Osage Beach Fire Protection District

"Our Family, Protecting Your Family, Because We Care"

Inspection Application
For New and Existing Docks

NOTICE TO APPLICANT: The Osage Beach Fire Protection District ("OBFPD") performs dock inspections as required by Ameren for the issuance of new dock permits and for the transfer of existing dock permits. The OBFPD provides the inspection as a municipal function for the purposes of reducing unsafe docks on the Lake of the Ozarks and not as a proprietary function. The applicant has no right to rely upon the OBFPD inspection as it is being performed as a municipal function and should not be used as a substitute for the applicant employing their own electrician to inspect the structural and electrical integrity of the dock. The OBFPD enjoys sovereign immunity, and the applicant hereby agrees that the OBFPD shall not be liable for any errors or mistakes that may be made in performing the inspection.

Please Note

All Connectors Shall Be Rain-Tight Type

Dock Inspection Application

****If applicable - Submit application 30 days prior to closing/transfer of ownership**** **Application and drawings can be emailed to permits@obfire.net**

Ameren Missouri Dock Permit #:_____ Ready to Inspect (check one): ☐ Yes / ☐ No

Date of Application:_____ # of Wells:_____ Start Date for Electricity: _____

For Transfer of Ownership, Sale Closing Date (if applicable): _____

Address of Dock Site: _____

Directions: _____

_____

Description of Work being done: _____

_____

Owner of Property:_____ Phone:_____

Email Address: _____

Mailing Address: _____

Realtor (if applicable):_____ Phone:_____

Email Address: _____

Dock Electrician:_____ Phone: _____

Mailing Address: _____

Email Address: _____

I hereby certify that the proposed work will abide by all applicable electric codes and fire prevention codes enforced by the district and have been authorized by the owner of record to make this application as their authorized agent.

_____

Signature of Applicant

By signing this form I understand that this document will be scanned and attached electronically to my electronic file that Osage Beach Fire Protection District has set up for my account and that this document will thereafter be shredded

****

*** Administration Use Only**

Permit Issued By:_____ Title: _____

Payment Received: ☐ Cash ☐ Check # _____ ☐ Credit Card Receipt # _____

Permit Fee:_____ Date Issued:_____ Permit #: _____

Date of Inspection:_____ By:_____ Approved: _____

Re-Inspection Date:_____ By:_____ Approved: _____

Letter 1 _____ Letter 2 _____ Letter 3 _____ Letter 4 _____

Dock Inspection Program Fees

Each dock will be considered as its own structure. The fees will apply to each dock.

The minimum fee is $50.00

Docks up to 4 wells $50.00

Docks 5 wells and over ..... $50.00 + $6.00 per well

Lake Ozark Fire Protection District
1767 Bagnell Dam Blvd.
Lake Ozark, MO 65049
573-365-3380
James A. Doyle, Fire Marshal

Mid-Co Fire Protection District
P.O. Box 1438
Camdenton, MO 65020
573-346-2049
Chris Bachman, Fire Marshal

Osage Beach Fire Protection District
1170 Bluff Dr.
Osage Beach, MO 65065
573-348-1221
Ed Nicholson, Fire Marshal

Sunrise Beach Fire Protection District
30 Porter Mill Spring Rd.
Sunrise Beach, MO 65079
573-374-4411
Robert Northcott, Fire Marshal

Rocky Mount Fire Protection District
20401 Brendel Blvd.
Rocky Mount, MO 65072
573-392-4301
Adam Rohwer, Fire Marshal

City of Camdenton
Dennis Croxton
437 W. Hwy. 54
Camdenton, MO 65020
573-346-3600

Northwest Fire Protection District
P.O. Box 128
Climax Springs, MO 65324
573-347-3110
Elliott Parker, Lead Inspector

- A bonding jumper (sized in compliance with NEC 250.66 but not smaller than #6 AWG) shall be installed from the grounding electrode on shore to the metal parts of ramps leading to a floating structure.
- A bonding jumper with a loop (sized in compliance with NEC 250.66 but not smaller than # 6 AWG) shall be installed around all hinge points of metal ramps, floating structures, and docks subject to elevation changes due to the changes in the water levels.
- All non-current carrying metallic parts of the electrical system shall be bonded to the equipment grounding system.
- All receptacle outlets shall be GFCI protected for personnel unless the outlet is for a dedicated purpose and installed in an enclosed area of the structure protected from the weather. All receptacle outlets and switches shall be installed at least 36 inches above the finish dock surface or as approved by the AHJ.
- All "Marine Shore power Outlets" shall be GFCI protected for personnel with a disconnecting means within 30 inches.
- All large metallic enclosures, such as panels, cabinets, cutout boxes, etc. installed in wet location areas, shall be installed with a minimum of ¼" air space between the enclosure and the supporting surface they are mounted on.
- All electrical equipment installed within 8 feet vertically from the dock finish surface or exposed to the weather shall be suitable for use in wet locations and shall have weep holes.
- All electrical equipment installed below roofed open areas, protected from the weather and installed above 8 feet vertically from the dock finish surface shall be suitable for use in damp locations.
- All general use receptacle outlets shall be installed in weatherproof enclosures with "In Use Type" weatherproof attachment plug covers.
- All general use switches shall be installed in weatherproof enclosures with weatherproof switch covers.
- All luminaries (lighting fixtures) installed exposed to the weather shall be suitable for use in wet locations. All luminaries (lighting fixtures) installed where protected from the weather shall be suitable for use in damp locations.
- All electrical equipment such as receptacle outlets, witches, junction boxes, lighting fixtures, etc. shall not be installed within 6 feet of any ladders attached to the docking facility.
- All metal ladders permanently attached to the docking facility shall be bonded to the equipment grounding system.
- All metal ladders not permanently attached to the docking facility shall have means for bonding to the equipment grounding system.
- All conductors from the shore to the docking facility shall be protected from physical damage. Conduits shall be approved for the conditions of use. (Weatherproof, Sunlight resistance, etc.)
-

Permit Number & Address Posting Requirement

The sign shall be mounted on the lake side of the dock in a location most visible from the cove or channel

Dock Wiring Check Sheet
Lake of the Ozarks

Notes: Non-metallic sheathed cable may not be used. (Romex)
All wiring methods and conductors shall be suitable for wet locations. (Check exceptions)
All wiring shall meet Article 553, "Floating Buildings" for private dwelling docks
All wiring shall meet Article 555, "Marinas and Boatyards" for all other docks.
Contact your local fire department for an inspection within 7 days of supply power to the dock.

Check Sheet Reference

1. Feeder from the main panel to sub panel shall be four wire and sized for the load.
2. Junction box on the outside of the building serving the dock shall be weatherproof.
3. The conduit from the J-box to the dock sub-panel or disconnect shall be sized for the conductors.
4. Conduit that is buried from the building to the sub-panel shall be schedule 40 PVC for underground use.
5. The sub-panel shall be at the seawall next to the dock ramp and shall have a disconnecting means.
6. All grounding conductors shall have continuous outer finish that is green.
7. The grounding conductors shall be connected to the grounding bus in the sub-panel and to the ground rod.
8. The grounding conductor shall be sized correctly for the circuit (minimum #6).
9. A grounding electrode shall be in place. (At least 8 feet long and trade size of ½ inch).
10. # 6 grounding wire from the ground rod to the metal parts of the ramp.
11. # 6 grounding wire jumper shall be installed between all pivot points in the ramp and dock.
12. All metal enclosure and exposed metal parts of the electrical system shall be bonded to the grounding bus.
13. All metal parts, metal piping and all non-current carrying metal parts must be bonded to the panel board.
14. All outlet receptacles shall be GFCI protected unless the outlet is a dedicated outlet in an enclosed structure.
15. All general use outlet receptacles shall be a minimum 36 inches from the finished dock surface.
16. All outlets dedicated for a piece of equipment shall be of the Marine Twist Lock type and GFCI protected.
17. All GFCI outlets shall work when tested.
18. All cabinets and cutout boxes shall be a minimum of ¼ inch of airspace between the enclosure and supporting surface.
19. All enclosures below 8 feet shall be in weatherproof enclosures. Suitable for wet locations with allowable weep holes.
20. All fixtures above 8 feet and below a roof or overhang shall be suitable for damp location.
21. All general use receptacles shall have an attachment plug cover ("in use" type).
22. All switches shall be in weatherproof enclosures or cabinets.
23. All luminaries shall be marked "suitable for wet locations".
24. Receptacles, switch boxes and junction boxes shall not be within 6 feet of a ladder for the dock.
25. Any metal ladder attached to the dock shall have a grounding wire connected to the grounding bus or grounding electrode.
26. A detachable ladder needs to have specs showing that it is bondable.
27. The feeder from the sub-panel to the dock shall be schedule 40 PVC (sun-light resistant) and must be liquid tight flexible conduit at all pivot points.

- All underground conduit systems shall be approved fro the condition of use and shall comply with NEC 300.5(A), (B), (D)(4), (F). (*Minimum covering requirements*) **Reference #1, 3, 4**

- All conduits shall be sized in compliance with NEC Chapter 9 Tables 1, 4 and 5. Where conductors are all of the same size and type, Annex C shall be permitted for sizing of conduits. **Reference #3**

- Liquidtight Flexible Metal Conduit (with grounding bushings) or Liquidtight Flexible Nonmetallic Conduit with approved fittings shall be permitted where flexibility is required in a conduit system such as hinge points of ramps and floating structures subject to elevation changes due to the change in water levels. **Reference #3, 27**

- All non-current carrying metal parts of the docking facility such as metal piping, metal equipment enclosures, metal frames of the structure and ramps, metal swim ladders and other metals in contact with the water or may become electrically energized shall be electrically bonded to the equipment grounding system. **Reference #10, 11, 12, 13**

- A bonding jumper (sized in compliance with NEC 250.66 but not smaller than #6 AWG) shall be installed from the grounding electrode on shore to the metal parts of ramps leading to a floating structure. **Reference #10**

- A bonding jumper with a loop (sized in compliance with NEC 250.66 but not smaller than #6 AWG) shall be installed around all hinge points of metal ramps, floating structures, and docks subject to elevation changes due to the changes in the water levels. **Reference #11**

- All non-current carrying metallic parts of the electrical system shall be bonded to the equipment grounding system. **Reference #12**

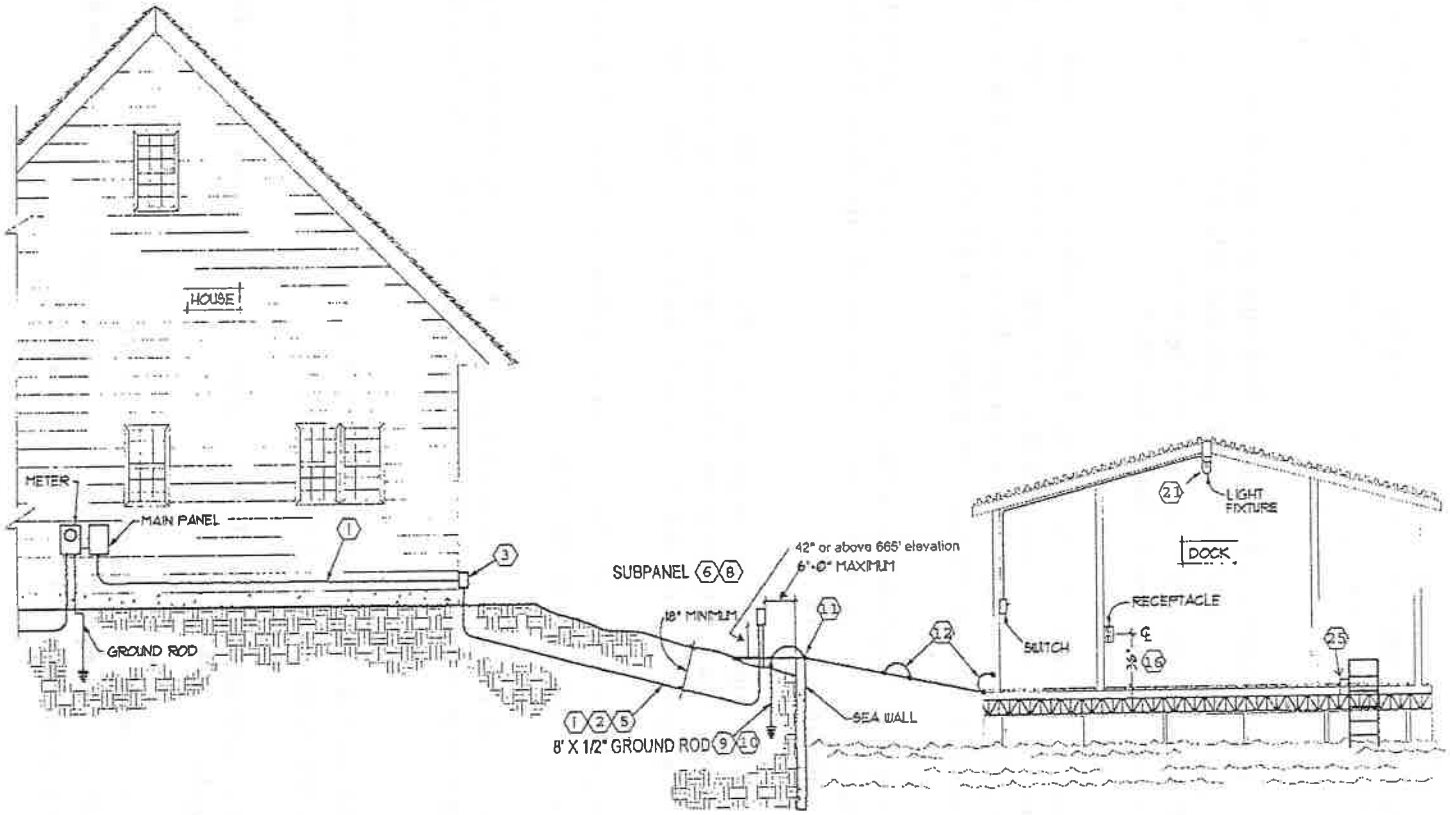
- All receptacle outlets shall be GFCI protected for personnel unless the outlet is for a dedicated purpose and installed in an enclosed area of the structure protected from the weather. **Reference # 14**

- All receptacle outlets and switches shall be installed at least 36 inches above the finish dock surface or as approved by the AHJ. **Reference #15**

- All "Marine Shore power Outlets" shall be GFCI protected for personnel with a disconnecting means within 30 inches. **Reference #16**

- All large metallic enclosures, such as panels, cabinets, cutout boxes, etc. installed in wet location areas, shall be installed with a minimum of ¼" air space between the enclosure and the supporting surface they are mounted on. **Reference #18**

- All electrical equipment installed within 8 feet vertically from the dock finish surface or exposed to the weather shall be suitable for use in wet locations and shall have weep holes. **Reference #19**



ELECTRICAL WIRING FOR RESIDENTIAL DOCK

NO SCALE