

Conley Bottom Resort

US Corps of Engineer Inspection

As a result of a recent Corp of Engineer Inspection, we are having to make some changes to ensure we are abiding by the Corps electrical regulations. Any and all electrical cords that are not marine cordage, and outside lighting, will be removed from the slips and mooring areas immediately. House extension cords and power surge protectors are NOT permitted to be used outdoors. If you have any of these types of cords or lights connected, we will remove them and leave them on your slip.

This is for everyone's protection to help prevent Electrical Shock Drowning (ESD). Electric shock drowning is the result of a typically low level alternating current passing through the body while immersed in fresh water. The force is sufficient enough to cause skeletal muscular paralysis, rendering the victim helpless and drowning. This type of fault can happen in any natural water but becomes fatal in fresh water due to lower water conductivity. Salt water has a higher conductivity.

An electrical fault looks for a path back to its source and in fresh water, that path can become the human body.

Electrical Safety

Following is a list of items that boat owners need to be aware of and corrective action should be taken immediately by all boat owners.

A. **Shore Cords**: Ship-to-shore (STS) electrical cords cannot be attached to the dock in a permanent or semi-permanent method. STS cords are to be placed onboard the boat any time the boat is "unplugged" from the marina. STS cords must not be left on the

dock plugged into power while the boat is out of the slip. The STS cord goes with the boat at all times and must not be attached to the dock in any fashion (wire ties, clips, overhead trusses, etc.) STS cords left on the dock and not stored in the boat will be removed by marina staff prior to the next inspection.

2011 National Electric Code 555.9 Electrical Connections.



Code Violation due to shore cord being semi-permanently attached to dock.

Shore Cord Connections: When two shore cords are connected together, the connection cannot be located lower than 12 inches above the deck of the floating dock.

2011 National Electric Code

555.9 Electrical Connections.



Code Violation - This shows a STS Connection less than 12" above deck.

B. **Extension Cords:** All extension cords (EC), must be UL Rated and are only to be used while the boat owner is present. EC's are considered "maintenance" in nature and are not permitted for permanent use while the boat owner is away from boat. Any extension cord in use at a marina (110 volt/15 & 20 amp) must be protected by Ground Fault Circuit Protection (GFCI). The outlet being used must be GFCI or the cord must be equipped with an inline operable GFCI. Extension cords shall only be used on a temporary basis for maintenance. Marina staff will be removing all home-made, non UL Rated extension cords from the harbor.

2011 National Electric Code

What's wrong here?



This photo shows multiple code violations.

C. **Customer Installed Electric:** Customer Installed Electric (CIE) devices are not permitted on any dock. CIE devices include any electrical device not installed originally by the marina when the dock was constructed. Following is some common CIE devices that must be removed from the docks immediately; rope lights; Christmas tree lights; ornamental or decorative lights; extension cords; outlets in lockers. Basically, **NO** electrical device is permitted by state inspectors unless it is temporary in nature and the customer is present on-board the dock or boat. Please remove any CIE from the dock immediately. Devices not removed, by the time of next inspection will be removed by Conley Bottom Resort staff.

D. **No Swimming In Harbor Area:** This is a federal law intended to prevent death/drownings by electric shock.

This law must be observed and followed by all Conley Bottom Resort slip customers. You will see increased signage and increased enforcement of this law by state and federal boating officers.

E. **Safety**: These provisions, although inconvenient, are for the safety of you, your friends, and your family. Please inform marina management of any safety issue you may see or of anyone who is not following these state and federal laws. Your immediate attention to these matters is greatly appreciated.

We are sorry for any inconvenience that this may cause. We are taking every precaution necessary to ensure the safety of our customers and your guest is first and foremost