

Exhibit B
2023 National Electrical Code (NFPA 70) Local Amendments

100; change the following to read as follows:

Article 100; amend the following definition by adding the sentence below:

Authority Having Jurisdiction (AHJ). Add the following sentence to the end of the definition
“The AHJ shall be the Town of Highland Park and its employees or agents as assigned.”

110.2; change the following to read as follows:

110.2 Approval. The conductors and equipment required or permitted by this *Code* shall be acceptable only if approved. Approval of equipment may be evident by listing and labeling of equipment by a Nationally Recognized Testing Lab (NRTL) with a certification mark of that laboratory or a qualified third-party inspection agency or a field evaluation by a Field Evaluation Body accredited by either the International Code Council International Accreditation Service AC354 or ANSI National Accreditation Board programs and approved by the AHJ.

Exception: Unlisted equipment that is relocated to another location within a jurisdiction or is field modified is subject to the approval by the AHJ. This approval may be by a field evaluation by a NRTL or qualified third-party inspection agency or a field evaluation by a Field Evaluation Body accredited by either the ICC IAS AC354 or ANAB programs and approved by the AHJ

~~Manufacturer’s self-certification of any equipment shall not be used as a basis for approval by the AHJ.~~

110.12 B; add the following to:

(B) Integrity of Electrical Equipment and Connections.

Internal parts of electrical equipment, including busbars, wiring terminals, insulators, and other surfaces, shall not be damaged or contaminated by foreign materials such as paint, plaster, cleaners, abrasives, corrosive residues or influences, fire, products of combustion, or water. There shall be no damaged parts that may adversely affect safe operation or mechanical strength of the equipment such as parts that are broken; bent, cut; or deteriorated by corrosion, chemical action, or overheating. Except where prohibited elsewhere in this Code, equipment shall be specifically evaluated by its manufacturer or a qualified testing laboratory prior to being returned to service .

210.8 A 1 Bathrooms Exception; change the following to read as follows:

(A) Dwelling Units.

All 125-volt through 250-volt receptacles installed in the following locations and supplied by single-phase branch circuits rated 150 volts or less to ground shall have ground-fault circuit-interrupter protection for personnel:

(1) Bathrooms

Exception No. 4: Factory-installed receptacles that are not readily accessible and are mounted internally to ~~bathroom~~ exhaust fan assemblies shall not require GFCI protection unless required by the installation instructions or listing.

210.52 C 1 Countertop and Work Surfaces Exception; change the following to read as follows:

C) Countertops and Work Surfaces.

In kitchens, pantries, breakfast rooms, dining rooms, and similar areas of dwelling units, receptacle outlets for countertop and work surfaces that are 300 mm (12 in.) or wider shall be installed in accordance with 210.52(C)(1) through (C)(3) and shall not be considered as the receptacle outlets required by **210.52(A)**.

For the purposes of this section, where using multioutlet assemblies, each 300 mm (12 in.) of multioutlet assembly containing two or more receptacles installed in individual or continuous lengths shall be considered to be one receptacle outlet.

(1) Wall Spaces.

Receptacle outlets shall be installed so that no point along the wall line is more than 600 mm (24 in.) measured horizontally from a receptacle outlet in that space. The location of the receptacles shall be in accordance with **210.52(C)(3)**.

*Exception No. 1: Receptacle outlets shall not be required directly behind a range, counter-mounted cooking unit, or sink in the installation described in **Figure 210.52(C)(1)**.*

*Exception No. 2: Where a required receptacle outlet cannot be installed in the wall areas shown in **Figure 210.52(C)(1)**, the receptacle outlet shall be permitted to be installed as close as practicable to the countertop area to be served. The total number of receptacle outlets serving the countertop shall not be less than the number needed to satisfy **210.52(C)(1)**. These outlets shall be located in accordance with **210.52(C)(3)**.*

210.52 C 2 Island and Peninsular Countertops and Work Surfaces: Change the following to read as follows:

Receptacle outlets, if installed to serve an island or peninsular countertop or work surface, shall be installed in accordance with [210.52\(C\)\(3\)](#). If a receptacle outlet is not provided to serve an island or peninsular countertop or work surface, ~~provisions shall be provided at the island or peninsula~~ for a chapter 3 wiring method shall be installed and supplied from a Small Appliance Branch Circuit to a Listed Outlet Box in the Peninsular or Island Cabinet at an Accessible Location, for future addition of a receptacle outlet to serve the island or peninsular countertop or work surface.

210.63 B 1 Equipment Requiring Servicing.; change the following to read as follows:

(B) Other Electrical Equipment.

In other than one- and two-family dwellings, a receptacle outlet shall be located as specified in [210.63\(B\)\(1\)](#) and (B)(2).

(1) Indoor Service Equipment.

The required receptacle outlet shall be located within the same room or area as the service equipment.

(2) Indoor Equipment Requiring Dedicated Equipment Spaces.

Where equipment, other than service equipment, requires dedicated equipment space as specified in [110.26\(E\)](#), the required receptacle outlet shall be located within the same room or area as the electrical equipment and shall not be connected to the load side of the equipment's disconnecting means.

220.7 Load Calculation; add the following:

A load calculation shall be provided ~~upon request~~ when modifications to the electrical installation occur.

230.85 C Emergency Disconnects: Change the following to read as follows:

For one- and two-family dwelling units, an emergency disconnecting means located on the exterior of the building shall be installed.

(C) Replacement.

Where service equipment is replaced, all of the requirements of this section shall apply.

Exception: Where a pre-existing installation is Code Compliant with 230.70 A, only meter sockets, service entrance conductors, or related raceways and fittings are replaced, the requirements of this section shall not apply.

408.4 Descriptions Field Identification Required: Change the following to read as follows

(A) Circuit Directory or Circuit Description.

Every circuit and circuit modification shall be provided with a legible and permanent description that complies with all of the following conditions as applicable:

- (1) Located at each switch or circuit breaker in a switchboard or switchgear
- (2) Included in a circuit directory that is located on the face of, inside of, or in an approved location adjacent and permanently affixed to the panel door in the case of a panelboard
- (3) Clear, evident, and specific to the purpose or use of each circuit including spare positions with an unused overcurrent device
- (4) Described with a degree of detail and clarity that is unlikely to result in confusion between circuits
- (5) Not dependent on transient conditions of occupancy
- (6) Clear in explaining abbreviations and symbols when used

410.118: Change the following to read as follows

410.118 Access to other boxes.

Luminaires recessed in the ceilings, floors, or walls shall not be used to access outlet, pull, or junction boxes or conduit bodies, unless the box or conduit body is an integral part of the listed luminaire.

Exception: removable luminaires with a minimum measurement of 22 in. X 22 in. shall be permitted to be used as access to outlet, pull, junction boxes or conduit bodies.

422.31 B: Change the following to read as follows

422.31 B Appliances Rated over 300 Volt-Amperes

(B) Appliances Rated over 300 Volt-Amperes. For permanently connected appliances rated over 300 volt-amperes, the branch-circuit switch or circuit breaker shall be permitted to serve as the disconnecting means where the switch or circuit breaker is within sight from and is readily accessible to the appliance it serves or is capable of being locked in the open position in accordance with 110.25 and is readily accessible to the appliance it serves.

Informational Note No. 1: For appliances employing unit switches, see 422.34.

Informational Note No 2: The following means of access are considered to constitute readily accessible for this code change when conforming to the additional access requirements of the I Codes:

- (1) A permanent stair.
- (2) A pull-down stair with a minimum 300 lb. (136 kg) capacity.
- ~~(3) An access door from an upper floor level.~~

500.8 (A) (3); change to read as follows:

500.8 Equipment.

Articles 500 through 504 require equipment construction and installation that ensure safe performance under conditions of proper use and maintenance.

Informational Note No. 1: It is important that inspection authorities and users exercise more than ordinary care with regard to installation and maintenance.

Informational Note No. 2: Since there is no consistent relationship between explosion properties and ignition temperature, the two are independent requirements.

Informational Note No. 3: Low ambient conditions require special consideration. Explosion proof or dust-ignition proof equipment may not be suitable for use at temperatures lower than -25°C (-13°F) unless they are identified for low-temperature service. However, at low ambient temperatures, flammable concentrations of vapors may not exist in a location classified as Class I, Division 1 at normal ambient temperature.

(A) Suitability. Suitability of identified equipment shall be determined by one of the following:

- (1) Equipment listing or labeling;
- (2) Evidence of equipment evaluation from a qualified testing laboratory or inspection agency concerned with product evaluation; or,
- (3) By Special Permission Only, Evidence acceptable to the authority having jurisdiction such as a manufacturer's self-evaluation *accompanied by* or an owner's engineering judgment an engineering judgment signed and sealed Under Supervision by a Qualified State of Texas Licensed Professional Engineer engaged primarily in the design or maintenance of electrical installations as referenced by TBPELS 137.59 (a)(b) as acceptable by the AHJ.

Informational Note: Additional documentation for equipment may include certificates demonstrating compliance with applicable equipment standards, indicating special conditions of use, and other pertinent information.

505.7 and 505.7 (A); change to read as follows:

505.7 Special Precaution.

~~Article 505~~ This article requires equipment construction and installation that ensures safe performance under conditions of proper use and maintenance.

Informational Note No. 1: It is important that inspection authorities and users exercise more than ordinary care ~~with regard~~ to regarding the installation and maintenance of electrical equipment in hazardous (classified) locations.

Informational Note No. 2: ~~Low ambient conditions require special consideration.~~ Electrical equipment ~~depending~~ that is dependent on the protection ~~techniques described~~ technique permitted by 505.8(A) may not be suitable for use at temperatures lower than -20°C (-4°F) unless they are identified for use at lower temperatures. ~~However,~~ Low ambient conditions require special consideration. At low ambient temperatures, flammable concentrations of vapors ~~may~~ might not exist in a location classified Class I, Zones 0, 1, or 2 at normal ambient temperature.

- (A) Implementation of Zone Classification System. Classification of areas, engineering and design, selection of equipment and wiring methods, installation, and inspection shall be performed ~~By Special Permission Only, under~~ Supervision by a Qualified State of Texas Licensed Professional Engineer engaged primarily in the design or maintenance of electrical installations as referenced by TBPELS 137.59 (a)(b) as acceptable by the AHJ.

- (B) GO TO TBPE LAW FOR THE DEFINITION OF AN ENGINEER
<https://pels.texas.gov/>
<https://pels.texas.gov/downloads/lawrules.pdf>

695.6 A 1: Change the following to read as follows:

695.6 (A) Supply Conductors.

(1) Services and On-Site Power Production Facilities. Service conductors and conductors supplied by on-site power production facilities shall be physically routed outside a building(s) and shall be installed as service-entrance conductors in

accordance with 230.6, 230.9, and Parts III and IV of Article 230. Where supply conductors cannot be physically routed outside of buildings, the conductors shall be permitted to be routed through the building(s) where installed in accordance with 230.6(1) or (2).

~~*Exception: The supply conductors within the fire pump room shall not be required to meet 230.6 (1) or (2)*~~

(REASON FOR CHANGE: To add clarity and provide more positive options for enforcement and approval. All Fire Pump rooms are not Fire Rated as on all 4 sides. There are Fault Currents that could exceed 150,000-190,000 amps and protection of these Service Conductors is essential and conflict with other codes, specifically 230.70(A)(1).)

690.9 D: Change the following to read as follows:

690.9(D) Transformers. Overcurrent protection for power transformers shall be installed in accordance with 705.30(F).

~~*Exception: A power transformer with a current rating on the side connected toward the interactive inverter output, not less than the rated continuous output current of the inverter, shall be permitted without overcurrent protection from the inverter.*~~

705.8 System Installation: Change the following to read as follows:

705.8 System Installation. Installation of one or more electrical power production sources operating in parallel with a primary source(s) of electricity shall be performed only by qualified persons. During the installation there shall be on site one of the following:

(1) A person holding a Master Electrician License issued by the Texas Department of Licensing and Regulation.

(2) A person holding a Journeyman Electrician License issued by the Texas Department of Licensing and Regulation.

~~(3) A person holding a Residential Wireman License issued by the Texas Department of Licensing and Regulation. Additionally this person must have formal training in interconnected electric power production sources. This training must be approved by the AHJ.~~

705.80 Power Source Capacity.

For interconnected power production sources that operate in island mode, capacity shall be calculated using the sum of all power source output maximum currents for the connected power

production source. Solar photovoltaic (PV) and wind systems shall not be included in the sum capacity.

710.15 A: Change the following to read as follows

710.15 General

~~710.15(A) Supply Output.~~

~~Power supply to premises wiring systems fed by stand-alone or isolated microgrid power sources shall be permitted to have less capacity than the calculated load. The capacity of the sum of all sources of the stand-alone supply shall be equal to or greater than the load posed by the largest single utilization equipment connected to the system. Calculated general lighting loads shall not be considered as a single load have adequate capacity to meet the calculated load in accordance with Article 220.~~

~~Informational Note: For general use loads the system capacity can be calculated using the sum of the capacity of the firm sources, such as generators and ESS inverters. For specialty loads intended to be powered directly from a variable source, the capacity can be calculated using the sum of the variable sources, such as PV or wind inverters, or the combined capacity of both firm and variable sources.~~

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