

2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

ITINERARY

2026 NEC:

CHAPTER 1 GENERAL

CHAPTER 2 WIRING & PROTECTION

ELECTRICAL IN THE THERMAL ENVELOPE

2027 ICC RELEASE DATES

NEXT SESSION

CHAPTER 3 WIRING METHODS & MATERIALS (F

CHAPTER 4 EQUIPMENT FOR GENERAL USE

CHAPTER 5 SPECIFIC OCCUPANCIES & LOCATIONS

Thursday, June 4, 2026

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 100 Energy Storage System

Definition revised

One or more devices, capable of storing energy for use at a later time, that are assembled together.

2023 NEC, Art 480.2 Storage Battery:

A single or group of rechargeable cells connected-together electrically in series, in parallel, or a combination of both, and comprised of lead-acid, nickel-cadmium or other rechargeable electrochemical types.

2023 NEC, Art 706.2 Energy Storage System (ESS):

One or components assembled-together capable of storing energy and providing electrical energy into the premises wiring system or an electric power production and distribution network.

When is a battery an ESS?

When the manufacturer assembles it together and tested and listed as an ESS under UL ?.

UL 9540

Thursday, June 4, 2026

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 100 Energy Storage System

Definition of revised

One or more devices, capable of storing energy for use at a later time, that are assembled together.

Info Note 1: An ESS can include batteries, kinetic devices like a flywheel or compressed air, or capacitors.

Info Note 2: A stationary battery system is not an ESS because an ESS is listed as a complete system. It can include inverters, charge controllers, and similar.

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Are they equal?

ESS



Battery
≠



NOT tested
and listed as
an ESS

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

SB1202 & ESS

Sec. 247.0025. THIRD-PARTY REVIEW OR INSPECTION FOR HOME BACKUP POWER INSTALLATIONS. (a) In this section, "home backup power installation" means an electric generating facility, an energy storage facility, a standby system, and any associated infrastructure and equipment intended to provide electrical power to a one- or two-family dwelling, regardless of whether the facility or system is capable of participating in a wholesale electric market, that is connected at 600 volts or less.

(1) the following persons, other than a person described by Section 247.002(a)(1), may review a development document required by a regulatory authority to install a home backup power installation without having to submit the document to the authority for review:

(A) a person authorized to review a development document under Section 247.002(a);

(B) an electrical inspector as defined in Section 1305.002, Occupations Code; or

(C) a master electrician described by Section 1305.153, Occupations Code, who is licensed under Subchapter D, Chapter 1305 of that code; and

(2) the following persons, other than a person described by Section 247.002(b)(1), may conduct a development inspection required by a regulatory authority to install a home backup power installation without having to request the inspection from the authority:

(A) a person authorized to conduct a development inspection under Section 247.002(b);

(B) an electrical inspector as defined in Section 1305.002, Occupations Code; or

(C) a master electrician described by Section 1305.153, Occupations Code, who is licensed under Subchapter D, Chapter 1305 of that code.

(d) A regulatory authority shall:

(1) post on the authority's Internet website each law, rule, standard, fee schedule, and other document necessary for a person to review a development document or conduct a development inspection under this section; or

(2) provide on request an electronic copy of the information described by Subdivision (1) not later than the second business day after the date the regulatory authority receives the request.

Harker Heights
The Bright Star Of Central Texas

SB 1202 Solar PV System Submission Checklist

For contractors electing to proceed under the provisions of Senate Bill 1202 pertaining to third-party review and inspection of "home backup power installations," the following checklist is provided to satisfy the requirements set forth in Section 247.002(c)(1)-(2). All others may follow the currently established submission and inspection procedures.

Fees: Pursuant to §247.003, the required

Local Adopted Codes:

- 2023 NEC

Subject Installation:

- Does the project qualify as a "home backup power installation": an electric generating facility, energy storage facility, standby system, or associated infrastructure supplying power to a single- or two-family dwelling, connected at 600 volts or less?

Eligibility for Third-Party Review & Inspection:

- The third party (e.g., a licensed engineer approved by the regulatory authority §247.002(b)) (for inspections)

Plan Requirements: Pursuant to §247.004(b) §247.002(a), the following documents are hereby required to be submitted to the City of Harker Heights:

Electrical Application	One Line Diagram
Approval** / Project Details	Conductor Calculations
Site Plan	Material List
Roof Plan with Module and Fire Setback Array Details	System Required Labels
Mounting Details	Site Placard
Structural letter verifying the additional	Fire Detection & Separation Requirements for Indoor Installations

****Approval will be in the form of a dated, stamped, and signed report of acceptance.**

Permit Issuance: Work may not begin until the Authority Having Jurisdiction has issued an approval of the project pursuant to §247.0025(e)(1), and fees have been paid.

Permit Closing: Permits will be closed once the inspection report is submitted by a duly authorized third-party inspector, qualified under §247.002(b), in accordance with §247.004(a)(2), including an inspection report** and photos verifying compliance with the following minimum requirements. (Separate report from PV system is required) (Reports provided to the city no later than the 15th day after completion of the review or the inspection)

ESS is installed per approved plans and adopted codes.	Remote Actuation NEC Article 706
Fire Detection IFC 1207, IRC 330	Transfer Switch NEC 702 provisions, Manual & Automatic
Protection from impact IRC 330.8, ventilation IRC 330.9 for installations 330.4	Proper labeling per NEC 706.21. Disconnects are accessible and properly marked. NEC 706.15
Proper conductor sizing and protection per NEC 706.30, 706.31	Backfeed breaker located at opposite end of bus per NEC 705.12(B). (If applicable)
Grounding and bonding per NEC Article 690 and 250.50.	Equipment proposed matches submitted plans and is installed accordingly. NEC 110.3(B), IRC330.3

****The inspection report shall be dated, stamped by the engineer, or signed by the Master Electrician.**

Harker Heights
The Bright Star Of Central Texas

SB 1202 Energy Storage System Submission Checklist

For contractors electing to proceed under the provisions of Senate Bill 1202 pertaining to third-party review and inspection of "home backup power installations," the following checklist is provided to satisfy the requirements set forth in Section 247.002(c)(1)-(2). All others may follow the currently established submission and inspection procedures.

Fees: Pursuant to §247.003, the required \$35 (+\$10 tech fee) permit fee does not include review or inspection.

Local Adopted Codes:

- 2023 NEC
- 2024 International Residential Code
- 2024 International Fire Code

Subject Installation:

- Does the project qualify as a "home backup power installation": an electric generating facility, energy storage facility, standby system, or associated infrastructure supplying power to a single- or two-family dwelling, connected at 600 volts or less?

Eligibility for Third-Party Review & Inspection:

- The third party (e.g., a licensed engineer, master electrician, or employee of another political subdivision approved by the regulatory authority) is duly authorized under §247.002(a) (for document review) or §247.002(b) (for inspections)

Plan Requirements: Pursuant to §247.004(b), and submitted by a duly authorized 3rd party reviewer qualified under §247.002(a), the following documents are hereby required to be submitted to the City of Harker Heights:

Electrical Application	One Line Diagram
Approval** / Project Details	Conductor Calculations
Site Plan	Material List
Module Layout, Size Limitation Based on Location and Type	System Required Labels
Mounting Details per IFC	Site Placard
Fire Detection & Separation Requirements for Indoor Installations	Manufacturer Specification Sheets

****Approval will be in the form of a dated, stamped engineered plan or a signed letter of acceptance.**

Permit Issuance: Work may not begin until the Authority Having Jurisdiction has issued an approval of the project pursuant to §247.0025(e)(1), and fees have been paid.

Permit Closing: Permits will be closed once the inspection report is submitted by a duly authorized third-party inspector, qualified under §247.002(b), in accordance with §247.004(a)(2), including an inspection report** and photos verifying compliance with the following minimum requirements. (Separate report from PV system is required) (Reports provided to the city no later than the 15th day after completion of the review or the inspection)

ESS is installed per approved plans and adopted codes.	Remote Actuation NEC Article 706
Fire Detection IFC 1207, IRC 330	Transfer Switch NEC 702 provisions, Manual & Automatic
Protection from impact IRC 330.8, ventilation IRC 330.9 for installations 330.4	Proper labeling per NEC 706.21. Disconnects are accessible and properly marked. NEC 706.15
Proper conductor sizing and protection per NEC 706.30, 706.31	Backfeed breaker located at opposite end of bus per NEC 705.12(B). (If applicable)
Grounding and bonding per NEC Article 690 and 250.50.	Equipment proposed matches submitted plans and is installed accordingly. NEC 110.3(B), IRC330.3

****The inspection report shall be dated, stamped by the engineer, or signed by the Master Electrician.**

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

SB1202 & ESS

Sec. 247.004. THIRD-PARTY REQUIREMENTS. (a) A person who reviews a development document or conducts a development inspection under this chapter [Section 247.002] shall:

(1) review the document, conduct the inspection, and take all other related actions in accordance with all applicable provisions of law; and

(2) not later than the 15th day after the date the person completes the review or inspection, provide notice to the regulatory authority of the results of the review or inspection.

(b) A regulatory authority may prescribe a reasonable format for the notice required under Subsection (a). If the regulatory authority has not prescribed a format, a person who reviews a development document or conducts a development inspection under this chapter may provide notice by e-mail to the e-mail address of the regulatory authority.

Harker Heights
City of Harker Heights, Texas

SB 1202 Solar PV System Submission Checklist

For contractors electing to proceed under the provisions of Senate Bill 1202 pertaining to third-party review and inspection of "home backup power installations," the following checklist is provided to satisfy the requirements set forth in Section 247.002(c)(1)-(2). All others may follow the currently established submission and inspection procedures.

Fees: Pursuant to §247.003, the required

- Local Adopted Codes:
- 2023 NEC

Subject Installation:

- Does the project qualify as a "home storage facility, standby system, or a dwelling, connected at 600 volts or l

Eligibility for Third-Party Review & Inspecti

- The third party (e.g., a licensed engin approved by the regulatory authority §247.002(b) (for inspections)

Plan Requirements: Pursuant to §247.004(b)

§247.002(a), the following documents are her

Electrical Application
Approval**, Project Details
Site Plan
Roof Plan with Module and Fire Setba
Array Details
Mounting Details
Structural letter verifying the additiona

**Approval will be in the form of a dated, st

Permit Issuance: Work may not begin until t

pursuant to §247.0025, and fees have been p

Permit Closing: Permits will be closed once t

inspector, qualified under §247.002(b), in acc

confirming compliance with the following mir

15" day after completion of the review or the

Array installed per approved plans.
Mounting system and flashing installed per manufa instructions. (IRC 329.3.1, IRC R907.1)
Roof penetrations sealed/weatherproofed. (IRC R90 Manufacturer instructions)
Proper conductor sizing and protection per NEC. (N 300, 310)
Grounding and bonding per NEC 690 part V and 250

**The inspection report shall be dated, si

Harker Heights
City of Harker Heights, Texas

SB 1202 Energy Storage System Submission Checklist

For contractors electing to proceed under the provisions of Senate Bill 1202 pertaining to third-party review and inspection of "home backup power installations," the following checklist is provided to satisfy the requirements set forth in Section 247.002(c)(1)-(2). All others may follow the currently established submission and inspection procedures.

Local Adopted Codes:

- 2023 NEC
- 2024 International Residential Code
- 2024 International Fire Code

Fees: Pursuant to §247.003, the required \$35 (+\$10 tech fee) permit fee does not include review or inspection.

Subject Installation:

- Does the project qualify as a "home backup power installation": an electric generating facility, energy storage facility, standby system, or associated infrastructure supplying power to a single- or two-family dwelling, connected at 600 volts or less?

Eligibility for Third-Party Review & Inspection:

- The third party (e.g., a licensed engineer, master electrician, or employee of another political subdivision approved by the regulatory authority) is duly authorized under §247.002(a) (for document review) or §247.002(b) (for inspections)

Plan Requirements: Pursuant to §247.004(b), and submitted by a duly authorized 3" party reviewer qualified under §247.002(a), the following documents are hereby required to be submitted to the City of Harker Heights:

Electrical Application	One Line Diagram
Approval ** / Project Details	Conductor Calculations
Site Plan	Material List
Module Layout, Size Limitation Based on Location and Type	System Required Labels
Mounting Details per IFC	Site Plancard
Fire Detection & Separation Requirements for Indoor Installations	Manufacturer Specification Sheets

**Approval will be in the form of a dated, stamped engineered plan or a signed letter of acceptance.

Permit Issuance: Work may not begin until the Authority Having Jurisdiction has issued an approval of the project pursuant to §247.0025(e)(f), and fees have been paid.

Permit Closing: Permits will be closed once the inspection report is submitted by a duly authorized third-party

inspector, qualified under §247.002(b), in accordance with §247.004(a)(2), including an inspection report** and

photos verifying compliance with the following minimum requirements. (Separate report from PV system is

required) (Reports provided to the city no later than the 15th day after completion of the review or the

inspection)

ESS is installed per approved plans and adopted codes.	Remote Actuation NEC Article 706
Fire Detection IFC 1207, IRC 330	Transfer Switch NEC 702 provisions, Manual & Automatic
Protection from impact IRC 330.8, ventilation IRC 330.9 for installations 330.4	Proper labeling per NEC 706.21. Disconnects are accessible and properly marked. NEC 706.15
Proper conductor sizing and protection per NEC 706.30, 706.31	Backfeed breaker located at opposite end of bus per NEC 706.12(B), (if applicable)
Grounding and bonding per NEC Article 690 and 250.50.	Equipment proposed matches submitted plans and is installed accordingly. NEC 110.3(B), IRC330.3

**The inspection report shall be dated, stamped by the engineer, or signed by the Master Electrician.

Thursday, June 4, 2026

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Squirrel


2024 IMC 304.3

Equipment and appliances having an ignition source and located in hazardous locations and...private garages...shall be elevated 18" above the floor...

Exception: ...not required for appliances that are listed as flammable vapor ignition resistant. (FVIR)

ESS is not an appliance regulated by the IMC but is equipment is a component permanently installed and integrated to control environmental conditions.

Control is a manual or automatic devise designed to regulate the...electrical supply to...a mechanical system.

A photograph of a squirrel standing upright on a grassy field. The squirrel has grey and brown fur and is looking directly at the camera. A thought bubble is positioned above the squirrel's head, containing text. The background is a soft-focus green field.

Does an ESS need to be elevated in a garage?

2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 100 Metering Center

Definition is NEW

A panelboard in an enclosure that also contains one or more meter sockets.

A panelboard is a single or a group of panel units designed for assembly in the form as a single panel, including buses and automatic overcurrent devices...



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 100 Pool

Definition is revised

Equipment designed to contain water for swimming, recreation, wading, or therapeutic use.

2023 NEC, Art 680.2 Pool: Manufactured or field-constructed equipment designed to contain water on a permanent basis and used for swimming, wading, immersion, or therapeutic purposes.

Permanently Installed Swimming Pool: Those that are constructed in the ground or partially...in depth greater than 42"...weather or not served by electrical circuits...

Storable Swimming Pool: ...pools intended to be stored...constructed on or above ground...maximum depth of 42"...with non-metallic walls or inflatable...



2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 100 Permanently Installed Swimming Pool

Definition is revised

Pools built or installed in, on, or partially in the ground, and any pool in or on a building, regardless of any connections to electrical circuits.



2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 100 Pool

Definition is revised

Equipment designed to contain water for swimming, recreation, wading, or therapeutic use.

Info Note 1: A leisure river is a pool.

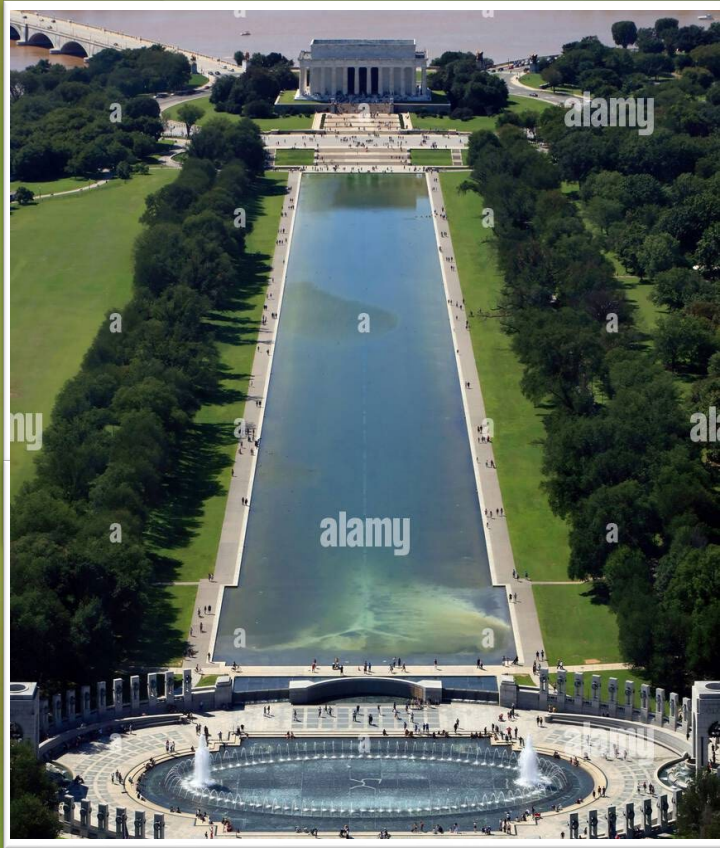
Info Note 2: Bodies of water like lakes, lagoons, surf parks, or bodies of water used for industrial purposes are not pools. They are covered in Art 682.



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Squirrel



Is this a pool?

2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 110.16 Arc-Flash Hazard Warning Signs

Requirement revised

2023 NEC, Art 110.16: Electrical equipment, such as panelboards, industrial control panels, meter socket enclosures, and motor control centers, that is in other than dwelling units, and is likely to require examination, adjustments, servicing, or maintenance while energized shall be field or factory marked to warn qualified persons of potential arc flash hazards. The marking shall meet requirements of 110.21(B) and shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing, or maintenance of equipment.

Do you see the conflict in the 2023 code?

marked to

Field or factory marked?

and shall be located so as to be clearly

110.21(B) Specific to field marking only

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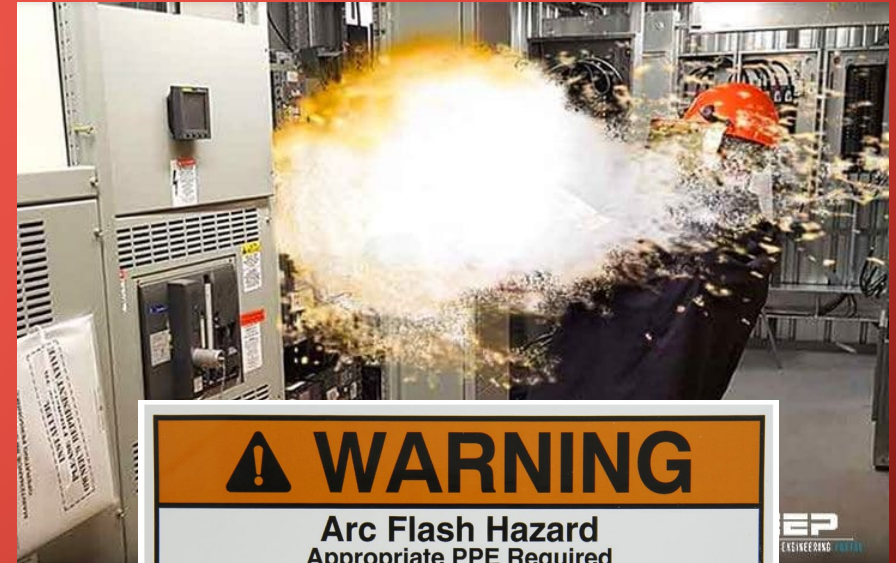
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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 110.16 Arc-Flash Hazard Warning Signs

Requirement revised

In other than dwelling units, a permanent arc flash marking must be applied to service equipment and equipment supplied by feeders such as switchgear, switchboards, panelboards, industrial control panels, motor control centers, and meter socket enclosures if they are likely to require examination, adjustment, servicing, or maintenance while energized. The marking must be clearly visible to qualified persons and must comply with the signage requirements of 110.21(B).



WARNING		
Arc Flash Hazard Appropriate PPE Required		
Arc Flash Boundary _____	Incident Energy (cal/cm ²) _____	
Hazard Risk Category _____	Corresponding Work Distance _____	
Minimum Arc Rating of Clothing _____	Nominal System Voltage _____	
FLASH PPE		
<input type="checkbox"/> Arc-rated balaclava	<input type="checkbox"/> Arc-rated shirt	<input type="checkbox"/> Face shield
<input type="checkbox"/> Arc-rated hard hat liner	<input type="checkbox"/> Arc-rated pants	<input type="checkbox"/> Hearing protection
<input type="checkbox"/> Arc-rated gloves	<input type="checkbox"/> Arc-rated coverall	<input type="checkbox"/> Safety glasses
<input type="checkbox"/> Long-sleeve shirt	<input type="checkbox"/> Flash suit	<input type="checkbox"/> Safety goggles
<input type="checkbox"/> Long pants	<input type="checkbox"/> Flash hood	<input type="checkbox"/> Leather gloves
	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Leather shoes
Equipment ID: _____		
BRADY #121079 BRADYID.COM Y1894664		

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 110.16 Arc-Flash Hazard Warning Signs

Requirement revised

The label must comply with applicable industry practice and indicate the:

1. System voltage,
2. Arc flash boundary,
3. Available incident energy or minimum level of personal protective equipment (PPE) needed, and
4. Date the assessment was performed.



WARNING		
Arc Flash Hazard		
Appropriate PPE Required		
Arc Flash Boundary _____	Incident Energy (cal/cm ²) _____	
Hazard Risk Category _____	Corresponding Work Distance _____	
Minimum Arc Rating of Clothing _____	Nominal System Voltage _____	
FLASH PPE		
<input type="checkbox"/> Arc-rated balaclava	<input type="checkbox"/> Arc-rated shirt	<input type="checkbox"/> Face shield
<input type="checkbox"/> Arc-rated hard hat liner	<input type="checkbox"/> Arc-rated pants	<input type="checkbox"/> Hearing protection
<input type="checkbox"/> Arc-rated gloves	<input type="checkbox"/> Arc-rated coverall	<input type="checkbox"/> Safety glasses
<input type="checkbox"/> Long-sleeve shirt	<input type="checkbox"/> Flash suit	<input type="checkbox"/> Safety goggles
<input type="checkbox"/> Long pants	<input type="checkbox"/> Flash hood	<input type="checkbox"/> Leather gloves
	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Leather shoes
Equipment ID: _____		
BRADY® #121079 BRADYID.COM Y1894664		

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

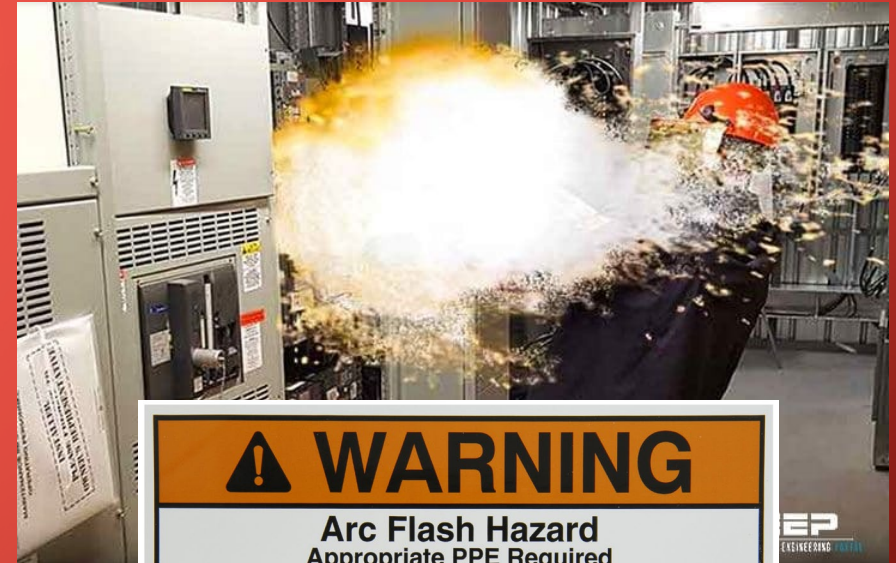
Article 110.16 Arc-Flash Hazard Warning Signs

How do I make an arc flash assessment?

NFPA 70E, Art 130.5

(E) Arc flash boundary and Table 130.7(C)(15)(a) Categories for Alternating Current (ac) Systems

(F) Arc flash PPE



 WARNING		
Arc Flash Hazard Appropriate PPE Required		
Arc Flash Boundary _____	Incident Energy (cal/cm ²) _____	
Hazard Risk Category _____	Corresponding Work Distance _____	
Minimum Arc Rating of Clothing _____	Nominal System Voltage _____	
FLASH PPE		
<input type="checkbox"/> Arc-rated balaclava	<input type="checkbox"/> Arc-rated shirt	<input type="checkbox"/> Face shield
<input type="checkbox"/> Arc-rated hard hat liner	<input type="checkbox"/> Arc-rated pants	<input type="checkbox"/> Hearing protection
<input type="checkbox"/> Arc-rated gloves	<input type="checkbox"/> Arc-rated coverall	<input type="checkbox"/> Safety glasses
<input type="checkbox"/> Long-sleeve shirt	<input type="checkbox"/> Flash suit	<input type="checkbox"/> Safety goggles
<input type="checkbox"/> Long pants	<input type="checkbox"/> Flash hood	<input type="checkbox"/> Leather gloves
	<input type="checkbox"/> Hard hat	<input type="checkbox"/> Leather shoes
Equipment ID: _____		
BRADY® #121079 BRADYID.COM Y1894664		
		

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 110.26 Space About Electrical Equipment

Requirement clarified for access and/or egress obstruction requirements.

2023 NEC, Art 110.26 Spaces About Electrical Equipment: Access and working space shall be provided and maintained about all electrical equipment to permit ready and safe operation and maintenance of such equipment.

2023 NEC, Art 110.26(C)(2) Open equipment doors shall not impede the entry to or egress from a working space.



Photo: IAEI Archives

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 110.26 Space About Electrical Equipment

Requirement clarified for access and/or egress obstruction requirements.

Access/egress is obstructed if one or more equipment door(s) reduces access to or egress from the working space to less than 24" wide or 6'6" high when the doors are or can be opened to 90°.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 110.26 Space About Electrical Equipment

Requirement clarified for access and/or egress obstruction requirements.

For equipment likely to require examination, adjustment, servicing, or maintenance while energized, working space must comply with 110.26(A)(1)-(A)(4).

If special permission is granted, smaller working spaces are allowed for voltages up to 30v RMS, 42v peak, or 60v DC.

Who grants “special permission” ?

Authority Having Jurisdiction (AHJ)

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 110.26 Space About Electrical Equipment

Requirement clarified for access and/or egress obstruction requirements.

Clearance in front of equipment must comply with table 110.26(A)(1) for AC and DC voltages, unless allowed by (a) or (b). Distance is measured from the enclosure front or opening if the live parts are enclosed.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

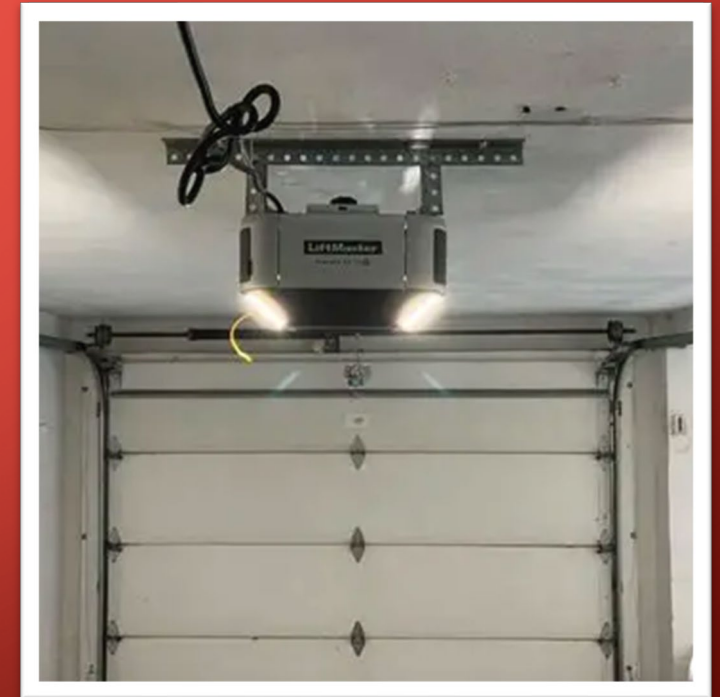
Article 120.13 & 120.41 Dwelling Unit Calculations

Requirement revised

To understand 120.13 we need to understand 120.41 Dwelling Units: The lighting and general-purpose load calculations for dwelling units were reduced by 33%.

Dwelling units are calculated at 2vA per sqft, which includes the receptacles and lighting outlets in 120.41(1)-(3). Motors rated less than 1/8 hp are also included if connected to a lighting circuit.

What are examples motors connected to a lighting circuit?



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 120.13 & 120.41 Dwelling Unit Calculations

- (1) Any 15A or 20A general-use receptacle outlets, including those in bathrooms [210.11(C)(3)] or garages [210.11(C)(4)].
- (2) The outdoor, garage, accessory buildings, and basement receptacles discussed in 210.52(E) and (G).
- (3) The lighting outlets included in 210.70.

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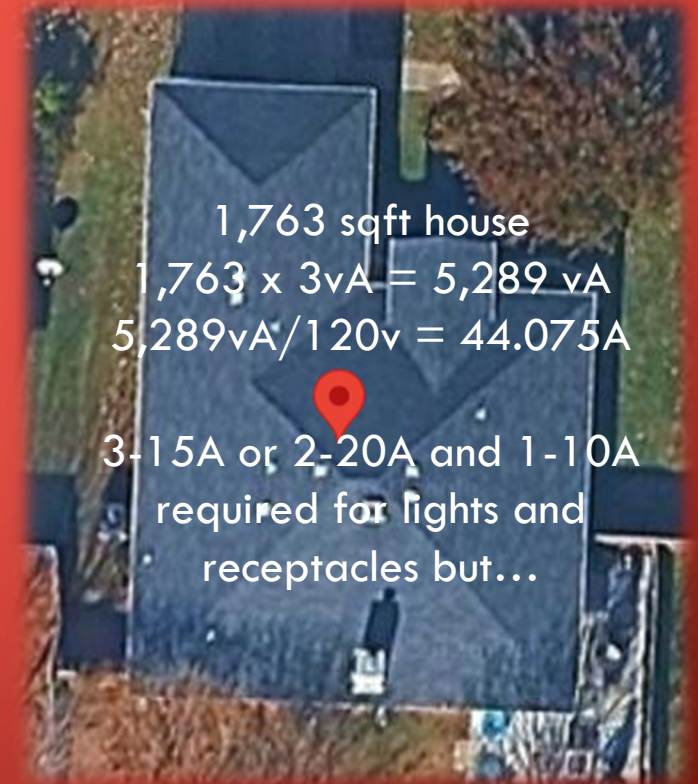
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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 120.13 Number of Branch Circuits for Dwelling Unit

A different calculation for minimum number of dwelling unit branch circuits was added.

Dwelling units must be calculated at 3vA per sqft when determining the minimum number of branch circuits.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 120.57 Electric Vehicle Supply Equipment (EVSE)

Requirement Revised

For EVSE, the nameplate is **used if available**. If it is **not available**, an assumed load of 7,200vA is to be used.

Use Art 625 in conjunction with 120.57 to determine reduced load calculation

FOR USE WITH ELECTRIC VEHICLES
CAUTION Risk of electrical shock or burn. This product contains no user serviceable parts.
CAUTION Do not use this product if the EV cable is damaged.
WARNING Automatic COID reset provided.
WARNING Only for use with vehicles that do not require ventilation.
WARNING This unit employs parts, such as switches and relays that tend to produce arcs or sparks and must be mounted not less than 18 inches above the floor if installed in an enclosed garage.

ELECTRIC VEHICLE CHARGING STATION
MODEL: DS-100
PART #: 0230-00-003
SERIAL: CS1C161044511
CONFIG: CS-40-C13-L25-45

40A BRANCH CIRCUIT PROTECTOR
INPUT: 208-240 VAC, 50/60Hz, 120V TO GND
32AMPS CONTINUOUS
OUTPUT: 208-240 VAC, 50/60Hz, 120V TO GND
32AMPS CONTINUOUS
SHORT CIRCUIT RATING: 5000RMS SYMMETRICAL AMPS at 240VAC
SAE J1772 COMPLIANT / TYPE 4 ENCLOSURE
TEMPERATURE RATING: -30°C to +50°C

32A x 208v = 6,656vA
32A x 240v = 7,680vA

2023 required 7,200 vA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) This device must accept any interference received, including interference that may cause undesired operation.

CLIPPERCREEK, INC
11850 KEMPER ROAD
AUBURN, CA 95603
WWW.CLIPPERCREEK.NET

ELECTRIC VEHICLE CHARGING STATION FOR USE WITH ELECTRIC VEHICLES
MODEL NUMBER: HCS-40
PART NUMBER: 0909-00-003
SERIAL NUMBER: HC1C161044633
CONFIGURATION: HCS-40-C13-L25-45

40A BRANCH CIRCUIT PROTECTOR
INPUT: 208-240 VAC, 50/60Hz, 120V TO GND
32AMPS CONTINUOUS
OUTPUT: 208-240 VAC, 50/60Hz, 120V TO GND
32AMPS CONTINUOUS
SHORT CIRCUIT RATING: 5000RMS SYMMETRICAL AMPS at 240VAC
SAE J1772 COMPLIANT / TYPE 4 ENCLOSURE
TEMPERATURE RATING: -30°C to +50°C

32A x 240v = 7,680vA

2023 required 7,200 vA

CLIPPERCREEK, INC
11850 KEMPER ROAD
AUBURN, CA 95603
WWW.CLIPPERCREEK.NET

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.8 Ground-Fault Circuit-Interrupter Protection for Personnel

Clarification made and rules for HVAC revised to expand ampere rating and reduce protection req.

2023 NEC, Art 210.8 Listed GFCI protection must be provided as required in 210.8(A) through (F). The GFCI device must be in a readily accessible location.

Ex: A GFCI device on a rooftop only needs to be readily accessible from the rooftop.

Is the receptacle in the ceiling READILY accessible?



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.8 Ground-Fault Circuit-Interrupter Protection for Personnel

Clarification made and rules for HVAC revised to expand ampere rating and reduce protection req.

Info Note 2: See UL943 for information about GFCIs marked “HF” or “HF+” that are used in applications with high frequency leakage currents from adjustable speed drives.

Dr. Charles Dalziel Study of Electrical Shock on a Subject...



Fig. 9. Determination of the maximum current a subject can tolerate and still let go of the energized conductor.

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

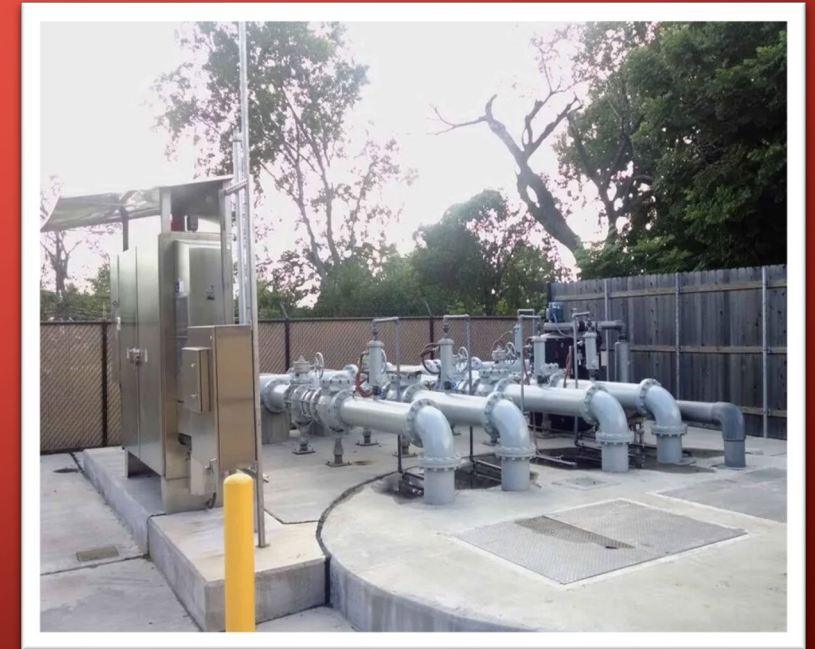
Article 210.8 Ground-Fault Circuit-Interrupter Protection for Personnel

Clarification made and rules for HVAC revised to expand ampere rating and reduce protection req.

HF is designed for adjustment of the no trip threshold was added to prevent nuisance tripping.

HF+ was designed to trip the must trip threshold was not added.

Where would we typically find adjustable speed drives for the city utilities?



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.8(A)(2) & (3) Garages and Accessory Buildings

Clarification made and rules for HVAC revised to expand ampere rating and reduce protection req.

All 125-250v receptacles supplied by a single-phase branch circuit rated 150v or less to ground must be GFCI protected if located in the following locations:

GFCI protection is required for receptacles in garages.

Areas of accessory buildings that are not intended as habitable spaces, and used as work areas, storage areas, or similar.

Where would we typically find adjustable load speed drives in a dwelling?



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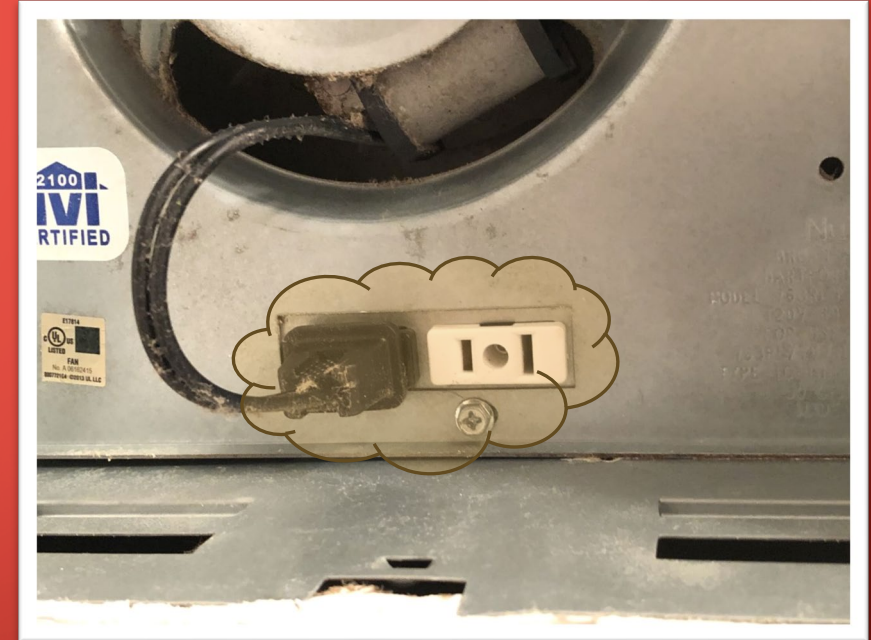
2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.8(A) Dwelling Units

Clarification made and rules for HVAC revised to expand ampere rating and reduce protection req.

Ex 4: Factory-installed receptacles that are an internal part of a bathroom an exhaust fan do not require GFCI protection unless required by the listing or instructions.

i.e. if its above a tub or shower it must be marked and GFCI protected.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

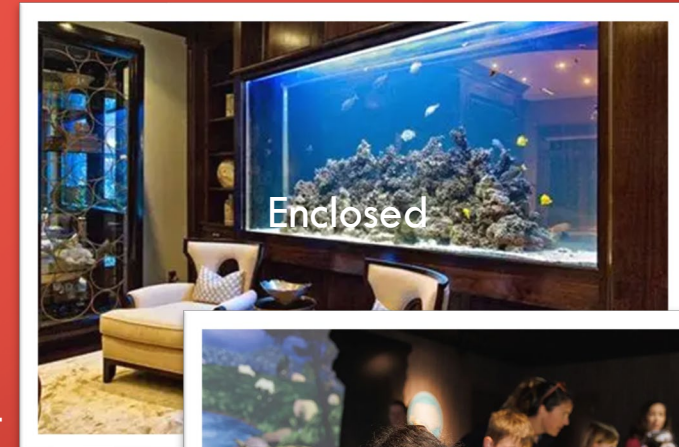
Article 210.8(B) Other Than Dwelling Unit

Clarification made and rules for HVAC revised to expand ampere rating and reduce protection req.

All 125-250v receptacles supplied by a single-phase branch circuit rated 150v or less to ground and 50A or less; and all receptacles supplied by 3-phase branch circuits rated 150v or less to ground and 100A or less must be GFCI protected if located in the following locations:

(14) Open aquatic containers or vessels such as aquariums, bait wells, and similar if the receptacle is within 6' of the top inside edge or rim or from any conductive surface supporting it.

Spot the difference...



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.8(F) Outdoor Outlets at Dwelling Units

Clarification made and rules for HVAC revised to expand ampere rating and reduce protection req.

Outdoor outlets at dwellings, including those in the following locations, must be GFCI protected if supplied by single-phase branch circuits rated 150v or to ground and **60A** or less.

September 1, 2026 NEC 210.8(F) Exception 2 is due to expire. Listed HVAC equipment supplied by an outlet covered by 210.8(F) will need an applicable GFCI or SPGFCI protection path in jurisdictions enforcing the 2026 NEC.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.8(F) Outdoor Outlets at Dwellings

Clarification made and rules for HVAC revised to expand ampere rating and reduce protection req.

GFCI protection is not required for snow-melting, deicing, or pipeline/vessel heating equipment.

See 426.28 for GFPE requirements.

- (1) Garages with a floor at or below grade level.
- (2) Accessory buildings
- (3) Boathouses.

If equipment in these locations is replaced, the outlet for the equipment must be GFCI-protected.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.8(F) Outdoor Outlets at Dwellings

Clarification made and rules for HVAC revised to expand ampere rating and reduce protection req.

Ex 3: Listed Class C SPGFCI is allowed for listed HVAC equipment. A warning label must be applied at disconnecting means stating “Warning: Class C SPFGFCI Protection Provided for HVAC Unit.”

Typical GFCI is class A that trip between 4 to 6mA
vs.
SPGFCI trips at 20mA.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52 Dwelling Unit Receptacle Outlets

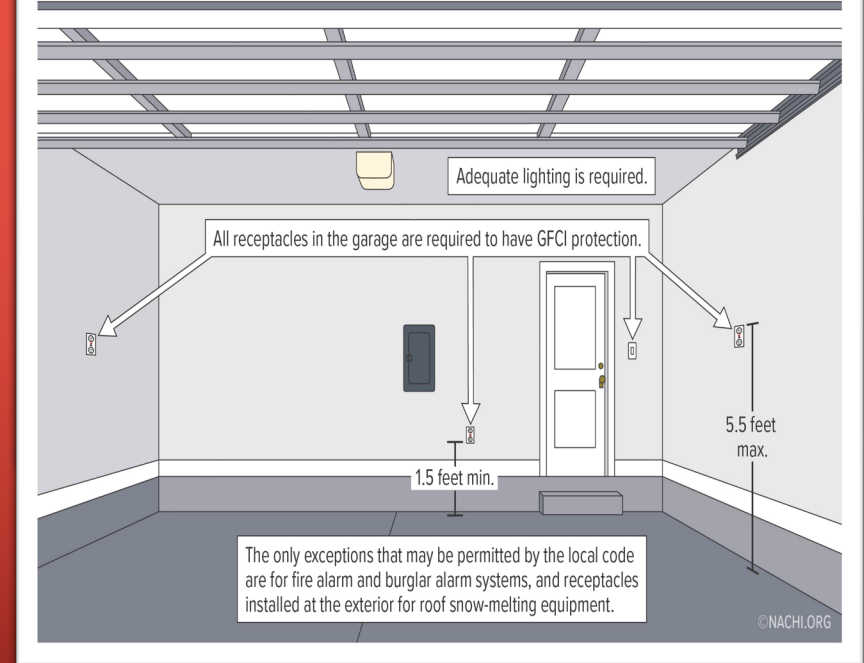
Cabinets without countertops or work surfaces was removed and receptacles located below kitchen countertops and/or work surfaces clarified.

Art 210.52 requires outlets in dwellings, in addition to any that are:

- (1) Part of a luminaire or appliance.
- (2) Controlled by a wall switch or a listed wall-mounted control device.
- (3) Located in cupboards or cabinets.
- (4) More than 5'6" above the floor.

Garage Receptacles

No fewer than one receptacle shall be installed in each vehicle bay. The receptacle shall be at least 18 inches (1.5 feet), and not more than 66 inches (5.5 feet) in height above the floor in attached garages, or in each vehicle bay in detached garages that are provided with electrical power, and in accessory buildings that are provided with electrical power.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52 Dwelling Unit Receptacle Outlets

Baseboard heaters with factory installed receptacles, or separate manufactured assemblies, count as required receptacles, but they may not be on the heater circuit.

Info Note: The instructions for listed baseboard heaters might not allow for receptacles above them.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52 Dwelling Unit Receptacle Outlets

Art 210.52(A) In every kitchen, family, dining, recreation, or living room; parlor, library, den, sunroom; bedroom or similar, receptacle outlets are required in accordance with 210.52(A)(1) through (A)(5).

Art 210.52(A)(1) Spacing Receptacle outlets must be installed so that no point, measured horizontally along the floor line, is more than 6' from a receptacle outlet.

Art 210.52(A)(2)(1) A wall space includes: (1) Any wall space 24" or wider and unbroken by doorways and similar, stationary appliances, fireplaces, or fixed cabinets ~~without a countertop or similar work surface.~~



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52 Dwelling Unit Receptacle Outlets

Art 210.52(A)(2)(2) A wall space includes: The space occupied by fixed panels in walls, other than sliding panels.

What we talking about?



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Squirrel



Is this a wall space?

2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52 Dwelling Unit Receptacle Outlets

Art 210.52(A)(2)(3) A wall space includes: The space created by fixed dividers, such as free-standing bars or open railings.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52(A)(5) Prohibited Locations

What about the receptacle in this location?

As the AHJ, I consider this area as wall space and will be requiring a receptacle in this location. It is not here to serve the kitchen countertop area.

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52(A)(5) Prohibited Locations

For receptacles installed at free-standing bars [210.52(A)(2)(3)], receptacles may not be below the countertop or work surface if they are within 24" of the countertop or work surface.

Art 210.52(C)(2) Islands and peninsulas: If a receptacle is installed to serve a countertop or work surface of an island or peninsula, it must comply with 210.52(C)(3) and (C)(4).



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52(C)(2) Islands and Peninsulas

If an outlet is not installed, **electrical** provisions to add one in the future must be provided at the island or peninsula.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52(C)(3) Location

Receptacle outlets must be in one of the following locations:

(1) On or up to 20" above the countertop or work surface.

(2) Receptacle outlet assemblies listed for use in countertops may be installed in countertop or work surface areas.

(3) Receptacle outlet assemblies listed for use in countertops or work surfaces may be installed in work surfaces.

...must be listed for countertop (32oz spill test) not work surface (8oz spill test).

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52(C)(3) Location

Receptacle outlets must be in one of the following locations:

Receptacles that are not readily accessible due to appliances fastened in place, appliance garages, sinks, or appliances occupying assigned space do not count as the receptacle outlets required by 210.52(C)(3).

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.52(C)(4) Prohibited Location

Receptacles, including non-required receptacles, that are accessible outside of a cabinet or wall surface and are below a countertop or work surface are not allowed in either of these locations:

(1) Not allowed on an adjacent wall within 24" from the cabinet.

(2) Not allowed within 24" of the countertop or work surface.

Ex: Receptacles in a drawer are allowed beneath a countertop or work surface.

24"

24"

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

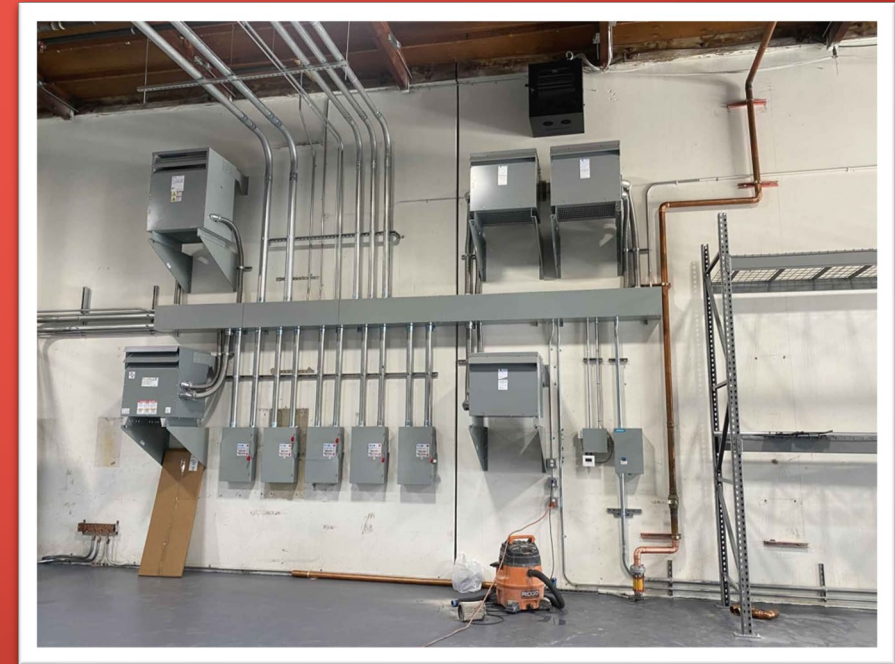
Article 210.63 Equipment Requiring Servicing

Receptacle requirement clarified.

A 15A or 20A, 125v receptacle outlet is required within 25' of the equipment specified in (A) and (B).

Art 210.63(B) Other Electrical Equipment: Within other than dwelling units, a receptacle outlet must be provided for wiring systems that include a solidly grounded system operating at less than 150v to ground.

The receptacle must be located in the same area as indoor panelboards, switchboards, switchgear, service equipment, and motor control centers.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 210.70 Required Lighting Outlets

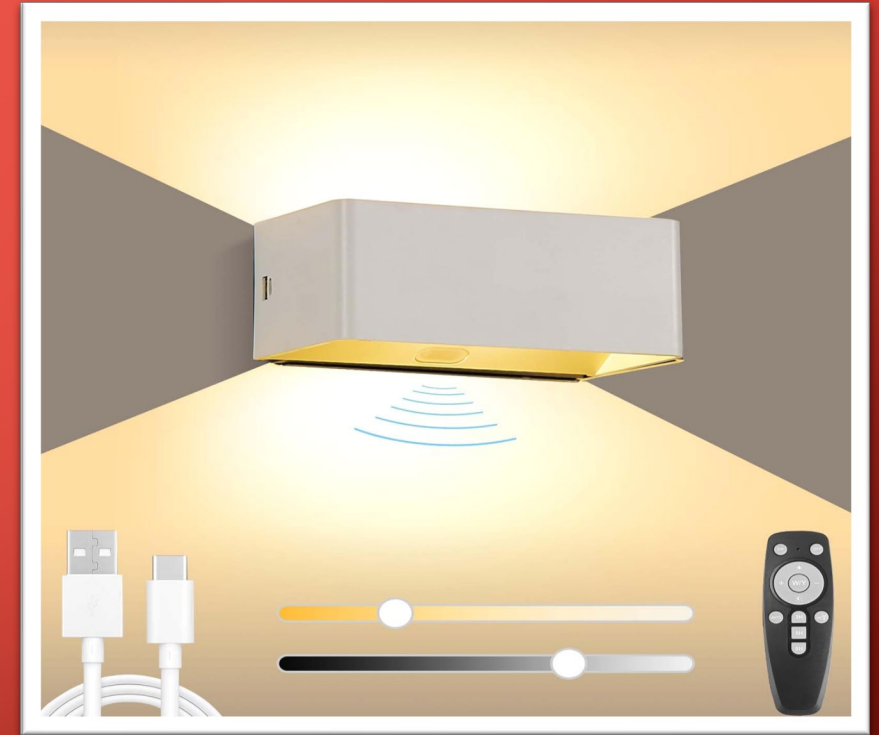
Laundry lighting clarified

Lighting outlets must be provided in accordance with 210.70(A)-(C).

210.70(A) In dwelling units, lighting outlets are required in accordance with 210.70(A)(1) and (A)(2).

210.70(A)(1) At least one lighting outlet controlled by a listed wall-mounted control device or switch must be provided in habitable rooms, kitchens, bathrooms, and laundry areas.

~~Switches or wall-mounted control devices must not rely on a battery unless loss of battery power energizes the lighting outlet.~~



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Art 210-70(A)(1) The control device or switch must be located near an entrance to the room.

Ex 1: In other than kitchens, laundry areas, and bathrooms, receptacles controlled by a listed wall-mounted device or switch are allowed instead of lighting outlets.

Ex 2: Occupancy sensors installed at a customary wall switch location may control the lighting outlets if they have a manual override setting.

Ex 3: For laundry areas, the illumination and its control may be located outside of the laundry area if the laundry equipment is in a closet.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 225.31 Building Disconnect Means
(Talking about feeders 230 is service disconnect)

The building disconnecting means no longer
required to be in or on the building.

Art 225.31(A) A disconnect is required for all
ungrounded conductors that enter a building. If the
building disconnect also serves as the emergency
disconnect for a dwelling, it must comply with
225.41.

Art 225.31(B) Location: The building or structure
disconnect must be readily accessible and, if inside
the building, located where the conductors enter the
building. The allowances of 230.6 may be used for
this application. If located outside the building, it
must be within sight of the building.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Hazards of an electrical inspection...



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Art 225.31(B) Location

Ex 1: If documented procedures exist, the installation is monitored by qualified persons, and is under single management, the disconnect may be elsewhere.

Ex 2: For installations that could have increased hazards if unexpected power loss occurs, the disconnect may be elsewhere.

Ex 3: Towers and poles for lighting may have their disconnecting means located elsewhere.

Ex 4: Poles and similar that support electric signs must comply with 600.6 for disconnecting means.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 230.67 Surge Protection

Locations added to 215.18 feeders and 230.67 services

Art 230.67(A) An SPD is required for services supplying:

- (1) Dwelling units,
- (2) Dormitories units,
- (3) Guest rooms and guest suites of hotels, motels, and dormitories,
- (4) Patient sleeping rooms of nursing homes and limited care facilities, and
- (5) Sleeping quarters of police, rescue, ranger, ambulance, or fire stations, and similar locations.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Art 230.67(B) The SPD must be part of the or adjacent to the service equipment.

Ex: An SPD is not required at the service if the service supplies only feeders and an SPD is provided at the load side of each feeder.



Not required here if the panelboard it serves has an SPD.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 230.70 General (Service Equipment)

One & two-family service must be outdoors and
230.85 emergency disconnect removed.

Art 230.67(A) An SPD is required for services
supplying:

A way to disconnect the ungrounded service
conductors from the building or structure must be
provided.

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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

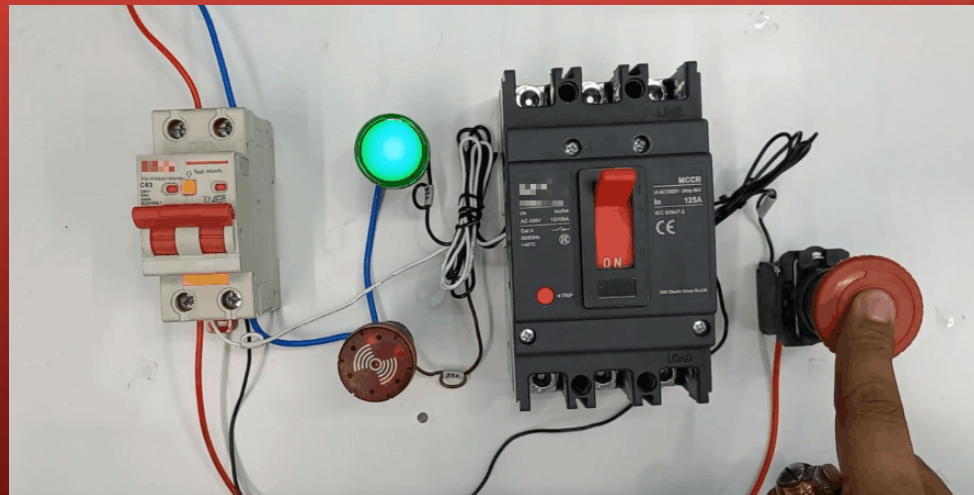
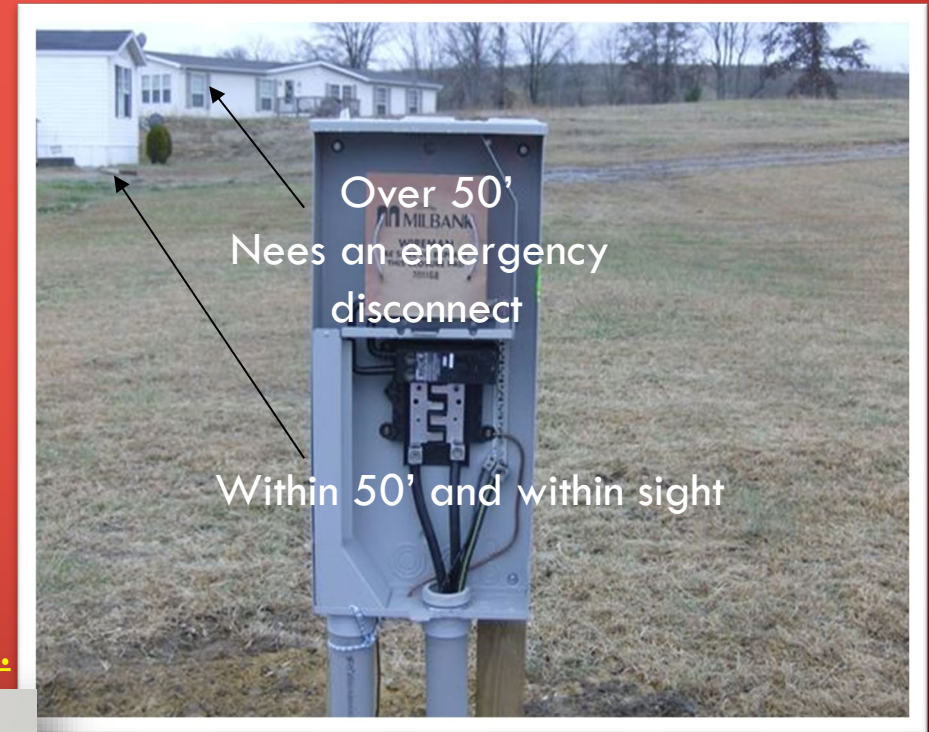
Art 230.70(A)(1) Dwelling Units: The service disconnect must be outdoors and readily accessible, and be located either

(1) On the dwelling unit, or

(2) Within sight of the dwelling unit.

Ex: The service disconnect does not need to be within sight if an emergency disconnect complying with 225.41 is installed.

Remote control devices are not service disconnects.



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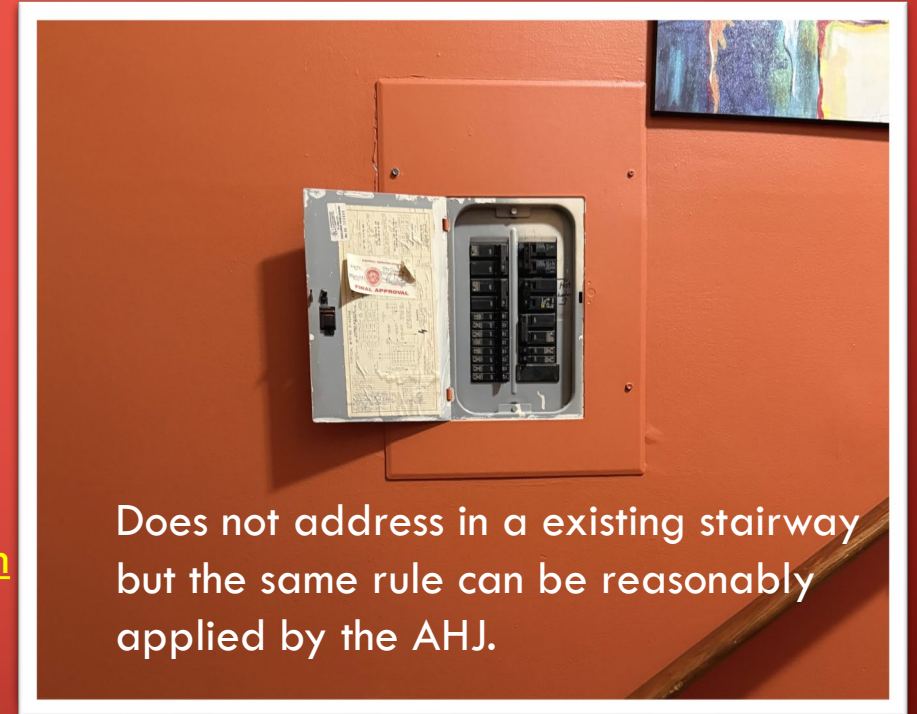
2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 240.24 Location in/on premises (OCPD)

Panelboard in existing bathrooms added.

Art 240.24(E) Not in bathrooms: Overcurrent protective devices (other than supplementary devices) are not allowed in bathrooms, showering facilities, or locker rooms.

Ex: Installing an OCPD in an existing panelboard in a bathroom is allowed if the panelboard was installed before this requirement was added.



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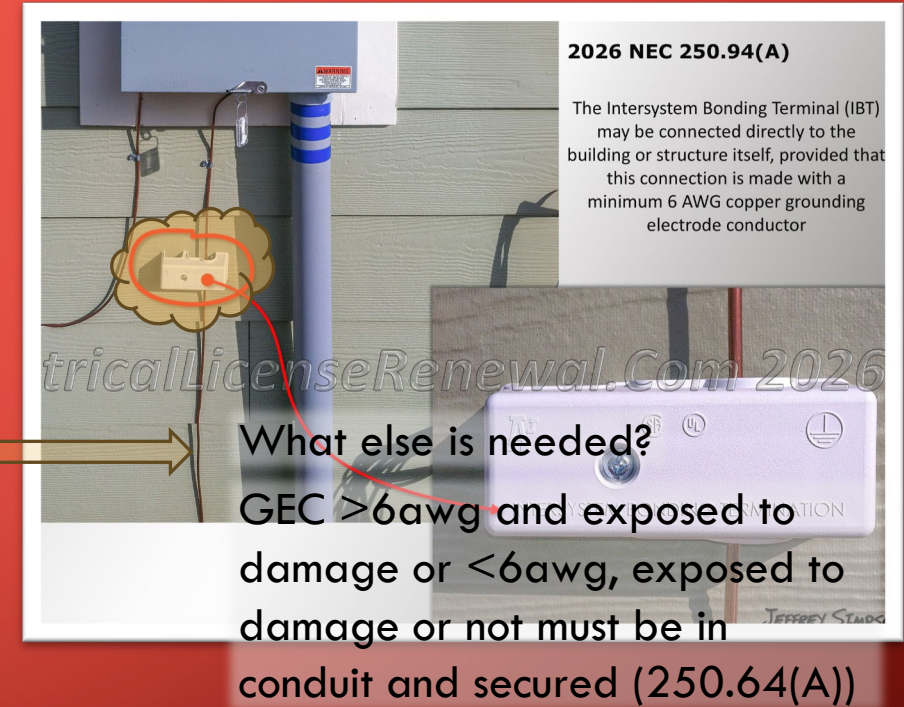
56

2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

Article 250.8 Grounding and Bonding Connections.

Section revised

Only methods indicated in 250.8(A) are allowed for connecting equipment grounding conductors, grounding electrode conductors, bonding jumpers, or grounding and bonding terminations.



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2026 NATIONAL ELECTRICAL CODE (NEC) CHANGES

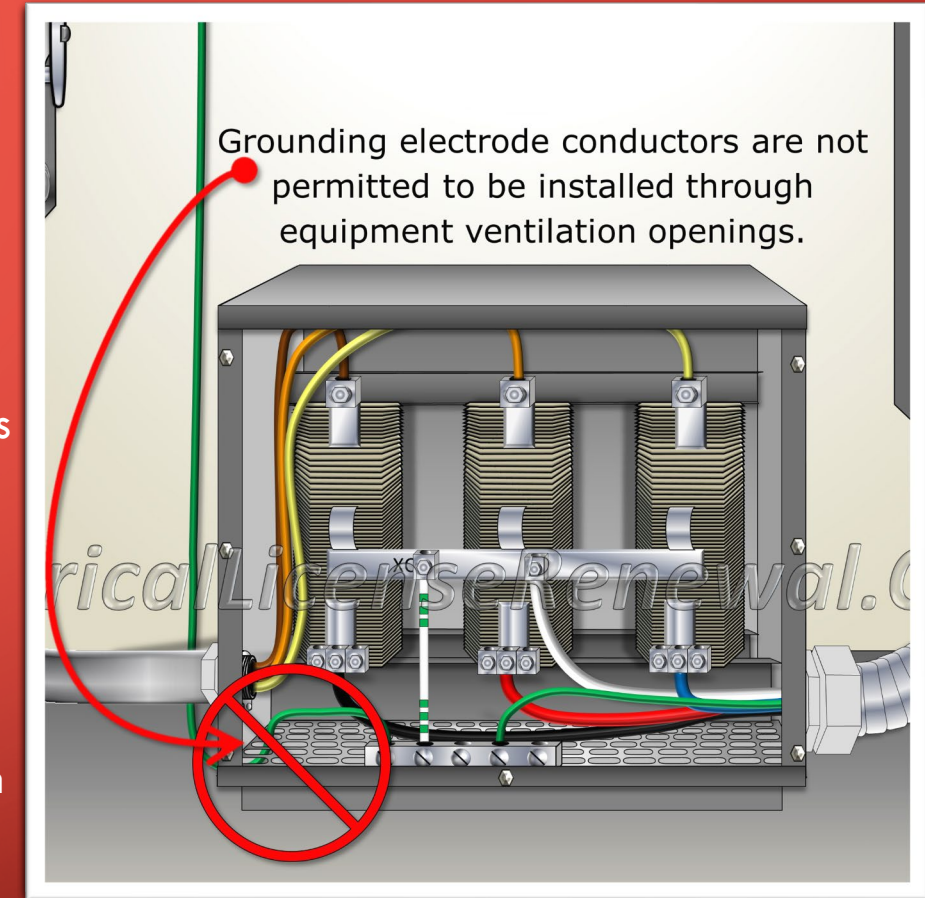
Article 250.64 Grounding Electrode Conductor Installation.

Splicing option added & enclosure holes addressed.

Art 260.64(C) The grounding electrode conductor is not allowed to be spliced, unless the splice is made with any of these methods:

(2) Listed grounding and bonding equipment for accessible splices of wire-type GECs.

Art 260.64(G) A GEC may not be installed through any ventilation, drainage, or mounting opening in an enclosure.



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Vapor In Summer and Winter

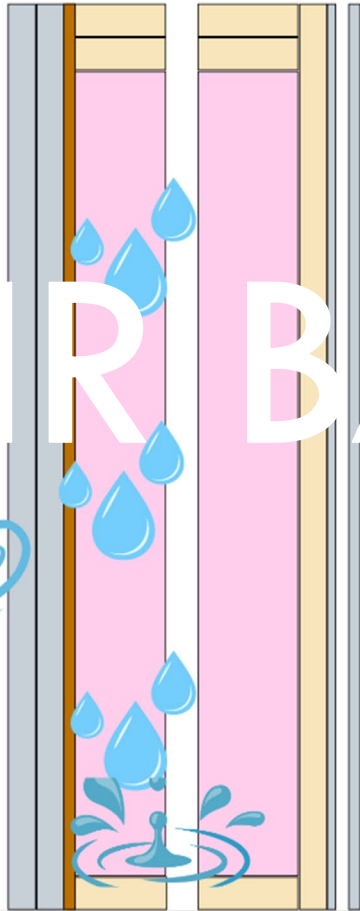
SUMMER



OUTSIDE



INSIDE

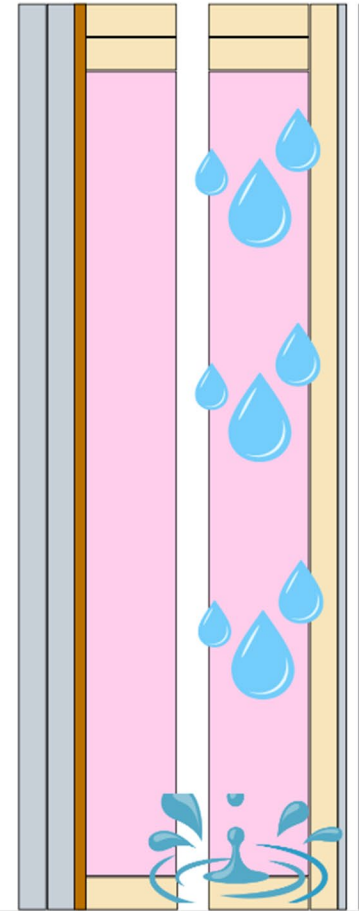


WINTER



OUTSIDE

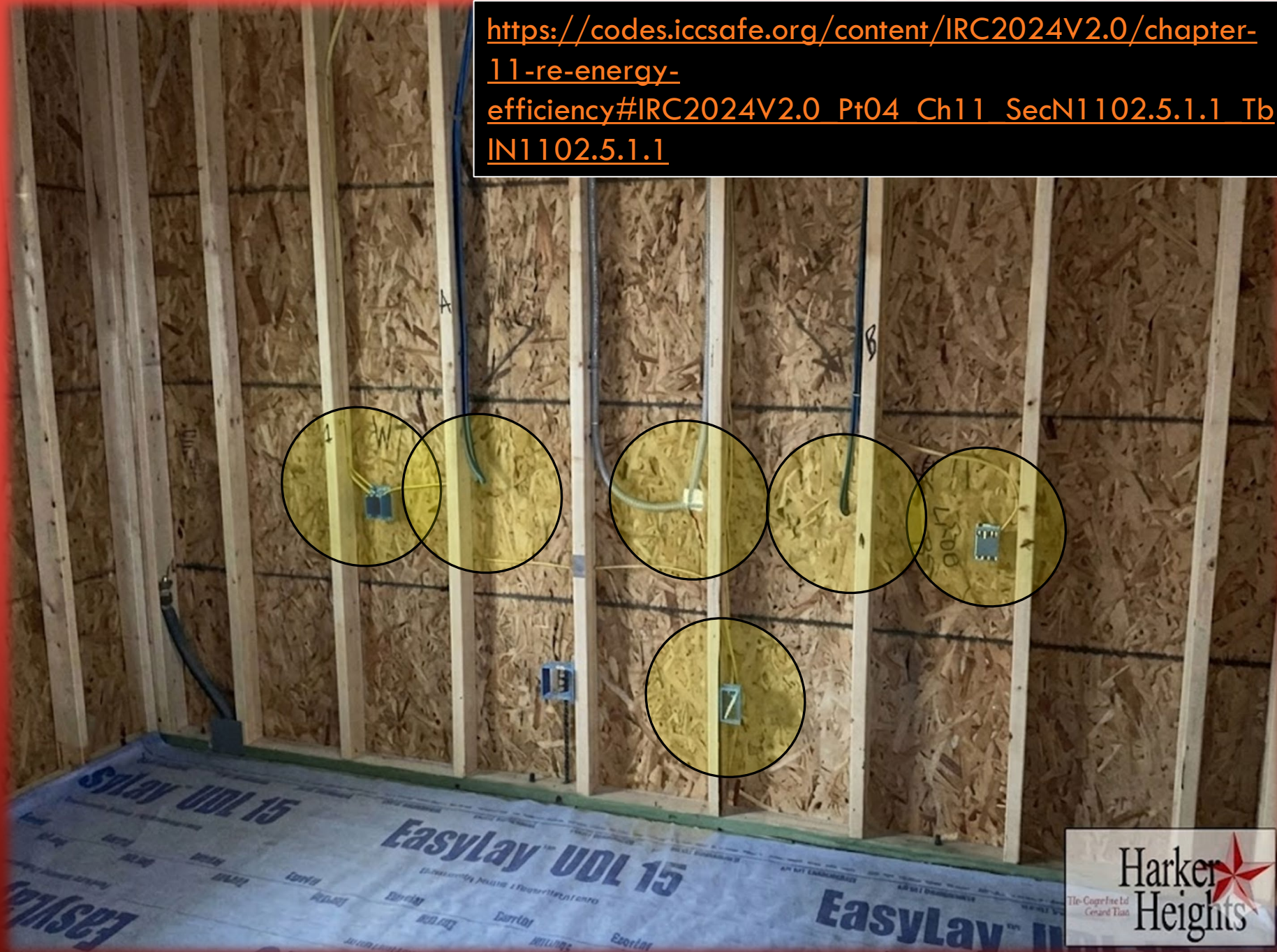
INSIDE



Mar 10, 2026 at 8:06:35 AM



<https://codes.iccsafe.org/content/IRC2024V2.0/chapter-11-re-energy-efficiency#IRC2024V2.0 Pt04 Ch11 SecN1102.5.1.1 Tb IN1102.5.1.1>

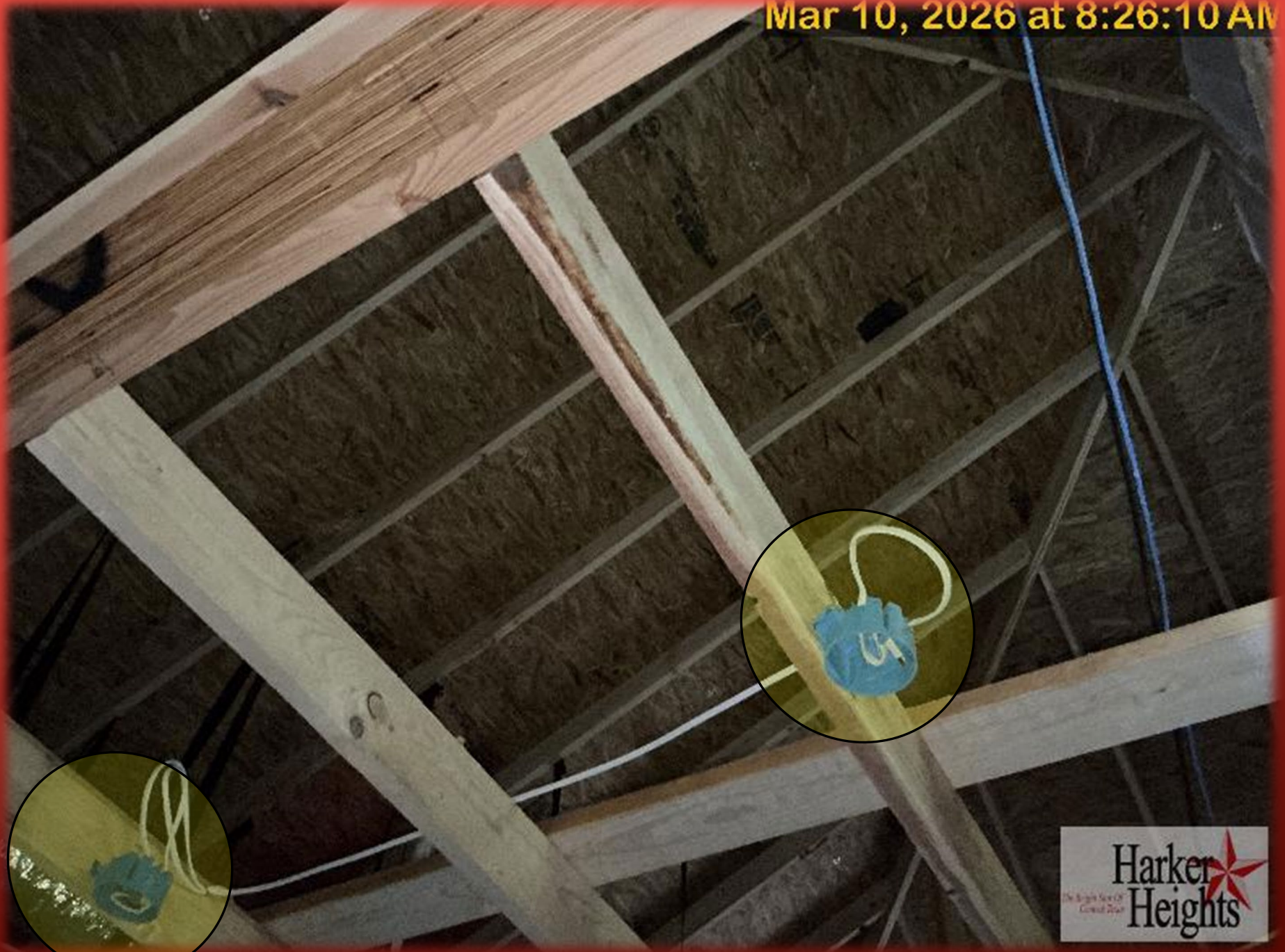


Mar 10, 2026 at 7:57:50 AM



Harker
The Bright Side Of
Central Texas
Heights

Mar 10, 2026 at 8:26:10 AM





2027 I-Codes

Title	2027 Target All Format Release Month
2027 International Private and Sewage Disposal Code	July 2026
2027 International Swimming Pool and Spa Code	July 2026
2027 International Property Maintenance Code	July 2026
2027 International Zoning Code	July 2026
2027 International Mechanical Code	August 2026
2027 International Plumbing Code	September 2026
2027 International Fuel Gas Code	September 2026
2027 International Fire Code	September 2026
2027 International Building Code	October 2026
2027 International Wildland Urban Interface Code	October 2026
2027 International Existing Building Code & Resource A	November 2026
2027 International Green Construction Code	January 2027
2027 International Residential Code	February 2027
2027 International Energy Code	February 2027
2027 ICC Performance Code	February 2027