

Exhibit F

Lake Havasu City Amendments to the 2017 Edition of the National Electrical Code

Ordinance No. 21-1255

LAKE HAVASU CITY AMENDMENTS TO THE 2017 EDITION OF THE NATIONAL ELECTRICAL CODE

Section 90.10 Amend to add section 90.10 to read:

Building Classifications. For the purpose of electrical code applications, all buildings erected within the jurisdiction of the City shall be classified as follows:

- A. Residential
- B. Commercial

Article 100 Amend to insert after Clothes Closet:

Commercial: All buildings not defined as residential by this article shall be considered commercial for purposes of this code.

Article 100 Amend to insert after Remote-Control Circuit:

Residential: Buildings whose actual or potential purpose is for human habitation, for one and two family dwellings, or multi-family dwellings permitted to be of Types III, IV, and V construction. Buildings of public accommodation e.g. hotels, motels, and inns are not included within this classification.

Section 225.32 Amend entire section, excluding exceptions to read:

The disconnecting means shall be installed outside of a building or other structure at a readily accessible location nearest the point of entrance of the service conductors. The disconnecting means may be installed inside of a commercial or industrial building within the confines of an electrical equipment room. Electrical equipment rooms shall be constructed to meet the following conditions:

1. The equipment room shall separate the electrical equipment from other portions of the building by not less than a 2-hour rated fire barrier complying with IBC section 707.
2. Access for Fire Department personnel shall be provided by a minimum 3'-0" x 6'-8" exterior door.
3. The owner shall place an equipment door key in a lock box accessible to the Fire Department and the utility server on or near the equipment room door.
4. The equipment room shall be limited to electrical and communication equipment only.
5. No storage shall occur in the electrical equipment room.
6. Electrical equipment rooms shall be vented at a ratio of 1 square foot to 150 square feet of floor area when ducts do not provide conditioned air.

Section 230.70 (A) (1) Amend part (A) item (1) to read:

The service disconnecting means shall be installed outside of a building or other structure at a readily accessible location nearest the point of entrance of the service conductors. The service disconnecting means may be installed inside of a commercial or industrial building within the confines of an electrical equipment room. Electrical equipment rooms shall be constructed to meet the following conditions:

1. The equipment room shall separate the electrical equipment from other portions of the building by not less than a 2-hour rated fire barrier complying with IBC section 707.
2. Access for Fire Department personnel shall be provided by a minimum 3'-0" x 6'-8" exterior door.

3. The owner shall place an equipment door key in a lock box accessible to the Fire Department and the utility server on or near the equipment room door.
4. The equipment room shall be limited to electrical and communication equipment only.
5. No storage shall occur in the electrical equipment room.
6. Electrical equipment rooms shall be vented at a ration of 1 square foot to 150 square feet of floor area when ducts do not provide conditioned air.

Section 230.71 (A) Amend section to read:

The service disconnecting means for each service permitted by 230.2 or for each set of service-entrance conductors permitted by 230.40, Exception No. 1, 2, 3, 4, or 5, shall consist of one main disconnect. There shall not be more than six sets of disconnects per service grouped in any one location.

Section 230.71 (A) Amend to add exception:

The service disconnecting means for one service on a building or structure shall consist of not more than six switches or sets of circuit breakers, or a combination of not more than six switches and sets of circuit breakers, mounted in a single enclosure, in a group of separate enclosures, or in or on a switch board or in switchgear.

Section 250.50 Amend section to read:

In new construction item 250.52 (A) (3) shall be required for the grounding electrode system. Each item in 250.52 (A) (1) through (A) (7) shall be bonded together to form the grounding electrode system. In existing building or structures where none of these electrodes are available, one or more of the electrodes specified in 250.52 (A) (4) through (A) (8) shall be installed and used.

Section 250.52 (A) (3) Amend part (A) item (3) to read:

An electrode encased by at least 2 inches of concrete, located within and near the bottom of a concrete foundation or footing that is in direct contact with earth, consisting of at least 20 feet of bare copper conductor not smaller than 4 AWG.

Section 334.10 Amend section to read:

Type NM, Type NMC and Type NMS cables shall be permitted to be used in residential uses as defined in article 100:

Section 334.10 (3) Amend to delete item (3)

Section 680.26(B)(2)(a) Amend entire section to read:

Structural reinforcing steel. Structural reinforcing steel shall be provided at 24" o.c. each way and connected to the pool, spa or hot tub shell at four equal points along the perimeter. Structural reinforcing steel shall be bonded in accordance with 680.26(B)(1)(a).

Section 680.26(B)(2)(1) Amend entire section to read:

At least one minimum 8 AWG bare solid copper conductor shall be provided. Such conductor shall be connected to the pool, spa or hot tub conductive shell at four equal points along the perimeter. For non-conductive pool shells, bonding at four points shall not be required. Connections shall be made as required by 680.26(B).

Section 690.13 A Amend to read:

The photovoltaic disconnecting means shall be installed at a readily accessible location outside of a building or structure nearest the point of entrance of the system conductors.