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"Owned By Those We Serve"

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For mobile home meter loops, the National Electric Code (NEC) mandates specific requirements for service equipment, including a main disconnect, proper grounding, and conductor sizing, ensuring safety and compliance with electrical standards.

Here is a more detailed breakdown of the **NEC requirements for mobile home meter loops:**

1. Service Equipment and Disconnect:

Main Disconnect:

Every service must have a main disconnect, located on the load side of the meter base and as close as possible to the meter socket.

Location:

The main disconnect should be located within sight of the mobile home but not mounted on the mobile home itself.

Disconnect Type:

The NEC permits up to six individual breakers mounted in a single enclosure to serve as the required service disconnecting means, provided none of these individual overcurrent devices have a rating or setting higher than the ampacity of the service-entrance conductors.

Grounding:

The grounding conductor and the grounded neutral conductor are bonded together only on the supply side of the service disconnecting means.

2. Conductor Sizing and Materials:

Wire Capacity:

The meter loop should consist of three insulated copper with a minimum capacity of 100 amps for residential service and 60 amps for non-residential service.

Neutral Wire:

The neutral wire, as a minimum, cannot be smaller than two sizes below the conductor size.

Wire Size:

Wire size should be based on the load, amp rating of the main disconnect, and rating of the meter base.

Conductor Insulation:

Individual ungrounded service entrance conductors shall be XHHW, RHW, or R-Type insulation approved for exterior use.

3. Meter Loop Installation:

Meter Mounting:

Meter sockets must be between 4 feet and 6 feet above natural ground. (eye level)

Weatherhead:

The meter loop weatherhead must be connected to a 2-inch rigid galvanized pipe riser, and no other material is accepted.

Bonding:

The meter socket must be bonded to the exterior main disconnect by a minimum of a #6 copper wire.

Pole Placement:

Meter poles should be placed more than 3 feet from the mobile home.

Clearance:

The weatherhead and exposed service conductors must be located at least 3 feet from doors or windows.