

~ Powerboat Systems & Equipment Inspection List ~

This list may or may not include items that require attention on the specific boats that you operate. Use this list as a starting point; include items as needed. Check with your Boating Safety Officer if you have any questions and/or to schedule annual safety inspections: boating@ucdavis.edu / (707) 875-1933.

**** Boat Use & Maintenance Log: Onboard the Vessel and up to date with all start up and shutdown entries!**

Personal Flotation Devices (PFDs)

- Check for wear or abrasion, weak or torn seams, secure straps, buckles, and zippers. Squeeze to check for soft spots. Look and smell for mold.
- One type I,II,III,V (if approved) for each person and one type IV for each boat

Fire Extinguishers

- Do all boats have their required quantities and types.
- Are they in good condition and fully charged.
- Nozzle clear.
- Are units accessible.

Fuel System

- Is the system properly grounded at the filter, tank, deck, pump, etc.
- Is the fuel tank free from rust or contamination.
- No leaks from the tank, hose or fittings.
- Hoses USCG approved and free of cracking or stiffness with adequate slack for vibration.
- Squeeze bulbs in good condition and working.
- Fuel filter / Water Separator less than one-year old (drained if Racor style)

Safety Equipment

- Lifelines or rails in good condition.
- Stanchions or pulpit securely mounted.
- Grab rails secure and free of corrosion or snags that may catch hands.
- Non-skid surfaces free from accumulated dirt or excess wear.
- Flares adequate and not expired.
- Batteries in flashlight and strobe fresh.
- Flashlight and strobes free from corrosion.
- Throw bag accessible and in good condition
- Emergency kit complete with no mold (first aid kit, food, water, light sticks).

Engine

- Maintenance performed by certified marine mechanic in the past year
- Lower unit oil full (eng. oil for I/O)
- Pivot points greased (impeller too for jet)
- Hydraulic system full and fluid clear
- Prop/impeller in good condition and shaft greased
- 2-stroke oil on-board
- Motor/outdrive moves freely
- Gauges work

Anchor & Ground Tackle

- Anchor and rode adequate for boat and bottom conditions
- Ground Tackle properly corrosion free and properly attached.
- Anchor line in good condition
- Anchor properly stowed.

Electrical System

- All electronics work (lights, depth finder, chart plotter, GPS).
- Wiring approved for marine applications.
- Is system neatly bundled and secured.
- Protected against chafing and strain.
- Adequate flex between bulkhead and engine connections.
- Clear of exhaust system and bilge.
- System is protected by circuit breakers or fuses.
- Wire terminals and connections sealed to prevent corrosion.

Batteries

- Stored in non-corrosive, liquid tight ventilated containers.
- Non-conductive covers are fitted over post.
- Battery(s) is well secured.
- Connections are tight and anti-corrosion compound applied
- Battery(s) is charged.

Corrosion Prevention

- Through-hulls, props, shafts, bearings, and exposed fastenings free of corrosion.
- Zincs are in good condition and adequate to provide protection.
- Through-hulls are properly bonded.
- Inspect the steering cables, engine control linkage and cables, engine mounts and gear case for corrosion.
- Items properly lubricated or painted to prevent corrosion.

Trailer

- Tires inflated to proper pressure and in good condition
- Bearings properly seated and in good condition
- Break fluid full and clear
- Break lines in good condition and clear of moving parts
- Winch and cable in good condition
- Hitch and latch work properly and free of corrosion.
- Lights work
- Boat tie-down straps in good condition

Boat hull

- Inspect hull for damage and stress cracks
- Ensure cleats and other hull fittings are tight and free of corrosion
- Clean and lubricate hinges and latches on compartment doors

Other

- Tool kit complete and free of corrosion / Spare parts on-board. (prop nut, grease, wire, zip ties, fuses, duct tape, Socket set, pliers, hammer, wire cutters, screwdrivers, prop wrench, sparkplug wrench, wrenches)
- Trash Can Cleaning Supplies, Oil Absorbent Pads
- Boat cover
- Mooring & Utility lines in good condition.
- Cleats secure and free of sharp edges
- Adequate fenders on-board and in good condition.
- Boat hook on-board and in good condition
- Knife sharp, free of corrosion and greased.
- Paddles on-board
- Excess gear stored and/or properly secured