

Name: _____ Dock Location: _____ Date: _____

Mailing Address: _____

Phone: _____ Inspector: _____ Permit #: _____ Ameren UE Dock #: _____

DOCK ELECTRICAL INSPECTION SHEET-VILLAGE OF FOUR SEASONS-INSPECTION DEPARTMENT---REVISED 12-7-18

NEC 2011 applies as directed by Village of Four Seasons Ordinance 2014-01.

Approved Not Approved DOCK APPROVED: _____ STICKER POSTED ON SUB-PANEL: _____

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_____ | <ol style="list-style-type: none">1. Docks with service of <u>fifty (50) amps or less</u> shall have all conductors located above dock surface (all raceways must be visible). Docks with <u>more than fifty (50) amps</u>, conductors can be ran below the dock surface. Dock shall be supplied by only <u>(1) set of feeder conductors</u> from the residential house panel.
2. Conduit that is buried from the dwelling to the sub-panel shall be installed in rigid metal conduit, intermediate metal conduit Schedule 80 PVC conduit, or equivalent for underground use. <u>(Note; Inspections are limited due to visibility of buried make up of service run, Both #2 & #3.)</u>
Note: Variance from schedule 80 PVC to schedule 40 PVC is granted.
3. Any NM, NMC, and NMS used as the service of feeder service conductors shall be replaced in a weather proof junction box where it exits the dwelling. UF cable shall meet all the current installation requirements for the type of conductors used including the correct burial depth.
4. <u>Flexibility</u> of the wiring system shall be maintained between the dock and the supply conductors. Liquid tight flexible metal conduit, liquid tight flexible nonmetallic conduit, Schedule 40 PVC (sunlight resistant), or equivalent with approved fittings shall be permitted.
Raceways will be secured. <u>Electrical Nonmetallic Tubing (ENT) is not allowed.</u>
5. <u>The sub-panel shall be onshore and within 6 feet of the dock ramp, be 42 inches above ground, measured to the bottom of the equipment enclosure, have a GFCI Class A (4-6MA) breaker(s) rated to match conductors and have a disconnecting means. Disconnecting means shall have the ability to isolate neutrals and grounds, bond the grounds, and protect all circuits with a GFCI personnel protection breakers. GFCI modules, pull out (AC) disconnects or regular breakers with only GFCI protected outlets shall not be allowed. All service, feeder and branch circuits shall be personnel protected GFCI breakers (lighting, receptacles, irrigations pumps and other circuits).</u>
6. All grounding conductors shall have continuous <u>green outer finish</u> including bonding wires. The grounding conductors shall be connected to the grounding bus in the sub-panel and to the <u>ground rod. Grounding bus and neutral bus must be separated. Natural conductors must be white</u> in color. A grounding rod shall be in place. <u>At least 8 feet long and trade size of 1/2 inch.</u> The grounding conductor shall be sized correctly for the circuit <u>(minimum #6)</u> and be attached directly to the grounding rod. A minimum #6 grounding wire from the ground rod will be attached to the <u>metal parts of the ramp</u> with approved terminals. <u>Also bonding attachment will include lifts, ladders, water pumps housing and stiff arms.</u>
7. All enclosures and exposed metal parts of the electrical system shall be bonded to the grounding bus. All metal parts, metal piping and all non-current carrying metal <u>parts must be bonded to the sub-panel.</u> |
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Approved Not Approved

- ___ ___ 8. Electrical Metallic Tubing or nonmetallic conduit suitable for wet locations shall be installed to protect wiring above deck of piers, docks and landing stages and below the enclosure that it serves. All areas of the dock shall be considered a wet location. The complete electrical system shall be located above the finished surface of the dock and the side of the ramp.
- ___ ___ 9. All general use outlet receptacles shall be a minimum 36 inches from the finished dock surface. Outlets will be the WR type.
- ___ ___ 10. All shore power outlets dedicated for a piece of equipment shall be of the Marine Twist Lock Type (Yellow). A disconnecting means must be within 30 inches of outlet or approved pedestal installation. All shore power receptacles shall be GFCI protected. Pigtails used for shore power applications are unauthorized.
- ___ ___ 11. All enclosures exposed to weather shall be in weatherproof enclosures suitable for wet locations. All raceway conduit connection points must be Supported by conduit caddies or brackets within code limits.
- ___ ___ 12. All luminaries and hanging devices (fans) below a roof or overhang shall be suitable for wet locations.
- ___ ___ 13. All general use receptacles shall have an attachment plug cover. ("In use" type)
- ___ ___ 14. All switches shall be in weatherproof enclosures or cabinets.
- ___ ___ 15. Receptacles, switch boxes and junction boxes shall not be within 6 feet of a ladder for the dock.
- ___ ___ 16. Ameren UE dock number and 911 address of dock location must be posted on dock. POSTING REQUIREMENTS MUST: Display the permit number, street address and zip code. Use 3" block lettering. Use a highly contrasting color from the background color. Be located on the lake side of the dock in a location visible from the cove or channel.
- ___ ___ 17. All non-submersible pumps must be GFCI protected and must be properly bonded and grounded. SUBMERSIBLE PUMPS ARE NO LONGER ALLOWED AT THE LAKE OF THE OZARKS.
- ___ ___ 18. Hot, Neutral, and Ground conductor impedance level must be less than 1 OHM H _____ N _____ GND _____

Revised: 12-7-18

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