Meeting Minutes: NEC 2026 Adoption Review Committee (Board of Electricity)

Date: Sept. 25, 2025
Time: 9:00 a.m.
Location: DLI, 443 Lafayette Road No., St. Paul, MN 55155 | WebEx | Phone

Committee members present

1. Sarah Gudmunson (Vice Chair)
2. Dean Hunter (CO's Designee)
3. Travis Thul - WebEx
4. Trevor Turek (Chair)

Committee members absent

- Jeff Heimerl
- Desiree Weigel (Secretary)

DLI staff & visitors

- Jeff Lebowski (Board Counsel)

DLI staff & visitors continued…

- Krystle Conley (DLI)
- Lyndy Logan (DLI)
- Daniel Becker (DLI) – WebEx
- Scott Higgins (DLI) – WebEx
- Mark Hunter (DLI)
- Ken McGurran (DLI)
- Erik Zercher (DLI) – WebEx
- Jess Duncan (WH Security)
- Nick Erickson (Housing First)
- David Fisch (MNESTA)
- Grace Greene (HFMN)
- Chad Kurdi (BKV Group) – WebEx

1. Call to Order – Committee Chair Turek

A. **Roll Call:** Committee Chair Turek called the meeting to order at 9:01 a.m. Vice Chair Gudmunson took the roll call, and a quorum was declared with 4 of 6 voting committee members present in person or remotely.

B. **Announcements/Introductions – Committee Chair Turek**

- Committee members:
  1. Sarah Gudmunson – Power Ltd. Technician/Tech Sys Contractor
  2. Jeff Heimerl – Journeyworker Electrician
  3. Dean Hunter – Commissioner's Designee
  4. Travis Thul – Registered Consulting Electrical Engineer
  5. Trevor Turek – Journeyworker Electrician
  6. Desiree Weigel – Electrical Inspector
- All handouts discussed and meeting information are posted on the Committee's website.
- Everyone present in person and via phone can hear all discussions.
- Public participation is welcome and encouraged.
- All votes will be taken by roll call if any Committee member is attending via phone.

C. WebEx instructions/procedures were explained.

2. Approval of Meeting Agenda

Hunter made a motion, seconded by Gudmunson, to approve the agenda as presented. The vote was unanimous, with 4 votes in favor of the motion; the motion carried**.**

3. Approval of Previous Meeting Minutes

None

4. Regular Business

A. **Expense Approval** – Expense reports will be forwarded to Financial Services for payment.

5. Special Business

A. **Committee review of the 2026 NEC – Dean Hunter**

- Free access to the NFPA 70: https://link.nfpa.org/free-access/publications/70/2026
- Purchase the NFPA 70: https://www.nfpa.org/product/nfpa-70-naional-electrical-code-
- nec/p0070code
- Dean Hunter said all Committee presentations are meant to be informational only to cover significant 2026 changes.
- Public participation/comments welcome – please submit to dli.electricity@state.mn.us
- Hunter provided a handout of changes – see **Attachment A**, and summarized the presentation titled **2026 NEC Review Committee**, as shown below.
- **Introduction & Process Overview**
  - Hunter explained the review process, including the use of checkboxes for committee concerns and cost analysis (CA).
  - Public members were encouraged to submit input to Lyndy Logan, Trevor Turek, or Dean Hunter.
  - A placeholder meeting was scheduled for **December 9, 2025**, to finalize recommendations for the January board meeting.
- **NEC Development Process**
  - The NEC follows a three-year cycle: public input → public comment → NITMAM/CAM → Standards Council.
  - The 2026 NEC was finalized, and the 2029 public input process will open by the end of September 2025.
  - Minnesota DLI submitted around 40 public inputs; many were accepted.
- **PowerPoint Source**
  - PowerPoint was developed by the **IAEI** (International Association of Electrical Inspectors).
  - It is not yet published or publicly available due to copyright and ongoing edits.
- **NEC Restructuring for 2029**
  - NEC will expand from **9 to 22+ chapters** in 2029.
  - Placeholder articles were added in 2026 to prepare for this shift.
  - Chapter 8 (communications) will lose its independence, and most of the requirements will be integrated into Chapter 7. Chapter 8 will only include outside communication installations entering buildings.
  - The new structure is previewed in **Annex L** of the 2026 NEC.
- **Article 90 – Code Arrangement**

- **90.3.** The 2026 edition is basically the same, except for the Chapter title changes, and the removal of the independence in Chapter 8.

- **Article 110 – General Requirements**
  - **110.3(B):** Manufacturer instructions cannot be less than the prescriptive NEC safety requirements.
  - **110.16 Arc Flash Labeling:** Now required for all non-dwelling units, regardless of amperage. Labels must include:
    - Nominal voltage
    - Arc flash boundary
    - Incident energy or PPE category
    - Date
  - **110.17:** Removed maintenance language to align with NFPA 70B.
  - **110.26:** Clarified door swing measurement must account for all positions, even if the door is removable when entering or leaving an area that requires working space.
  - **110.26(C)(2) Large Equipment:** Applies to **feeder equipment**, not just service equipment, when the accumulative amperage of side-by-side equipment is 1200 amps and greater and 6’ in width or wider.
- **Article 120 – Load Calculations**
  - Formerly Article 220; renumbered to 120.
  - Introduced **Power Control Systems (PCS)** and **Energy Management Systems (EMS)**.
  - **120.7** Listed PCS systems were introduced can control loads (e.g., EVSE) and can now be used to determine the size of a service or feeder.
  - **120.30** RV park calculations were relocated from Article 551, and healthcare facility calculations were revised.
- **Article 130 – Energy Management Systems**
  - New article split into: Part 1: EMS and Part 2: PCS
  - UL 916 applies to EMS; a new standard is being developed for PCS, UL 3141.
- **Article 200–210 – Wiring & Receptacles**
  - **200.7(A) Grounded Conductor ID:** Allowed single-stripe other than green when marking neutral or grounded conductors.
  - **Countertop vs. Work Surface:** Clarified definitions for receptacle listing requirements based on the UL spill test. The countertop definition includes beverage serving and preparation, whereas the Work Surface definition specifically does not apply to those locations.
  - **210.8 Class A GFCI & SPGFCI:** New classes (C, D, E) are defined; Class A reaffirmed for personal protection.
  - **Informational Note - High-Frequency (HF) Breakers:** Introduced to reduce nuisance tripping in equipment that changes frequencies other than the standard 60 Hz. These systems typically include high efficiency HVAC systems.
  - **210.8(F):** The amperage threshold has been increased from 50 amps to 60 amps for single-phase branch circuits rated 150 volts or less to ground. New Exception No. 3 permits a listed Class C SPGFCI protection for listed HVAC equipment.
  - **210.12 (E) AFCI Extensions:** When an existing branch circuit extension, modification, or alterations occur in a dwelling units, and AFCI protection is required, the revised section

allows the AFCI protection to be provided in the first switch of the branch circuit. Currently, the section only allowed the AFCI protection to be provided at the supply (breaker) or the first OBC receptacle device in the circuit.
    - **210.52(A) Receptacle Spacing:** (A)(2), list item (1) was revised to exclude any fixed cabinet from a wall space measurement. Previously, only fixed cabinets without countertops or similar work surfaces were excluded.
    - **210.52(A) New 24" Rule:** (A)(5) permits receptacle outlets to be installed on walls of cabinets supporting a countertop or work surface, provided the receptacle outlets are not installed less than 24 inches beneath the countertop.
    - **210.70(A) Laundry Lighting Exception:** Exception 3 was added to permit the lighting outlets to be located outside a laundry area, as long as it adequately illuminates the laundry equipment.
- **Article 225 – Outside Feeders**
    - **225.31(A)** Emergency disconnects for outside feeders must be within sight (≤50 ft).
    - If the emergency disconnect is located off the building or structure, a second disconnect is required at the nearest point of entry.
- **Article 230 – Services**
    - **230.70(A)(1)** One- and Two-Family Dwellings, requires that the service disconnecting means be installed in a readily accessible outdoor location either on the dwelling unit or within sight.
    - **230.70(D)** New labeling requirements for emergency disconnects:
        - "Emergency Disconnect" with red background and white text - ½" high.
        - Identification of other power sources (e.g., solar, generator) not located at the service/emergency disconnect must be listed on a plaque or directory to show their location.
    - **230.46 Supply-Side Taps or Connections:** A new informational note states that an industry identification marking "SVC" is considered equivalent to "suitable for use on the line side of service equipment."
    - **230.68 Fire Pump Exception:** A new exception was added for meter sockets in fire pump applications to only be sized to the circuit ampere rating and not the current rating of the fire pump service.
- **Article 240 – Overcurrent Protection**
    - **240.24(E)** An exception was added to clarify that it is permissible to add OCPDs to an existing panelboard in a bathroom, provided the panelboard was installed in compliance with previous editions of the NEC.
- **Article 250 – Grounding & Bonding**
    - **250.53(A)(4) Ground Rods:** The section has been revised to specify that a rod or pipe electrode should initially be driven vertically to a depth of 8 feet unless not feasible; the NEC clarified order of installation options.
    - **250.64(C) GEC Splicing:** The requirement has been revised to allow the splicing of grounding electrode conductors with listed grounding and bonding equipment when accessible.

- **250.64(E)(1) Bonding Ferrous Raceways and Cable Armor:** Cable armor has been added to the language to clarify that the bonding requirement for ferrous cable armor. Like raceways and conduits, bonding is required at both ends of the armor.
- **250.64(G) Panel Drainage Holes:** Prohibited use of Grounding Electrode Conductor (GEC) routing.
- **250.102(A) Supply-Side Bonding Jumpers:** The revision now permits a bonding jumper to be a wire, bus, screw, non-flexible metal raceway and fittings, or similar suitable conductor.

The Committee recessed from 10:30 a.m. to 10:45 a.m.

- **Article 265 – Medium Voltage Branch Circuits**
  - **265.19** Addressed conductor sizing and ampacity for **supervised industrial installations** over 1,000V AC or 1500V DC systems. Conductor sizing and ampacity for supervised installations are permitted to be determined by engineering supervision or an individual qualified with documented training experience on systems over 1000 V. Additionally, the MV installation must have ongoing maintenance and monitoring.
  - Similar wording was added in other articles to define what constitutes a **supervised installation**.
  - In the 2026 NEC, many additional Medium Voltage articles were added to accommodate the new **Chapter 3** in the 2029 NEC structure.
- **Article 300 – Wiring Methods**
  - **300.6(E).** Removed the reference to "metal-corrugated" roof decking, so the minimum spacing requirements now apply to all roof decking. Additionally, a new exception was added for wiring methods encased in at least 2 inches of concrete.
  - **300.7(D):** Warning ribbon now required above both service conductors that are direct-buried cables and installed in raceways.
  - **300.11:** Indoor raceways in wet locations must allow for drainage.
  - **300.13(E) Cable Ties:** Now defined and permitted for securing/supporting wiring methods when listed for the application and environment.
  - **300.24 360° Bend Limit:** Applied across all conduit systems, even when transitioning between raceway types.
- **Article 310 – Conductors**
  - **310.5(A) Copper-Clad Aluminum:** Now recognized and added to ampacity tables.
  - **310.15(E) Neutral Conductor Clarification:** The section has been reformatted into a clear list to define when a neutral is considered current carrying.
- **Article 330 Metal-Clad Cable Type MC**
  - **330.30(A)** Cable cleats were added as an approved method for supporting or securing Type MC cable.
- **Article 334 – Nonmetallic-Sheathed Cable (Types NM, NMC, NMS)**
  - **334.10(3)** An exception has been added to permit nonhabitable grade-level storage garages and storage buildings less than 1500 square feet to use NM cable without the 15-minute thermal barrier.
- **Article 342 – Intermediate Metal Conduit (IMC)**

- **342.29** A new section identifies the requirements for the use of paired locknuts to maintain electrical and mechanical continuity.

- **Article 392 – Cable Trays**
  - 392.18(F) Adds a requirement for a minimum access space of 12 inches above a cable tray with 4-exceptions.
- **Article 404–406 – Switches & Wiring Devices**
  - **Article 406 Renamed:** Now titled "Wiring Devices" to include snap switches, dimmers and electronic control devices.
  - **406.12(D)(3) GFCI Replacement Exception:** Rewritten to allow more flexibility when upstream protection is not feasible.
  - **406.14(G) Face-Up Receptacles:** Prohibited in laundry areas (e.g., dryer outlets mounted face-up on/in the floor).
  - **406.26 Tamper-Resistant Receptacles:** Required in parks and recreational areas. Plus, a new Informational Note No. 4 was added to inform readers that this new requirement can include garden areas, play areas, and similar locations.
- **Article 408 – Panelboard Labeling**
  - **408.10(F)** Labels must now be placed on the **front of the enclosure** (not inside).
- **Article 422 – Appliances**
  - **422.12 Furnace Circuits:** Exception was broadened to allow "same or similar" equipment on dedicated furnace circuits.
- **Article 426 – Conductive Pavement Heating**
  - New Part 6 added for conductive pavement heating systems.
  - Limited to 30V RMS or 60V DC.
  - Intended for snow/ice melt applications.
- **Article 430–440 – Motors & HVAC**
  - **The article addresses BE and CE Motors:** New motor types added (Brushless Excitation and Capacitor Excitation).
  - **430.98(A) Motor Control Centers:** An MCC supplied by a feeder must be marked with the location of the means necessary to disconnect all power to the MCC.
  - **440.11 HVAC Disconnects:** Requires that doors or covers that expose energized parts to be locked or require a tool to be opened.
  - **440.15 Mini-Split Systems:** Marking requirements to identify the location of all indoor units supplied by the exterior disconnect of a split-system HVAC system in other than one- and two-family dwellings.
- **Article 480 – Stationary Batteries**
  - **480.1 Scope:** Standby was deleted, so the article now applies to all stationary batteries, not just standby.
  - **480.14 Overcharge Control:** Requirement mandates overcharge prevention for all stationary batteries to prevent fires, thermal runaway, and equipment failure.
- **Article 495 – Medium Voltage Equipment**
  - 495.2 Listing Requirements Introduced:
    - ≤15kV: Required by Jan 1, 2029
    - 15kV–52kV: Required by Jan 1, 2032

- The dates were delayed due to the lack of current testing infrastructure.

- **Article 500 – 501 Hazardous Locations**
  - **500.8(G) Optical Radiation:** Lasers outside hazardous areas that extend into classified zones must be evaluated for the area.
  - **500.30 Bonding Clarification:** Relocates all the bonding requirements into one location. A TIA was issued to address that bonding must extend all the way back to the service or source.
  - **501.10 New Tables:** Tables were added to consolidate the wiring methods permitted for use in Class I, Division 1 and 2 Locations.
- **Article 512 – Cannabis Extraction**
  - **512.6 Prohibited Locations:** Cannabis extraction is not allowed in schools, daycares, or similar facilities.
  - Based on NFPA 1; driven by flammable chemical risks.
- **Article 513 – Aircraft Hangars**
  - **513.8 Ground Classification Removed:** The ground beneath hangars is no longer considered Class I, Div 1.
  - This change aligns with the requirements in Section 514.8 regarding underground wiring at motor fuel dispensing facilities.
- **Article 514 – Fuel Dispensing**
  - **514.11(A) Emergency Disconnects:** The emergency electrical disconnect must disconnect any receptacles over or adjacent to the dispenser in the event of an incident (e.g. fuel leak or spill) to prevent electrical equipment from being an ignition source.
- **Article 517 – Healthcare Facilities**
  - **517.4 Microgrids:** Now allowed as the primary power source. Capacity sizing can be based on historical data or connected load.
  - **517.20 Wet Procedure Areas:** A receptacle individually protected by a single GFCI device — a separate GFCI device protecting each receptacle.
  - **517.26 Article 700 Removed:** Emergency system requirements are now fully integrated into 517.
- **Article 525 – Carnivals, Circuses, and Fairs**
  - Rewritten for clarity and enforcement.
  - **525.31** Addressed inverter generators and grounding issues.
- **Article 545 – Manufactured Buildings and Relocatable Structures**
  - **545.22(D)** Reference to Article 250 Part III was removed because a relocatable structure is supplied by a feeder and does not require an additional grounding electrode system. A relocatable structure should be treated similarly to a mobile or manufactured home without a permanent foundation.
- **Article 547 – Agricultural Buildings**
  - 547.44 Equipotential Planes (EP) :
    - 547.44 (C) added construction requirements for the equipotential plane in confinement areas with concrete floors and accessible metal equipment. Previously, the NEC only had a reference to the EP construction through an informational note.
    - The EP construction applies to indoor and outdoor installations.

- 547.44 Bonding Requirements:
  - New language in an informational note adds clarity to what is determined to be potential sources that may require an EP.
  - It was determined that an equipment grounding conductor (e.g., #12) may not be sufficient due to voltage drop concerns, and a #8 AWG would be required.
- **Construction Methods:** Rebar, welded wire mesh, or copper grid (12" x 12") must be used for the EP.

6. Announcements

At the next meeting, Hunter will resume his presentation, beginning at slide 156, Section 550.51(A).

- October 14 | 9:00 AM – 12:00 PM: Board of Electricity – Regular Meeting – due to a light agenda, the NEC Committee will continue its review under Special Business.
- October 28 | 9:00 AM – 12:00 PM: NEC Committee – Cost Analysis Review & Wrap-Up
- December 9 | 9:00 AM – 12:00 PM: NEC Committee – Placeholder Meeting – scheduled only if additional discussion is needed.

7. Adjournment

A motion was made by Gudmunson, seconded by Thul, to adjourn the meeting at 11:55 a.m. The roll call vote was unanimous, with 4 votes in favor of the motion; the motion carried.

Respectfully submitted,

Desiree Weigel

Desiree Weigel, Secretary

Green meeting practices

The State of Minnesota is committed to minimizing environmental impacts by following green meeting practices. DLI is minimizing the environmental impact of its events by following green meeting practices. DLI encourages you to use electronic copies of handouts or to print them on 100% post-consumer processed chlorine-free paper, double-sided.

Summary of Significant 2026 NEC® Changes

NEC 2026 Adoption Review Committee

Line No.	NEC Code Section	Change Title	Change Summary
1	Global	Preparing the NEC for 2029 reformatting	In preparation for the reformatting of the 2029 edition, structural changes were implemented during the 2026 code cycle. The proposed 2029 NEC structure will be located in Annex L of the 2026 NEC.
2	Global	Limited-Energy Summary	The independence of Chapter 8, Communications Systems, has now been removed. Chapter 7 (Art. 720-760) now provides the main installation requirements for all Limited-Energy Systems, including Communications
3	90.3	90.3 Code Arrangement	Chapter 5 Specific Occupancies and Locations (previously Special Occupancies). Chapter 6 Specific Equipment (previously Special Equipment). Chapter 7 Specific Conditions and Systems (previously Special Conditions). Chapter 8 Communication Systems – Outside and Entering Buildings (previously just Communication Systems)
4	110.3(B)	110.3 Examination, Identification, Installation, Use, and Listing (Product Certification) of Equipment, (B) Installation and Use.	A sentence was added to specify that instructions must result in an installation and use that complies with the NEC.
5	110.16	110.16 Arc-Flash Hazard Marking	The generic warning requirement and reference to 1000 amps were removed. Labels must now include: nominal voltage, arc flash boundary, available incident energy or arc flash boundary, date of assessment.
6	110.17	110.17 Servicing of Equipment	Title change removes “and maintenance” to reflect NEC’s exclusive scope over installation-related servicing.

Line No.	NEC Code Section	Change Title	Change Summary
7	110.26	110.26 Spaces About Electrical Equipment	Equipment doors must be considered for potential obstructions to access or egress, ensuring safety; regardless of the door's position, whether it can be removed, or opens more than 90 degrees.
8	110.26(C)(2)	110.26 Spaces About Electrical Equipment, (C)(2) Large Equipment.	The requirement was broadened to cover feeder disconnects installed according to 225.33(A). Previously it only applied to service disconnects.
9	120.7	120.7 Power Control System (PCS).	The energy management system (EMS) has now been renamed Power Control Systems (PCS). Reflects progress in automated systems for managing loads and preventing overloads.
10	120.130 and 120.140	120 Branch-Circuit, Feeder, and Service Load Calculations. Part VIII and Part IX.	Calculations for RV parks and Mobile and Manufactured Home Parks were relocated to Article 120 - Parts VIII, and IX.
11	130.50, 60, 70 and .80	130 Energy Management Systems - Part II, Power Control Systems (PCS)	The New Part II for an Energy Management System used for overload control includes additional requirements for EMS that provide controls necessary to prevent overloading of conductors and equipment through the use of a PCS. The content from Article 750, Special Conditions, concerning the installation and operation of energy management systems was relocated to Article 130 to apply generally.
12	200.7(A)(9)	200.7 Means of Identifying Grounded Conductors	A new list item 9 was added to allow a single stripe, other than green, for identifying the grounded conductor.
13	Counter (Countertop)	Article 100 Definitions	The definition of “Countertop” has been revised to include beverage preparation or beverage serving.
14	Work Surface	Article 100 Definitions	The definition of “Work Surface” was revised to claify that a work

Line No.	NEC Code Section	Change Title	Change Summary
			surface is intended for dry use and tasks other than food or beverage preparation or serving.
15	Ground-Fault Circuit Interrupter, (GFCI), (Class A GFCI)	Article 100 Definitions	Class A was added as an alternate term (NEC Style Manual Section 2.1.2.8) to align with three new defined terms for Class C, D, and E Special Purpose GFCI (SPGFCI).
16	210.8	210.8 Ground-Fault Circuit-Interrupter Protection for Personnel	New informational note was added to recognize that Class A GFCIs marked HF and HF+ provide an option to address high-frequency ground-fault currents for interoperability concerns.
17	210.8(F)	210.8 Ground-Fault Circuit-Interrupter Protection for Personnel, (F) Outdoor Outlets	The amperage threshold has been increased from 50 amps to 60 amps for single-phase branch circuits rated 150 volts or less to ground. New Exception No. 3 permits a listed Class C SPGFCI protection for listed HVAC equipment. No expiration date was given.
18	210.12(E)	210.12 Arc-Fault Circuit-Interrupter Protection, (E) Branch Circuit Wiring Extensions, Modification, or Replacements	A listed OBCAFCI can now be located at the first receptacle outlet or switch of the existing branch circuit.
19	210.52(A)(2)	210.52 Dwelling Unit Receptacle Outlets, (A) General Provisions.	In Subdivision (A)(2), Wall Space, list item (1) was revised to exclude any fixed cabinet from a wall space measurement. Previously, only fixed cabinets without countertops or similar work surfaces were excluded.
20	210.52(A)(5)	210.52 Dwelling Unit Receptacle Outlets, (A) General Provisions.	Subdivision (A)(5), Receptacle Outlet Locations Prohibited, permits receptacle outlets to be installed on walls of cabinets supporting a countertop or work surface, provided the receptacle outlets are not installed less than 24 inches beneath the countertop.

Line No.	NEC Code Section	Change Title	Change Summary
21	210.52(C)(4)	210.52 Dwelling Unit Receptacle Outlets, (C) Countertops and Work Surfaces.	Section 210.52(C)(4) is new and addresses the locations that are prohibited for receptacle outlets.
22	210.63	210.63 Equipment Requiring Servicing, (B) Other Electrical Equipment.	The requirement that the receptacle not be located on the load side of the disconnecting means was removed to address a conflict when the disconnect was located in a separate structure or building.
23	210.70(A)(1)	210.70 Lighting Outlets Required, (A) Dwelling Units, (1) Habitable Rooms, Kitchens, Laundry Rooms, and Bathrooms.	Exception 3 was added to permit the lighting outlet to be located outside a laundry area in order to adequately illuminate the area where a closet houses the laundry equipment.
24	225.31(A)	225.31 Disconnecting Means, (A) General.	The changes clarify that a single disconnect can meet the requirements of both 225.31 and 225.41.
25	225.31(B)	225.31 Disconnecting Means, (B) General.	Text was added to specify that when the disconnecting means is located outside the building, it must be placed in a readily accessible location on or within sight of the building, as required by 110.29. If the disconnect is within sight and not on the building, the next disconnect or distribution equipment could be anywhere inside the structure.
26	230.46	230.46 Spliced and Tapped Conductors	A new informational note states that an industry identification marking “SVC” is considered equivalent to “suitable for use on the line side of service equipment.”
27	230.68	230.68 Meter Sockets	A new exception was added for meter sockets in fire pump applications to only be sized to the circuit ampere rating and not the current rating of the fire pump service.

Line No.	NEC Code Section	Change Title	Change Summary
28	230.70(A)(1)	230.70(A) Service Disconnect Location	Section 230.70(A)(1), One- and Two-Family Dwellings, requires that the service disconnecting means be installed in a readily accessible outdoor location either on the dwelling unit or within sight.
29	230.70(D)	230.70(D) Identification of Other Source Disconnects	Previously, this applied only to emergency disconnects. Now, all sources not located at the service disconnect must be listed on a plaque or directory to show their location.
30	230.82	230.82 Equipment Connected to the Supply Side of the Service Disconnect	The list was reorganized into a more logical order by grouping similar items together. Some list items are equipment, while others are systems.
31	240.24(E)	240.24 Location in or on Premises, (E) Not Located in Bathrooms.	An exception was added to clarify that it is permissible to add OCPDs to an existing panelboard in a bathroom, provided the panelboard was installed in compliance with previous editions of the NEC.
32	250.53(A)(4)	250.53(A)(4) Rod and Pipe Electrodes	The section has been revised to specify that a rod or pipe electrode should initially be driven vertically to a depth of 8 feet.
33	250.64(C)	250.64 Grounding Electrode Conductor Installation, (C) Continuous.	The requirement has been revised to allow the splicing of grounding electrode conductors with listed grounding and bonding equipment.
34	250.64(E)(1)	250.64(E)(1) Raceways, Cable Armor, and Enclosures for Grounding Electrode Conductors	Cable armor has been added to clarify that the bonding requirement for ferrous cable armor applies to both ends of the armor.
35	250.64(G)	250.64 Grounding Electrode Conductor Installation, (G) Enclosures with Ventilation, Mounting, or Drainage Openings.	Mounting and drainage openings are not intended for the installation of a grounding electrode conductor.

Line No.	NEC Code Section	Change Title	Change Summary
36	250.102(A)	250.102 Grounded Conductor, Bonding Conductors, and Jumpers, (A) Material.	Non-flexible metal raceway and fittings were added as a permissible bonding jumper type to coordinate with 250.30(A)(2).
37	265.19(B)	265.19 Conductors – Minimum Ampacity and Size, (B) Supervised Installations.	Conductor sizing for supervised installations shall be permitted to be determined by qualified persons under engineering supervision. This wording is similar to the wording in 266.4(C), 267.39(C), 268.23 (C), 268.31, 268.42, 270.5.
38	300.4(C)	300.4(C) Damaged Conductors and Wiring Methods	Text has been added to require that conductors and wiring methods that are no longer “suitable for use” must be replaced. Damaged cables could include cables that have been exposed to overheating, fire, water, or subjected to corrosive influences.
39	300.6(C)	300.6 Protection Against Physical Damage, (E) Wiring Methods and Materials in or Under Roof Decking.	Removed the specific reference to “metal-corrugated” roof decking, the minimum spacing requirements now apply to all roof decking, and all wiring methods. A new exception was added for wiring methods and materials encased in at least 2 inches of concrete in concealed locations.
40	300.7(D)(3)	300.7 Underground Installations, (D) Protection from Damage.	The new revision states that a warning ribbon must be placed over underground service raceways as well as direct buried service conductors.
41	300.11(B)	300.11 Raceways in Wet Locations Above Grade, (B) Drainage.	Revisions have been added to specify that raceways installed in indoor wet locations must include drainage.
42	300.13(E)	300.13 Securing and Supporting, (E) Securing and Supporting	A new subdivision and informational note in 300.13(E) were added to utilize this new term and are essential for the proper installation of cable ties. Cable ties and cable tie fixing devices must be listed and

Line No.	NEC Code Section	Change Title	Change Summary
			identified for securement and support purposes.
43	300.24	300.24 Bends	This new section clarifies that the 360-degree bend limitation between pull points applies even if you transition to another type of raceway.
44	310.5	310.5 Conductors, (A) Minimum Size of Conductors.	The minimum sizes of the conductor ratings are now 16 AWG copper, 14 AWG copper-clad aluminum, or 12 AWG aluminum.
45	310.15(E)	310.15 Ampacity Tables, (E) Neutral Conductor.	A new list format will clearly identify when a neutral is considered as a current-carrying conductor as opposed to a non-current-carrying conductor.
46	330.30	Type MC cable, 330.30 Securing and Supporting	Cable cleats were added as an approved method for supporting or securing Type MC cable.
47	334.10(3)	Type NM cable, 334.10(3) Uses Permitted	An exception has been added to permit nonhabitable grade-level storage garages and storage buildings less than 1500 square feet to use NM cable without the 15-minute thermal barrier.
48	342.19	IMC, 342.29 Paired Locknuts	The requirement now states that locknuts must be installed on both the inside and outside of the enclosure.
49	392.18	392.18 Cable Tray Installation, (F) Access	This revision adds a requirement for a minimum access space of 12 inches above a cable tray. There are 4 conditions that are new exceptions to forgo the requirement.
50	404.1	404 Switches, Scope	The requirements for wiring device type switches (e.g., single pole, 3-way, 4-way snap switches) have been moved to Article 406.

Line No.	NEC Code Section	Change Title	Change Summary
51	406.1	406 Wiring Devices, Part III	The article was expanded and restructured to include the requirements for wiring device-type switches, as formally found in Article 404.
52	406.12(D)(3)	406.12(D)(3) Ground-Fault Circuit-Interrupter Protection	This revision will allow the installer to consider other options when applying the exception to forgo providing GFCI protection:
53	406.4(G)	406.14(G) Receptacle Orientation	A new List Item 3 was added to exclude receptacles from being mounted in the face-up position in laundry areas.
54	406.26(11)	406.26 Tamper-Resistant Receptacles	The requirements for listed tamper-resistant receptacles have been expanded to include a new List Item (11) Park and recreation areas.
55	408.10(F)	408.10(F) Switchboard, Switchgear, or Panelboard Identification	A requirement was added to locate caution signs and labels in a readily accessible location on the front of the enclosure
56	422.12	422.12 Central Heating Equipment	Exception No. 2 was added to permit the servicing receptacles required by 210.63(A) and the lighting outlets for areas where equipment will be serviced required by 210.70(C) to be supplied from the circuit supplying the equipment
57	426, Part VI	426 Fixed Outdoor Electric Deicing and Snow-Melting Equipment, Part VI Conductive Pavement Heating System.	Part VI was added to specify the requirements for conductive pavement heating systems.
58	430	430 Motors, Motor Circuits, and Controllers	BE and CE motors have been included throughout Article 430 due to their energy-efficient design. The motors, typically, have higher locked rotor currents.
59	430.98(A)	430.98(A) Motor Control Centers	The section clarifies that an MCC supplied by a feeder must be marked with the location of the

Line No.	NEC Code Section	Change Title	Change Summary
			means necessary to disconnect all power to the MCC.
60	440.11	440.11 General, Disconnecting means.	The revision requires doors or covers that expose energized parts to be locked or require a tool to be opened.
61	440.15	440.15 Split-System Disconnect Identification	A new section was created for marking requirements to identify the location of all indoor units supplied by the exterior disconnect of a split-system HVAC system in other than one- and two-family dwellings.
62	480.1	480 Stationary Batteries	Informational Note 1 clarifies that Article 480 will apply to all stationary battery installations that are not listed energy storage systems.
63	480.14	480.14 Overcharge Control	Addresses risks of fire, thermal runaway, and equipment failure. New requirement mandates overcharge prevention provisions for all stationary battery systems.
64	495.2	495 Equipment Over 1000 Volts ac, 1500 Volts dc, Nominal, Listing Requirements.	The listing requirement for equipment rated up to 15,000 volts will take effect on January 1, 2029. The listing requirement for equipment operating over 15,000 volts up to 52,000 volts will take effect on January 1, 2032.
65	500.8(G)	500.8(G) Equipment Involving Optical Radiation	Specifies that the requirements apply to optical equipment located outside the hazardous (classified) location when the optical radiation extends into a hazardous (classified) location.
66	Table 501.10(A)(1) & (B)(1)	501.10(A)(1) & (B)(1) Class I, Divisions 1 and 2 Locations	Tables were added to consolidate the wiring methods permitted for use in Class I, Division 1 and 2 Locations. There are six additional wiring methods, including: Type MC-HL cable, Type ITC-HL cable, Type

Line No.	NEC Code Section	Change Title	Change Summary
			TC-ER-HL cable, Type P cable, RMC, and PVC conduit.
67	501.130(C)	501.130 Wiring Methods, (C) Luminaire Retrofit Kits.	The revision adds requirements for luminaire retrofit kits in hazardous locations. This equipment existed but was not explicitly specified in the NEC.
68	512.6	512.6 Prohibited Locations	Added locations where cannabis extraction is prohibited by adding text from NFPA 1, Section 8.6.1.1.3.
69	513.8	513.8 Underground Wiring	Revised text removes the requirement to classify underground installations at aircraft hangars as Class I, Division 1. This change aligns with the requirements in Section 514.8 regarding underground wiring at motor fuel dispensing facilities.
70	514.11(A)	514.11(A) Emergency Electrical Disconnects	Revised text to update extracted language from NFPA 30A 6.7.4. The clarification added text to include receptacles over or adjacent to motor fuel dispensing devices in hazardous classified locations.
71	517.4	517.4 Electrical Service	This new section provides the ability for microgrids to act as a source on either side of the transfer switch. Subdivision (B), Capacity of Systems, states that system capacity can be determined by the actual demand of the connected load.
72	517.20(A)	517.20 Wet Procedure Locations, (A) Receptacles and Fixed Equipment	New requirements have been added for GFCI protection in operating rooms. If installed, it must be one of the following: 1. An individual receptacle-type GFCI device. 2. A receptacle individually protected by a single GFCI device — a separate GFCI device protecting each receptacle.
73	517.26	517.26 Application of Other Articles	The references to the Article 700 exclusions have been removed.

Line No.	NEC Code Section	Change Title	Change Summary
74	517.42(F)	517.42 Essential Electrical Systems, (F) Coordination.	New subsection (F) requires the coordination of OCPDs for Type 2 essential electrical systems.
75	525	525 Carnivals, Cruises, Fairs, and Similar Events	Article 525 was restructured and revised for clarity, including specific references for portable and vehicle- and trailer-mounted generators, and separating the disconnecting means requirements for moving and nonmoving equipment.
76	525.31	525.31 Equipment Grounding	The exception would allow the use of portable 'inverter' generators that are manufactured with no grounded conductor connection to the generator frame.
77	545.22	545.22 Power Supply, (D) Grounding.	The reference to Article 250 Part III was removed because a relocatable structure is supplied by a feeder and does not require an additional grounding electrode system.
78	547.44(C)	547.44(C) Equipotential Plane Construction	Text was added to include the requirements for the construction of the equipotential plane. In past editions of the NEC®, there was no specific language as to how to install and construct the equipotential plane.
79	550.51(A)	550.51 Service Equipment, (A) Mobile Home Service Equipment	Revisions were made to point to the general requirements for a service disconnect found in Article 230.
80	550.51(F)	550.51 Service Equipment, (E) Replacement Home	Where the existing service equipment is reconnected to a replacement mobile or manufactured home, the installer must provide a surge protective device in compliance with 230.67.
81	555.9	555.9 Engineered Design	New language permits an AHJ to request an engineered design for a pier distribution system

Line No.	NEC Code Section	Change Title	Change Summary
82	555.14	555.14 Equipotential Planes and Bonding of Equipotential Planes	Additional text provides details on how the equipotential plane is to be constructed and bonded to the electrical system when the system voltages exceed 250 volts to ground, and the equipment is located within 10 feet of the water.
83	555.15	555.15 Servicing and Replacing of Equipment	Revised the language to align with the definition for “servicing.” (A) Servicing. Equipment can be serviced to the edition of the Code to which it was installed. (B) Replacing. If replacing equipment, it must comply with the current adopted Code. Additionally, the circuit must be inspected, and any issues found must be addressed as required in Section 555.15(A).
84	555.35(B)	555.35 GFPE and GFCI Protection, (B) Fire Pump Circuits.	Section 555.35(B) was added to address the GFPE monitoring for a fire pump.
85	555.35(F)	555.35 GFPE and GFCI Protection, (F) Coordination and Performance Testing.	Requirements were added to mandate that GFPE protection systems be coordinated and undergo performance testing using an approved method. A written record of this testing is to be made available to the authority having jurisdiction.
86	620.62(B) & (C)	620.62 Selective Coordination, (B) Replacements & (C) Modifications.	Requirements were added to re-evaluate selective coordination when overcurrent protection is replaced or if there are modifications, additions, or deletions to the existing elevator system.
87	624	Article 624 Electric Self-Propelled Vehicle Power Transfer Systems (ESVSEs)	This new article addresses new technology regarding electric vehicles that do not meet the definition of “Electric Vehicle” in Article 100.

Line No.	NEC Code Section	Change Title	Change Summary
88	625.42	625.42 Rating, (A) Power Control System and (B) EVSE with Adjustable Controls.	The requirement was clarified to state that the service, feeder, and branch circuit supplying the EVSE must have a sufficient rating to supply the load served.
89	*625.43*	*625.43 Disconnecting Means, (D) Emergency Shutoff*	*Text was added to require a readily accessible emergency shutoff located at least 20 feet away, but not more than 100 feet from EVSE equipment installed in locations other than one- and two-family dwellings.*
90	652.44	625.44 Equipment Connection	Text was added to require the attachment plug for cord- and plug-connected equipment to be listed for “EV”.
91	625.54	625.54 GFCI and SPGFCI Protection	Requirements were added for permanently wired equipment. The title and new requirements recognize SPGFCI protection.
92	680.22(B)(1)	680.22(B)(1) Outdoor Clearances	Festoon lighting is now subject to the minimum height requirements above a pool, including the area surrounding the pool.
93	680.26(B)(2)	680.26(B)(2) Perimeter Surfaces	Expands the requirement to provide GFCI protectionThe height requirement from the perimeter surface was increased from 2 ft to 3 ft below maximum water level.
94	682.33(A)	682.33(A) Equipotential Plane Construction and Bonding	Equipotential planes for systems over 250 volts to ground and located within 10 feet of the water must encompass the area around outdoor service equipment and/or the disconnecting means and must extend at least 36 inches in all directions from the equipment, covering areas where a person could stand and touch the equipment.
95	690.7(A)	690.7(A) PV Source Circuits	References were added to clarify this section is specific to only dc

Line No.	NEC Code Section	Change Title	Change Summary
			voltages. The 100kW inverter generating capacity threshold was removed allowing engineering calculation to be used on any size PV system.
96	690.47	690.47 Grounding Electrode System	Language from Article 250, Grounding and Bonding, with regard to additional grounding electrodes has been removed from Subdivision (B).
97	695.7(A)(2)	695.7(A)(2) Feeder Supply Conductors	The existing 2" concrete encasement requirement was revised to also require it to provide a 2-hour fire rating that is documented by a PE. A new option for 5" of concrete encasement is permitted, with the measurement being taken from the surface of the raceway or cable.
98	700.6(C)	700.6(C) Bypass and Isolation of Transfer Equipment	The list of exceptions has been removed, and the requirement now applies to assembly occupancies, educational occupancies, and high-rise buildings. Applies to installations where the emergency loads are supplied by a single feeder.
99	700.10(D)(2)(5)	700.10(D)(2)(5) Feeder-Circuit Wiring	The existing 2" concrete encasement requirement was revised to also require it to provide a 2-hour fire rating that is documented by a PE. A new option for 5" of concrete encasement is permitted, with the measurement being taken from the surface of the raceway or cable.
100	700.28	700.28 Class 4 Powered Emergency Lighting Systems	Class 4 Fault-Managed Power (FMP) is allowed if listed for emergency use and integrated into an emergency lighting system.

Line No.	NEC Code Section	Change Title	Change Summary
101	702.4(A)(2)(b)	702.4 Capacity and Rating, System Capacity, Automatic Load Connection, EMS	This revision recognizes that traditional EMS may shed load during standby power, while PCS systems will manage load and sources based on the control settings.
102	702.4(A)(3)	702.4 Capacity and Rating, Multimode Inverter-Based Systems in One- and Two-Family Dwellings	This revision provides a third option for listed multi-mode inverter-based systems that are nominally grid-interactive but can be capable of transitioning to stand-by operation.
103	705.11(C)(1)(2) & (3)	705.11 Source Connections to a Service, Power Source Connections in Buildings	The length of the service tap conductors is limited to 16.5’ or 66’ with cable limiters. Supply-side connection is to existing service equipment
104	Cable, Limited Entry	Article 100 Definition	Created to provide a comprehensive term that clearly defines all cable types qualifying as limited-energy cables.
105	Limited-Energy System	Article 100 Definition	This definition was revised to provide clarity and incorporate specific terminology from various limited-energy product standards. A limited-energy system is capable of limiting or shutting down the power source, preventing deviations above normal operating limits. This mitigates hazards related to electrical shock and fire.
106	800	800 General Requirements for Communications Systems Outside and Entering Buildings.	Chapter 8 is no longer independent due to the revisions of 90.3. Now, Article 800 only covers the requirements for communications system wires and cables located outside of and entering buildings.
107	Chapter 9 Annex L	Annex L, Proposed Organization of the 2029 National Electrical Code.	In preparation for the reformatting of the 2029 edition, structural changes were implemented during the 2026 code cycle.