



**VILLAGE OF SUGAR GROVE
KANE COUNTY, ILLINOIS**

Ordinance No. 2016-0405H

**AN ORDINANCE ADOPTING CERTAIN NATIONAL CODES
(2015 NATIONAL ELECTRIC CODE)**

Adopted by the
Board of Trustees and President of the Village of Sugar Grove
this 5th day of April, 2016

Published in pamphlet form by authority of the
Board of Trustees of the Village of Sugar Grove, Kane County, Illinois
this 5th day of April, 2016

VILLAGE OF SUGAR GROVE

ORDINANCE NO. 2015-0405H

AN ORDINANCE ADOPTING CERTAIN NATIONAL CODES (2015 NATIONAL ELECTRIC CODE)

BE IT ORDAINED by the Board of Trustees of the Village of Sugar Grove, Kane County, Illinois as follows:

WHEREAS; the Village of Sugar Grove is not a home rule municipality within Article VII, Section 6A of the 1970 Constitution of the State of Illinois and therefore pursuant to those powers granted to it under Chapter 24, Paragraph 132 et. seq. of the Illinois Revised Statutes, and,

WHEREAS; the Board of Trustees finds that the best interest of the Village of Sugar Grove and the health and welfare of the residents of the Village are best served by regulating the construction, reconstruction, and maintenance of buildings and structure with the Village,

NOW THEREFORE BE IT ORDAINED by the President and Board of Trustees of the Village of Sugar Grove, Kane County, Illinois, as follows:

SECTION ONE: That Section, Chapter 1 of the Village Code shall be amended as follows:

Adoption: That a certain document entitled “NFPA 70: The National Electrical Code, 2014 Edition” published by the National Fire Protection Association, One Batterymarch Park, Quincy, Massachusetts, one copy of which is on file at the Building Division of the Community Development Department of the Village of Sugar Grove, is hereby adopted as the “Electrical Code” for the Village of Sugar Grove for regulating the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of electrical systems and equipment in the Village of Sugar Grove as provided; and each and all of the regulations, provisions, penalties, conditions and terms of said “NFPA 70: National Electrical Code, 2014 Edition” are adopted and made a part hereof, as if fully set out in the Code with the additions, insertions, deletions and changes prescribed in this ordinance.

SECTION TWO: That the sections of said codes adopted herein are revised and amended as follows:

Amendments: 2014 National Electrical Code

1. **Article 110.12 Mechanical Execution of Work** is hereby amended by adding the following subsection: “(C) **Unused Wiring.** All wiring, fittings, and electrical materials not in use shall be removed.”
2. **Article 110.13 (A) Mounting** is hereby amended by adding the following subsection: “(C) **Electrical Panel Mounting.** All electric panels mounted on concrete or masonry walls that are either exterior walls or below grade, shall have a minimum of 1/2 inch plywood installed behind

the panel, or the panel shall be mounted to structural mounting channel that provides a minimum 1/2 inch airspace between the panel and the wall, for the purposes of support and to help prevent moisture entering the panel. Such mounting shall allow panel replacement if required.”

3. **Article 210.8(B) Other Than Dwelling Units** is hereby amended by adding the following subsections:

(9) Crawl spaces - at or below grade level

(10) Unfinished basements

Exception No. 1 to (10): Receptacles that are not readily accessible.

Exception No. 2 to (10): A single receptacle or a duplex receptacle for two appliances located within dedicated space for each appliance that, in normal use, is not easily moved from one place to another and that is cord-and-plug connected in accordance with 2014 National Electrical Code sections 400.7(A)(6), (A)(7), or (A)(8).

Exception No. 3 to (10): A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit-interrupter protection.

(11) All general use receptacles installed within 6'-0" of the outside edge of a sink or mop basin - excluding critical care areas in health care facilities where the toilet and basin are installed within the patient room.”

4. **Article 210.52(C)(2) Island Counter Spaces** is hereby amended by adding the following sentence: “At least one receptacle outlet shall be installed at each end of an island counter space.”
5. **Article 210.52(G)(1) Basement, Garages, and Accessory Buildings** is hereby amended by adding the following sentence: “A minimum of one overhead receptacle shall be installed for each garage door in any residential dwelling unit in addition to the code required garage convenience receptacle.”
6. **Article 210.70(A)(3) Storage or Equipment Spaces** is hereby amended by adding the following sentence: “When a sump pump or ejector pump is installed in an area not illuminated, a light shall be provided.”
7. **Article 210.70 Lighting Outlets Required** is hereby amended by adding the following subsection: “**(D) Illumination of Mechanical Equipment.** All occupancies shall have luminaries installed within six (6) feet of the front of all electric panels and within six (6) feet of mechanical heating equipment to enable servicing the equipment.”
8. **Article 210.70(A) Dwelling Units** is hereby amended by adding the following subsection: “**(4) Ceiling Box Support.** All ceiling mounted lighting outlet boxes installed more than three feet from all walls of any room in a dwelling unit shall be listed and shall be marked by the manufacturer as suitable for sole-support of a ceiling-suspended (paddle) fan and shall be secured according to the listing directions. The marking shall include the maximum weight to be supported. Dwelling garages, basements, closets, and bathrooms are excluded.”
9. **Article 225.35 Access to Occupants** is hereby amended by adding the following sentences: “Each tenant shall have direct access to a main service disconnecting means and all panel boards, etc. that contain breakers or fuses that protect any electrical devices in that tenant unit. (Direct

access means a common area that has no locks or the tenant can get to the panel or switchboard without going through another tenant space.)”

10. **Article 230.1 Scope** is hereby amended by adding the following sentence: “Electrical service attachments shall be installed in accordance with the requirements of the electrical utility company, subject to the approval of the Code Official.”
11. **Article 230.30 Installation** is hereby amended by adding the following subsection: “**(C) Service Conductors in Yards.** Electrical services for single-family homes shall be located on the side of the house closest to the electrical source. The service may only be located on the rear of the house if the garage is located on the side closest to the electrical source. All conductors running from the electrical source shall run parallel to the property line to a point 90 degrees from the electrical service. Conductors shall not run through any portion of the rear yard that would prevent the homeowner from constructing an addition or pool without having to relocate the electrical service conductors.”
12. **Article 230.70 General** is hereby amended by adding the sentence: “The service disconnecting means shall be installed at a readily accessible location, either outside of a building or structure, or inside at or within 5 feet of the meter enclosure” and by adding the following subsection: “**(D) Exterior Disconnect for Services Over 400A.** All buildings with a main service at 400 amps or more shall provide a means of disconnect at the building exterior.”
13. **Article 230.91 Location** is hereby amended by adding the following sentence: “The service overcurrent device shall be connected by no more than 5 feet of raceway or service entrance cable from the meter device in dwellings.”
14. **Article 240.24(B) Occupancy** is hereby amended by adding the following sentences: “Each tenant shall have direct access to a main service disconnecting means and all panel boards, etc. that contain breakers or fuses that protect any electrical devices in that tenant unit. (Direct access means a common area that has no locks or the tenant can get to the panel or switchboard without going through another tenant space.)”
15. **Article 300.1(A) All Wiring Installations** is hereby amended by adding the following subsection: “**(1) Non-residential Uses.** With the exception of one- and two- family dwellings and townhouses, all current carrying conductors exceeding 50 volts shall be installed in rigid metal conduit, intermediate metallic conduit, electrical metallic tubing, or flexible metallic tubing with the exception that PVC conduit can be used for corrosive or other special application areas.”
16. **Article 300.11 Securing and Supporting** is hereby amended by adding the following subsection: “**(D) Independent Supporting Methods.** All lighting fixtures, panel boards, switchgear, and / or supporting devices for conduit systems, installed in buildings or structures shall be installed and supported by the building structural components, completely independent of roof or floor deck, piping or ductwork, drywall, or ceiling tile. Lighting fixtures (in ceiling grid systems) shall be supported in accordance to manufacturer’s requirements.”
17. **Article 314.3 Nonmetallic Boxes** is hereby amended by adding the following sentence: “The use of non-metallic boxes is prohibited except for low voltage applications.” and entirely deleting exceptions 1 and 2.

18. **Article 334.40(A) Boxes of Insulating Material** is hereby amended by entirely deleting
19. **Article 334.10 Uses Permitted** is hereby amended by adding the following sentence: "Type NM, Type NMC, and Type NMS cable wiring methods shall be permitted to be used in one- and two-family dwellings and townhouses only."
20. **Article 334.15 Exposed Work** shall be amended by adding the following subsection: "**(D) All Unfinished Areas.** Any exposed cable 7 feet (213.36cm) or closer to the floor must be protected with a durable building material or sleeved in an approved manner."
21. **Article 394 Concealed Knob-and-Tube Wiring** is hereby amended by adding the following subsection: "**394.9 Uses prohibited.** The use of concealed knob-and-tube wiring is prohibited. Existing installations shall not require removal, alteration, or abandonment of, nor prevent the continued utilization and maintenance of properly maintained knob-and-tube wiring lawfully in existence at the time of the adoption of this code. Such installations may only be repaired and shall not be expanded."
22. **Article 404.8(A) Location** is hereby amended by adding the following sentences: "The required wall switch for lighting outlets at every habitable room, bathrooms, accessible attics, underfloor spaces, utility rooms, each area of an unfinished basement, and equipment spaces shall be installed at the usual point of entry to these spaces."
23. **Article 695.3(B) Multiple Sources** is hereby amended by adding the following subsection: "**(3) Signage.** Where a generator provides a secondary source for a fire pump, and the generator feeds other systems, clearly marked key operated shunt trip switch/es must be provided at the fire panel allowing Fire Department personnel the ability to open main breakers to panels not feeding the fire pump."
24. **Article 701.5 Transfer equipment** is hereby amended by adding the following subsection: "**(D) Transfer Equipment Requirements:** Open type transfer switches are the only approved method for connection of standby systems. All transfer switch connections shall be "break before make" to insure the complete separation from the utility system and the generator supply. No parallel operation with the utility system shall be allowed. A minimum time delay of three (3) seconds and a maximum of ten (10) seconds after loss of utility power should be established before starting the generator. Utilization of Kirk Key systems or other mechanical means of isolating generating sources from the utility source are not allowed."

SECTION THREE: Miscellaneous

A. That if any section, subsection, sentence, clause or phrase of this ordinance is, for any reason, held to be unconstitutional, such decision shall not affect the validity of the remaining portions of this ordinance. The Village of Sugar Grove hereby declares that it would have passed this ordinance, and each section, subsection, clause or phrase thereof, irrespective of the fact that any one or more sections, subsections, sentences, clauses and phrases be declared unconstitutional.

B. Savings: That nothing in this Ordinance or in the codes hereby adopted shall be construed to affect any suit or proceeding impending in any court, or any rights acquired, or liability incurred, or any cause or causes of action acquired or existing, under any act or ordinance hereby repealed as cited in Section 3 of this ordinance; nor shall any just or legal right or remedy of any character be lost, impaired or affected by this ordinance.

C. Repealer: All ordinance or provisions of ordinances which are in conflict with this ordinance are hereby repealed.

D. Effective Date: This ordinance shall be in full force and effect from and after its passage, approval, and publication in pamphlet form as provided by law and after ~~6~~- 1, 2016.

PASSED AND APPROVED by the President and Board of Trustees of the Village of Sugar Grove, Kane County, Illinois, on this 5th day of April, 2016.

	<u>AYES</u>	<u>NAYS</u>	<u>ABSTAIN</u>
Kevin Geary	✓	_____	_____
Sean Herron	✓	_____	_____
Mari Johnson	✓	_____	_____
Ted Koch	✓	_____	_____
Rick Montalto	✓	_____	_____
David Paluch	✓	_____	_____
Sean Michels	_____	_____	_____



P. Sean Michels
P. Sean Michels, Village President,
Village of Sugar Grove, Kane County, Illinois

ATTEST: Cynthia L. Galbreath
Cynthia L. Galbreath, Village Clerk,
Village of Sugar Grove, Kane County, Illinois