not on a foreign voyage.
- B. **Fish Tender vessels of not more than 500 GT:**
1.
    - i) constructed, under construction, or under contract to be constructed as a fish tender vessel before January 1, 1980, **or**
    - ii) was converted for use as a fish tender vessel before January 1, 1983; **and**
  2.
    - i) is not on a foreign voyage, **or**
    - ii) engaged in the Aleutian Trade.
- C. **Vessels less than 24 meters (79 feet) overall in length.**
- D. **A vessel of not more than 150 GT**, the keel of which was laid or that was at a similar stage of construction, **before January 1, 1986**, that is on a domestic voyage.

**Load Line Certificates:**

- Are issued by either ABS or Det Norske Veritas, classification societies.
- Are good for **5 years**.
- **Must be endorsed annually** by the issuing class society otherwise the certificate is invalid (**TERMINATION**).

**Load Line marks shall**

- be permanently and conspicuously affixed to the hull.
- not be submerged.