

- 18 All vessels require the following distress frequencies: 4125, 6215, 8291 kHz, (it is recommended that 2182 kHz be retained). All vessels must also fit at least ONE of the following weather warning frequencies appropriate to the area of operation:- 2056, 4149, 6230, 8113, 12362, 16528 kHz, as well as the navigation warning frequency of 8176 kHz. VHF frequencies vary – see the Bureau of Meteorology (www.bom.gov.au/marine). Vessels fitted with VHF Radio are limited to operate within 20NM radius of Fremantle, or an approved 24-hour manned coastal radio station.
- A call sign and tuning card for these frequencies must be displayed next to the radio. The radio station licence and operator's certificate are to be produced at the time of survey. A test call will be made.
- 19 An approved EPIRB for waters class D and above (121.5/243 or 406 MHz) shall be carried, mounted in the wheelhouse or liferaft.
- 20 Navigation lights will be tested at survey. Anchor and Masthead lights are to be individually switched.
- 21 The compass is to be adjusted every 3 years and the deviation card displayed adjacent to the steering position.
- 22 If LPG is fitted a gas detector is required if it is possible for the gas to leak below deck or accumulate in the vessel.
- 23 Fire pump will be tested with the fire hose and nozzle fitted, (deck hoses are only acceptable if nozzle is readily attachable in an emergency).
- 24 Fixed fire fighting installation is to be serviced annually and a copy of the service document provided to this department. Fixed fire fighting systems are to have an alarm fitted that is audible from the helm whilst underway. CO₂ systems to be fitted with a lock of valve (AS 4214).
- 25 **All portable extinguishers must be serviced annually.**
 Minimum size of foam fire extinguisher is 9 litre,
 Minimum size of dry powder extinguisher is 4.5kg,
 Minimum size of CO₂ extinguisher is 3kg.
- 26 One of these torches may be the vessel's signalling light (**see note 5 & 10**). (Torches fitted in inflatable liferafts shall not be counted toward torches for item 26 or 10).
 Starting batteries on new or modified vessels are to be fitted as high as possible, at least above the deepest loaded waterline.

**AT EACH PERIODICAL SURVEY OF THE VESSEL, THE SURVEYOR MAY ALSO INSPECT THE FOLLOWING:
 (MANY SMALL VESSELS WILL NOT HAVE ALL OF THE FOLLOWING ITEMS).**

- 27 Main and auxiliary machinery, controls and instruments: engines will be run whenever practical.
- 28 Cooling system, exhaust system and fuel system, (exhausts must be lagged).
- 29 Steering systems, emergency steering, (recommended but not mandatory on twin-screw vessels).
- 30 LPG installation, (LPG audible alarm and solenoid cut-off to be functional). Pressure vessels. Electrical installation, (Note: Residual Current Device's (RCD's) required on systems exceeding 32 volts)
- 31 Pipe work, (sea water rubber hoses must be double-clipped each end). Approved rubber hose to be used eg "Dunlop Diamond 404".
- 32 Machinery guards on all rotating machinery.
- 33 Cargo/fishing gear, including winches, cranes, deck machinery etc.
- 34 Alarm systems. (**All vessels** require a machinery space bilge alarm, **audible at helm**).
 A bilge alarm is required in all compartments where sea water pumping systems are fitted.
The bilge alarm must not operate off the same float switch that operates the electric bilge pump.
- 35 Bilge system. Pumps will be tested whenever practical.
- 36 Emergency shut-offs on fuel valves, engine room fans etc, vent closures.
- 37 Watertight integrity - doors, hatches, closing devices, windows, ventilators, etc.
- 38 Guardrails, freeing ports, emergency escapes.

**EQUIPMENT LIST &
 SURVEY REQUIREMENTS FOR
 CLASS 3C VESSELS**

**UNDER 25 Metres in Length
 And under 500 ton GRT**

DATE OF ISSUE: March 2005

IMPORTANT

This leaflet has been designed to assist a vessel owner in preparing a vessel for periodical survey in accordance with the Western Australian Marine Act.

This leaflet is not intended to cover every aspect of survey, and compliance with this leaflet does not necessarily constitute compliance with all relevant statutes.

For further information, please contact the **COMMERCIAL VESSEL SAFETY BRANCH** at:.

1 ESSEX ST, FREMANTLE.
 P.O. BOX 402, FREMANTLE, W.A. 6959
 TELEPHONE: (08) 9216 8237
 FAX: (08) 9216 8978

65 CHAPMAN ROAD, GERALDTON.
 PO BOX 68, GERALDTON, W.A. 6530
 TELEPHONE: (08) 9956 0113
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CLASS 3C EQUIPMENT CHECK LIST: (To be read with corresponding note numbers below).

NOTE	SURVEY ITEM	VESSEL LENGTH	REQUIREMENTS
1	LIFERAFT	ALL LENGTHS	Coastal Liferaft/Life boat or Approved Dinghy for 100% complement, SEE NOTE 1
2	LIFEBUOYS	LESS THAN 15 m 15 - 25m LESS THAN 15m	Internal buoyancy as prescribed by Appendix N, may be fitted in lieu of liferaft/boat, or dinghy, 2 Lifebuoys, one with self-igniting light, one with buoyant line, 1 Lifebuoy, with self-igniting light, SEE NOTE 2
3	LIFEJACKETS	ALL LENGTHS	An approved Coastal lifejacket with light and whistle for each person, SEE NOTE 3
4	PYROTECHNICS	ALL LENGTHS	3 Rockets, 2 red hand flares and 1 orange smoke signal,
5	DINGHY EQUIPMENT	ALL LENGTHS	2 Red hand flares, 1 orange smoke signal, heliograph, waterproof torch, ration and one litre of water per person. A dinghy must provided with this equipment pack,
6	SOUND SIGNAL	ALL LENGTHS	Horn or portable air/gas horn,
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MISCELLANEOUS EQUIPMENT	ALL LENGTHS	Clock, Barometer or Barograph, Depth sounding device (echo sounder) or <i>Hand lead line</i> , Signalling light, N & C flags, Charts for areas of operation, Gangway or means of safe access approved by the Department, Anchors, anchor chain (or rope), anchor winch, Ropes and Lines of sufficient number, length and strength for the size and service of the vessel, First aid kit to Scale G, Vessel Record Book (Log book.), Approved radio installation, Approved EPIRB, Navigation lights and shapes appropriate to vessel's operation, Compass, Gas detector for LPG installations.
23	FIRE PUMP	15 - 25m	1 Fire pump, hydrant, hose and nozzle to suit,
24	FIXED FIRE INSTALLATION	OVER 12.5m	Fitted in propulsion machinery space.
25	FIRE EXTINGUISHERS FIRE BUCKETS	15m - 25m 10m - 25m LESS THAN 10m 10m - 25m LESS THAN 10m	1 readily available in each accommodation and service space, SEE NOTE 25 2 suitable for extinguishing oil fires, for use in each propelling machinery space, 1 suitable for extinguishing oil fires, for use in each propelling machinery space. 2 with lanyard, 1 with Lanyard.
26	EMERGENCY ELECTRICAL INSTALLATION	ALL LENGTHS	2 Waterproof Torches. An emergency power source capable of operating the navigation lights, fire detection system, signalling lamps (where operated from main power source) and radio for at least 3 hours. Normal engine starting batteries may be acceptable provided they are suitably positioned.
	27 to 38 VARIOUS	ALL LENGTHS	ITEMS CHECKED AT PERIODIC SURVEY SEE NOTES 27 to 38 BELOW

Refer to corresponding notes

NOTES

THESE NOTES REFER TO CORRESPONDING EQUIPMENT NOTE NUMBERS ABOVE

- 1 **Inflatable Liferrafts to be serviced annually.** Coastal Lifeboats for 100% complement are to be capable of being launched from either side of the vessel. Contact the Department if you intend to carry a Lifeboat, (equipment pack requirements). Liferaft/boat shall be marked with vessel's name/I.D. fitted with reflective tape 300mm long, 50mm wide and spaced at 500mm centres. The raft/boat shall be fitted in a place for easy access, be fitted with hydrostatic release and weak link, or be float free with a weak link, or be fitted to approved launching device.
- 2 Lifebuoys are to be marked with vessel's name and four bands of reflective tape at 90° to each other. The self-igniting light is to be attached to one lifebuoy and a minimum of 27.5m of buoyant line attached to the other. Lifebuoys must be readily accessible at all times. A lifebuoy with light are not required in: 1. A vessel under 10 metres length, which carries only one person, or 2. A vessel less than 5 metres length which is fitted with internal buoyancy as prescribed by Appendix N.
- 3 Lifejackets are to be marked with vessel's name, fitted with reflective tape and SOLAS approved self-igniting lights which are to be renewed by the expiry date. Jackets are to be stowed in an easily accessible place for emergency use.
"COASTAL" jackets are minimum requirement for Class C vessels. "SOLAS" jackets may be used.
- 4 Pyrotechnics are to be renewed by the manufacturer's expiry date marked on each one.
- 5 Dinghy is to conform with 1TS 41/94. Dinghy equipment to be fitted in a watertight container. The pyrotechnics required are in addition to those provided at (4) for the vessel. Rations to be renewed every 4 years.
- 6 Horn must give a minimum of 110 dB.
- 7 Clock is to be in view of radio installation.
- 10 Signalling light requires a facility for flashing, not just on/off switch. This torch may be one of the two torches required for the emergency electrical installation requirements.
- 11 The minimum size of the flags is 600mm x 400mm.
- 14 Anchors up to 25kg may be fitted with rope in lieu of chain; but at least 3m of chain must be shackled between rope and anchor, Anchors 25kg to 49kg may be fitted with rope, providing 6m of chain is shackled between rope and anchor, Anchors 50kg to 100kg:- one anchor to have a chain shackled to it, the other anchor may be fitted with rope with 6m of chain shackled to it, Anchors over 100kg:- both anchors require chain to be fitted.
A manual anchor winch is required for anchors over 30kg, with a powered anchor winch for anchors over 50kg.
- 16 For a complete First Aid equipment list, contact the Department, (contact numbers can be found on the front of this Pamphlet).
- 17 A book designated as the log book is required to be kept on board at all times and made available to the surveyor on completion of the survey.

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