

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).

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| 19 | Main and auxiliary machinery, controls and instruments: engines will be tested whenever practical.   |
| 20 | Cooling system, exhaust system and fuel system, (exhausts shall be lagged).  |
| 21 | Steering systems, emergency steering, (recommended but not mandatory on twin-screw vessels).   |
| 22 | 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) |
| 23 | Pipe work, (sea water rubber hoses must be double-clipped each end). Approved rubber hose to be used eg "Dunlop Diamond 404".  |
| 24 | Machinery guards on all rotating machinery.  |
| 25 | Cargo/fishing gear, including winches, cranes, deck machinery etc.   |
| 26 | Alarm systems. <b>(All vessels</b> require a machinery space bilge alarm, <b>audible at helm</b> ).  |
| 27 | A bilge alarm is required in all compartments where sea water pumping systems are fitted.  |
| 28 | <b>The bilge alarm must <u>not</u> operate off the same float switch that operates the electric bilge pump.</b>  |
| 27 | Bilge system. Pumps will be tested whenever practical.   |
| 28 | Emergency shut-offs on fuel valves, engine room fans etc, vent closures.   |
| 29 | Watertight integrity - doors, hatches, closing devices, windows, ventilators, etc.<br>Guardrails, freeing ports, emergency escapes.  |

### Pearl Shell Cleaning and Dump Vessels Conditions of Operations

The safety requirements required in this checklist are formulated on the basis that:

1. The pearl lease areas are generally protected waters;
  2. The vessels operate from a base to a designated pearling lease area generally close to shore, or within the lease area exclusively;
  3. The design and layout of this type of vessel creates practical difficulties in respect of carriage of safety equipment.
- A pearl cleaning vessel or a pearl collecting vessel or dump boat may not leave a pearl lease area unless it remains within 5 nautical miles (or visible range, whichever is the lesser) of another surveyed and manned vessel, or within 5 nautical miles of the lease area, base station or a safe landing point. (The accompanying surveyed vessel must be an unrestricted seagoing vessel).

If unrestricted operation is desired, then equipment, radio, stability and construction must comply with Uniform Shipping Laws Code Class 2C or 3C requirements.

Due to their design, shell cleaning vessels are not considered suitable for operation alone in open waters. They are considered to be restricted class 2C or 3C vessels.

Unless specifically authorised by the Marine Surveyor, such vessels will be restricted to operate during Daylight Hours only.

Pearl Shell Cleaning Vessels are also required to meet the other safety requirements in respect of bilge pumps, bilge level alarms (where appropriate), etc.

For vessels under 12m a WA Coxswains Restricted certificate is required to operate the vessel. For vessels over 12m a Master Class 5 certificate is required.



## EQUIPMENT LIST & SURVEY REQUIREMENTS FOR PEARL SHELL CLEANING & DUMP VESSELS

**Less than 25 Metres in Length  
and Under 500 tons GRT**

**DATE OF ISSUE: November 2006**

### 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  
Fax: (08) 9956 0131

**PEARL SHELL CLEANING & DUMP VESSEL EQUIPMENT CHECK LIST:**

**(To be read with corresponding note numbers below).**

Some of these vessels operating in specific areas may, by written notice from this Department, be exempted from carrying some of this equipment if it can be shown that carrying this equipment does not materially improve the safety of those using the vessel.

NOTE	SURVEY ITEM	VESSEL LENGTH	REQUIREMENTS
1	BUOYANT APPLIANCES	ALL LENGTHS	a. Approved Coastal rigid or inflatable liferaft for 100% complement; or b. Buoyancy blocks/sticks for 100% complement, or c. Lifebuoys at the rate of 1 (one) per 2 (two) persons, or d. Built in foam buoyancy. <b>REFER NOTE 1</b>
2	LIFEBUOYS	ALL LENGTHS <i>Note</i>	1 Lifebuoy, with 27.5 metres of buoyant line. <i>If Lifebuoys are used as Aids to Buoyancy, this lifebuoy may also serve as aid to buoyancy for two persons</i>
3	LIFEJACKETS	ALL LENGTHS	An approved Coastal Lifejacket with whistle for each person the vessel is certified to carry.
4	PYROTECHNICS	ALL LENGTHS	3 Parachute Rockets, 2 Red hand flares and 1 Orange smoke signal.
5	SOUND SIGNAL	ALL LENGTHS	Horn or portable air/gas horn.
6	MISCELLANEOUS EQUIPMENT	ALL LENGTHS	Gangway or a safe means of 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, <del>Compass, (Exempt)</del> Gas detector for LPG installations, <del>Approved radio installation, (Exempt)</del> Approved EPIRB.
14	FIRE PUMP	15m TO 25m	1 Fire pump, hydrant, hose with nozzle to suit.
15	FIXED FIRE SYSTEM	12.5m and over	Fitted in propulsion machinery space. Fixed Fire Extinguishing Installation to comply with Appendix F Section 11 of USL Code.
16	FIRE EXTINGUISHERS FIRE BUCKETS	10m TO 25m UNDER 10m UNDER 10m	2 suitable for extinguishing oil fires, for use in each machinery spaces, 1 suitable for extinguishing oil fires, for use in each machinery spaces. 1 with lanyard. <b>REFER NOTE 16</b>
17	EMERGENCY ELECTRICAL EQUIPMENT	ALL LENGTHS	1 Waterproof Torch.
	<b>18 to 29 - VARIOUS</b>	ALL LENGTHS	ITEMS CHECKED AT PERIODIC SURVEY - <b>REFER NOTES 18 to 29 BELOW</b>

Refer to corresponding notes

**NOTES**

**THESE NOTES REFER TO CORRESPONDING EQUIPMENT NOTE NUMBERS ABOVE**

- If Inflatable Liferaft's are to be used as buoyant appliances they shall be serviced annually.** Inflatable Liferaft's will be assumed to support twice the number of persons it is rated for when used in designated sheltered waters. Buoyant appliances shall have a highly visible colour, and shall be identified with vessel's name, fitted with reflective tape 300mm long, 50mm wide and spaced at 500mm centres on the top and bottom of the appliance and spaced around the perimeter of the appliance. Grab lines shall be fitted around the appliance. The buoyant appliance shall be fitted in an easy access, float free position. Liferaft's, if used are to be fitted with hydrostatic release and weak link, or be float free with a weak link, or be fitted to approved launching device.
- Lifebuoys are to be identified with vessel's name and four bands of reflective tape at 90° to each other. A minimum of 27.5m of buoyant line is to be attached to the Lifebuoy. The Lifebuoy must be readily accessible at all times.
- Lifejackets are to be marked with vessel's name, fitted with reflective tape and whistle. Jackets are to be stowed in an easily accessible place for emergency use. **"COASTAL" jackets are minimum requirement for Pearl Shell Cleaning and Dump vessels. "SOLAS" jackets may be used.**
- Pyrotechnics shall be renewed by the manufacturer's expiry date marked on each one.
- Horn must give a minimum of 110 dB.
- 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 shackled to them.  
**A manual anchor winch is required for anchors over 30kg, with a powered anchor winch for anchors over 50kg.**
- For a complete Scale G First Aid equipment list, contact the Department, (contact numbers can be found on the front of this Pamphlet).
- 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.
- An approved EPIRB mounted in the wheelhouse or liferaft, shall be carried by Pearl Shell Cleaning and Dump Vessels (either 121.5/243 or 406 MHz).
- The Fire pump, (where required) will be tested with the fire hose and nozzle fitted, (deck hoses are only acceptable if nozzle is readily attachable in an emergency).
- Fixed fire fighting installation is to be serviced annually and a copy of the service document provided. Fixed fire fighting systems are to have an alarm fitted that is audible from the helm whilst underway. CO<sub>2</sub> systems to be fitted with an isolation valve (AS 4214).
- Minimum size of foam fire extinguisher is 9 litre,  
Minimum size of dry powder extinguisher is 4.5kg,  
Minimum size of CO<sub>2</sub> extinguisher is 3kg. **All portable extinguishers must be serviced annually.**
- Starting batteries on new or modified vessels shall be fitted as high as practicable, above the deepest loaded waterline.
- All Pearl Shell Cleaning equipment is to be mechanically secured to the vessel ie bolted, and not just tied or roped to the vessel.

**CONTINUED OVERLEAF**