

2014 NEC® Summary of Changes

Article 90 Summary of Changes in 2014 NEC®		
Section	ROP/ROC	Synopsis of Change
90.1(A)	ROC 1-1	Revised to include “This <i>Code</i> is not intended as a design specification or an instruction manual for untrained persons” under the scope of the <i>Code</i> .
90.2(C)	ROP 1-15	Revised to clearly specify that installations qualify under this provision where the service equipment is either installed outside a building or structure or terminates inside at a readily accessible location.
90.8(B)	ROP 1-19	Revised by deleting “in one circuit” to enhance usability and understanding of the requirement of this section.
Chapter 1 Summary of Changes in 2014 NEC®		
Article 100		
Section	ROP/ROC	Synopsis of Change
100 Scope and Part II	ROC 1-10	Revised the second sentence of the second paragraph of the Scope of Article 100 by adding “articles and” to precede “parts of articles.” Revised the opening statement of Part II of Article 100 to clarify Part II is applicable to equipment and installations over 600 volts.
Accessible, Readily (Readily Accessible)	ROC 1-13	Revised by adding the words “to actions such as; to use tools” to clarify the need to use a tool would add another level of action that would impede or delay access.
Adjustable-Speed Drive	ROP 11-75	Revised to specify the function as power conversion equipment that adjusts the speed of a motor. Relocated to Article 100 because the term is used in Articles 100, 110, and 430.
Adjustable-Speed Drive System	ROP 11-3, ROP 11-75	Revised to clarify the equipment that comprises the adjustable speed drive system. Relocated to Article 100 because the term is used in Articles 100, 110, and 430.
Askarel	ROC 9-1	Revised by removing explanatory material and relocating it to a new Informational Note.
Battery System	ROP 13-3	Relocated to Article 100 because the term is used in Articles 480, 517, 690, 694, 700, and 701.
Cable Routing Assembly	ROC 16-5	Revised to include “power-limited fire alarm cables” and relocated to Article 100 because the term is used in Articles 725, 760, 770, 800, 820, and 830.
Charge Controller	ROP 4-4	Relocated to Article 100 because the term is used in Articles 690 and 694.
Communications Equipment	ROP 16-6	Revised to include “and conductors dedicated solely for the operation of the equipment” to specify the conductors that are associated with the mentioned equipment.

2014 NEC® Summary of Changes

Communications Raceway	ROC 16-3	Relocated to Article 100 because the term is used in Articles 770, 800, 820, 830, and 840.
Concealed	ROP 1-31	Revised by removing explanatory material and relocating to a new Informational Note.
Control Circuit	ROP 11-5, ROP 11-8	Relocated to Article 100 because the term is used in Articles 225, 230, 240, 250, 300, 392, 409, 430, 440, 490, 517, 522, 604, 610, 620, 668, 685, 708, and 727.
Coordination (Selective)	ROC 10-2	Revised by deleting the word “choice” and adding “selection and installation” to improve clarity. Added the phrase “and for the full range of overcurrent protective device opening times associated with those overcurrents” to clarify the definition.
Copper-Clad Aluminum Conductor	ROP 6-4	Revised to clearly describe the percentage of copper that comprises each solid conductor or conductor strand.
Device	ROP 1-31a	Revised by adding “other than a conductor” to clearly state a device does not include a conductor.
Effective Ground-Fault Current Path	ROP 5-6	Relocated to Article 100 because the term is used in Articles 250, 404, and 517.
Electric- Discharge Lighting	ROP 18-3	Relocated to Article 100 because the term is used in Articles 100, 210, 225, 300, 310, 410, 450, 501, 502, 530, 600, and 604.
Electronically Actuated Fuse	ROC 10-4	Revised by removing explanatory material and relocating to a new Informational Note: “Electronically actuated fuses may or may not operate in a current-limiting fashion, depending on the type of control selected.”
Exposed	ROP 1-49	Revised by removing explanatory material and relocating to a new Informational Note: “It is applied to parts that are not suitably guarded, isolated, or insulated.”
Ground-Fault Current Path	ROP 5-13, ROP 5-14	Relocated to Article 100 because the term is used in Articles 100, 250, 610, and 690.
Grounding Conductor, Equipment (EGC)	ROP 5-14a	Revised to clearly describe the ground-fault current path function of the EGC.
Hermetic Refrigerant Motor-compressor	ROP 11-6	Relocated to Article 100 because the term is used in Articles 220, 422, 424, 430, and 440.
Industrial Control Panel	ROP 11-7	Relocated to Article 100 because the term is used in Articles 110, 409, 440, 670, 500, 505, 520, 620, 665, 675, 680, and 760.
Intersystem Bonding Termination	ROP 5-16	Revised to clarify that the bonding conductors connected to this equipment are only those required by 250.94 for intersystem bonding.
Lighting Track (Track Lighting)	ROP 18-5	Relocated to Article 100 because the term is used in Articles 220 and 410.
Location, Damp	ROP 1-52	Revised by removing explanatory material and relocating to a new Informational Note.

2014 NEC® Summary of Changes

Overcurrent Protective Device, Branch-Circuit	ROC 10-5	Revised by removing explanatory material and relocating to a new Informational Note.
Photovoltaic (PV) System	ROP 4-8a, ROP 4-154, ROC 4-1	Revised by removing “solar” from the defined term. Relocated to Article 100 because the term is used in Articles 100, 200, 220, 225, 230, 240, 250, 300, 340, 625, 690, and 705.
Premises Wiring (System) Informational Note	ROP 1-61	New Informational Note: “Power sources include, but are not limited to, interconnected or stand-alone batteries, solar photovoltaic systems, other distributed generation systems, or generators.”
Raceway	ROP 8-24	Revised by removing examples of raceways and providing an Informational Note indicating that the use of a particular wiring method as a raceway is defined in the Chapter 3 article covering that wiring method.
Retrofit Kit	ROP 18-9	New definition for a type of equipment associated with luminaires and electric signs that is covered by requirements in Articles 410 and 600.
Sealable Equipment	ROP 1-63	Revised by removing explanatory material and relocating to a new Informational Note: “The equipment may or may not be operable without opening the enclosure.”
Separately Derived System	ROC 5-6	Revised for simplicity and to clearly describe the types of electrical supply systems that are subject to the requirements in Article 250 covering separately derived systems.
Substation	ROP 4-10, ROP 9-8a	Relocated to Article 100 because the term is used in Articles 90, 110, 225, 240, 250, 490, and 530. Revised to describe that this equipment is used for the distribution of, in addition to switching and changing the characteristic(s) of, electric energy.
Switchboard	ROC 9-8	Revised by removing explanatory material and relocating to a new Informational Note: “Switchboards are generally accessible from the rear as well as from the front and are not intended to be installed in cabinets.”
Switchgear	ROP 9-7 ROC 9-2	Revised the definition title <i>Metal-Enclosed Power Switchgear</i> to <i>Switchgear</i> . Added a new Informational Note: “All switchgear subject to NEC requirements is metal enclosed. Switchgear rated below 600 (or 1000) volts may be identified as “Low-Voltage Power Circuit Breaker Switchgear.” Switchgear rated over 1000 volts may be identified as “Metal-Enclosed Switchgear” or “Metal-Clad Switchgear.” Switchgear is available in non-arc-resistant or arc-resistant constructions.”
Voltage, Nominal	ROP 1-68	Revised by removing explanatory material and relocating to a new Informational Note: “The actual voltage at which a circuit operates can vary from the nominal within a range that permits satisfactory operation of equipment.”

2014 NEC® Summary of Changes

Article 110		
Section	ROP/ROC	Synopsis of Change
110.1	ROP 1-191a	A new informational note points to the new Annex J covering standards for accessible design that have particular significance to electrical design constraints
110.9	ROP 1-85a, ROC 1-36	Revised for clarity and usability.
110.12 Informational Note	ROP 1-90	Revised by updating the title and edition year of the standard referenced.
110.14 Informational Note	ROP 1-93	Revised the Informational Note to recognize that terminations and equipment may be identified by tightening torque in the installation instructions provided.
110.14(B)	ROP 1-96	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
110.16	ROC 1-47	Revised by adding the term “switchgear” and providing provisions for durability requirements for labels.
110.16	ROP 1-102	Revised to require marking to meet requirements in new Section 110.21(B).
110.16	ROP 1-105, ROP 1-107	Revised to include “factory” to the rule, to allow label application to be either field or factory applied.
110.16 Informational Note 1	ROP 1-109	Revised by updating reference to latest edition of NFPA 70E.
110.21(A) and (B) Informational Note	ROC 1-61	Revised to include requirements for hazard marking where caution, warning, or danger signs or labels are required by the <i>Code</i> . Marking shall adequately warn of the hazard using effective words and/or colors and/or symbols. A new Informational Note refers to ANSI Z535.4-2011, Product Safety Signs and Labels, for guidelines.
110.22(B) and (C)	ROP 1-117	Revised to require marking to meet requirements in new Section 110.21(B).
110.24 Informational Note	ROC 1-64	New Informational Note: “The available fault current marking(s) addressed in 110.24 are related to required short-circuit current ratings of equipment. NFPA 70E-2012, <i>Standard for Electrical Safety in the Workplace</i> , provides assistance in determining severity of potential exposure, planning safe work practices, and selecting personal protective equipment.”
110.25	ROC 1-76	New section that provides consistent requirements for <i>Code</i> rules that require a lockable disconnecting means. The new section includes an exception for cord and plug connection, in that locking provisions are not required to remain in place.

2014 NEC® Summary of Changes

110.26(A)(1)	ROP 9-14b	Revised to include switchgear as equipment exempt from working space in the back or sides, where all connections and renewable or adjustable parts are accessible from other than the back or sides.
110.26(C)(3)	ROP 1-143a	Revised personnel door requirements by reducing the 1200-ampere threshold to 800 amperes.
110.26(C)(3)	ROP 1-145	Revised to require “listed panic hardware” and to remove the phrase “simple pressure plates.”
110.26(D)	ROP 9-14c	Revised to include switchgear as equipment requiring illumination.
110.26(E)	ROP 9-14d	Revised to include switchgear as equipment required to be located in dedicated space and protected from damage.
110.26(E)(2)(a) and (b)	ROP 1-154, ROP 1-155	Revised to include requirements for outdoor installations dedicated space requirements.
110.27(A)(4)	ROC 1-94	Revised to reflect differing elevation requirements for differing voltage thresholds.
110.27(C)	ROP 1-159	Revised to require marking to meet requirements in new Section 110.21(B).
110.28	ROP 9-14e	Revised to include switchgear as equipment required to be marked with an enclosure-type number as shown in Table 110.28.
110.31(A)(3)(1)	ROP 9-14g	Revised by replacing the term “switchboard” with “switchgear,” to correlate with the revised defined term in Article 100.
110.31(A)(5)	ROP 1-163, ROC 1-99	Revised by updating the edition of the ASTM Standard, and deleted reference to NFPA 251.
110.33(A)(3)	ROP 1-169a	Revised to require “listed panic hardware” and to remove the terms “simple pressure plates.”
110.31(B)(1)	ROP 9-14f	Revised the term “metal-enclosed switchgear” to “switchgear” for correlation with the revision made to the defined term in Article 100.
110.34(A) Exception	ROP 9-14h	Revised by replacing the term “dead-front switchboards” with “switchgear” to correlate with the revised defined term in Article 100.
110.34(C)	ROP 1-175	Revised to require marking to meet requirements in new Section 110.21(B).
110.34(F)	ROP 9-14i	Revised by replacing the term “switchboard” with “switchgear” to correlate with the revised defined term in Article 100.
110.36	ROP 1-178	Revised by adding Type MC to the description for metal clad cable.

2014 NEC® Summary of Changes

Chapter 2 Summary of Changes in 2014 NEC®		
Article 200		
Section	ROP/ROC	Synopsis of Change
200.2(A)	ROP 5-28	Revised the phrase “circuits of less than 1000 volts” to “systems of 1000 volts and less” for correlation with other standards and with Part X of Article 250.
200.4(B)	ROP 5-29	New requirement for grouping of circuit conductor sets where the grounded conductors of different circuits are installed in the same enclosure.
200.6(A)(3),(B)(3), 200.6(E), 200.7, 200.7(A)(2), 200.7 (B), 200.7(C)(1) and (C)(2)	ROP 5-31, ROP 5-33, ROP 5-34, ROP 5-35, ROP 5-36, ROP 5-38, ROP 5-40, ROP 5-41	Revised to permit three continuous gray stripes on conductor insulation as a means to identify the grounded conductor of a circuit.
Article 210		
Section	ROP/ROC	Synopsis of Change
210.4(D) Exception	ROP 2-19	Revised to permit “numbered” tags at conductor terminations as a means of identifying the ungrounded and grounded conductors associated with a specific multiwire branch circuit.
210.5(C)(2)	ROP 2-23	New requirement for 6 AWG and smaller and for 4 AWG and larger conductors that provides specific color or marking identification means for the positive and negative branch circuit conductors where supplied by a dc system operating at greater than 50 volts.
210.7	ROP 2-27	Revised by adding “or mounting strap” after “Yoke” to clarify intent.
210.8(A)(7)	ROC 2-20	Revised to require GFCI protection of 125-volt, 15- and 20-ampere receptacles installed within 6 ft. of a sink that are not covered by the kitchen countertop rule in 210.8(A)(6).
210.8(A)(9)	ROP 2-46	New requirement for GFCI protection of 125-volt, 15- and 20-ampere receptacles installed within 6 ft. of the outside edge of a bathtub or shower stall.
210.8(A)(10)	ROP 2-47	New requirement for GFCI protection of 125 volt, 15- and 20-ampere receptacles installed in laundry areas.

2014 NEC® Summary of Changes

210.8(B)(3) Exception No. 1	ROP 2-52	Revised to specify that receptacles installed on a rooftop are only required to be readily accessible from the rooftop level.
210.8(B)(8)	ROP 2-49, ROP 2-50, ROC 2-27	Revised to require GFCI protection of all 125-volt, 15- and 20-ampere receptacles installed in garages located at other than dwelling units. The requirement does not apply to receptacles installed in showroom or exhibition areas.
210.8(D)	ROC 2-29	New requirement for GFCI protection of outlets that supply dishwashers installed in dwelling units.
210.11(C)(3)	ROC 2-35	Revised to specify the voltage rating (120 volts) for the required 20-ampere branch circuit(s) supplying dwelling unit bathrooms.
210.12	ROP 2-116	Revised to require AFCI devices be installed in <i>readily accessible</i> locations.
210.12(A)	ROP 2-80, ROP 2-82a, ROP 2-85,	Revised to expand the AFCI protection requirement to kitchens and laundry areas, and to specify that AFCI protection is required for branch circuits supplying outlets and devices.
210.12(A)	ROC 2-52	Revised to identify six permitted methods of providing AFCI protection for branch circuits, and to provide specific requirements covering the use of supplemental and outlet branch-circuit-type AFCIs.
210.12(B)	ROP 2-115	New exception permitting branch circuit conductors to be extended 6 ft. or less, provided no new outlets or devices are supplied by those conductors.
210.12(C)	ROC 2-37	New requirement for AFCI protection of outlets supplied by 120 volt, 15- and 20-ampere branch circuits that are installed in certain rooms of dormitories.
210.13	ROP 2-125	New requirement for ground-fault protection of equipment where a branch-circuit disconnecting means is rated 1000 amperes or more and is supplied from a solidly-grounded, wye-connected system operating over 150 volts to ground, but not more than 600 volts phase to phase.
210.17	ROP 2-128a	New requirement specifying that branch circuits supplying electric vehicle charging equipment are to be dedicated to the EV charging equipment and are not permitted to supply any other outlets or equipment.
210.19(A)(1)	ROP 2-131	Revised to clarify that it is only required to increase ampacity of branch-circuit conductors for ampacity correction/adjustment or for supplying a continuous load, but not for both. Conductor selection is to be based on whichever calculation yields the highest ampacity.
210.21(B)(3) Exceptions No. 1 and No. 2	ROP 2-137	Revised exceptions for language, to be consistent with the same exceptions in 210.21(B)(1).

2014 NEC® Summary of Changes

210.22	ROP 2-139	New section that relocates existing provisions into a separate requirement covering loads permitted to be supplied by an individual branch circuit.
210.23	ROP 2-141	Revised to cover only loads permitted to be supplied by a multioutlet branch circuit or a branch circuit with more than one receptacle.
210.50 Informational Note	ROP 2-143a	New Informational Note referencing Annex J for information contained in Americans with Disabilities Act (ADA) design documents relating to wiring device location.
210.52(D)	ROP 2-166	Revised to provide a minimum height requirement for all locations (wall, cabinet, or other) for a receptacle outlet(s) installed to serve a bathroom basin(s).
210.52(E)(1)	ROP 2-169	Revised to specify that required outdoor receptacle outlets installed at one- and two-family dwellings be <i>readily accessible from grade</i> , instead of <i>accessible while standing</i> at grade.
210.52(E)(2)	ROP 2-169	Revised to specify that required outdoor receptacle outlets installed at multifamily dwellings be <i>readily accessible</i> from grade.
210.52(E)(3)	ROP 2-169	Revised to permit the receptacle outlet required for porches, balconies, and decks to be located outside the perimeter of the structure, provided it is accessible from the porch, balcony, or deck.
210.52(F)	ROP 2-177	Revised to provide specific location and purpose of the laundry receptacle outlet.
210.52(G)(1)	ROP 2-180 ROC 2-82	Revised to require at least one receptacle outlet for each car parking space in a dwelling unit garage and to restrict the branch circuit supplying garage receptacle outlets from supplying outlets located outside of the garage.
210.52(I)	ROP 2-185	Revised to clarify that the space occupied by door side windows or “lights” that extend to the floor are not required to be included in the measurement of a foyer’s wall space.
210.62	ROP 2-187	Revised to specify that the required outlets are for the installation of 125-volt, 15- or 20-ampere receptacles.
210.64	ROP 2-191	New requirement specifying the installation of at least one 125-volt, 15- or 20-ampere receptacle outlet within 50 ft. of electrical service equipment for all buildings other than one- and two-family dwelling units.

2014 NEC® Summary of Changes

Article 215		
215.2(A)(1)	ROP 2-201	Revised to clarify that it is only required to increase ampacity of feeder conductors for ampacity correction and/or adjustment or for supplying a continuous load, but not for both. Conductor selection is to be based on whichever calculation yields the highest ampacity.
215.2(A)(4)	ROP 2-204b	Deleted this provision because the determination of feeder conductor ampacity for dwelling units and mobile homes is adequately covered by the requirements of Article 310, including the provisions specified in 310.15(B)(7).
215.3 Exception No. 2	ROC 2-98	Revised to specify that overcurrent protection for feeder circuits rated over 1000 volts is to comply with Part IX of Article 240, and that overcurrent protection for feeder circuits rated from 600 volts to 1000 volts is to comply with Parts I through VII of Article 240. This action correlates 215.3 Exception No. 2 with 240.1.
215.12(C)	ROP 2-217	New requirement for 6 AWG and smaller and for 4 AWG and larger conductors that provides specific color or marking identification means for the positive and negative feeder conductors where supplied by a dc system operating at greater than 50 volts. This requirement corresponds with the new requirement in 210.5(C) that resulted from CMP-2 action on Proposal 2-23.
Article 220		
220.12 Exception	ROP 2-228	New exception to permit calculation of the general lighting load to be performed per locally adopted energy codes, provided the feeder demand factors permitted by the <i>Code</i> are not applied to the general lighting load. The general lighting load is required to be continually monitored by equipment with an alerting feature that activates when the load determined through energy code calculation is exceeded.
220.14(B)	ROP 2-232	Revised the title of this section to identify that this load calculation is also permitted to be used to determine the load of household ranges used in instructional programs as specified in Note 5 to Table 220.55.
220.14(C)	ROP 2-233	Revised to clarify that this calculation is to be used for sizing the branch circuit supplying a motor outlet, and to distinguish that this calculated value is not the actual load that the motor imposes on the electrical supply system.
Article 225		
225.1 Informational Note	ROP 4-11	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.

2014 NEC® Summary of Changes

225.8	ROP 4-18	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
225.10	ROP 4-19	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
225.11	ROP 4-27	Revised to clarify requirements for outdoor feeder and branch circuit conductors that enter, exit, and/or are attached to buildings or structures.
225.14	ROP 4-29	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
225.17	ROP 4-30	Revised for usability and to prohibit overhead conductors from being attached between the weatherhead or end of the conduit and a coupling that has been installed above the last point at which a conduit has been secured to a building or structure.
225.18	ROP 4-31	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
225.19	ROP 4-32	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
225.21	ROP 4-35	Revised to also apply to installations of outside branch circuits and feeders on <i>structures</i> .
225.25(2)	ROP 4-37	Revised for correlation with new general requirement for lockable disconnecting means in 110.25.
225.27	ROP 4-38	Revised to require raceway sealants to be compatible with insulated single conductors, bare conductors, and cable shields.
225.30(C)	ROP 4-46	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
225.33	ROP 9-14j	Revised to include switchgear as equipment in which an outside feeder or branch-circuit disconnecting means can be located or installed.
225.36	ROP 4-55	Revised by requiring that the feeder or branch-circuit disconnecting means be suitable for use as service equipment only where the feeder grounded conductor is also used as the return path for ground-fault current per 250.32(B)(1). The exception permitting a three- or four-way snap switch to be used as a disconnecting means for an outside branch circuit or feeder has been deleted.

2014 NEC® Summary of Changes

225.38	ROP 4-63	Revised by deleting the exception permitting a three- or four-way snap switch to be used as a disconnecting means for an outside branch circuit or feeder (for correlation with the same action taken in 225.36).
225.38(C)	ROP 9-14k	Revised to include switchgear as equipment covered by the provision for disconnecting the grounded feeder or branch-circuit conductor.
225.50	ROP 4-67	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
225.51 Exception	ROP 9-14l	Revised the term “metal-enclosed switchgear” to “switchgear” for correlation with the revision made to the defined term in Article 100.
225.52(A)	ROC 4-32	Revised to permit overhead disconnects on medium voltage feeders operable through a mechanical linkage, or generally by electronic control in some occupancies, comparable to those allowed for services in 230.205(A).
225.52(B) Exception	ROP 4-72	Revised to provide the specific warning message to be displayed on the sign required adjacent to the fused cutouts.
225.52(C)	ROP 4-73, ROP 4-74	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
225.56(A)	ROP 4-81	Revised to provide more detail on the electrical system design information that must be provided to the AHJ upon request, and to specify that adjustments are to be made in accordance with the electrical system design.
225.56(A)(6)	ROP 4-83	Revised the undefined term <i>station</i> to the defined term <i>substation</i> .
Article 230		
Figure 230.1, Part VIII	ROP 4-96	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230.2(C)(1)	ROP 4-98	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230.6(5)	ROP 4-103	Revised to restrict service masts running through the eave of a building to rigid metal conduit and intermediate metal conduit.
230.7 Exception No. 1	ROP 4-105	Revised to use grounding and bonding terms that are defined in the current edition of the <i>NEC</i> .
230.24	ROP 4-108	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230.24 Exception No. 4	ROP 4-109	Revised to extend application of the exception to overhead service conductors that are attached to the side of a building.

2014 NEC® Summary of Changes

230.24(B)(1)	ROP 4-111	Revised for correlation with the definitions of <i>service drop</i> and <i>overhead service conductors</i> .
230.26	ROP 4-112	Revised for correlation with the definitions of <i>service drop</i> and <i>overhead service conductors</i> .
230.28	ROP 4-114	Revised for usability, and to prohibit overhead service or service-drop conductors from being attached between the weatherhead or end of the conduit and a coupling that has been installed above the last point where a conduit has been secured to a building or structure. Also revised to extend application of the service mast requirements to overhead service conductors.
230.30	ROP 4-115	Revised to list the specific wiring methods permitted for underground service conductor installations.
230.43	ROP 4-121	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230.44	ROP 4-133	Revised to provide specific intervals for marking of cable trays containing service-entrance conductors.
230.44(5)	ROP 4-134, ROP 4-135	Revised to permit the use of single conductors with thermoplastic insulation or with thermoset insulation as service-entrance conductors in cable trays.
Table 230.51(C)	ROP 4-136	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230.66	ROP 4-141	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230.71(A)	ROP 9-14m	Revised to include switchgear as equipment in which service disconnecting means can be located or installed.
230.75	ROP 9-14n	Revised to include switchgear as equipment covered by the provision for disconnecting the grounded service conductor.
230.82(2) and (3)	ROP 4-154	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230.82(3)	ROC 4-64	Revised to require specific marking for meter disconnecting means.
230.95	ROP 4-158	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230 Part VIII	ROP 4-160	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.

2014 NEC® Summary of Changes

230.200	ROP 4-162a	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230.204(A) Exception	ROP 9-14o	Revised the term <i>metal-enclosed switchgear</i> to <i>switchgear</i> for correlation with the revision made to the defined term in Article 100.
230.208(B)	ROP 4-164	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
230.211	ROP 9-14p	Revised the term <i>metal-enclosed switchgear</i> to <i>switchgear</i> for correlation with the revision made to the defined term in Article 100.
230.212	ROP 9-14q	Revised the term <i>metal-enclosed switchgear</i> to <i>switchgear</i> for correlation with the revision made to the defined term in Article 100.
Article 240		
240.1	ROP 10-16	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Table 240.4(G)	ROP 10-20	Revised by adding “Part II” of Article 430 for specific conductor applications referenced in the Table.
240.13	ROC 10-12	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
240.21(B)(1)b Exception	ROP 10-32	Revised by adding “equipment containing an overcurrent” to clarify the device is intended to be an overcurrent device. New exception to address the installation of surge protective device(s) (SPD).
240.21(B)(1)(2 and 3)	ROP 9-14r	Revised to include switchgear as equipment for feeder tap conductor requirements.
240.21(B)(5)	ROP 10-36	Revised by adding the word “tap” before “conductors” in all subsections to provide specific language that will clarify which conductors are being referred to.
240.21(C)(2)(1)(b)	ROC 10-16	Revised by adding “equipment containing an overcurrent” to clearly specify the device is intended to be an overcurrent device. Added a new exception to address the installation of surge protective device(s) (SPD).
240.21(C)(2) (2 and 3)	ROP 9-14s	Revised to include switchgear as equipment for transformer secondary tap conductor requirements.
240.21(C)(3)	ROC 10-17	Revised by adding the words “the supply of switchgear or switchboards in” to clearly specify the applicability of this section.

2014 NEC® Summary of Changes

240.61	ROP 10-50	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
240.83	ROP 10-51	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
240.87	ROC 10-24	Revised by limiting the application of this requirement to circuit breakers that are rated or can be adjusted to 1200 amperes or more. Also revised to add more methods that can be used to provide arc flash mitigation.
240.92(C)(2)(2)	ROP 9-15a	Revised to include switchgear as equipment for transformer secondary conductor requirements in supervised industrial installations.
240.92(D)(2)	ROP 9-15b	Revised to include switchgear as equipment for outside feeder tap conductor requirements in supervised industrial installations.
240, Part IX	ROP 10-60	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 250		
Figure 250.1	ROP 5-45	Revised the phrase “systems and circuits of 1 kV and over” to “systems and circuits over 1000 volts” for correlation with other standards and with Part X of Article 250.
250.8(A)	ROP 5-53	Revised to clarify that a combination of connection methods prescribed by this section is permitted.
250.10	ROP 5-55	Revised for simplicity to clarify the requirements used where wiring and equipment is exposed to physical damage
250.20(B)	ROP 5-58	Revised “systems 50 volts to less than 1000 volts” to “systems 50 volts to 1000 volts” for correlation with other standards and with Part X of Article 250.
250.20(C)	ROP 5-60	Revised “1 kV and over” to “Over 1000 volts” for correlation with other standards and with Part X of Article 250.
250.21(A)	ROP 5-61	Revised “systems 50 volts to less than 1000 volts” to “systems 50 volts to 1000 volts” for correlation with other standards and with Part X of Article 250.
250.21(A)(3)	ROP 5-62	Revised “voltage rating less than 1000 volts” to “voltage rating 1000 volts or less” for correlation with other standards and with Part X of Article 250.
250.21(B)(1)	ROP 5-63	Revised “not less than 120 volts and not exceeding 1000 volts” to “not less than 120 volts and 1000 volts or less” for correlation with other standards and with Part X of Article 250.

2014 NEC® Summary of Changes

250.21(C)	ROP 5-66	Revised to correlate with the marking requirements prescribed 408.3(F)(2).
250.24(A)(1)	ROP 5-68	Revised to include “overhead service conductors” and “underground service conductors” for proper application of the requirements.
250.24(C)	ROP 5-73	Revised “operating at less than 1000 volts” to “operating at 1000 volts or less” for correlation with other standards and with Part X of Article 250.
250.24(E)	ROP 5-75	Revised to include “overhead service conductors” and “underground service conductors” for proper application of the requirements.
250.26	ROP 5-77	Revised to correlate with the definition of <i>neutral conductor</i> in Article 100.
250.30	ROP 5-80a	New requirement specifying that separately derived systems that are operating in parallel must comply with 250.30.
250.30	ROP 5-82	Revised to clearly state that compliance requirements for this section are based on the type of ac system employed.
250.30(A)(1) Exception No. 2	ROP 5-85	Revised to describe conditions where it is permitted to install a system bonding jumper at the source of a separately derived system and at the building or structure being supplied.
250.30(A)(2) Exception	ROP 5-88	New exception to correlate with 250.30(A)(1), Exception No. 2.
250.30(A)(5) Exception No. 2	ROP 5-90	Revised to clearly specify that the separately derived system must be located within equipment listed and identified <i>suitable for use as service equipment</i> in order to effect this exception.
250.30(A)(6)(b) Exception	ROP 5-91	Revised to clearly specify that the separately derived system must be located within equipment listed and identified <i>suitable for use as service equipment</i> in order to effect this exception.
250.32(B) Exception No. 2	ROP 5-244c	New exception to provide requirements for the grounded conductor in a building or structure served by a feeder from an outdoor transformer separately derived system installed in accordance with 250.30(A)(1) Exception No. 2.
250.36(C) Informational Note	ROP 5-98a	Revised to update to the current edition of the referenced standard.
250.36(F)	ROP 5-99	Revised to clarify the grounding electrode conductor connection location for services or separately derived systems.
250.64(B)	ROC 3-13	Revised by adding "Grounding electrode conductors and grounding electrode bonding jumpers shall not be required to comply with 300.5" after the last sentence.
250.64(D)	ROC 5-44	Revised to include feeders under the requirements of this section.
250.64(D)(1)	ROP 5-121	Revised to include “overhead service conductors” and “underground service conductors” for proper application of the requirements.

2014 NEC® Summary of Changes

250.64(D)(1)(3)	ROP 5-120	Revised to clarify that the busbar must be of sufficient length to accommodate the number of terminations necessary for the installation.
250.64(E)	ROP 5-124	Revised for usability by restructuring the existing paragraph into a list format.
Table 250.66 Note 1	ROP 5-128	Revised to clarify the method for calculating the size of a grounding electrode conductor when multiple sets of service conductors are installed.
250.66(A)	ROP 5-131	Revised to clarify that the term “sole connection” includes connecting to single or multiple electrodes of the same type.
250.66(B)	ROP 5-135	Revised to clarify that the term “sole connection” includes connecting to single or multiple electrodes of the same type.
250.68(C)(2)	ROC 5-49	Revised to clarify that the structural metal frame of a building can serve as a conductor to interconnect electrodes that are part of the grounding electrode system, or as a grounding electrode conductor.
250.68(C)(3)	ROP 5-138	Added a new subsection to permit a concrete encased electrode of the conductor type, reinforcing rod, or bar to extend from its location within the concrete to an accessible location above the concrete.
250.118(9)	ROP 5-144	Revised by adding “Type MI” to the description for mineral insulated cable.
250.100	ROP 5-160	Revised by adding references to 505.5 and 506.5 to include zone classifications for required bonding requirements in accordance with one of the specific methods in 250.92(B)(2).
250.102(C)	ROP 5-42, ROC 5-56	New table to provide minimum sizes for other than grounding electrode conductors. References to this table have been inserted into appropriate sections throughout the <i>Code</i> .
250.104	ROP 5-164, ROP 9-15c	Revised by changing the term “steel” to “metal” to correlate with 250.104(C) and (D)(2).
250.104(A)(2)	ROC 5-57	Revised for correlation of the definition of <i>switchgear</i> .
250.104(A)(3)	ROP 5-168	Revised by adding “or structure” to clarify that the requirements of this section apply to structures not classed as a building.
250.104(B)	ROC 5-59	Revised for usability by restructuring the existing paragraph into a list format.
250.104(B) Informational Note 2	ROP 5-172a	Revised to update to the current edition of the referenced standard.
250.104(B) Informational Note 2	ROP 5-182	Revised by changing the parenthetical statement “(or other structures)” to “or structures” to provide consistency with where this is used elsewhere in the code.

2014 NEC® Summary of Changes

250.112(A)	ROP 9-15d	Revised to include switchgear as equipment required to be connected to an equipment grounding conductor.
250.118 Informational Note	ROP 5-184a	Revised by including a reference to Article 100.
250.119 Exception No. 2	ROC 5-66	New Exception to permit flexible cords having an integral insulation and jacket without an equipment grounding conductor to have a continuous outer finish that is green.
250.119 Exception No. 3	ROP 5-41a	New exception recognizes the use of green insulation on ungrounded conductors used in traffic signal work. The associated equipment grounding conductor, if a wire, must be bare or green with yellow striping.
250.119(A)	ROP 5-189	Revised by changing the phrase “larger than 6 AWG” to 4 AWG and larger” to correlate with 200.6.
250.121 Exception	ROC 5-66a	New exception allows a wire-type equipment grounding conductor to simultaneously function as a grounding electrode conductor provided its size and continuity and any other requirements are fully met for both functions.
250.122(B)	ROP 5-199	Revised to clarify that the increase in size is from the minimum conductor size required for the load served.
250.126(3)	ROP 5-207	Revised by adding the word “equipment” in front of “grounding conductor” to provide consistency in the use of <i>NEC</i> defined grounding and bonding terms.
250.130(C)	ROP 5-209	New list item permitting connection to an equipment grounding conductor that is part of another branch circuit that originates from the enclosure where the branch circuit for the receptacle or branch circuit originates.
250.142(B) Exception No. 4	ROP 5-212	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
250.146(B)	ROC 5-87	Revised by adding “equipment bonding” to clarify that an effective ground fault path must be established when relying on contact devices or yokes as the equipment bonding jumpers.
250.146(D)	ROP 5-215	Revised by adding “Ground” to the title to correlate with terminology in other sections of the <i>Code</i> .
250.162(A) Exception No. 1	ROP 5-221	Revised by increasing the lower voltage threshold from 50 volts to 60 volts to correlate with Chapter 9, Table 11(B) and 110.26(A)(1)(b). Revised the exception to require that the ground detection system be installed adjacent to or integral with the source of supply.
250.166	ROP 5-222	Revised to clarify that the maximum size required for grounding electrode conductors installed for dc systems must comply with 250.166 and is not required to exceed the values in Table 250.66.
250.167	ROP 5-223	New section that requires ground fault detection for dc systems.

2014 NEC® Summary of Changes

250.170	ROP 9-15e, ROC 5-91	Revised for correlation with the definition of <i>switchgear</i> .
250.170 Exception No. 1	ROP 5-225	Revised “less than 1000 volts” to “1000 volts or less” for correlation with other standards and with Part X of Article 250.
250.174	ROP 5-226	Revised “less than 1000 volts” to “1000 volts or less” for correlation with other standards and with Part X of Article 250.
250.174(B)	ROC 5-95	Revised for correlation of the definition of <i>switchgear</i> .
250.176	ROP 5-228	Revised “1 kV” to “1000 volts” for correlation with other standards and with Part X of Article 250.
250.178	ROC 5-96	Revised for correlation of the definition of <i>switchgear</i> .
250.230	ROP 5-230	Revised “1 kV” to “1000 volts” for correlation with other standards and with Part X of Article 250.
250 Part X	ROP 5-231	Revised “1 kV” to “1000 volts” for correlation with other standards and with other sections of the <i>Code</i> .
250.184(A)(1) Exception No. 1(2)	ROP 5-233	Revised by including “underground service conductors” for proper application of the requirements.
250.186	ROC 5-101	Revised to include requirements that a grounded conductor to be brought to each service disconnecting means for systems over 1000 volts.
250.188	ROP 5-235	Revised “1 kV” to “1000 volts” for correlation with other standards and with other sections of the <i>Code</i> .
250.188(A)	ROP 5-236	Revised “1 kV” to “1000 volts” for correlation with other standards and with other sections of the <i>Code</i> .
250.188(D)	ROP 5-237	Revised “1 kV” to “1000 volts” for correlation with other standards and with other sections of the <i>Code</i> .
250.188(F)	ROP 5-238	Revised “1 kV” to “1000 volts” for correlation with other standards and with other sections of the <i>Code</i> .
250.192	ROP 5-241	Added a new section that includes requirements for bonding and grounding fences and other metal structures around substations.
Article 280		
280 (Title)	ROP 5-241a	Revised “1 kV” to “1000 volts” for correlation with other standards and with Part X of Article 250.
280.1	ROP 5-241b	Revised “1 kV” to “1000 volts” for correlation with other standards and with Part X of Article 250.
280.4(B) Informational Note No. 1	ROP 5-242a	Revised to update to the current edition of the referenced standard.

2014 NEC® Summary of Changes

Article 285		
285	ROP 5-243a	Revised “1 kV” to “1000 volts” for correlation with other standards and with Part X of Article 250.
285.1	ROP 5-243b	Revised “1 kV” to “1000 volts” for correlation with other standards and with Part X of Article 250.
285.3	ROP 5-244a	Revised “exceeding 1 kV” to “over 1000 Volts” for correlation with other standards and with Part X of Article 250.
285.13	ROP 5-244b	New section that clarifies that Type 4 and other component-type SPDs are only intended for factory installation and must not be installed in the field.
Chapter 3 Summary of Changes in 2014 NEC®		
Article 300		
Section	ROP/ROC	Synopsis of Change
Article 300 Title	ROP 3-8	Revised by adding “General Requirements for” to better reflect what is covered by Article 300.
300.1	ROP 3-9	Revised by adding “General Requirements.” Also revised by inserting the words "and materials" after "methods," and by adding "in Chapter 3" after the word "articles" to more clearly state that the general requirements provided in Article 300 for the wiring methods and materials in Chapter 3 apply, unless modified by Chapters 5 through 7.
300.2	ROP 3-10	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
300.3	ROP 3-12	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
300.3(C)(2)(c)	ROP 3-15a	Revised by adding “switchboards” to cover all of the types of equipment that can have these different voltages contained within the same enclosures.
300.5	ROP 3-36	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
300.5(B)	ROP 3-40	Revised by removing the phrase “shall be listed for use in wet locations and” to correlate with Section 310.10(C).
300.5(C)	ROP 3-42	Revised by adding “and conductors” to the title and section text, to clarify that the requirement applies to both conductors and cables.
300.5(D)(4)	ROP 3-97	Revised by adding “RTRC-XW” to the types of raceways specified in this section.

2014 NEC® Summary of Changes

300.6(A) Informational Note	ROC 3-17	New Informational Note to clarify that field-cut threads are those not cut in the factory where the product is manufactured and listed.
300.7(B)	ROP 3-58	Revised by replacing "rigid conduit" with "rigid metal conduit" to correlate with terminology used elsewhere in the <i>Code</i> .
300.11 Informational Note No. 1	ROC 3-19	Revised by replacing NFPA 251 with ANSI/ ASTM E119-2012a, <i>Method for Fire Tests of Building Construction and Materials</i> , as the referenced standard.
300.11(B)(1)	ROP 3-65	Revised by replacing "identified for the purpose" with "identified as a means of support" to clarify that identified as required by this section pertains to "means of support."
300.22(B)	ROP 3-81	Revised by adding "without an overall nonmetallic covering" after "MI Cable" to correlate with listing requirements.
300.22(B)	ROP 3-83	Revised by moving the last two sentences of the existing text into a new first paragraph and changing the word "wiring" to "wiring methods specified in this section" to provide clarity for proper application of this section.
300.22(C)(1)	ROP 3-84	Revised by adding "without an overall nonmetallic covering" after "MI Cable" to correlate with listing requirements.
300.22(C)(1)	ROP 3-86	Revised by adding language requiring that cable ties used in "other spaces for environmental air" be listed as having adequate fire-resistant and low smoke-producing characteristics. The Informational Note and mandatory text were also edited to conform with text throughout the <i>NEC</i> where dealing with low smoke and fire resistance characteristics.
Article 300 Part II	ROP 3-89	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
300.38	ROC 3-30	New section to specify that the interior of raceways shall be considered to be a wet location where the raceways are installed in wet locations above grade, and to require conductors to comply with 310.10(C) for wet locations.
300.45	ROC 9-10	Relocated requirement for "high-voltage" warning labels from 225.70(A)(1)(b).
Table 300.50	ROC 3-28	Revised the first row in the table to read: "Over 1000V through 22 kV" to correlate with the revised threshold from 600 to 1000 volts.

2014 NEC® Summary of Changes

300.50(A)(2)	ROP 3-96	Revised by changing the title of (A)(2) to “Industrial Establishments,” and recognizes the use of non-shielded single conductor cables with insulation types up to 2000 volts that are listed for direct burial. This revision requires that the installation must be performed by qualified persons. Existing (A)(2) has been changed to (A)(3).
Article 310		
310.2 and 310.60	ROP 6-5	Revised by removing explanatory material and relocating it to new Informational Note: “Thermal resistivity is the reciprocal of thermal conductivity and is designated Rho, which is expressed in the units °C-cm/W.” Deleted the <i>thermal resistivity</i> definition within the text in 310.60(A).
310.10 Informational Note	ROP 6-8	Revised by deleting the Informational Note which has been relocated to Section 310.104 via ROP 6-71.
310.10(F)	ROP 6-14	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
310.10(H)(6)	ROP 6-17	Revised by adding “or supply side bonding jumpers” to correlate with Section 250.102.
310.15(B)(3)(b)	ROC 6-14	Revised to clarify that spacing between raceways must be maintained.
310.15(B)(3)(c) and Table 310.15(B)(3)(c)	ROP 3-31	Revised by adding “cables” to the temperature adjustment factors required for rooftops and changing “conduit” to “raceway” to correlate with the table title.
Table 310.15(B)(3)(a)	ROP 3-40	Revised by adding “including spare conductors” and clarified that conductors subject to noncoincident loading are not subject to the adjustment factors prescribed by this table.
310.15(B)(3)(c) Exception	ROC 6-37	New exception that exempts conductors with thermoset insulation rated at 90°C or higher from this ampacity adjustment.
310.15(B)(3)(a)	ROC 6-33	Revised title to clarify that ampacity adjustment applies to conductors in raceways, cables and in other applications where no spacing exists between conductors.
Table 310.15(B)(3)(c) Informational Note	ROP 6-46	Revised to clarify the temperature “adders” are the measured temperature rise above the local climatic ambient temperatures due to sunlight heating.
310.15(B)(7)	ROC 6-52	Revised by deleting the table and replacing it with a provision for a .83 reduction in ampacity for dwelling services and feeder conductors. The reduction is the same as that permitted by former Table 310.15(B)(7), but presented in a user-friendly format. A new example is included in Annex D to describe how to apply the revised rule.

2014 NEC® Summary of Changes

310.15(C)	ROC 6-61	Revised by adding the units “one foot” and “micro ohms” to provide values necessary for performing the calculation prescribed by this section.
310.60(C)(1) Informational Note	ROC 6-62	New informational note: “Tables other than those listed contain the ampacity of cables with shields grounded at multiple points.”
310.104	ROP 6-70	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Table 310.104(A)	ROP 9-15h	Revised to include “switchgear” in the “application provisions” for both Type SIS and Type TBS building wire
310.2 and 310.60	ROP 6-5	Revised by removing explanatory material and relocating it to a new Informational Note: “Thermal resistivity is the reciprocal of thermal conductivity and is designated Rho, which is expressed in the units °C-cm/W.” Deleted the “thermal resistivity” definition within the text in 310.60(A).
Article 312		
312.5(C) Exception (g)	ROC 9-22	Revised to clarify that this condition does not imply that the cable sleeve covered in the exception is a complete system.
312.8(3)	ROP 9-26	Revised to require warning labels to meet requirements in new Section 110.21(B).
312.11(3)(A)	ROP 9-27	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 314		
314 Part IV Title	ROP 9-28	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
314.15	ROP 9-33	Revised by including outlet box hoods to be listed for use in wet locations.
314.15	ROC 9-26	Revised by including provisions for approved field installed drainage openings not larger than 6 mm (¼ in.).
314.16(B)(2)	ROP 9-37	Revised to provide a limitation that a clamp assembly be listed and marked for use with a specific nonmetallic box, and to provide guidance on box fill requirements that apply to such listed assemblies.
314.23(D)(2)	ROP 9-45	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.

2014 NEC® Summary of Changes

314.23(E)	ROP 9-47	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
314.23(F)	ROP 9-49	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
314.23(F) Exception No. 2 (f)	ROP 9-53	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
314.23(H)(2)	ROP 9-54	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
314.25	ROP 9-55	Revised to clarify that drywall screws are not permitted for use on box covers or other equipment fastened to the box and fastened either with machine screws or in accordance with manufacturer’s instructions.
314.25(B)	ROP 9-55a	Revised to correlate with revised Section 410.23, which establishes a 180-square inch limit below which protection between a luminaire canopy and a combustible surface is not required.
314.25(C)	ROP 9-56	Revised by including the term “identified” and deleting “designed for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
314.27(A)(1)	ROP 9-58	“Wall” replaced by “Vertical” to describe the application of this provision.
314.27(A)(2)	ROP 9-62	Revised to require that the luminaire weight to be supported must be marked on the interior of the box.
314.27(C)	ROP 9-63	Revised to include two family dwellings under the scope of this requirement.
314.28(A)(3)	ROC 9-32	Revised to clarify the conductor fill requirement for boxes and conduit bodies, specifically covering right-angle conduit bodies with each entry at a 45° angle to its long axis.
314.30(A)	ROP 9-68	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
314.70(A)	ROP 9-70	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.

2014 NEC® Summary of Changes

314.70(B)	ROP 9-71	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
314.70(C)	ROP 9-72	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 324		
324.2	ROC 7-3	New Informational Note supporting the definition of <i>FCC System</i> that describes the various components used in a typical system installation.
324.41	ROP 7-23	Revised the requirement on maximum carpet square size to recognize standard SI unit measurement of 1.0 m ² in addition to carpet squares sized 36 in. ² .
Article 326		
326.10(3)	ROP 7-26	Revised for consistency with terms associated with underground service conductors that are within the scope of the <i>Code</i> .
Article 330		
330.10(A)(11)	ROP 7-26a, ROP 7-27	Revised for consistency with MC cable product standards, and to extend the requirement for a corrosion-resistant jacket over the metal covering to all conditions where MC cable is used in wet locations.
330.30(B)	ROC 7-5	New permissive provision for 250 kcmil and larger cable constructions to be supported at intervals as great as 10 feet in vertical installations.
330.30(D)(3)	ROP 7-31	New condition permitting an unsupported 3-foot length of interlocking armor Type MC cable, to provide a flexible connection to accommodate equipment vibration or movement.
330.12	ROP 7-34	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 334		
334.10	ROP 7-37	Revised to clearly identify that all permitted uses for Type NM cable are acceptable unless specifically prohibited under any of the conditions specified in 334.12.
334.40(B)	ROP 7-49, ROP 7-50, ROP 7-51	Revised to specify that concealed interconnection devices are permitted only for repair of an existing installation of Type NM cable. The term “tap” has been revised to “interconnector” to clearly reflect the splicing function of these listed devices.

2014 NEC® Summary of Changes

Article 338		
338.10(B)(4)(b)	ROC 7-12	Revised so that the ampacity selection for Type USE cable used as an underground feeder need not be limited to the 60°C column in the applicable table from Article 310.
Article 342		
344.2	ROP 8-47	Revised the definition of <i>rigid metal conduit</i> (RMC) by removing the permitted construction materials and relocating them to new Section 344.100.
344.30	ROP 8-49	Revised for usability by restructuring the existing paragraph into a list format.
344.100	ROP 8-52a, ROC 8-9	New section for permitted construction materials for rigid metallic conduit.
Article 348		
Table 348.22	ROP 8-53	Revised by adding “FMC” to the description for flexible metal conduit.
348.30(A) Exception No. 4	ROP 8-54	Revised to clarify that flexible metal conduit fittings are permitted as a support means for the purpose of applying the exception.
Article 350		
350.30(A) Exception No. 4	ROP 8-57	Revised to clarify that liquidtight flexible metal conduit fittings are permitted as a support means for the purpose of applying the exception.
350.42	ROP 8-58	Revised to permit straight LFMC fittings for direct burial where marked.
350.42	ROC 8-13	Revised to specify that only fittings listed for the use with LFMC can be used, and to permit straight LFMC fittings for direct burial where marked.
Article 352		
352.2	ROP 8-63	Revised by replacing the term “conduit” with “raceway” to correlate with the definition of <i>raceway</i> in Article 100.
352.24	ROP 8-69	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
Article 354		
354.2	ROP 8-73	Revised by replacing the term “conduit” with “raceway” to correlate with the definition of <i>raceway</i> in Article 100.
Article 355		
355.2	ROP 8-75	Revised by replacing the term “conduit” with “raceway” to correlate with the definition of <i>raceway</i> in Article 100.

2014 NEC® Summary of Changes

355.24	ROP 8-77	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
Article 356		
356.2	ROP 8-80	Revised by replacing the term “conduit” with “raceway” to correlate with the definition of <i>raceway</i> in Article 100.
356.12(4)	ROP 8-81a	Revised by removing the restriction on the use of LFNC for over 600-volt installations.
356.30(4)	ROP8-83a	Revised to clarify that LFNC-B fittings are permitted as a support means for the purpose of applying the exception.
356.60	ROP 8-84	Revised to harmonize with the provisions in Article 250.
Article 366		
366.1, 366.10, 366.22, 366.23, 366.30, and 366.60	ROP 8-96	Revised by replacing “sheet metal auxiliary gutter” with “metallic auxiliary gutter” to correlate with the definition in 366.2.
366.2	ROC 8-28a	Revised the term “metal-enclosed switchgear” to “switchgear” for correlation with the revision made to the defined term in Article 100.
Article 368		
368.2	ROP 8-105	Revised by including the term “raceway” to clarify that a busway is a raceway, and to correlate with the definition of <i>raceway</i> in Article 100.
368.12(E)	ROP 8-106	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
Article 370		
Article 370	ROP 8-109a	Revised by reformatting the entire article in accordance with the revised Chapter 3 format. Section 370.2 has been revised to clarify that cablebus is a support system and is not to be considered a raceway system.
Article 374		
374.2	ROP 8-119	Revised by replacing the term “enclosures” with “enclosed channel” to clearly describe a cellular metal floor raceway.
374.11	ROC 8-41	Revised to clarify the types of “nonmetallic conduit” by including rigid polyvinyl chloride conduit and reinforced thermosetting resin conduit.
Article 376		
376.2	ROP 8-132	Revised by replacing the term “wireway” with “raceway” to correlate with the definition of <i>raceway</i> in Article 100.
376.22(B)	ROP 8-137	Revised to clarify that the 30 conductor maximum before application of correction factors applies at any cross section of the wireway.

2014 NEC® Summary of Changes

376.56(B)(1)	ROC 8-43	Revised to require that power distribution blocks installed on the line side of the service equipment be listed for the purpose.
376.56(B)(5)	ROC 8-42	New requirement for dressing conductors in a wireway order to provide unobstructed access to power distribution blocks; correlates with 314.28(E)(5)
Article 378		
378.2	ROP 8-144	Revised by replacing the term “wireway” with “raceway” to correlate with the definition of <i>raceway</i> in Article 100.
Article 380		
380.22	ROP 8-145	Revised by adding the phrase “as applicable,” allowing the user to apply either “(A)” or “(B)” or both, since both may be applicable.
Article 384		
384.30(B)	ROP 8-148	Revised by adding “identified” and deleting “approved appropriate” and “designed for the purpose,” to provide consistency with the definition of <i>identified</i> in Article 100.
Article 386		
386.30	ROP 8-153	Revised to specify that associated fittings must be supported in accordance with the manufacturer’s installation instructions.
386.120	ROP 8-154	New section requiring each length of surface metal raceway to be identified and marked according to 110.21 (manufacturer’s marking requirements).
Article 388		
388.3	ROP 8-156	Revised to specify that associated fittings must be supported in accordance with the manufacturer’s installation instructions.
388.12	ROP 8-157	New section requiring each length of surface nonmetallic raceways to be identified and marked according to 110.21 (manufacturer’s marking requirements).
Article 392		
Table 392.10(A)	ROP 8-158a	Revised table to clarify the acceptable wiring methods used in a cable tray.
392.18(H)	ROP 8-180	Revised to require that danger marking(s) or labels meet requirements in new Section 110.21(B).
392.18(H), Exception	ROP 8-182	New exception for industrial establishments. The exception applies to cable trays that are “not accessible (as applied to equipment)” and requires markings to be applied where necessary to assure safe maintenance and operation.

2014 NEC® Summary of Changes

392.20(A) and (B)	ROC 8-53	Revised by changing “cables rated” to “cables operating at” to clarify that the application of this requirement is based on the operating voltage of circuits and not on the insulation rating of cables.
Article 393	ROP 18-10a	New article covering an electrical distribution system that employs a traditional suspended ceiling support system with an integrated electrical power distribution busbar to supply equipment supported by or located above the ceiling system. These electrical distribution systems are limited to 30 volts ac or 60 volts dc and are limited to the output of a Class 2 power supply, and they are required to be listed.
Article 399		
Article 399 Title	ROP 7-82	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
399.1	ROP 7-84	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
399.2	ROP 7-85	Revised to indicate that the conductors covered in Article 399 are installed in <i>free air</i> on support structures (such as poles) in a manner similar to those employed by electric utility companies.
399.10	ROP 7-86	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
399.10(1)	ROP 7-87	Revised to indicate that the conductors covered in Article 399 are installed in <i>free air</i> on support structures (such as poles) in a manner similar to those employed by electric utility companies.
399.30(B)	ROP 7-90	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Chapter 4 Summary of Changes in 2014 NEC®		
Article 400		
400.4	ROP 6-86	Revised to allow cords and cables other than those listed in Table 400.4, but only by special permission.
Table 400.4	ROP 6-77	Revised by adding 15 AWG to various cord types in Table 400.4.
Table 400.4	ROP 6-78	Revised by changing Types SPT-1, SPT-1W, SPT-2, SPT-2W, and SPT-3 to “All thermoplastic parallel cord” to make the format of the names consistent.
Table 400.4	ROP 6-79	Revised by specifying Types EV, EVJ, EVE, EVJE, EVT, and EVJT outer covering material be oil resistant.

2014 NEC® Summary of Changes

Table 400.4	ROP 6-81	Revised by specifying flexible stage and lighting power cable Type SC insulation material to be “thermoset.”
Table 400.4	ROP 6-84	Revised to clearly specify that types SO and SOW are available in sizes greater than 16 AWG, and that types SOO and SOOW are available in sizes less than 14 AWG.
Table 400.4 and Table 400.5(A)(1)	ROP 6-85	Revised by adding types HSJOW and HSJOOW to Table 400.4 and Table 400.5(A)(1).
Table 400.4	ROP 6-89	Revised by changing AWG sizes to accurately reflect conductor sizes for flexible cords used in the industry.
Table 400.4 Note 3	ROP 6-91	Revised by adding types SPT-1W and SPT-2W to clarify that these types do not have individual conductors twisted together.
Table 400.4 Note 10	ROP 6-93	Revised by adding types SEW, SEOW, SEOOW, SOW, SOOW, STW, STOW, and STOOW to the list.
400.5(A)	ROP 6-93a	Revised by adding a reference to Table 400.5(A)(1) and a requirement to use the 90°C column of Table 310.15(B)(2)(a) for temperature correction factors for 105°C cords and cables.
Table 400.5(A)(1)	ROP 6-96	Revised by adding conductor sizes 9, 11, and 13 AWG.
400.6(A)	ROP 6-100	Revised by requiring markings on tags, cords, and cables to include the maximum operating temperature of the flexible cord or cable.
400.7(A)(11)	ROC 6-71	New list item permitting flexible cords and cables between an existing receptacle outlet and an inlet, where the inlet provides power to an additional single receptacle outlet. The wiring interconnecting the inlet to the single receptacle outlet must be a Chapter 3 wiring method. The inlet, receptacle outlet, and Chapter 3 wiring method, including the flexible cord and fittings, must be a listed assembly specific for this application.
400.10 Informational Note	ROP 6-104	Revised by changing “fittings designed for the purpose” to “using support or strain relief fittings” to clarify the intended purpose.
400.23	ROP 6-105	Revised to permit cords or cables consisting of integral insulation and jacket without a non-integral grounding conductor to be green.
400.30	ROP 6-106	Revised to specify that Part III is applicable to single and multiconductor cable.
400.31(B)	ROC 6-76	Revised to specify that equipment grounding conductor(s) are required in cables with three or more conductors.
Article 404		
404.1	ROP 9-74	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the NEC to recognize that commonly used alternative energy systems operate at over 600 volts.
404.2(C)	ROC 9-44	Revised into a list format to clearly state the conditions where a grounded conductor is not required to be provided at a switch location.

2014 NEC® Summary of Changes

404.6(C) Exception	ROP 9-94	Revised to require a warning sign or label to meet the requirements of new Section 110.21(B).
404.8(C)	ROC 9-47	Revised to clarify that a multipole snap switch is not permitted to be fed from more than a single circuit unless it is listed and marked as a two-circuit or three-circuit switch.
404.10(B)	ROC 9-52	Revised to clarify that drywall screws are not permitted to be used to fasten snap switches to boxes.
404.13	ROP 9-99	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
404.16	ROP 9-103	Revised by changing the title to read "Knife Switches Rated 600 to 1000 Volts" and changing 600 volts to "600 to 1000 volts" in the text, to correlate with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 406		
406.3(E)	ROP 18-15	New requirement for field marking of 125 volt, 15- and 20-ampere receptacles that are controlled by an energy management system, timer, or some other automatic means. This marking must be made using the standard symbol shown in Figure 406.3(E).
406.4(D)	ROP 18-18	Revised to require ready access to GFCI and AFCI receptacles that are installed to replace existing receptacles.
406.4(D)(3)	ROC 18-15	Revised with a new exception clarifying that GFCI protection afforded by an upstream device is permitted for replacement receptacle(s).
406.5	ROP 18-28, ROP 18-30, ROP 18-31	Revised to specify the acceptable screws that can be used as the means to attach a receptacle to an outlet box, and by replacing the term "designed for the purpose" with "identified."
406.5(E)	ROP 18-32, ROP 18-34	Revised to apply to receptacles installed in countertops, regardless of the occupancy type. Allowance included for listed "receptacle assemblies for countertop applications."
406.5(F)	ROP 18-34	New requirement providing the conditions under which receptacles are permitted to be installed in seating areas and similar horizontal surfaces.
406.9(B)	ROP 18-37, ROP 18-38	Revised to require receptacle outlet box covers to be listed for "extra duty" regardless of how the box is mounted. The requirement now applies to all occupancy types.
406.12	ROP 18-41a	Revised to include all occupancy types where tamper-resistant receptacles are required. The exception is no longer limited to only dwelling unit receptacles.

2014 NEC® Summary of Changes

406.15	ROP 18-53	New requirement prohibiting control of receptacles with a dimmer switch unless the receptacle and dimmer combination meets specific listing and configuration provisions.
Article 408		
408.1	ROP 9-104a	Revised by including “switchboards” to the title and scope of Article 408, and revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
408.2 and 408.3	ROP 103a, ROC 9-55	Revised to include switchgear in Section 408.2, requiring compliance with Article 408 and other Articles as applicable. Revised 408.3(E) by placing bus arrangements in a list format and incorporating a requirement for field-marking the bus arrangements for dc systems.
408.3(F)(1)(7) (2)	ROP 9-112	Revised to require a warning sign or label to meet the requirements of new Section 110.21(B).
408.4(B)	ROP 9-116	Revised to recognize that switchboards and panelboards may have multiple sources of power, so they must be marked to indicate where the power originates.
408.38	ROP 9-125	Revised by including the term “identified” and deleting “designed for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
408.55	ROP 9-130	New subsection to provide requirements for back-wire bending space.
Table 408.56	ROP 9-132	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Table 408.56	ROP 9-133	Revised the leftmost column heading, the text “ac or dc” is added to the original, “voltage” to clarify the table is applicable to either ac or dc voltages.
408.58	ROP 9-134	Revised by adding “ac phases or dc buses” to clarify the marking requirements for panelboards.
Article 409		
409.1	ROP 11-10	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
409.1 & 409.110(4) Informational Note	ROP 11-11	Revised by updating the edition of the referenced standard.

2014 NEC® Summary of Changes

409.20	ROP 11-13	Revised by removing the term “resistance,” the result is that induction heating loads will be required to be included when calculating the ampacity of conductors.
Article 410		
410.6	ROP 18-59	Revised to include <i>retrofit kits</i> in the listing requirement.
410.10(F)	ROP 18-66	New requirement providing the minimum clearance between the top of luminaires and the bottom surface of metal-corrugated sheet roof decking.
410.23	ROP 18-69	Revised to establish a specific threshold at which a combustible wall or ceiling surface behind a luminaire is required to be covered with a noncombustible material.
410.130(G)(1) Exception No. 4	ROC 18-31	Deleted the exception permitting luminaires installed within industrial occupancies to be installed without an individual disconnecting means.
410.141(B)	ROP 18-83	Revised for correlation with new 110.25 covering requirements for lockable disconnecting means.
410.151(B)	ROC 18-38	Revised to state that the load calculation in 220.43 is for determining feeder and service loads and does not limit the amount of lighting track supplied by a branch circuit, nor does it limit the number of luminaires connected to a single track.
Article 411		
411.1	ROP 18-85	Revised to recognize ac and dc Class 2 power source limitations specified in Chapter 9, Tables 11(A) and 11(B).
411.3	ROC 18-39	Revised to recognize ac and dc Class 2 power source limitations specified in Chapter 9, Tables 11(A) and 11(B).
411.4	ROP 18-85	Listing requirement added for Class 2 power sources and equipment. Covered here, the power supply provision was deleted from the component list in 411.4 (B).
411.6	ROP 18-35	Revised to limit application of this requirement to only systems and equipment covered by Article 411.
Article 422		
422.5	ROP 17-19	New requirement for accessibility to devices providing GFCI protection where such protection is specified by an Article 422 requirement.
422.11(F)(3)	ROP 17-21	Revised to expand the types of water heating equipment covered by the requirement.
422.16(B)(1)	ROP 17-23	Revised to expand the use of cord- and plug-connected “in-sink” waste disposers; no longer restricted to only those areas covered by the definition of <i>kitchen</i> .
422.19	ROC 17-10	New requirement covering the minimum conductor volume of outlet boxes and canopies at outlets supplying ceiling-suspended (paddle) fans.

2014 NEC® Summary of Changes

422.20	ROP 17-30	New requirement to provide cover on outlet boxes unless a paddle fan canopy is in place.
422.21	ROP 17-30	New requirement on protecting exposed combustible material between the edge of an outlet box and the edge of a ceiling-suspended (paddle) fan canopy.
422.23	ROP 17-31	New requirement for GFCI protection of publically accessed tire inflation and vacuum machines.
422.31(B)	ROP 17-33	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
422.31(C)	ROC 17-12	Revised to require a disconnecting means within sight of all appliances with motors rated more than 1/8 hp unless the appliance has a unit switch complying with 422.34.
422.49	ROC 17-14	Revised to require GFCI protection for high-pressure spray washing equipment supplied by three-phase, 208Y/120-volt circuits rated 60 amperes or less.
422.51	ROP 17-38	Revised to also include vending machines that are not cord-and plug-connected.
Article 424		
424.19	ROP 17-49	Revised to apply the requirement for grouping and marking of supply circuit disconnecting means to electric space heating equipment supplied by more than one feeder or branch circuit.
424.19(A)(1)(2)	ROP 17-48	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
424.19(B)(1)	ROP 17-50	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
424.66	ROC 17-19	New requirement covering minimum working space for enclosures associated with electric duct heaters located in the space above a ceiling that is accessed through a ceiling panel or an access panel.
424.86(5)	ROP 17-57	Revised to require field applied markings and labels to comply with new provisions in 110.21 covering field marking of equipment.
Article 426		
426.50	ROC 17-21	Revised to specify that the disconnecting means is to be “capable of being locked” in the open (off) position.
426.51(A)	ROP 17-70	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
426.51(D)(3)	ROP 17-71	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.

2014 NEC® Summary of Changes

Article 427		
427.55(A)	ROC 17-24, ROP 17-25	Revised to specify that the disconnecting means is to be “capable of being locked” in the open (off) position and for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.h
Article 430		
Article 430, Parts I through X	ROP 11-20	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Table 430.5	ROP 11-26	Revised by adding a reference to Article 506 for Zone 20, 21, and 22 locations.
430.22(G)	ROP 11-29a	Revised to include Class 10A overload relays and to clarify that conductor selection is based on the full-load current rating of the motor, as determined by 430.6(A)(1).
430.21, 430.31, 430.40, 430.51, 430.71, 430.101, 430.102(B)(2), 430.120, 430.126(A), and 430.245(A)	ROP 11-29b	Revised to remove, modify or move several Informational Notes in Article 430. The Informational Notes removed were determined to be no longer necessary. Several notes were moved so that they immediately follow the text to which they pertain.
430.32(C) Informational Note	ROP 11-33a	Revised to include Class 10A overload relays to clarify that overload relays certified as Class 10A are also in conformity with the content of the Informational Note.
430.52(C)(5)	ROP 11-35a	Revised to clarify that the fuses addressed in this section are "semiconductor fuses" intended to protect bypass contactors, isolation contactors, and conductors in a solid-state motor control system.
430.53(C)(4)	ROP 11-36a	Revised by replacing “supply” with “branch circuit” to clearly indicate which specific conductors are being referenced.
430.53(D)	ROP 11-36b	Revised to include “from the point of the tap” to clarify where the tap measurement is referenced.
430.102 Exception No. 1	ROP 11-45	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
430.102(A) Exception No. 3(b)	ROP 11-48	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
430.102(B) Exception to (1) and (2)	ROP 11-49	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
430.113 Exception No. 1	ROP 11-54	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
430.130 and 430.131	ROC 11-21	New sections to address special requirements of the adjustable speed drive controller overcurrent protection functions.
430, Part XI	ROP 11-61	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.

2014 NEC® Summary of Changes

430.227	ROP 11-64	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
430.233	ROP 11-68	Revised to lower the voltage threshold from 150 volts to 50 volts, which will enhance worker safety.
Article 440		
Table 440.3(D)	ROP 11-77	Revised by adding a reference to Article 506 for Zone 20, 21, and 22 locations.
440.14 Exception No. 1	ROP 11-86	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
Article 445		
445.11	ROP 13-10	Revised to require marking of generators to indicate whether the neutral conductor is bonded to the frame of the generator.
445.11	ROC 13-2	Revised to specify that additional markings are required on stationary and portable generators rated more than 15 kW.
445.16	ROP 13-13	Revised to specify that the requirement applies only to field-installed generator conductors.
445.17	ROP 13-14	Revised by adding a new exception to exclude terminal housings for generators rated over 600 volts from the sizing requirements.
445.18	ROC 13-18a	Revised to exclude cord- and plug-connected portable generators from the disconnecting means requirement and to specify the conditions under which engine shut-down can be used in lieu of an electrical disconnecting means.
445.20	ROC 13-16	New provision requiring portable generators rated 15 kW or less either provide GFCI protection of 15- and 20-ampere, 125-volt receptacles integral to the generator or, if not GFCI protected, that these receptacles be disabled while the generator's 125/250-volt locking-type receptacle is in use.
Article 450		
Article 450	ROP 9-135	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Table 450.3(A) Note 1	ROP 9-138	Revised to allow the next standard ampere rating or setting that a manufacturer provides as a product offering for fuses or circuit breakers over 1000 volts.
450.5	ROC 9-72	New exception to allow an autotransformer to be installed on the load side of a system grounding connection provided it has a wye configuration on its line side and a zigzag configuration on its load side that does not permit neutral or ground-fault current to return over the line connection. The exception does not apply to a connection made from a high-resistance grounded system applied in accordance with 250.36.

2014 NEC® Summary of Changes

450.10(A)	ROP 9-144	New provision incorporating specific requirements for installing an equipment grounding terminal bar in transformer enclosures but not on the vent screen portion.
450.11(A)	ROP 9-145	Revised into a list format. List item (5) now requires marking for transformers that can be reverse wired.
450.11(B)	ROP 9-145	New requirement covering “reverse wiring” of transformers in accordance with manufacturer’s instructions.
450.14	ROP 9-146	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
450.21 Informational Note	ROP 9-150	Revised by updating the edition of the ASTM Standard and deleting the reference to NFPA 251.
450.42 Informational Note	ROP 9-152	Revised by updating the edition of the ASTM Standard and deleting the reference to NFPA 251.
450.45(E) Informational Note	ROP 9-152a	Revised by updating the edition of the referenced standard.
Article 480		
480.1 Informational Note	ROP 13-24	New Informational Note that lists standards related to the design, installation, maintenance, and use of stationary batteries.
480.2 Cell	ROP 13-26	New definition for term used in Article 480.
480.2 Container	ROP 13-27	New definition for term used in Article 480. “Container replaces the term “jar” in 480.7(B) & (C).
480.2 Electrolyte	ROP 13-28	New definition for this term used in Article 480.
480.2 Intercell Connector	ROP 13-29	New definition for this term used in Article 480.
480.2 Intertier Connector	ROP 13-30	New definition for this term used in Article 480.
480.2 Nominal Battery Voltage	ROP 13-31	Revised definition to reflect unique characteristics of battery voltages when fully charged, discharged, or while being charged.
480.2 Terminal	ROP 13-32	New definition for this term used in Article 480.
480.3	ROP 13-22	New requirements covering the proper termination of conductors at batteries and cells.
480.4	ROP 13-33	Revised to specify that the nominal battery voltage is used as the benchmark voltage at which overcurrent protection is required.
480.5	ROC 13-21	Revised to specify that the nominal battery voltage is used as the benchmark voltage at which a disconnecting means for battery supply conductors is required. Also revised to include requirements covering remote actuation of disconnecting means, disconnecting means for dc busways, and marking maximum system short-circuit current on battery system disconnecting means.
480.8(C)	ROP 13-38	New requirement covering ready access to battery terminals.

2014 NEC® Summary of Changes

480.9(A)	ROC 13-23	Revised to specify that the level of ventilation must be appropriate for the battery technology and to include two Informational Notes that provide additional guidance on determining the proper level of ventilation.
480.9(C)	ROP 13-42	Revised to specify how working space is determined around battery cabinets and trays as well as around battery racks, and to establish the minimum clearance from battery racks and stands to the adjacent wall or structures where access for maintenance is not required.
480.9(C) Informational Note	ROC 13-25	New Informational Note with guidance on designing extra working space into areas containing batteries to facilitate moving batteries in and out of their racks.
480.9(D)	ROP 13-44	New requirement and Informational Note on determining the minimum working space for top-terminal batteries that are installed on tiered racks.
480.9(E)	ROP 13-45	New requirement covering the installation of personnel doors to provide entrance to and egress from battery rooms.
480.9(F)	ROC 13-28	New requirement prohibiting gas piping in battery rooms.
480.9(G)	ROC 13-29	New requirement covering illumination of the working space about battery systems.
Article 490		
490.21(B)(7)	ROP 9-152b	Revised the term “metal-enclosed switchgear” to “switchgear” for correlation with the revision made to the defined term in Article 100.
Article 490	ROP 9-153	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
490.21(B)(6)	ROP 9-157	Revised to include signage requirements: “DANGER - DISCONNECT CIRCUIT BEFORE REPLACING FUSES” and to require that signage comply with new Section 110.21(B).
490.21(B)(6) Exception	ROP 9-158	Revised by including the term “identified” and deleting “designed for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
490.22	ROP 9-162	Revised by including the term “identified” and deleting “designed for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
490.22	ROP 9-164	Revised to require a warning sign or label to meet requirements in new Section 110.21(B).
490.25	ROP 9-165	Revised to include signage requirements: “DANGER — CONTACTS ON EITHER SIDE OF THIS DEVICE MAY BE ENERGIZED BY BACKFEED” and to require that signage comply with new Section 110.21(B).

2014 NEC® Summary of Changes

490.35(A)	ROP 9-171	Revised to include signage requirements: “DANGER — HIGH VOLTAGE — KEEP OUT” and to require that signage comply with new Section 110.21(B).
490.44(C)	ROP 9-175	Revised for correlation with the new general requirement for <i>lockable disconnecting means</i> in 110.25.
490.46	ROP 9-176	Revised for correlation with the new general requirement for <i>lockable disconnecting means</i> in 110.25.
490.47	ROP 9-178	Revised by including additional warning sign requirements where the compartment door or panel gives access to parts that can only be de-energized and visibly isolated by the serving utility.
490.48	ROP 9-179, ROC 9-9	New section that includes requirements for substation design by a qualified licensed professional, and also includes engineer, documentation, and diagram requirements.
490.53	ROP 9-180	Revised to require a warning sign or label to meet requirements in new 110.21(B).
490.55	ROP 9-181	Revised to require a warning sign or label to meet requirements in new 110.21(B).
Chapter 5 Summary of Changes in 2014 NEC®		
Article 500		
500.2	ROC 14-1	Revised to include definitions from Articles 500 through 516 that are used in two or more of these articles. This action results in definitions being relocated from Articles 504 through 516 to 500.2.
500.2 Combustible Dust	ROC 14-6	Revised the dust particle size threshold to correlate with other national and international area classification standards.
500.2 Cord Connector	ROP 14-11b	New definition to provide consistency in applying requirements covering cord connectors in Articles 500 through 516.
500.5(A)	ROP 14-15a	Revised to indicate that pyrophoric materials are not covered by the requirements of Article 500.
500.8(C)(4)	ROP 14-24	Revised to specify that temperature class and operating parameters are based on the equipment being covered by a blanket of dust.
500.8(D)(1)	ROP 14-25 & 14-26	“Ignition temperature” changed to “autoignition temperature” in the requirement and in the informational note to correlate with terminology in other standards.
500.8(E)(1)	ROP 14-27	Revised to require listed conduit fittings and cable fittings.
Article 501		
501.10(A)(1)(e)	ROP 14-32	New requirement on installing optical fiber cables in Class I, Division 1 locations.

2014 NEC® Summary of Changes

501.10(A)(2)	ROP 14-35, ROC 14-11	Revised to correlate with the provisions for terminating flexible cords specified in 501.140 and to add a new provision allowing the use of Type TC-ER-HL cable for flexible connections in Class I, Division 1 locations.
501.10(A)(3) Informational Note	ROP 14-31	New Informational Note providing reference to a standard covering testing and marking of cable and flexible cord connectors used in hazardous (classified) locations.
501.10(B)(1)(5)	ROP 14-36	Revised to include Type TC-ER cable.
501.10(B)(1)(7)	ROP 14-36	New requirement on installing optical fiber cables in Class I, Division 2 locations.
501.10(B)(2)(3)	ROP 14-38	New provision permitting the use of interlocked armor Type MC cable for flexible connections.
501.10(B)(2)(7)	ROP 14-37a	New provision permitting certain types of elevator cables for use with elevators installed in Class I, Division 2 locations.
501.10(B)(3)(4) Informational Note	ROP 14-31	New Informational Note providing reference to a standard covering testing and marking of cable and flexible cord connectors used in hazardous (classified) locations.
501.15(B)(2) Informational Note	ROP 14-46	New Informational Note identifying the standard with performance parameters for seals that are not explosionproof.
501.15(C)(6)	ROP 14-48	Revised to include optical fiber cables.
501.15(D)(2)	ROP 14-49	Revised to include optical fiber cables.
501.15(E)(1)	ROP 14-50, ROP 14-51	Revised to permit the use of explosionproof cable seals and to include optical fiber cables.
501.17	14-54	New provision covering the use of “add-on secondary seals.” Revised the existing Informational Note to recognize the use of secondary seals.
501.30	ROC 14-19	Revised to state that the grounding and bonding requirements apply regardless of the system or circuit voltage. This correlates with provisions on bonding in hazardous (classified) locations covered in 250.100.
501.105(B)(6)(1)	ROP 14-62	Revised by adding an exception for nonincendive field wiring.
501.125(B) Informational Note No. 4	ROP 14-66	New Informational Note identifying hazards associated with the operation of reciprocating engine-driven equipment in Class I, Division 2 locations.
501.130(B)(4) Exception	ROC 14-23	Revised to permit portable luminaires to be used in Class I, Division 2 locations provided they comply with 501.130(B)(1) and 501.130(B)(2).
501.140(A)(1)	ROP 14-75	Revised to reinforce that this requirement is applicable to cord- and plug-connected portable equipment.
501.140(B)(4)	ROP 14-76	Revised to permit a listed cord connector used in conjunction with a seal fitting listed for the location.
501.145	ROP 14-77	Revised to prevent attachment plugs (cord caps) from becoming energized unless plugged into a receptacle that is part of the premises wiring system.

2014 NEC® Summary of Changes

Article 502		
502.10(A)(1)(4)	ROP 14-83	Added a new requirement on installing optical fiber cables in Class II, Division 1 locations.
502.10(A)(2)(5)	ROP 14-84	Revised to correlate with the provisions for terminating flexible cords specified in 502.140.
502.10(A)(2)(6)	ROP 14-88a	New provision permitting certain type of elevator cables for use with elevators installed in Class II, Divisions 1 and 2 locations.
502.10(A)(3)	ROP 14-80	Relocated the requirement for the installation and performance of boxes and fittings installed in Class II, Division 1 locations. The Informational Note provides reference to a standard covering testing and marking of cable and flexible cord connectors used in hazardous (classified) locations.
502.10(B)(1)(8) Exception	ROP 14-88	New provision on installing optical fiber cables in Class II, Division 2 locations.
502.30(A) Exception	ROC 14-28	Revised to state that the grounding and bonding requirements apply regardless of the system or circuit voltage. This correlates with provisions on bonding in hazardous (classified) locations covered in 250.100.
502.130(A)(1)	ROP 14-95	Revised to specify that luminaire marking must provide the type of lamp in addition to its maximum wattage.
502.140	ROP 14-96	Revised to provide more detailed requirements on the permitted uses and installation practices where flexible cords used to connect equipment in Class II, Division 1 and 2 locations.
Article 503		
503.5	14-98	Revised to specify that temperature class and operating parameters are based on the equipment being covered by a blanket of fibers/flyings.
503.10(A)(1)(4)	ROP 14-106	Revised to include Type TC-ER cable.
503.10(A)(3)(6)	ROP 14-105a	New provision permitting certain type of elevator cables for use with elevators installed in Class III, Divisions 1 and 2 locations.
503.30(A)	ROC 14-31	Revised to state that the grounding and bonding requirements apply regardless of the system or circuit voltage. This correlates with provisions on bonding in hazardous (classified) locations covered in 250.100.
Article 504		
504.2 Associated Apparatus	ROP 14-112	Revised to correlate with product safety standards.
504.10(C)	ROP 14-112	Revised to permit both intrinsically safe apparatus and associated apparatus to be installed in general purpose enclosures.
504.30(A)(2)(3)	ROP 14-112	Revised to provide a specific distance between the insulating partition and the wall of an enclosure.
504.30(C)	ROP 14-112	New provision providing minimum clearance between uninsulated parts of field connections and grounded metal or other conducting parts.

2014 NEC® Summary of Changes

Article 505		
505.5(A)	ROP 14-136a	Revised to indicate that pyrophoric materials are not covered by the requirements of Article 505.
505.6 Informational Note No. 3	ROP 14-139	Revised to provide guidance on marking provisions specified in current product safety standards, and guidance on how to safely assimilate markings on older products with current marking requirements.
505.7(F)	ROC 14-40	New requirement on the maximum short-circuit current for equipment in Zone 1 locations protected using type of protection “e.”
Table 505.9(C)(2)(4)	ROP 14-150	Revised to add method of protection type “mc.”
505.9(C)(2)(5)	ROP 14-152a	Revised to permit equipment to be marked for a specific gas or vapor.
505.9(C)(2) Exception No. 3	ROP 14-152	New exemption from temperature marking for cable termination fittings.
505.9(D)	ROP 14-153	“Ignition temperature” changed to “autoignition temperature” in the requirement and in the informational note to correlate with terminology in other standards.
505.9(E)(1)	ROP 14-155	Revised to require listed conduit fittings and cable fittings.
505.15(B)(1)(g)	ROC 14-43	New requirement covering the use of Type TC-ER-HL cable in Class I, Zone 1 locations.
505.15(B)(1)(h)	ROP 14-160	New provision covering the permitted wiring methods in Class I, Zone 1 locations for intrinsic safety type of protection “ib”.
505.15(B)(1)(i)	ROP 14-163	New provision on installing optical fiber cables in Class I, Zone 1 locations.
505.15(C)(1)(b)	ROP 14-168	Revised to also permit the use of Type TC-ER cable in Class I, Zone 2 locations.
505.15(C)(1)(h)	ROP 14-169	New provision on installing optical fiber cables in Class I, Zone 2 locations.
505.15(C)(2) Exception	ROP 14-169a	New exception permitting certain types of elevator cables for use with elevators installed in Class I, Zone 2 locations.
505.16(B)(5)	ROP 14-172	Revised to also cover sealing of optical fiber cables.
505.16(B)(6)	ROP 14-173	Revised to also cover sealing of optical fiber cables.
505.16(C)(2)(a)	ROP 14-174	Revised to also cover sealing of optical fiber cables.
505.16(D)(5)	ROP 14-176	Revised to also cover sealing of optical fiber cables.
505.17(A)	ROP 14-178	Revised to provide specific reference to wiring methods for Class I, Zone 2 locations.
505.17(B)	ROP 14-180	New provision covering cord- and plug-connected instrumentation equipment in Class I, Zone 2 locations.
505.20(C) Exception No.4, Informational Note No.3	ROP 14-181, ROP 14-182	New Informational Note providing guidance to application standard for motors installed in Class I, Division 2 and Zone 2 locations.

2014 NEC® Summary of Changes

505.20(D)	ROP 14-183	New requirement covering the permitted applications of equipment based on its material group marking.
505.22 Informational Note	ROP 14-185	New Informational Note identifying hazards associated with the operation of reciprocating engine-driven equipment in Class I, Zone 2 locations.
505.25	ROC 14-48	Revised to state that the grounding and bonding requirements apply regardless of the system or circuit voltage. This correlates with provisions on bonding in hazardous (classified) locations covered in 250.100.
505.26(4)	ROP 14-189	New requirement covering the use of “add-on secondary seals.” Revised the existing Informational Note to recognize the use of secondary seals.
Article 506		
506.1	ROP 14-190a	Revised to not restrict Article 506 requirements from covering metal dusts.
506.2 Combustible Dust	ROC 14-1	Revised the dust particle size threshold to correlate with other national and international area classification standards.
506.2 Protection by Encapsulation “m”	ROP 14-196	Revised to correlate with changes to product safety standards that expand application of this type of protection.
506.2 Protection by Enclosure “t”	ROP 14-198	Revised to correlate with changes to product safety standards that expand application of this type of protection.
506.2 Protection by Intrinsic Safety “i”	ROP 14-197	Revised to correlate with changes to product safety standards that expand application of this type of protection.
506.3	ROP 14-199	New provision requiring compliance with applicable requirements in other articles of the <i>Code</i> except as modified by Articles 504 and 506.
506.6	ROP 14-200a	New provisions covering material group designations to facilitate proper equipment selection for installations in Zones 20, 21, and 22 locations.
506.8(E)	ROP 14-203	Revised to correlate with changes to product safety standards that expand application of this type of protection.
506.8(H)	ROP 14-204	Revised to correlate with product safety standards.
506.9(C)(1)(2)	ROP 14-204a	Revised to add a requirement for additional marking on “Division” equipment to indicate suitability for use with Zone material groups.
506.9(C)(1)(3), 506.9(C)(2)(5), and 506.9(D)	ROP 14-205	Revised to maintain consistent terminology for temperature marking on equipment.
506.9(C)(2)(4)	ROP 14-205a	Revised to add a requirement for additional marking on “Division” equipment to indicate suitability for use with Zone material groups.
506.9(C)(2) Exception	ROP 14-209	New exception covering marking of associated apparatus not suitable for installation in a hazardous (classified) location.
Table 506.9(C)(2)(3)	ROP 14-206, ROP 14-207, ROP 14-208	Revised to reflect changes in product safety standards relating to new type and expanded protection techniques for Zone 20, 21, and 22 applications.

2014 NEC® Summary of Changes

506.9(C)(6) Exception	ROP 14-209	New exception covers associated apparatus that is not suitable for hazardous (classified) location, and for such equipment the markings for zone, material group, and ambient temperature in accordance with 506.9(D) need not be applied.
506.9(D)	ROP 14-210	Revised to specify that temperature class and operating parameters are based on the equipment being covered by a blanket of dust or dust simulating fibers/flyings of the maximum thickness that can accumulate for Zone 20 and Zone 21 locations.
506.9(E)(1)	ROP 14-211	Revised to require listed conduit fittings and cable fittings.
506.15(A)(2) Exception No. 2	ROP 14-212	New exception covering the permitted wiring methods in Zone 20 locations for intrinsically safe equipment.
505.15 (multiple locations)	ROP 14-213	New Informational Notes to reference product safety standard for cables, cable fittings, and cord connectors.
506.15(A)(6) Exception No. 2	ROP 14-215a	New exception permitting certain types of elevator cables for use with elevators installed in Zone 20 hazardous (classified) locations.
506.15(A)(7)	ROP 14-219	New requirement on installing optical fiber cables in Zone 20 locations.
506.15(B)(2) Exception	ROP 14-212	New exception covering the permitted wiring methods in Zone 20 locations for intrinsically safe equipment.
506.15(C)(6)	ROP 14-221	Revised to also permit the use of Type TC-ER cable in Zone 22 locations.
506.15(C)(7)	ROP 14-222	Revised to reflect changes in product safety standards related to the use of intrinsic safety as a protection technique in Zone 22 hazardous (classified) locations.
506.15(C)(9)a	ROP 14-223	New provision on installing optical fiber cables in Zone 22 locations.
506.17	ROP 14-224	New Informational Notes to reference product safety standard for cables, cable fittings, and cord connectors.
506.20(D)	ROP 14-225	New provision covering the permitted applications of equipment based on its material group marking.
506.25	ROC 14-62	Revised to state that the grounding and bonding requirements apply regardless of the system or circuit voltage. This correlates with provisions on bonding in hazardous (classified) locations covered in 250.100.
Article 514		
Figures 514.3(a) and 514.3(b)	ROP 14-237	Revised the figure to show the classified area around dispensing devices; added a new figure to show the classified area around an aboveground tank with a dispensing device.

2014 NEC® Summary of Changes

514.3(C)	ROP 14-238	New requirement covering the installation of motor fuel dispensing equipment and associated piping at boatyards and marinas. These requirements were formerly located in 555.21.
514.13	ROP 14-241	Revised for correlation with new general requirement for <i>lockable disconnecting means</i> in 110.25.
Article 516		
Article 516	ROC 14-67	Revised Article to update all requirements that are extracted from NFPA 33, <i>Standard for Spray Application Using Flammable and Combustible Materials</i> , and NFPA 34, <i>Standard for Dipping, Coating, and Printing Processes Using Flammable or Combustible Liquids</i> to the 2011 editions of those standards. More specific information included on the use of the “zone system” of electrical area classification method is included in these revisions.
516.10(A)	TIA 1096	Revised to recognize the use of spray equipment that is not listed, but is otherwise approved. New Informational Note provides direction on the approval of electrostatic spray equipment where other hazard mitigation features as described in NFPA 33 are employed.
Article 517		
517.2 Critical Branch	ROC 15-5	Revised the definition of <i>critical branch</i> to correlate with the definition in NFPA 99 by removing a reference to emergency system and adding fixed equipment to the list of items connected to the critical branch.
517.2 Emergency System	ROP 15-13	Revised by deleting the definition of <i>emergency system</i> to correlate with NFPA 99.
517.2 Equipment Branch	ROP 15-14	Revised the definition of <i>equipment system</i> to <i>equipment branch</i> , changed “circuits” to “feeders and branch circuits,” and included a reference to extracted material from NFPA 99, <i>Health Care Facilities Code</i> .
517.2 Life Safety Branch	ROC 15-10	Revised the definition of <i>life safety branch</i> to correlate with the definition in NFPA 99 by removing a reference to emergency system and by specifying that power supplies for lighting, receptacles, and equipment essential for life safety are what is connected to the life safety branch.
517.2 Patient Care Space	ROC 15-12	Revised the definition of <i>patient care area</i> to <i>patient care space</i> to correlate with the new definitions for patient care rooms in NFPA 99, <i>Health Care Facilities Code</i> ; added new Informational Notes to provide guidance on proper application.
517.2 Patient Care Vicinity	ROP 15-21	Revised to provide clarification and to update to the extracted information from NFPA 99, <i>Health Care Facilities Code</i> .

2014 NEC® Summary of Changes

517.2 Wet Procedure Area	ROP 15-24	Relocated the definition of <i>wet procedure location</i> to correlate with the revised definitions for Patient Care Space. New informational note that indicates that routine housekeeping procedures and incidental spillage of liquid do not define a wet procedure location.
517.10	ROC 15-19	Revised by replacing “areas” with “space” to correlate with the revised definition and with NFPA 99, <i>Health Care Facilities Code</i> .
517.14	ROP 15-29	Revised by replacing “emergency system” with “essential electrical system” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.16	ROC 15-21	Revised to clarify that isolated ground receptacles are only prohibited in the patient care vicinity, to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.17(A)	ROP 15-33	Revised by replacing the term “areas” to “space” to correlate with the revised definition and with NFPA 99, <i>Health Care Facilities Code</i> .
517.18(A)	ROP 15-34	Revised by replacing “emergency system” with “critical branch” and providing new requirements for receptacle plate marking to correlate NFPA 99, <i>Health Care Facilities Code</i> .
517.18(B)	ROP 15-36	Revised by increasing the number of required receptacles from four to eight to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.18(C)	ROC 15-26	Revised by replacing “Pediatric Locations” to “Designated General Care Pediatric Locations” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.19(A)	ROP 15-38, ROP 15-39, ROC 15-29	Revised by replacing the term “areas” with “space,” replacing “emergency system” with “critical branch,” and increasing the number of required receptacles from six to fourteen to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.19(C)	ROP 15-41	New requirement that provides minimum number, supply requirements, and configuration for operating room receptacles to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.19(D)	ROP 9-181a	Revised the term “metal-enclosed switchgear” to “switchgear” for correlation with the revision made to the defined term in Article 100.
517.19(E)	ROC 15-34	Revised by replacing the term “areas” with “space” to correlate with the revised definition and with NFPA 99, <i>Health Care Facilities Code</i> .
517.26	ROC 15-39	Revised to include the life safety branch of the essential electrical system to correlate with NFPA 99, <i>Health Care Facilities Code</i> . The new Informational Note refers to Section 517.30 and to NFPA 99, Chapter 6.
517.30 Figures 1 and 2		Revised terms to correlate with NFPA 99, <i>Health Care Facilities Code</i> .

2014 NEC® Summary of Changes

517.30(B)(1) through (4)	ROP 15-52, ROC 15-46	Revised by specifying that essential electrical systems for hospitals must be comprised of three separate branches: life safety, critical, and equipment; and revised these terms to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.30(A)(1)	ROP 15-54	Revised by replacing “emergency system” with “essential electrical system” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.30(C)(3)(1)	ROP 15-60	Revised by adding Type RTRC marked with the suffix –XW to the list of permitted wiring methods.
517.30(C)(3)	ROC 15-49	Revised by replacing “emergency system” with “essential electrical system,” replacing “emergency” with life safety and critical branches, and replacing the term “areas” with “space” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.30(D)	ROP 15-63, ROC 15-56	Revised to specify that the capacity and rating for the essential electrical system must be designed for the maximum actual demand likely to be produced by the connected load of the essential electrical system.
517.30(E)	ROP 15-64, ROP 15-65	Revised by replacing “emergency system” with “essential electrical system” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.30(G)	ROP 15-66, ROC 15-58	New requirement for overcurrent protective devices serving the essential electrical system to be selectively coordinated for the period of time that a fault’s duration extends beyond 0.1 second. Two exceptions to the rule address the arrangement between transformer primary and secondary protective devices and overcurrent protective devices of the same ampere rating connected in series.
517.30 (F)	ROP 15-67	New provision permitting feeders supplied from an alternate power source to supply the essential electrical system to the point at which the life safety, critical, and equipment branches are separated. Installation of the transfer equipment is permitted at other than the location of the alternate power source.
517.31	ROP 15-68	Revised the title from “Emergency Systems” to “Branches Requiring Automatic Connection” and revised the requirement by replacing “emergency system” with “essential electrical system” and “life safety and critical branches” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.32	ROP 15-69	Revised by replacing “emergency system” with “essential electrical system” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.32(F)	ROP 15-70	Revised to include a list of generator accessories that are loads dedicated to a specific generator, to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.33(A)	ROP 15-72	Revised by replacing “emergency system” with “essential electrical system” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .

2014 NEC® Summary of Changes

517.33(A)(7)	ROP 15-73	Revised by adding “data equipment rooms and closets” to critical branch task illumination and receptacle requirements.
517.34	ROP 15-74	Revised the title by replacing “System” with “Branch” and replaced “emergency system” with “essential system” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.34(A)	ROP 15-75	Revised by adding a new provision to permit delayed automatic connection to the alternate power source for supply, return, exhaust ventilating, and/or air-conditioning systems serving telephone equipment rooms and closets and data equipment rooms and closets.
517.35(C)	ROP 15-78	Revised to include a requirement for physical separation of the main feeders of the alternate source from the main feeders of the normal electrical source.
517.41, Figures 1 and 2	ROP 15-79	Revised the terms to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.41(E)	ROP 15-80, ROP 15-81	Revised by replacing “emergency system” with “essential electrical system” to correlate with NFPA 99, <i>Health Care Facilities Code</i> . Added a new requirement for nonlocking-type, 125-volt, 15- and 20-ampere receptacles to have an illuminated face or an indicator light to indicate that there is power to the receptacle.
517.43 Exception	ROP 15-83	Revised by replacing “system” with “branch” to correlate with NFPA 99, <i>Health Care Facilities Code</i> .
517.71(C)	ROP 15-90	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 520		
520.2 Stage Equipment	ROP 15-98	New definition for equipment that is integral to the stage production.
520.2 Stage Switchboard	ROP 15-98	New definition that includes a switchboard, panelboard, or rack containing dimmers or relays with associated overcurrent protective devices, or overcurrent protective devices alone, used primarily to feed stage equipment.
520.2 Stage Lighting Hoist	ROP 15-99	New definition for a motorized lifting device for luminaires with integral cable system to allow travel over the lifting range while energized.
520.26(D)	ROP 15-110a	Revised to add new subsection covering <i>constant power</i> stage switchboards.
520.40	ROP 15-111	New requirement that includes provisions for stage lighting hoists and requirement for listing.
520.53(H)(1)	ROP 15-114	Revised by including the term “identified” and deleting “identified for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.

2014 NEC® Summary of Changes

520.53(K)(3)c	ROC 15-78	Revised to require marking to meet the requirements in new 110.21(B).
520.68(A)(3)	ROP 15-117	New subsection that includes provisions for permitting luminaries to be supplied by hard usage supply cords provided conditions are met.
Article 525		
525.32	ROP 15-126	Revised to correlate with the term <i>equipment grounding conductor</i> .
Article 530		
530.22(A)(3)c	ROC 15-82	Revised to require marking to meet the requirements in new 110.21(B).
530.61	ROP 15-129	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 545		
545.5	ROP 19-9	Revised for consistency with terms associated with underground service conductors that are within the scope of the <i>Code</i> .
Article 547		
547.2 Equipotential Plane	ROP 19-11a	Revised by replacing “prevent” with “minimize” in the definition; this more closely represents the level of voltage reduction obtained with an equipotential plane.
547.5(F)	ROC 19-8	Revised to permit insulated aluminum equipment grounding conductors for underground installations.
547.9(A)(1)	ROP 19-20a	Revised to apply to multiple buildings or structures of any use group that are supplied from the same distribution point.
547.9(B)(3)(2)	ROP 19-21	Revised by adding the word “enclosure” after the words “site-isolating device” to clarify the equipment grounding conductor connection is to the site-isolating device enclosure.
547.10(B) Informational Note No. 2	ROP 19-26a	Revised to update to the current edition of the referenced standard.
Article 550		
550.2, 550.10(B), 550.11, 550.16, and 550.30	ROP 19-27	Revised by removing the definition of “distribution panelboard” and removing the term “distribution” throughout several sections, to correlate with the defined term <i>panelboard</i> in Article 100.
550.2 Feeder Assembly	ROP 19-29	Revised by including the term “identified” and deleting “designed for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
550.10(C) Informational Note	ROP 19-31a	Revised to update to the current edition of the referenced standard.
550.15(H)	ROP 19-37, ROP 19-39	Revised to require that conductors be listed for use in wet locations and raceways be approved for wet locations where exposed to moisture and subject to physical damage.
550.32(C) Informational Note	ROP 19-43a	Revised to update to the current edition of the referenced standard.

2014 NEC® Summary of Changes

Article 551		
551.1 Informational Note	ROP 19-44a	Revised to update to the current edition of the referenced standard.
551.2, 551.42, 551.45, 551.46, 551.47, 551.54, 551.55, and 551.73	ROP 19-45	Revised by removing the definition of “distribution panelboard” and the term “distribution” throughout several sections to correlate with the defined term <i>panelboard</i> in Article 100.
551.2 Recreational Vehicle	ROP 19-48	Revised by removing explanatory material and relocating to a new Informational Note: “The basic entities are travel trailer, camping trailer, truck camper, and motor home.”
551.4(B) Informational Note	ROP 19-49a	Revised to update to the current edition of the referenced standard.
551.4(C)	ROP 19-50, ROC 19-23	New requirement for standardized labels for recreational vehicles. Informational note refers to ANSI Z535, <i>Product Safety Signs and Labels</i> , for additional guidance.
551.30(D) Informational Note	ROP 19-51a	Revised to update to the current edition of the referenced standard.
551.30(E)	ROP 19-52	Revised by combining the location requirements, and adding similar location requirements for enclosed transfer switches when used as the first termination of generator supply conductors.
551.41(B)	ROP 19-56	Revised by specifying that the minimum size for qualifying receptacle requirements includes both width and depth.
551.41(B)(4)	ROP 19-57	New requirement for at least one receptacle for rooftop decks that is accessible from inside the RV.
551.42(C)(2) Exception 2	ROC 19-24	New exception that permits a sixth circuit to serve only the power converter; if the combined load of all six (6) circuits does not exceed the allowable load that was designed for use by the original five (5) circuits.
551.45(B) Exception 1	ROC 19-25	Revised to provide an alternate installation when the door installation prohibits meeting the specified setback limit for working clearances.
551.46(D)	ROP 19-63	Revised to provide standardized label requirements for electrical entrance and for compliance with ANSI Z535, <i>Product Safety Signs and Labels</i> .
551.47(I)	ROP 19-69	Revised to correlate with Section 334.30 by requiring cables to be secured, as well as supported.
551.47(J)	ROP 19-70	Revised to correlate with Section 334.30 by requiring cables to be secured, as well as supported.
551.47(Q)(3)	ROP 19-73	Revised to provide standardized label requirements for air-conditioning equipment and for compliance with ANSI Z535, <i>Product Safety Signs and Labels</i> .
551.47(R)(4)	ROP 19-74	Revised to provide standardized label requirements for generator installations and for compliance with ANSI Z535, <i>Product Safety Signs and Labels</i> .

2014 NEC® Summary of Changes

551.47(S)(3)	ROP 19-75	Revised to provide standardized label requirements for prewiring for other circuits and for compliance with ANSI Z535, <i>Product Safety Signs and Labels</i> .
551.53	ROP 19-76	Revised to also apply to ceiling-suspended (paddle) fans.
551.71	ROP 19-77	Revised to require that every recreational vehicle site equipped with a 50-ampere receptacle also be equipped with a 30-ampere, 125-volt receptacle conforming to Figure 551.46(C).
551.75	ROP 19-79a	New informational note directing user to 250.32(A) exception for RV sites supplied by a single branch circuit.
551.79	ROP 19-81	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 552		
552.43, 552.44, 552.45, 552.46, 552.47, 552.55, 552.56, and 552.47	ROP 19-83	Revised by removing the term “distribution” throughout several sections to correlate with the defined term <i>panelboard</i> in Article 100.
552.10(B)(2) Informational Note	ROP 19-83a	Revised to update to the current edition of the referenced standard.
552.10(E)(2) Informational Note	ROP 19-86	Revised to update to the current edition of the referenced standard.
552.44(C)(1) Informational Note	ROP 19-90a	Revised to update to the current edition of the referenced standard.
552.44(C)(2) Informational Note	ROP 19-90b	Revised to update to the current edition of the referenced standard.
Article 555		
555.1 Informational Note	ROP 19-101a	Revised to update to the current edition of the referenced standard.
555.21(A) Informational Note	ROP 19-88b	Revised to update to the current edition of the referenced standard.
555.2 Marine Power Outlet	ROP 19-102	Revised by removing the term “distribution” to correlate with the defined term <i>panelboard</i> in Article 100.
555.4	ROP 19-104	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
555.15(B) and (C)	ROC 19-36	Revised to permit insulated aluminum equipment grounding conductors for installations at marinas and boatyards.
555.19(A)(4)(a) Informational Note	ROP 19-107a	Revised to update to the current edition of the referenced standard.

2014 NEC® Summary of Changes

Article 590		
590.4(C)	ROC 3-32	Revised by adding “switchgear” to the list of equipment where branch circuits must originate.
590.4(I)	ROP 3-104	Revised by clarifying that fittings are required to be listed for connecting flexible cords and cables to boxes.
590.4(J)	ROC 3-35	Revised to specify that cable assemblies and flexible cords and cables installed as branch circuits or feeders are not permitted to be installed on the floor or on the ground. This does not include extension cords.
590.6(A)(1)	ROC 3-38	Revised to provide specific permission covering the use of listed cord sets or devices incorporating GFCI protection identified for portable use.
Chapter 6 Summary of Changes in 2014 NEC®		
Article 600		
600.2 Neon tubing	ROP 18-89a	Revised to include cold cathode luminous tubing in the definition.
600.3	ROP 18-90, ROP 18-91	Revised to require that retrofit kits be listed and to specify that electric signs, outline lighting, and retrofit kits must be provided with installation instructions.
600.4(E)	ROP 18-93	Revised to also include outline lighting, skeleton tubing systems, and retrofit kits in the marking requirement, with an exception for cord-and-plug-connected portable signs.
600.6(A)(1)	ROP 18-99	Revised to specify that the disconnecting means must be located nearest the point where the supply conductors enter the sign (or a pole supporting a sign), with an exception for supply conductors inside the sign that are installed in a listed raceway.
600.6(A)(2)	ROP 18-97	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
600.6(A)(3)(1)	ROP 18-101	Revised to make the “within sight” requirement mandatory rather than permissive.
600.6(A)(3)(3)	ROP 18-102	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
600.7(A)(1)	ROP 18-103	Revised to include skeleton tubing.
600.9(B)	ROP 18-107	Revised to specify that neon tubing installed only in “listed” dry location portable signs is exempted from this requirement.
600.10(C)(2)	ROP 18-108	Revised to require that the GFCI device protecting a portable or mobile sign be installed by the sign manufacturer.
600.12	ROP 18-109	Revised to include retrofit kits.
600.12(A)	ROC 18-49	Revised to apply to all neon and other secondary circuits rated 1000 volts or less.
600.12(B)	ROP 18-110	Revised to limit application to neon secondary circuits rated more than 1000 volts.

2014 NEC® Summary of Changes

600.12(C)	ROP 18-112	Revised to indicate that the acceptable wiring method is determined by the installation conditions and the manufacturer’s instructions.
600.21	ROP 18-113	Revised to require that all power supplies be either self-contained or be enclosed in a listed sign body or listed enclosure.
600.21(A), (B), (C), (D), (E), and (F)	ROP 18-114	Revised to include Class 2 power sources.
600.33	ROP 18-124	Revised to specify that only the provisions in Chapter 3 and Part III of Article 725 covering wiring methods and materials suitable for LED lighting installations are applicable.
Article 605		
Entire article	ROP 18-125a, ROP 18-127	Revised to replace the terms “relocatable wired partitions” and “partition” with “office furnishings,” to correlate with the terminology used in the product safety standard for this equipment.
605.2	ROP 18-125a, ROP 18-126	New definition of <i>office furnishings</i> .
605.3	ROP 18-126	Revised by changing “appliances” to “utilization equipment” to reflect broader scope of equipment used with powered office furnishings.
605.6(B)	ROP 18-125a, ROP 18-128	Revised to accommodate flexible cord connections associated with lighting systems supplied from Class 2 power sources, including low voltage LED lighting systems.
Article 610		
610.31	ROC 12-1	Revised to correlate with the provisions covering the permitted types of disconnecting means specified in 430.109.
610.31(2)	ROP 12-11	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
610.31(4) Exception	ROP 12-12a	New exception to the “with view” requirement for the runway conductor disconnecting means where the crane serves an electrolytic cell line.
610.32	ROP 12-12b, ROP 12-13	Revised to correlate with the provisions for the permitted types of disconnecting means specified in 430.109 and to correlate with new general requirement for lockable disconnecting means in 110.25.
Article 620		
620.3(A)	ROP 12-16, ROP 12-17	Revised to require marking to meet requirements in new 110.21(B) and to revise the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the NEC to recognize that commonly used alternative energy systems operate at over 600 volts.

2014 NEC® Summary of Changes

620.3(C)	ROP 12-17	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
620.5	ROC 12-8	Revised to clarify that reduced working space is permitted under any one of the conditions specified in (A) through (D).
620.13(B)	ROP 12-19a	Revised by incorporating text of the Informational Note as a permissive requirement for determining the rating of a motor controller for the purpose of sizing the conductors supplying it.
Table 620.14	ROC 12-10	Revised by incorporating text of the Informational Note as a new application note to the demand factor table.
620.21 Exception	ROC 12-13	New exception permitting cords or cables of listed cord-and plug-connected equipment to be used without being installed in a raceway.
620.22(B)	ROP 12-30a	Revised to require a separate branch circuit to supply the air-conditioning and heating equipment for each elevator car.
620.36	ROP 12-32	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
620.41	ROP 12-32b	Revised by incorporating text of the Informational Note as the condition under which the length of unsupported cord is determined.
620.51(A) and Exception No. 1	ROP 12-33, ROP 12-35	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
620.51(C)(1)	ROC 12-17	Revised to correlate with new general requirement for lockable disconnecting means in 110.25 and to permit fused motor circuit switches as the disconnecting means for the elevator driving machine.
620.51(C)(2)	ROP 12-40	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
620.52(B)	ROP 12-41	Revised to require marking to meet requirements in new 110.21(B).
620.53	ROP 12-42	Revised to require marking to meet requirements in new 110.21(B).
620.53 Exception	ROP 12-44, ROP 12-45	Revised to clarify that one branch circuit is permitted to supply all of the equipment covered by the exception. Also revised to correlate with new general requirement for lockable disconnecting means in 110.25.
620.54	ROP 12-46	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
620.55	ROP 12-48	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
620.62	ROP 12-50	Revised to specify the qualifications of those responsible for the design of the system used to establish selective coordination and those to whom the required documentation must be made available.

2014 NEC® Summary of Changes

Article 625		
Article 625	ROP 12-5	Article revised to group installation requirements in a separate Part III.
625.2 Cable Management System	ROC 12-20	New definition describing the function of this system.
625.2 Electric Vehicle Connector	ROP 12-52, ROP 12-66	Revised to recognize that the electrical connection to the electric vehicle can be conductive or inductive.
625.2 Electric Vehicle Inlet	ROP 12-52, ROP 12-66	Revised to recognize that the electrical connection to the electric vehicle can be conductive or inductive.
625.2 Electric Vehicle Storage Battery	ROP 12-52, ROP 12-57	Revised to reflect that all battery technologies have a means to vent excessive gas pressure due to overheating, in order to prevent battery explosion.
625.2 Electric Vehicle Supply Equipment	ROP 12-52	New informational note explaining the relationship between the terms <i>electric vehicle supply equipment</i> and <i>electrical vehicle charging system equipment</i> in the context of Article 625.
625.2 Output Cable to the Electric Vehicle	ROP 12-52	New definition describing the cable with an electric vehicle connection that runs from the output of the EVSE to the EV inlet.
625.2 Power Supply Cord	ROP 12-52	New definition covering the cord connecting the EVSE to the premises wiring system through a cord-and-plug connection to a receptacle.
625.4	ROP 12-52	Revised to include dc systems rated up to 600 volts.
625.10(A)	ROC 12-27	Revised with a new exception covering the specific condition under which polarization of the EV coupler is not required.
625.10(E)	ROP 12-52	Revised to clearly describe the condition under which a grounding pole is not required.
625.17	ROP 12-52	Revised to distinguish the requirements for the power supply cord from those covering the output cable.
625.17(C)(1) and (2)	ROC 12-43a	New provisions covering how the length of the power supply cord and the output cable is to be determined.
625.18	ROP 12-51, ROP 12-52	Revised to not require interlock for dc supplies rated less than 50 volts.
625.19	ROP 12-51, ROP 12-52	Revised to not require interlock for dc supplies rated less than 50 volts.
625.41(formerly 625.14)	ROP 12-52	Revised to cover the impact that a load management system has on service and feeder calculations.
625.42 (formerly 625.23)	ROP 12-52, ROP 12-72, ROP 12-73	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.

2014 NEC® Summary of Changes

625.44 (formerly 625.13)	ROP 12-52, ROP 12-59, ROP 12-61, ROC 12-41, ROC 12-42	Revised requirements covering cord-and-plug- and permanently connected EVSE equipment.
625.48 (formerly 625.26)	ROP 12-52	Revised to require that equipment used as part of an interactive electrical system be listed and marked as being suitable for this application.
625.50 [formerly 625.29(A) and 625.30]	ROP 12-52	Revised to recognize that the electrical connection to the electric vehicle can be conductive or inductive, and to consolidate indoor and outdoor location provisions.
625.52(B)(2) [formerly 625.29(D)(2)]	ROP 12-52, ROP 12-76	Revised to cover electric vehicle supply equipment supplied by dc branch circuits.
Tables 625.52(B)(1) and (B)(2) [formerly Tables 625.29(D)(1) and (D)(2)]	ROC 12-47	Revised to cover electric vehicle supply equipment supplied by dc branch circuits.
Article 626		
626.2 Cable Management System (Electrified Truck Parking Spaces)	ROC 12-48a	Revised to distinguish cable management systems for electrified trucks from cable management systems for electric vehicles covered in Article 625.
626.22(D)	ROP 12-84	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
626.24(B) Exception	ROP 12-85	Revised for correlation with the number of receptacles specified in 626.24(B)(1).
626.24(C)	ROP 12-87	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
626.31(A)	ROP 12-90	Revised to correlate with new general requirement for lockable disconnecting means in 110.25.
Article 630		
630.13	ROC 12-53	Revised to reference 110.22(A) for marking of welder supply circuit disconnecting means.
Article 640		
640.1	ROP 12-93a	Revised the scope to specify the types of systems not covered by Article 640.
640.2 Audio Amplifier or Preamplifier	ROP 12-94	Revised to provide correlation between this definition and its use in the requirements of Article 640.
640.10(A)	ROP 12-107	Revised for clarity by replacing “laterally” with “horizontally” in regard to the minimum clearance distance.

2014 NEC® Summary of Changes

Article 645		
645.4	ROP 12-112	Revised to indicate that the provisions of Article 645 modify the general requirements in Articles 300 and 708 for power wiring, those in Article 725 for signaling circuit installations, and those in Article 770 optical fiber cable installations.
645.5(E)(4)	ROP 12-129	Revised by deleting the condition requiring automatic cessation of air circulation upon detection of smoke in underfloor air-handling/ventilation areas serving an information technology equipment room(s).
645.14 and 645.15	ROP 12-139, ROC 12-68	New Section 645.14 added to cover grounding of separately derived systems that supply ITE equipment. Section 645.15 now provides only requirements covering grounding and bonding of information technology equipment. Revised to require auxiliary grounding electrodes be installed in accordance with 250.54.
645.27	ROP 12-143	New requirement covering selective coordination of overcurrent devices protecting circuits supplying critical operations data systems.
Article 646		
Article 646 Modular Data Systems (MDCs)	ROC 12-71	New article covering prefabricated units containing information technology equipment and associated support equipment used to provide power, cooling, and ventilation for the units' HVAC equipment. MDCs are required to either be listed or be constructed in accordance with the requirements of Article 626.
Article 647		
647.6(A)	ROP 12-148	Revised to clarify that equipment supplied by a grounded technical power system operates at the line-to-line voltage of 120 volts.
647.7(A)(2)	ROP 12-149	Revised to require marking to meet requirements in new 110.21(B).
647.8(A)	ROP 12-150	Revised for correlation with new general requirement for lockable disconnecting means in 110.25.
Article 660		
660.4(C)	ROP 12-152	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 665		
665.2 Applicator	ROP 12-154	Revised to be consistent with use of this term within Article 665.
665.12	ROP 12-155	Revised for correlation with new general requirement for lockable disconnecting means in 110.25.
665.23	ROC 12-158	Revised to require marking to meet requirements in new 110.21(B).

2014 NEC® Summary of Changes

Article 668		
668.21(A)	ROP 12-160	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 669		
669.7	ROP 12-165	Revised to require marking to meet requirements in new 110.21(B).
Article 670		
670.4 Informational Note	ROP 12-167	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 675		
675.8(B)	ROP 19-118, ROP 19-119	Revised for correlation with new general requirement for lockable disconnecting means in 110.25. The phrase “visible and not more than 15 m (50 ft.)” is revised to “in sight from” because that distance is part of the Article 100 definition of “in sight from.”
675.10	ROP 19-120	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 680		
680.2 Storable Swimming, Wading, or Immersion Pools or Storable/Portable Spas and Hot Tubs	ROP 17-90	Revised to also include storable and portable spas and hot tubs.
680.8(A)	ROP 17-92	Revised to also apply to overhead service conductors.
680.12	ROP 17-96	Revised to also apply to fountains.
680.21(C)	ROP 17-100	Revised to require GFCI protection for all 120- and 240-volt, single-phase swimming pool pump motors regardless of the supply circuit ampere rating.
680.22(A)(1)	ROP 17-101, ROP 17-104, ROP 17-105	Revised to permit non-locking receptacles to supply swimming pool circulating pump motors.
680.22(A)(3)	ROC 17-31	Revised to expand application of the receptacle outlet requirement to all occupancy types.
680.22(B)(6)	ROC 17-32	New provision permitting certain types of listed low-voltage luminaires to be installed less than 5 feet from the inside walls of a swimming pool.
680.23	ROP 17-109	Revised to use the maximum water level as the benchmark for establishing which underwater luminaires are covered by these requirements.

2014 NEC® Summary of Changes

680.26(C)	ROP 17-131	Revised to include physical protection and corrosion resistance provisions for the bonded metal element used to create direct contact between the swimming pool water and bonded metal surface.
680.27(B)(2)	ROC 17-41	Revised to require that the branch circuit supplying the pool cover motor and associated equipment be protected by a ground-fault circuit interrupter. This revision results in feeder level GFCI protection not being permitted.
Article 680 Part III Title, 680.30, 680.32, 680.33, and 680.34	ROC 17-26	Revised to make the requirements of Part III applicable to portable spas and portable hot tubs.
680.42(A)(1)	ROP 17-139, ROP 17-140	Revised to remove the 6-foot length restriction for liquidtight flexible metal conduit and liquidtight flexible nonmetallic conduit.
680.42(B)	ROP 17-142	Revised to provide conditions under which perimeter bonding is not required for certain listed self-contained spas and hot tubs installed on or above grade outdoors.
680.42(C)	ROP 17-145	Revised to permit application of this requirement to outdoor spas and hot tubs installed at one-family dwellings or at a dwelling unit that is part of a two-family or multifamily dwelling.
680.43 Exception No. 3	ROP 17-146	New exception permitting application of the provisions of 680.42(C) for spas and hot tubs installed indoors at one-family dwellings or at a dwelling unit that is part of a two-family or multifamily dwelling.
680.57(B)	ROC 17-48	Revised to require that the ground-fault circuit-interrupter protection be provided in either the branch circuit or feeder that supplies a sign either installed in a fountain or installed within 10 feet of a fountain.
680.74	ROP 17-148	Revised to clarify that only the metal piping system associated with the circulating water of the hydromassage bathtub and grounded metal parts in contact with the bathtub water are subject to the bonding requirement of this section.
Article 690		
Figure 690.1(A)	ROP 4-170	Revised by removing the blocking diodes from the figure to reflect current circuit protection requirements contained in the <i>NEC</i> and in the product safety standards.
690.2 Direct Current (dc) Combiner	ROC 4-81	New definition to provide standardization of the nomenclature used to describe this type of equipment.
690.2 DC-to-DC Converter	ROC 4-83	New definition for correlation with existing requirements in Article 690 covering the use of this device.
690.2 Multimode Inverter	ROP 4-181	New definition for a component that can be used in an interactive or stand-alone PV system.
690.4	ROP 4-188a	Renamed this section “General Requirements.” Conductor segregation and identification requirements have been relocated to 690.31.

2014 NEC® Summary of Changes

690.4(D)	ROP 4-188a	Revised to permit PV system installations to be comprised of more than one utility-interactive or stand-alone inverter.
690.5(A)	ROC 4-87	Revised to specify the required performance of the ground-fault detection system, and to require listing of the equipment used to provide the ground-fault protection and circuit interruption. Also revised to permit ground fault devices to automatically interrupt the grounded conductor for the purpose of ascertaining circuit isolation.
690.5(C)	ROP 4-215	Revised to require marking to meet requirements in new 110.21(B).
690.7(C)	ROP 4-223	Revised the threshold voltage for other than one and two family dwellings from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
690.7(E)(3)	ROP 4-225	Revised to require marking to meet requirements in new 110.21(B).
690.8(A)(5)	ROC 4-228	New requirement on determining the maximum current for dc to dc converters.
690.8(B)(1) [formerly 690.8(B)(2)]	ROP 4-225a	Revised by changing the term “conditions of use” to “adjustment and correction factors.”
690.8(D)	ROP 4-225a	Revised “single fuse” to “single overcurrent device” to allow determining the ampacity of conductors that interconnect modules to be based on the rating of the specific type of overcurrent protective device used in the PV system.
690.9(A)	ROP 4-235, ROC 4-94	Revised to require that overcurrent protection devices be located to protect conductors against overcurrents originating in any connected source. Also revised to require that battery system conductors comply with Article 480.
690.9(B) [formerly 690.8(B)(1)]	ROP 4-233	Relocated requirements for determining overcurrent device ratings.
690.9(D)	ROP 4-239	Revised to require that overcurrent protective devices used in PV source and output circuits be listed as a PV overcurrent device.
690.9(E)	ROP 4-242	Revised to provide separate requirements for the number of overcurrent protection devices in grounded and ungrounded PV systems.
690.10(C)	ROP 4-244	Revised to require marking to meet requirements in new 110.21(B).
690.10(E)	ROC 4-97	Revised to cover securing of back-fed plug-in type circuit breakers connected to multimode inverters.
690.11	ROP 4-251	Revised to expand the series arc fault protection requirement to conductors installed indoors and outdoors.
690.12	ROC 4-113	New requirement to provide emergency personnel with a means to reduce the voltage and power of PV system circuit conductors within a specified amount of time.
690.13	ROP 4-254a	Revised by consolidating requirements for disconnecting means formerly located in 690.13 and 690.14 into one section (690.13).

2014 NEC® Summary of Changes

690.13(C) [formerly 690.14(C)(3)]	ROP 4-255	Revised to not require that PV system disconnecting means be identified as suitable for use as service equipment.
690.13(D) [formerly 690.14(C)(4)]	ROC 4-127	Revised by deleting “switchboard” as a type of equipment that can be used as the PV system disconnecting means.
690.15	ROP 4-274a	Revised by consolidating requirements for disconnecting means formerly located in 690.14 and 690.15 into one section (690.15).
690.15(B) [formerly 690.14(B)]	ROP 4-274a	Revised to include dc-to-dc converters.
690.15(C)	ROP 4-276	New provision for installation of a disconnecting means within 6 feet of dc combiners mounted on rooftops.
690.15(D) [formerly 690.14(C)(4)]	ROP 4-277	Revised by deleting “switchboard” as a type of equipment that can be used as the PV system disconnecting means.
690.17	ROP 4-278a	Revised by consolidating requirements for type and operational characteristics of PV disconnecting means formerly located in 690.13 and 690.17 into one section (690.17).
690.17(A)	ROP 4-278a, ROC 4-129	Revised to provide list of equipment permitted to be used as a PV system disconnecting means. Also revised to permit the disconnecting means to be power operable.
690.17(B)	ROC 4-130	New provision requiring PV disconnecting means to simultaneously open all ungrounded supply conductors.
690.17(E)	ROC 4-131	Revised to require marking to meet requirements in new 110.21(B).
690.18 Informational Note	ROP 4-283	Revised to use the more commonly understood term “energized.”
690.31(A)	ROP 4-285	Revised to permit PV conductors to be guarded (as an alternative to their being installed in a raceway) where the conductors are in a readily accessible location.
690.31(B)	ROP 4-288	Relocated the requirements covering PV system conductor identification and grouping from 690.4(B). Revised to prohibit inverter output circuit conductors from being installed in the same raceway, cable tray, cable, outlet box, junction box, or similar type of equipment with PV source and PV output conductors.
690.31(C)(2)	ROC 4-136	New provision permitting single conductor cable listed as PV wire to be installed in outdoor cable trays without having a cable tray (CT) marking or a minimum size requirement.
690.31(D)	ROP 4-301	New provision permitting the outdoor use of multiconductor TC-ER and USE-2 cables for the output circuits of utility-interactive inverters that are not readily accessible.
690.31(G)(1)	ROP 4-194, ROC 4-84	Revised to only provide a marking requirement for rooftop PV conductors that are concealed within built-up, laminate, or membrane roofing materials. New provision added covering the suitability of the marking method for exposure to sunlight and the weather.

2014 NEC® Summary of Changes

690.31(G)(4)	ROP 4-296	Revised to include specific requirements for the warning label and the letters on the label.
690.31(I)	ROP 4-284a, ROP 4-288	Relocated from 690.4(G). Revised to require an overvoltage warning marking for bipolar PV systems.
690.31(J)	ROP 4-284a, ROP 4-288	Relocated the requirement from 690.4(C).
690.35(C)(1)	ROC 4-141	Revised to prescribe the performance characteristics of the ground-fault protective device without specifying a specific methodology to meet the requirement. Also revised to require that the device be listed for ground-fault protection.
690.35(D)(1)	ROP 4-305a	Revised to permit cables with metal jackets in addition to those with nonmetallic jackets.
690.35(D)(4)	ROC 4-142	New provision permitting underground installations using cables identified for direct burial.
690.35(F)	ROP 4-306	Revised to require marking to meet requirements in new 110.21(B).
690.41	ROC 4-147	Revised to permit PV systems of any voltage to operate as grounded or as ungrounded systems. Specific requirements have been included for grounded and ungrounded PV systems.
690.45	ROP 4-308a, ROC 4-149	Revised by deleting 690.45(B) and its Informational Note to correlate with the deletion of 690.5(A) Exception No. 2 that permitted installations without ground-fault protection provided the equipment grounding conductor was doubled in size.
690.46	ROC 4-150	Revised to permit raceway installation of solid conductors not larger than 6 AWG used as grounding electrode conductors and equipment grounding conductors.
690.47(B)	ROP 4-310a	Revised to permit equipment associated with an ungrounded dc system and the ground-fault detection reference point to be grounded through connection to the ac equipment grounding system.
690.47(C)(2)	ROC 4-154	Revised to permit additional means to connect the dc grounding electrode conductor to the ac grounding electrode conductor.
690.47(C)(3)	ROC 4-151	Revised to provide grounding conductor sizing requirement for ungrounded dc systems. This revision correlates with the revision to 690.47(B) covering the grounding of equipment in ungrounded dc systems.
690.47(D)	ROC 4-155	Revised to restore a requirement from the 2008 NEC covering the installation of a local auxiliary grounding electrode for grounding the non-current-carrying metal parts of PV array frame(s) or structure(s) mounted on roofs, on poles, or on the ground.
690.53(4)	ROP 4-318, ROP 4-319	Revised to use the correct term <i>maximum circuit current</i> and to provide a marking/labeling requirement to accommodate PV power sources with multiple dc outputs.

2014 NEC® Summary of Changes

690.56(A)	ROP 4-320	Revised to require that the plaque or directory comply with the elements for warning labels specified in 690.31(G)(4).
690.56(B)	ROC 4-159	Revised to require that the plaque or directory comply with the requirements of new 110.21(B).
690.56(C)	ROC 4-159	New requirement for providing a plaque or directory indicating that the PV system is equipped with rapid shutdown equipment.
690.71(B)(1)	ROC 4-161	Revised to recognize that lead acid is not the only type of battery available.
690.71(H)	ROP 4-325	New requirements covering disconnecting means and overcurrent protection for battery systems.
Article 690 Part IX	ROP 4-328	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
690.80	ROP 4-327	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
690.81	ROC 4-92	New requirement covering the use of listed products rated over 1000 volts, with a reference to Column 1 in Table 300.50 for direct burial of PV wire rated greater than 600 volts but not exceeding 2000 volts.
Article 690 Part X	ROP 4-331	New requirements covering the use of PV systems to supply electric vehicle charging equipment.
Article 692		
692.10(C)	ROP 4-338	Revised to require marking to meet requirements in new 110.21(B).
692.17	ROP 4-339	Revised to require marking to meet requirements in new 110.21(B).
692.56	ROP 4-341	Revised to require marking to meet requirements in new 110.21(B).
Article 692 Part VIII	ROP 4-343	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
692.80	ROP 4-342	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
Article 694		
Article 694 and 694.1	ROP 4-345, ROP 4-346	Revised to not limit application of this article to only wind turbines individually rated 100 kW or less. Correlating changes have been made throughout Article 694.
694.2 Rated Power	ROC 4-174	Revised by removing specific wind speed performance criteria from the definition.

2014 NEC® Summary of Changes

694.7(A)	ROP 4-352	Revised to recognize that other sources of electric supply may be other than utility services.
694.7(B)	ROC 4-198	Revised to require the wind system to be listed and labeled.
694.7(E)	ROP 4-351	Revised by adding a provision for GFCI protection of 125-volt, single-phase, 15- and 20-ampere receptacles that are installed to support maintenance of equipment associated with the wind electric system.
694.7(F)	ROP 4-356	New provision covering the use of metal or nonmetallic towers or poles as raceways for electrical conductors.
694.1	ROP 4-357	Revised the threshold voltage for other than one and two family dwellings from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
694.18(C)	ROP 4-361	Revised to require marking to meet requirements in new 110.21(B).
694.22(A)	ROP 4-362	Revised to require marking to meet requirements in new 110.21(B).
694.22(C)(4)	ROP 9-181c, ROC 4-183,	Revised to include switchgear as equipment that can contain turbine disconnecting means.
694.23	ROP 4-364a	New provision requiring a manual means to shut down the wind turbine, and requiring the shutdown procedure to be documented and posted.
694.30(B)	ROP 4-368	Revised to include a new requirement covering the requirements for terminating flexible, fine-stranded cables.
694.30(C)	ROP 4-370	Revised to permit the use of Type MC cable.
694.40(A)	ROC 4-186	Revised to reference the applicable parts of Article 250.
694.40(B)(1)	ROC 4-186	Revised to require that wind turbine towers be connected to a grounding electrode system, and to specify where it is required to use galvanized grounding electrodes.
694.40(B)(2)	ROC 4-186	Revised to require the installation of a conductor(s) to establish a bonding connection between turbines and towers and the premises grounding system.
694.40(B)(4)	ROC 4-186	Revised to specify that guy wires are not required to be grounded or bonded. The Informational Note provides guidance on guy wires being incorporated into the tower lightning protection system.
Article 694 Part IX	ROP 4-374	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
694.80	ROP 4-373	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.

2014 NEC® Summary of Changes

Article 695		
695.1(B)(2)	ROP 13-48a	Revised to indicate that the installation of pressure maintenance (jockey) pumps is not covered within the scope of Article 695.
695.1(B)(3)	ROC 13-32	New provision indicating that transfer equipment installed upstream from any fire pump transfer switch(es) is not covered within the scope of Article 695.
695.3(A)(1)	ROP 13-53	Revised to include vertical switchgear section(s) containing service equipment in the list of locations where a tap to supply a fire pump is not permitted to be connected.
695.3(B)(3)(a)(2)	ROP 13-60	Revised to provide a requirement for the acceptable type of locking mechanism.
695.3(B)(3)(a)(3)	ROP 13-62	Revised to provide more detailed description of the equipment types that are prohibited as locations for a fire pump disconnecting means.
695.3(B)(3)(b)	ROP 13-61	Revised to provide requirement for the acceptable type of locking mechanism.
695.3(F)	ROC 13-37	New requirement covering the location and type of equipment used to transfer the circuit supplying a fire pump controller to an alternate source of power.
695.4(A)	ROC 13-41	Revised to include a “listed fire pump power transfer switch” as a permitted location to directly connect the fire pump supply conductors.
695.4(B)(2)(a)(1)	ROP 13-57	Revised to specify that the overcurrent device in a fire pump supply circuit is required to carry indefinitely the locked-rotor current of the largest fire pump motor where multiple fire pump motors are supplied.
695.4(B)(2)(a)(2)	ROP 13-58	New provision permitting the overcurrent protection of a fire pump feeder circuit to be provided by an assembly listed for fire pump service.
695.6(D)	ROP 13-70, ROP 13-71	Revised to include a provision covering the acceptable and unacceptable type of connection devices for use with fire pump circuit conductors.
695.7(B)	ROP 13-82	Revised to specify that the point of voltage measurement under running conditions is at the load terminals of the fire pump controller.
Chapter 7 Summary of Changes in 2014 NEC®		
Article 700		
700.2 Relay, Automatic Load Control	ROP 13-88a	Revised to clarify that the function of this device is control of lighting circuits for emergency purposes, rather than transfer of power from the normal source to the emergency source.
700.7(B)	ROP 13-97	Revised to require warning signs to meet requirements in new 110.21(B).
700.8	ROC 13-69	New requirement covering installation of surge protection devices (SPDs) at panelboards and switchboards supplied by emergency systems.

2014 NEC® Summary of Changes

700.10(B)(5)(a) and (b)	ROP 13-103	Revised to clearly state the requirements covering the permitted methods of separating emergency system wiring from the wiring of other systems.
700.10(B)(5)	ROP 13-104	Revised to include vertical sections of switchgear as acceptable locations for separating the emergency system wiring from the wiring of other systems.
700.10(D)	ROP 13-105, ROP 13-106, ROP 13-107	Revised to apply emergency system feeder wiring protection requirement to all occupancy types in high-rise buildings (greater than 75 feet in height).
700.12(B)(6)	ROP 13-111	Revised to permit generator shutdown per 445.18 as a means to disconnect the emergency source power. Also revised to require compliance with 225.36 only where the feeder conductors from the generator terminate at a disconnecting means in or on a building or structure.
700.12(D)(1) and (2)	ROP 13-112, ROP 13-113	Revised for correlation with the Article 100 terms covering overhead and underground service conductors, and to clarify that the electrical and physical separation requirement applies only to the conductors of the separate service installed as the alternate source of emergency power.
700.12(F)(2)(3) Exception	ROP 13-116	Revised to make application of this Exception conditional on the normal lighting not being supplied by a multiwire branch circuit(s).
700.16	ROC 13-1	New requirement for emergency illumination at indoor service and feeder supply disconnecting means if emergency illumination is provided for the interior of the building or structure.
700.19	ROP 13-118	New requirement prohibiting use of multiwire branch circuits to supply emergency lighting and other equipment that is classed as an emergency load.
700.23	ROP 13-120	Revised to recognize use of relay systems for control of emergency lighting circuits.
700.24	ROC 13-81	New requirement covering the use of luminaires with externally controlled onboard dimming systems to provide emergency illumination.
700.27	ROP 13-122	Revised to clarify that indication of a ground-fault condition in the emergency standby source circuit is not required where GFPE equipment automatically disconnects the circuit.
700.28	ROC 13-85	Revised to add a requirement on the qualifications of those responsible for selecting the system used to provide selective coordination, and to require that documentation be available on the selection of the specific system employed.
Article 701		
701.5(C)	ROP 13-132	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
701.7(B)	ROP 13-133	Revised to require warning signs to meet requirements in new 110.21(B).
701.12 Informational Note	ROP 13-131a	Revised to reference the IEEE document on designing reliable industrial and commercial power systems.

2014 NEC® Summary of Changes

701.12(B)(5)	ROP 13-111	Revised to permit generator shutdown per 445.18 as a means to disconnect the standby source power. Also revised to require compliance with 225.36 only where the feeder conductors from the generator terminate at a disconnecting means in or on a building or structure.
701.12(D)	ROP 13-136	Revised for correlation with the Article 100 terms covering overhead and underground service conductors, and to clarify that the electrical and physical separation requirement applies only to the conductors of the separate service installed as the alternate source of standby power.
701.12(E)	ROP 13-137	Revised to permit taps for a separate service to supply legally required standby loads to be made in a separate vertical switchgear section that does not contain the main service disconnecting means.
701.26	ROP 13-138	Revised to clarify that indication of a ground-fault condition in the legally required standby source circuit is not required where GFPE equipment automatically disconnects the circuit.
701.27	ROC 13-92	Revised to add a requirement on the qualifications of those responsible for selecting the system used to provide selective coordination, and to require that documentation be available on the selection of the specific system employed.
Article 702		
702.7(B)	ROP 13-135	Revised to require warning signs to meet requirements in new 110.21(B).
702.7(C)	ROP 13-146	New requirement for a warning sign describing the system grounding arrangement where the optional standby power source connection is made through a power inlet.
702.12(A)	ROP 13-111	Revised to permit generator shutdown per 445.18 as a means to disconnect the standby source power. Also revised to require compliance with 225.36 only where the feeder conductors from the generator terminate at a disconnecting means in or on a building or structure.
702.12(B)	ROP 13-148	New requirement covering the use of a flanged inlet or other cord-and-plug-type connection as the disconnecting means for a building supply circuit derived from a portable generator rated 15 kW or less.
Article 705		
705.2 Multimode Inverter	ROP 4-378	New definition of equipment that can function as either a utility-interactive or stand-alone inverter.
Table 705.3	ROP 4-385	Revised to include reference to Article 694, Wind Electric Systems.
705.12(D)	ROP 4-387, ROP 9-181g	Revised to include switchgear as a type of equipment where a primary power source and utility-interactive inverter(s) can be interconnected to supply multiple feeders and/or branch circuits.
705.12(D)(1)	ROP 4-375a	Revised to recognize that there may be more than one utility interactive output circuit being interconnected to form a single interconnected electric power production system.

2014 NEC® Summary of Changes

705.12(D)(2)	ROC 4-204	New requirement to use 125% of the inverter output circuit current in calculations to determine the minimum ampacity for conductors and busbars.
705.12(D)(2)(1)	ROC 4-204	New requirement covering overload protection of feeder conductors that are supplied by both the utility source and by the output circuit of an interactive inverter(s).
705.12(D)(2)(2)	ROC 4-204	New requirement covering overload protection of tap conductors that are supplied by both the utility source and by the output circuit of an interactive inverter(s).
705.12(D)(2)(3)(a) and (b)	ROC 4-204	Revised the requirement for overload protection of busbars that are supplied by both the utility source and by the output circuit of an interactive inverter(s).
705.12(D)(2)(3)(b)	ROP 4-403	Revised to specify current limitations on busbar connections when inverter is connected at the opposite end of the busbar from where the normal power supply is connected. Requires warning signs meeting new provisions in 110.21(B) that prohibit relocation of the inverter connection.
705.12(D)(2)(3)(c)	ROC 4-204	New requirement that the maximum rating of all overcurrent protective devices (other than the main OCPD) installed in a panelboard must not exceed the rating of the busbar. This requirement also specifies that a warning label be provided to indicate that the combined ratings of OCPDs cannot exceed the rating of the panelboard busbar. This label is required to comply with new 110.21(B).
705.12(D)(2)(3)(d)	ROP 4-375a	New requirement covering multiple busbar construction or mid-bus connection arrangements designed under engineering supervision that includes evaluation of available fault current and busbar loading conditions.
705.12(D)(4)	ROP 4-402	New Informational Note describing suitability of fused switches for backfed connections.
705.12(D)(6)	ROP 4-404 ROC 4-206	New requirement for AFCI protection of exposed inverter output circuit wiring operating at 240 volts with a circuit current rating of 30 amperes or less.
705.31	ROP 4-410a	New requirement, Informational Note, and Exception covering the installation of overcurrent protection within 10 feet of the point where electric power production source conductors connect to service conductors on the line side of the service disconnecting means.
705.60(A)(1)	ROP 4-412	Revised to use correct nomenclature to describe the inverter circuit subject to the requirement.

2014 NEC® Summary of Changes

705.100(A)	ROC 4-209	Revised to provide a specific maximum allowable voltage unbalance (3%) where single-phase inverters are connected to a 3-phase hybrid system or ac where modules are connected to a 3-phase interactive hybrid system.
Article 708		
708.10(A)	ROP 13-159	Revised to require identification of boxes and enclosures containing wiring and equipment associated with a critical operations power system only where other power systems are present in the same building or structure.
708.14(1)	ROP 13-170	Revised to permit a wiring method specified by the system manufacturer that is necessary to achieve intended system performance.
708.14(2)	ROP 13-170	Revised to permit cable shielding to be arranged as specified in the system manufacturer's installation instructions.
708.14(7)	ROP 13-171	Revised to require that all cables used for emergency communications have a 2-hour fire-resistive rating or be rated for use in risers and part of a listed 2-hour electrical circuit protective system.
708.20(F)(5)(a)	ROP 13-172a	Revised to permit generator shutdown per 445.18 as a means to disconnect the COPS source of power for permanently installed generators and for portable generators rated more than 15 kW. Also revised to require compliance with 225.36 only where the feeder conductors from the generator terminate at a disconnecting means in or on a building or structure.
708.20(F)(5)(a)	ROP 13-172a	New requirement covering the use of a flanged inlet or other cord- and plug-type connection as the disconnecting means for a building supply circuit derived from a portable generator rated 15 kW or less.
708.52(B)	ROP 13-174	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the NEC to recognize that commonly used alternative energy systems operate at over 600 volts.
708.52(D)	ROP 13-175	Revised to require use of the manufacturer's recommendations in order to achieve full selectivity between service and feeder OCPDs under ground fault conditions.
708.54	ROC 13-110	Revised to add a requirement on the qualifications of those responsible for selecting the system used to provide selective coordination, and to require documentation be available on the selection of the specific system employed.
708.54 Exception	ROP 13-177, ROP 13-178	New Exception permitting two overcurrent devices connected in series to not be selectively coordinated where a load is not connected in parallel with the downstream device.
Article 725		
725.2, Power-Limited Tray Cable	ROC 3-43a	New definition for a factory assembly of two or more insulated conductors rated at 300 volts, with or without associated bare or insulated equipment grounding conductors, under a nonmetallic jacket.

2014 NEC® Summary of Changes

725.3(K) and (L)	ROC 3-46	Revised by adding new subsections to address installation of conductors with other systems and where installed in corrosive, damp, or wet conditions.
725.48(B)(4)(2)	ROP 3-136	Revised by adding “or greater” after “600 volts” as part of a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
725.49(B)	ROP 3-138	Revised by replacing “Insulation on conductors shall be rated for 600 volts” to “Insulation on conductors shall be rated for the system voltage and not less than 600 volts.”
725.121	ROP 3-140	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.
725.133 and 725.135	ROC 3-57	Revised to include “Cable Routing Assembly” and new Section 725.135 that includes installation requirements for Class 2, Class 3 and PLTC cables. Relocates and revises requirement from 725.154(B)(1) to new subsection 725.135(D), which specifies cables that penetrate from one or more floors to be riser rated.
725.139	ROP 3-118	Revised to include “Cable Routing Assembly” to recognize cable routing assemblies for routing class 2 and class 3 conductors.
725.154	ROC 3-63	Revised by separating the application rules from the installation rules, relocating installation rules to new Section 725.135.
725.179	ROP 3-163a	Revised by changing “nonmetallic signaling raceways” to “nonmetallic communication raceways” to correlate with other sections of the <i>Code</i> .
725.179(A) Informational Note	ROP 3-164	Revised to update to the current edition of the referenced standard.
725.179(F)	ROP 3-165, ROC 3-74	Revised by separating the two methods of establishing cable survivability to clarify the two cable options and marking requirements. Revised Informational Notes to update to the current edition of the referenced standard and to provide reference to the UL guide information for electrical circuit protective systems.
Article 727		
727.6	ROP 3-141	Revised to update to the current edition of the referenced standard.
Article 728		
Article 728	ROP 3-170, ROC 3-81, ROC 83a and 83b	New article that includes installation requirements for fire resistive cable systems.
Article 750		
Article 750	ROP 13-180	New article covers the installation and operation of energy management systems.

2014 NEC® Summary of Changes

Article 760		
760.3(D)	ROP 3-173	Revised by updating referenced <i>NEC</i> sections to assure that fire alarm cables installed in corrosive, damp, and wet locations are acceptable for these conditions.
760.24	ROP 3-178	Revised by including installation requirements for circuit integrity cable.
760.32	ROP 3-178a	Revised by clarifying that all non-power-limited and power-limited signaling system circuits entering a building must be provided with transient protection. The new Informational Note provides an example of a suitable protective device, tested to the requirements of ANSI/UL 497B, <i>Protectors for Data Communications</i> .
760.49(B)	ROP 3-182	Revised by replacing “Insulation on conductors shall be rated for 600 volts” to “Insulation on conductors shall be rated for the system voltage and not less than 600 volts.”
760.51(B)	ROP 3-183	Revised to clarify that this section is only applicable to non–power-limited fire alarm circuit conductors.
760.53(B)(3)	ROC 3-98	Revised by specifying risers penetrating one or more floors shall be Type NPLFR.
760.133 and 760.135	ROC 3-101	Revised by separating the application rules from the installation rules by relocating installation rules to new Section 760.135.
760.139	ROP 3-171	Revised to recognize cable routing assemblies as a recognized method for routing fire alarm cables.
760.154	ROC 3-104	Revised by separating the application rules from the installation rules, and relocating installation rules to new Section 760.135.
760.176(B)	ROP 3-207	Revised by replacing “Insulation on conductors shall be rated for 600 volts” to “Insulation on conductors shall be rated for the system voltage and not less than 600 volts.”
760.176(C) Informational Note	ROP 3-164	Revised to update to the current edition of the referenced standard.
760.176(D) Informational Note	ROC 3-53	Revised to update to the current edition of the referenced standard.
760.176(E) Informational Note	ROC 3-53	Revised to update to the current edition of the referenced standard.
760.176(F)	ROC 3-109	Revised by separating the two methods of establishing cable survivability to clarify the two cable options and marking requirements. Revised the Informational Notes to update to the current edition of the referenced standard and to provide reference to the UL guide information for electrical circuit protective systems.
760.176(F) Informational Note	ROP 3-209	Revised by updating the referenced section of NFPA 72.

2014 NEC® Summary of Changes

760.179(G)	ROC 3-111	Revised by separating the two methods of establishing cable survivability to clarify the two cable options and marking requirements. Revised the Informational Notes to include electrical circuit protective system, to update to the current edition of the referenced standard, and to provide reference to the UL guide information for electrical circuit protective systems.
760.179(G) Informational Notes	ROP 3-210, ROP 3-211	Revised by updating the referenced section of NFPA 72 and to include electrical circuit protective systems.
Article 770		
770 Informational Note	ROP 16-21	Revised by adding a reference to see Informational Note Figures 800(a) and 800(b) for illustrative application of a bonding conductor or grounding electrode conductor.
770.2 Definitions	ROP 16-22	Revised to specify reference to “Part I” of Article 100.
770.2 Abandoned Optical Fiber Cable, Informational Note	ROP 16-25	Revised to specify reference to “Part I” of Article 100 for the definition of equipment.
770.2 Electrical Circuit Protective System	ROP 16-26a	New definition has been added to describe components and materials intended for installation as protection for specific electrical wiring systems.
770.2 Exposed (To Accidental Contact), Informational Note	ROP 16-27	Revised to refer to “Part I” of Article 100 for additional definitions of <i>exposed</i> .
770.2 Innerduct	ROP 16-28	A new definition has been added to describe the term “ <i>innerduct</i> .”
770.2 Optical Fiber Cable	ROC 16-10	Revised by removing explanatory information: “that transmits light for control, signaling, and communications” to more clearly.” New Informational Note added to describe installation methods.
770.2 Point of Entrance	ROP 16-31	Revised by adding the term “optical fiber” to clarify the definition.
770.3(B)	ROP 16-36	New provision that specifies optical fiber cables are subject to the requirements of 300.22(A)
770.12	ROP 16-38a	Revised by replacing “optical fiber raceways” with “communications raceways” to correlate with new Section 800.12.
770.24	ROP 16-42, ROC 16-17	Revised by adding language requiring that cable ties used in “other spaces for environmental air” be listed as having adequate fire-resistant and low smoke-producing characteristics.
770.24 Informational Note No. 1	ROP 16-43	Revised to update the edition of the referenced standard.
770.24 Informational Note No. 2	ROP 16-44	Revised by updating the edition of the referenced standard and applicable referenced sections for this standard.
770.26	ROC 16-24	Revised by including “communication raceways” to correlate with new Section 800.12.

2014 NEC® Summary of Changes

770.47	ROC 16-26	New section that includes provisions for optical fiber cables installed underground entering buildings. Two new Exceptions relax separation requirements where those adjacent systems are installed in prescriptive wiring methods.
770.48(B)	ROP 16-47	Revised by changing to a list format to enhance usability.
770.49	ROP 16-48	New section that includes grounding provisions metallic entrance conduit.
770.93(B) Informational Note	ROP 16-49	New Informational Note referring to 770.2 for the definition of <i>Point of Entrance</i> .
770.100(A)(4)	ROP 16-50	New section that includes provisions for limiting the length of the bonding or grounding conductor and maximum length of 20 feet for one- and two-family dwellings. Added a new Exception that permits exceeding 20 feet when it is impractical, provided a separate ground rod is driven. This correlates with Sections 800.100(A), 820.100(A), and 830.100(A).
770.100(A)(6)	ROP 16-51	Revised to clarify bonding conductor and grounding electrode conductor physical protection requirements and to correlate with Sections 800.100(A)(6), 820.100(A)(6), and 830.100(A)(6).
770.100(B)(1) Informational Note	ROP 16-52	Revised to specify a reference to “Part I” of Article 100 for the definition of <i>intersystem bonding termination</i> .
770.100(B)(1)	ROP 16-53	Revised by removing the term “grounding electrode conductor” to clarify the conductor specified by this requirement is a bonding conductor.
770.100(B)(2)(7)	ROP 16-56	Revised by changing the term “grounding conductor” to “grounding electrode conductor” to correlate with the term defined in Article 100.
770.100(B)(3)	ROP 16-54	Revised by adding the term “grounding” before “electrode” to correlate with the term <i>grounding electrode</i> defined in Article 100.
770.100(B)(7)	ROP 16-55	Revised by changing the term “grounding conductor” to “grounding electrode conductor” to correlate with the term defined in Article 100.
770.110	ROC 16-31	Revised the title to include “Cable Routing Assemblies” as a wiring method permitted for optical fiber cables. Revised Section 770.110(A)(2) by replacing “other permitted raceways” with “communications raceways” to correlate with new Section 800.12.
770.110(C)	ROP 16-57	New subsection has been added that includes installation and support requirements for cable routing assemblies.
770.113	ROP 16-62	Revised to clarify the types of raceways specified in Articles 770, 800, and 820 permitted for optical fiber cable, and to provide specific cable types and installation requirements in other spaces used for environmental air.
770.133	ROP 16-66	Revised the threshold voltage from 600 to 1000 volts in conjunction with a coordinated effort throughout the <i>NEC</i> to recognize that commonly used alternative energy systems operate at over 600 volts.

2014 NEC® Summary of Changes

770.133(B) and (C)	ROP 16-67, ROP 16-68	Revised to include “box” and “cable routing assembly” that enclose optical fiber cables, in the list of items permitted to occupy the space with other conductors as specified in this section. Changed the reference to Part “IV” to Part “V” of Article 800, because Part V addresses requirements for wiring within a building.
770.133(C)	ROP 16-69	Revised to include a reference to Article 645 for Class 2 and Class 3 remote-control, signaling, and power-limited circuits and correlation with the new definition of cable <i>routing assemblies</i> .
770.154 and Table 770.154(a)	ROP 16-71	Revised the title by removing “Raceways, and Cable Routing Assemblies.” Revised to limit the table purpose to permitted and non-permitted applications of listed optical fiber cables, and to correlate with the new definition of <i>cable routing assemblies</i> .
770.179	ROP 16-75	Revised to require specific marking requirements for field-assembled cable components.
770.179(E)	ROP 16-26a, ROC 16-38	Revised to specify that cables used for survivability of critical circuits are required to be listed and to be either circuit integrity cable (CI) or fire resistive cable that is part of an electrical circuit protective system.
770.179(F)	ROP 16-75, ROC 16-37	Revised to require specific marking and listing requirements for field assembled optical fiber cable.
770.179(A), (B), (D), and (E)	ROP 16-76, ROP 16-78	Revised to update the edition of the referenced standard.
770.180	ROP 16-80	New section that includes requirements for listing of grounding devices.
Chapter 8 Summary of Changes in 2014 NEC®		
Article 800		
800.2	ROP 16-82	Revised to specify reference to “Part I” of Article 100.
800.2 Abandoned Communications Cable, Informational Note	ROP 16-83	Revised to specify reference to “Part I” of Article 100 for the definition of equipment.
800.2 Electrical Circuit Protective System	ROP 16-85a	New definition has been added to describe components and materials intended for installation as protection for specific electrical wiring systems.
800.2 Exposed (to Accidental Contact) Informational Note	ROP 16-86	Revised to specify reference to “Part I” of Article 100.
800.2 Innerduct	ROP 16-87	New definition of <i>innerduct</i> , which is described as a nonmetallic raceway placed within a larger raceway.
800.2 Point of Entrance	ROP 16-88	Revised by removing the grounding requirements from the definition and relocating them to new Section 800.49.
800.3(D)	ROP 16-92	New subsection specifying that the requirements of Section 110.3(B) are applicable to installations under the purview of Article 800.

2014 NEC® Summary of Changes

800.4(A)(4)	ROP 16-96	Revised by adding “and sets of overhead service conductors” to correlate with revised service terminology and by replacing “nongrounded” with “ungrounded” to correlate with the term in Article 250.
800.12	ROP 16-97	New section that permits communications raceways to be installed as innerduct in any type of listed raceway permitted by Chapter 3.
800.24	ROP 16-100, ROC 16-17	Revised by adding language requiring that cable ties used in “other spaces for environmental air” be listed as having adequate fire-resistant and low smoke-producing characteristics.
800.24 Informational Note 2	ROP 16-102	Revised by updating the edition of the referenced standard and including specific requirements for discrete combustible components in ceiling cavity plenums and raised floor plenums.
800.26	ROP 16-103	Revised to include “cable routing assemblies” under the provisions of this section for limiting the spread of fire or products of combustion.
800.49	ROP 16-104	New section that relocates the grounding requirements from the definition of <i>point of entrance</i> .
800.90(B) Informational Note	ROP 16-107	Revised to include the term “bonding conductor” to correlate with the term used in other sections throughout the <i>Code</i> .
800.100(B)(1) Informational Note	ROP 16-109	Revised to specify reference to “Part I” of Article 100.
800.100(B)(2)(3)	ROP 16-110	Revised to specify the intersystem bonding termination is accomplished by those methods described in Section 250.94.
800.100(B)(2)	ROP 16-111	Revised by replacing “grounding electrode conductor” with “bonding conductor” to clarify the conductor that connects to a bonding device (intersystem bonding) is a bonding conductor.
800.100(B)(3)(1)	ROP 16-112	Revised by adding the term “grounding” before electrode to clarify that it is a grounding electrode that is being connected to, and to correlate with the term “grounding electrode” as it is used throughout the <i>Code</i> .
800.106(A)(1)	ROP 16-114	Revised by adding “grounding terminal” after primary protector to specify which terminal on the protector is connected to the grounding electrode.
800.106(A)(2)	ROP 16-115	Revised by adding “grounding terminal” after primary protector to specify which terminal on the protector is connected to the grounding electrode.
800.110	ROC 16-54	Revised to include “cable routing assemblies” to recognize cable routing assemblies as a recognized method for communication wires and cables. This revision includes specific securing and supporting requirements for both vertical and horizontal installations.

2014 NEC® Summary of Changes

800.113	ROP 16-119	Revised to include plenum cable routing assemblies into the installation rules for communications cables and raceways, and other (riser and general-purpose) cable routing assemblies. Updated the edition of the referenced standard in the Informational Notes.
800.133(A)(1), 800.133(A)(1)(a), and 800.133(A)(1)(b)	ROP 16-124	Revised to include “cable routing assemblies” and reference the appropriate part of each article that deals with wiring within a building.
800.133(A)(1)(b)	ROP 16-126	Revised to include a reference to Article 645 for Class 2 and Class 3 remote-control, signaling, and power-limited circuits.
800.154	ROP 16-131	Revised to include “cable routing assemblies” and to create three application tables: one for communications wires and cables, a second for communications raceways, and third for cable routing assemblies.
800.170(C)	ROP 16-135	New subsection for plenum grade cable ties required to be listed as having low smoke and heat release properties. Also added a new Informational Note directing users to NFPA 90A-2012 and ANSI/UL 2043 for additional information for listing discrete products as having low smoke and heat release properties.
800.179(G)	ROP 16-137	Revised to specify that cables used for survivability of critical circuits shall be listed and be either circuit integrity cable (CI) or fire resistive cable that is part of an electrical circuit protective system.
800.179(I)	ROP 16-138	Revised to specify that where listed hybrid and communications cables are a listed Type NM or NM-B, they must comply with Part III of Article 334.
800.180	ROP 16-139	New section that includes listing requirements for grounding devices.
800.182	ROP 16-140	Revised to include plenum, riser, and general purpose cable routing assemblies and by updating the edition of the referenced standard.
Article 810		
810.1	ROC 16-68	Revised to include flat antennas within the scope of Article 810 and by changing “dish” to “parabolic” antennas.
810.2	ROP 16-142	Revised to specify reference to “Part I” of Article 100.
810.6	ROP 16-144 ROC 16-74	New section that includes listing requirements of “antenna lead-in protectors.” An Informational Note has also been added to refer to UL Subject 497E, <i>Outline of Investigations for Protectors for Antenna Lead-In Conductors</i> for additional information.
810.7	ROP 16-145	New section that includes listing requirements for grounding devices.
810.16(B)	ROP 16-147	Revised to include “flat” antennas and the term “dish” to “parabolic” which more accurately describes antennas.
810.21(F)(3)	ROP 16-152	Revised by adding the term “grounding” before electrode to clarify that it is a grounding electrode that is being connected to, and to correlate with the term “grounding electrode” as it is used throughout the <i>Code</i> .

2014 NEC® Summary of Changes

Article 820		
820 Informational Note	ROP 16-154	Revised to refer to Figures 800(a) and 800(b) to clarify the difference in application between a bonding conductor and a grounding electrode conductor.
820.2	ROP 16-155	Revised to specify reference to “Part I” of Article 100.
820.2 Abandoned Coaxial Cable, Informational Note	ROP 16-156	Revised to specify reference to “Part I” of Article 100 for the definition of equipment.
820.2 Exposed (to Accidental Contact), Informational Note	ROP 16-158	Revised to refer to “Part I” of Article 100 for additional definitions of <i>exposed</i> .
820.2 Point of Entrance	ROP 16-159	Revised by removing the grounding requirements from the definition and relocating them to new Section 820.49.
820.3(B) and (C)	ROP 16-160	New subsections added to include reference to 300.22(A) for “wiring in ducts for dust, loose stock or vapor removal” and 300.22(C)(3) for “equipment in other spaces used for environmental air.”
820.3(H)	ROP 16-163	Revised to include references in Article 800 for the application and installation rules for community antenna and radio distribution systems.
820.24	ROP 16-166, ROC 16-17	Revised by adding language requiring that cable ties used in “other spaces for environmental air” be listed as having adequate fire-resistant and low smoke-producing characteristics.
820.24, Informational Note No. 2	ROP 16-168	Revised by updating the edition of the referenced standard and including specific sections for requirements for discrete combustible components in ceiling cavity plenums and raised floor plenums.
820.26	ROP 16-169	Revised by replacing “CATV raceways” with “communication raceways” to correlate with current terminology.
820.44(D)	ROP 16-170	Revised by deleting “for the purpose” to provide consistency with the definition of <i>identified</i> in Article 100.
820.47(A)	ROP 16-171	Revised to include Class I and non–power-limited fire alarm circuit conductors.
820.49	ROP 16-176	New section that relocates the grounding requirements from the definition of <i>point of entrance</i> to a new section.
820.93 Informational Note	ROP 16-177	Revised by adding the term “block” after grounding to clarify that the intent is to locate the grounding block near the grounding location.
820.93(B) Informational Note	ROP 16-178	New Informational Note that refers to 820.2 for the definition of <i>point of entrance</i> .
820.100 Exception	ROP 16-181	Revised by adding the term “bonding jumper” to correlate with the term defined in Article 100.
820.100(A)(4)	ROP 16-183	Revised by adding “bonding conductor” to provide consistency with the application and other text within this section.

2014 NEC® Summary of Changes

820.100(B) Informational Note	ROP 16-184	Revised to specify reference to “Part I” of Article 100.
820.100(B)(2)(3)	ROP 16-185	Revised to specify that intersystem bonding termination is one of the methods described in Section 250.94.
820.100(B)(2)	ROP 16-186	Revised by replacing “grounding electrode conductor” with “bonding conductor” to clarify that the conductor that connects to a bonding device (intersystem bonding) is a bonding conductor.
820.100(B)(3)(1)	ROP 16-187	Revised by adding the term “grounding” before electrode to clarify that it is a grounding electrode that is being connected to, and to correlate with the term “grounding electrode” as it is used throughout the <i>Code</i> .
820.100(B)(3)(2)	ROP 16-188	Revised to prohibit steam or hot water pipes or air terminal conductors (lightning-rod conductors) as grounding electrodes for bonding conductors or grounding electrode conductors.
820.106(A)(1)	ROP 16-189	Revised by replacing “ground” with “grounding terminal” to clarify that it is the grounding terminal of the surge arrester that is required to be connected to the grounding electrode.
820.106(A)(2)	ROP 16-190	Revised by replacing “ground” with “grounding terminal” to clarify that it is the grounding terminal of the surge arrester that is required to be connected to the grounding electrode.
820.110	ROP 16-191	Revised to include cable routing assemblies to recognize cable routing assemblies as a recognized method for coaxial cables. This revision includes specific securing and supporting requirements for both vertical and horizontal installations.
820.113	ROP 16-194	Revised to include plenum cable routing assemblies into the installation rules for communications cables and raceways, and other (riser and general-purpose) cable routing assemblies. Updated the edition of the referenced standard in the Informational Notes.
820.133(A)(1), 820.133(A)(1)(a), and 820.133(A)(1)(b)	ROP 16-199	Revised to include “cable routing assemblies” and reference the appropriate part of each article that deals with wiring within a building.
820.133(A)(1)(b)	ROP 16-201	Revised to include a reference to Article 645 for Class 2 and Class 3 remote-control, signaling, and power-limited circuits.
820.154	ROP 16-204	Revised to include plenum cable routing assemblies.
820.180	ROP 16-211	New section that includes listing requirements for grounding devices.
Article 830		
830 Informational Note	ROP 16-212	Revised to refer to Figures 800(a) and 800(b) to clarify the difference in application between a bonding conductor and a grounding electrode conductor.
830.2	ROP 16-213	Revised to specify reference to “Part I” of Article 100.

2014 NEC® Summary of Changes

830.2 Abandoned Network-Powered Broadband Communications Cable, Informational Note	ROP 16-214	Revised to specify reference to “Part I” of Article 100 for the definition of equipment.
830.2 Exposed (to Accidental Contact), Informational Note	ROP 16-215	Revised to refer to “Part I” of Article 100 for additional definitions of <i>exposed</i> .
830.2 Point of Entrance	ROP 16-217	Revised by removing the grounding requirements from the definition and relocating them in new Section 800.49. Added “network-powered broadband communications” to clarify the definition.
830.3(B)	ROP 16-219	New subsection that includes a reference to 300.22(A) for “wiring in ducts for dust, loose stock or vapor removal.”
830.3(C)	ROP 16-220	Revised to reference the specific section in 300.22 and to correlate with Articles 800 and 840.
830.3(D)	ROP 16-221	Revised by updating the references to specify the applicable part of an article.
830.3(F)	ROP 16-222	Revised to include references in Article 800 for the application and installation rules for network-powered broadband communications systems.
830.24	ROP 16-225, ROC 16-17	Revised by adding language requiring that cable ties used in “other spaces for environmental air” be listed as having adequate fire-resistant and low smoke-producing characteristics.
830.24 Informational Note 2	ROP 16-227	Revised by updating the edition of the referenced standard and including specific sections for requirements for discrete combustible components in ceiling cavity plenums and raised floor plenums.
830.49	ROP 16-234	New section that relocates the grounding requirements from the definition of <i>point of entrance</i> to a new section.
830.90(A)(1)	ROP 16-235	Revised by adding the term “bonding conductor” and “grounding electrode conductor” to correlate with defined terms in Article 100.
830.100(B)(1)	ROP 16-237	Revised to specify reference to “Part I” of Article 100.
830.100(B)(2)(3)	ROP 16-238	Revised to specify that the intersystem bonding termination is one of those methods described in Section 250.94.
830.100(B)(2)	ROP 16-239	Revised by replacing “grounding electrode conductor” with “bonding conductor” to clarify that the conductor that connects to a bonding device (intersystem bonding) is a bonding conductor.
830.100(B)(3)(1)	ROP 16-241	Revised by inserting the term “grounding” before electrode to correlate with the defined term in Article 100.
830.100(B)(3)(2)	ROP 16-242	Revised by inserting the term “grounding” before electrode, to correlate with the defined term in Article 100 and with similar text in 800.100(B)(3)(2) and 820.100(B)(3)(2).

2014 NEC® Summary of Changes

830.106(A)(1)	ROP 16-243	Revised to add cable shield and network-powered broadband communications cable metallic members not used for communications or powering to the list of components required to be grounded. This revision replaces “ground” with “grounding terminal” to clarify that it is the grounding terminal of the surge arrester that is required to be connected to the grounding electrode.
830.106(A)(2)	ROP 16-244	Revised to add cable shield and network-powered broadband communications cable metallic members not used for communications or powering to the list of components required to be grounded. This revision replaces “ground” with “grounding terminal” to clarify that it is the grounding terminal of the surge arrester that is required to be connected to the grounding electrode.
830.110	ROP 16-245	Revised to include “cable routing assemblies” and “communication raceways” as recognized methods for network-powered broadband communications cables. This revision includes specific securing and supporting requirements for both vertical and horizontal installations.
830.113	ROC 16-95	Revised to include plenum cable routing assemblies into the installation rules for communications cables and raceways and other (riser and general-purpose) cable routing assemblies. This revision also updates the edition of the referenced standard in the informational notes.
830.133(A)(1)	ROP 16-250, ROP 16-251, ROP 16-252	Revised to include “cable routing assemblies” under the provisions of this section requiring separation of conductors.
830.154	ROP 16-255	Revised to include plenum cable routing assemblies.
830.180	ROP 16-258	New section that includes listing requirements for grounding devices.
Article 840		
840.1 Informational Note	ROC 16-104	Revised by adding “optical fiber” to provide clarity.
840.2	ROP 16-265	Revised to specify reference to “Part I” of Article 100.
840.2 Fiber-to-the Premises (FTTP)	ROC 16-113	Revised to include “fiber” after optical to correlate with the defined term in 770.2. Revised by removing installation requirements from the definition.
840.3(B)	ROP 16-269	New subsection added to include reference to 300.22(A) for “wiring in ducts for dust, loose stock or vapor removal.”
840.3(C)	ROP 16-270	New subsection added to include reference to 300.22(A) for 300.22(C)(3) for “equipment in other spaces used for environmental air.”
840.3(D)	ROP 16-272	New subsection referencing Section 110.3(B) for installation and use.
840.3(E)	ROP 16-271	Revised by updating the references to specify the applicable part of an article.

2014 NEC® Summary of Changes

840.44(A)(4)	ROP 16-272	Revised by adding “and sets of overhead service conductors” to correlate with revised service terminology.
840.48 Informational Note No. 2	ROP 16-279	Revised by adding “point of” before entrance and deleting “point” after entrance to correlate with the defined term <i>point of entrance</i> .
840.49		New section that refers to 770.49, and that includes grounding provisions for metallic entrance conduit.
840.93	ROP 16-281	Revised by adding a new introductory paragraph specifying that non-current-carrying metallic members of optical fiber cables, communications cables, or coaxial cables entering buildings or attaching to buildings must comply with 840.93(A), (B) or (C).
840.106(A)(1)	ROP 16-283	Revised by specifying noncurrent-carrying metallic members of optical fiber cables shall be connected to a grounding electrode and includes provisions where for those instances where the ONT provides grounding for the coaxial cable shield.
840.106(A)(2)	ROP 16-284	Revised by specifying that non-current-carrying metallic members of optical fiber cables must be connected to a grounding electrode; includes provisions for those instances where the ONT provides grounding for the coaxial cable shield.
840.180	ROP 16-285	New section that includes listing requirements for grounding devices.
Chapter 9 Summary of Changes in 2014 NEC®		
Chapter 9 Notes to Tables, Note 6	ROP 6-111	Revised by adding “actual dimensions” to permit the actual conductor size data to be used for fill calculations.
Chapter 9 Notes to Tables, Note 7	ROP 8-198, ROP 8-199	Revised to clarify calculating the size for conduit or tubing permitted for a single conductor. One conductor is permitted when the calculation results in a decimal greater than or equal to 0.8.
Chapter 9 Notes to Tables, Note 10	ROC 6-77	New note added to clarify the methodical approach to values for approximate diameter of conductors.
Chapter 9 Notes to Tables, Note 9	ROP 8-200	Revised by adding “optical fiber cable” which clarifies it must be treated as a single conductor for calculating percentage conduit fill area.
Chapter 9 Table 1	ROP 8-202	Revised title to “Number of Conductors and/or Cables” and “Cross Sectional Area (%)” to include cables under the purview of the table.
Chapter 9 Table 4	ROP 8-204	Revised by placing the most commonly used conduit fill columns closer to the metric designator and trade size column sizes, to enhance usability of the table.
Chapter 9, Table 5	ROC 6-78	Revised by placing the approximate area columns to the left of approximate diameter columns, to enhance usability of the table.
Chapter 9 Table 8, Informational Note	ROP 6-109	Revised by updating the title and current version of the standard referenced in the informational note.

2014 NEC® Summary of Changes

Chapter 9/Table 10 Note	ROP 1-185a	New Note: "Conductors with a lesser number of strands are shall be allowed permitted based on an evaluation for connectability and bending."
Annexes Summary of Changes in 2014 NEC®		
Annex A		
Annex A	ROC 1-111, ROP 1-112, ROP 1-113	Revised by updating references to numerous UL and other product standards.
Annex A	ROP 186a	Revised by deleting reference to paragraph numbers, because no paragraph numbering exists.
Annex C		
Tables C.1 through C.12(A)	ROP 8-204a	Revised tables by adding and removing insulation types and adding additional trade sizes based on requirements if applicable.
Annex D		
Example D.1(d)	ROC 6-117a	New example showing application of revised service and feeder conductor ampacity calculation per 310.15(B)(7).
Example D3(a)	ROP 2-264	Revised air compressor horsepower rating from 7.5 to 5 in order to preserve the comparison between the 90°C ampacity of a 1 AWG copper conductor and the 75°C ampacity of a 1/0 AWG copper conductor. This change was necessitated by the revision of the 90°C ampacity for a 1 AWG copper conductor from 150 amperes to 145 amperes in Table 310.15(B)(16).
Example D4(b)	ROC 2-122	Revised to indicate that the individual dwelling unit calculations are performed using Parts I through III of Article 220 (i.e. "Standard Calculation").
Example D5a	ROP 2-266	Revised neutral calculation for individual dwelling feeder to indicate that applying a reduction factor (70%) is not permitted.
Example D7	ROP 6-117a	New example added to describe the application of 310.15(B)(7).
Annex H		
Annex H	ROP 1-189	Revised editorially to enhance usability and understanding.
Annex I		
Annex I Table I.1, I.2, and I.3	ROP 1-191	Revised by deleting Column A from the Tables. Column A values are not intended for installed equipment.
Annex J		
Annex J	ROP 1-191a	New Annex J added to address usability and information for ADA electrical requirements.