

NEW YORK ELECTRICAL INSPECTION AGENCY

2017 National Electrical Code Changes – Summary of Residential Only

- 1) **90.3** – Chapters 5-7 may supplement or modify the general requirement of Chapters 1-7 and not just 1-4
- 2) **100 Definition** – Readily Accessible does not consider a key a tool under controlled & supervised condition
- 3) **100 Definition** – Receptacle definition added listed locking support and mounting devices
- 4) **110.14(D)*** - When torquing is indicated by the manufacturer, a torque wrench is required to be used
- 5) **110.21(A)(2)** – Marking is required on all reconditioned equipment to include date, who did it, etc.
- 6) **110.26(A)(4)** – Additional requirements regarding working space for equipment located in areas with limited access such as crawlspaces and above suspended ceilings.
- 7) **110.26(E)(2)** – Exterior enclosures must be protected from accidental contact by unauthorized personnel and vehicular traffic, and protected from accidental spillage or leakage from piping systems.
- 8) **210.8 Info Note #2*** - Clarification on how to properly measure the distance of a GFCI receptacle.
- 9) **210.8(A)(7)*** - Clarification on how to properly measure the distance of a GFCI receptacle at sinks.
- 10) **210.8(E)*** – GFCI protection is required for lighting outlets/fixtures in crawlspaces.
- 11) **210.11(C)(4)*** - At least one 120-volt, 20 amp branch circuit is required to supply garage receptacles
- 12) **210.17** – Requirements for electric vehicle branch circuits has moved from section 210.17 to 625.40
- 13) **210.52(A)(2)(1)** – Wall space containing fixed cabinets (bookshelves) that do not contain countertops, does not count as wall space when calculating wall space for required receptacles.
- 14) **210.52 (B)(1) Exception. No.2** - Allows all appliances and not just the refrigerator to be supplied by a branch circuit 15 amps or greater and not the 20 amp small appliance branch circuit.
- 15) **210.52(C)(3)** - The point of measurement of the peninsula countertop has been changed from the “connecting edge” to the “connecting perpendicular wall”.
- 16) **210.52(G)** - Required receptacles for basements, garages, & accessory bldgs. include “2-family dwellings”
- 17) **210.52(G)(1)*** – In each attached and detached garage, at least one required receptacle must be in each vehicle bay and cannot be more than 5 ½ ft above the floor.
- 18) **230.24(B)(5)** – Overhead wires above rail road tracks must be at least 24.5 ft
- 19) **230.29** - Bonding is required for grounded overhead service conductors where metal supports are used
- 20) **250.52(B)(3)** – In-ground swimming pool structures cannot be used as a grounding electrode
- 21) **250.94(B)** – Intersystem Bonding Terminations has renamed the title of this section and “Other Means” was added to allow for an alternate connection option on a common bus bar with exceptions
- 22) **250.148** – All equipment grounding conductors associated with any and all circuits in a box must be connected together and to the box and not just each equipment grounding conductors of each indiv circuit
- 23) **300.5 Footnote a** – Lesser depth allowed for listed underground low-voltage lighting systems.
- 24) **300.5 Footnote b** – Wiring in a nonmetallic raceway not more than 30 volts where part of a listed low-voltage lighting system is allowed at a depth of 6” around pools, spas, fountains.
- 25) **300.5 (D)(4)** – Electric metallic tubing (EMT) allowed underground and for protection from physical damage
- 26) **314.16 (A) & (B)** –Box volume and fill calculations for boxes with an internal barrier. (Newly added)
- 27) **314.17 (B)** – Exterior sheathing of Type NM or UF cable must extend at least ¼” inside metal boxes.
- 28) **314.27 (E)** – Outlet boxes can be used to support listed locking support and mounting receptacles.
- 29) **320.6** – Listing is required for all Armored Cable (Type AC) wiring methods and associated fittings.
- 30) **358.10** – Uses for EMT has been changed to align with other steel conduit articles (such as IMC & RMC)
- 31) **404.2 (C)** – The grounded conductor of a lighting circuit switch must be connected to the electronic device.
- 32) **406.2** – Definition has been added to 406.2 for “Outlet Box Hood”
- 33) **406.3 (E)** – Receptacles controlled by an automatic control device must be permanently & clearly marked.
- 34) **406.3 (F)** – Requirements have been added for receptacle outlets with a built in USB charger(s).

PLEASE CONTACT OUR MAIN OFFICE OR YOUR LOCAL INSPECTOR IF YOU HAVE ANY QUESTIONS

NEW YORK ELECTRICAL INSPECTION AGENCY

Fritz Gunther – Chief Electrical Inspector

2767 Dewey Avenue – Rochester, New York 14616 – (585) 436-4460 – www.NYEIA.com

© 2020 New York Electrical Inspection Agency

NEW YORK ELECTRICAL INSPECTION AGENCY

2017 National Electrical Code Changes – Summary of Residential Only

- 35) **406.4 (D)(4) Exc No1 & No2*** – Exceptions were added for AFCI requirements when replacing an outlet.
- 36) **406.4 (D)(5)** – Replacement of two-pronged non-grounded receptacle with same does not need to be TR.
- 37) **406.6 (D)** – Requirements added to faceplates with integral night lights and/or USB chargers.
- 38) **406.12** – TR Receptacles are also required in Mobile Homes and all businesses where kids will likely be
- 39) **406.15** – Dimmer-Controlled Receptacles have been deleted from the Code – Not allowed anymore
- 40) **408.3 (A)(2)** – Barriers must be installed on all ungrounded/uninsulated service busbar or service terminals inside panels
- 41) **422.16 (B)(2)** – Flexible cord on built-in dishwashers increased maximum length to 6 ½ ft
- 42) **422.16 (B)(4)** – Flexible cord on cord and plug connected range hood increased maximum length to 4 ft
- 43) **424.45** – New requirements added for heating cables located under floor coverings.
- 44) **440.65** – Heat Detection Circuit Interrupter (HRCI) added to listed single phase room A/C units
- 45) **445.18** – Standby Generator requires a disconnect means and shutdown of the prime mover
- 46) **550.13 (B)** – GFCI protection for mobile and manufactured homes revised to the same as 210.8(A)
- 47) **550.25 (B)** – AFCI protection for mobile and manufactured homes revised to the same as 210.12
- 48) **551.2** – Definition for Recreational Vehicle (RV) parks revised to align with other Code standards
- 49) **555** – Requirements for marinas, boatyards, and boat docks include 1-, 2-, and multifamily dwellings
- 50) **555.24** – Requirements for marinas, boatyards, and boat docks include 1-, 2-, and multifamily dwellings
- 51) **590.4(B)** – SE cable is now acceptable to be used for temporary wiring methods
- 52) **590.6(A)(1)*** - Temporary wiring must have GFCI protection on all 15-, 20, & 30-amp 125volt single phase
- 53) **625** – Article 625 for Electric Vehicle Charging Systems has been reorganized.
- 54) **625.2** – New definitions have been added for wireless power transfer & wireless power transfer equipment
- 55) **625 Part IV** – New Part IV added for Wireless Power Transfer Equipment for charging electric vehicles
- 56) **680.2** – New requirements added for Electrically Powered Lifts in swimming pools
- 57) **680.7** – Pool grounding and bonding terminals must be listed for wet and corrosive environment
- 58) **680.11** – Table 680.10 for underground wiring around pools has been deleted. Refer to Table 300.5
- 59) **680.12 & 14** – Protections added for electrical equipment of pools in corrosive environments and in pits
- 60) **680.21 (A)*** – In non-corrosive environments any approved wiring method is accepted
- 61) **680.22 (A)(2)*** – Pool pump motor receptacle no longer needs to be a single receptacle
- 62) **680.22(B)(7)** – New requirements for low-voltage gas fired lights, fireplaces, and similar equipment
- 63) **680.25(A)*** – Revisions made to swimming pool panelboard feeders
- 64) **680.28*** – GFCI protection is now required for gas-fired pool heaters
- 65) **680.74** – Bonding requirements for hydromassage tubs have been modified into list format.
- 66) **682.15** – GFCI protection for personnel is required around natural and artificial bodies of water
- 67) **702.12 (C)** – Power inlets on portable generators rated at 100 amps or greater cannot be disconnected while under loads

* = Key Change

PLEASE CONTACT OUR MAIN OFFICE OR YOUR LOCAL INSPECTOR IF YOU HAVE ANY QUESTIONS

NEW YORK ELECTRICAL INSPECTION AGENCY

Fritz Gunther – Chief Electrical Inspector

2767 Dewey Avenue – Rochester, New York 14616 – (585) 436-4460 – www.NYEIA.com

© 2020 New York Electrical Inspection Agency