

User friendly version of the St. Louis County Electrical Code
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AMENDING TITLE XI SLCRO 1974 AS AMENDED,
"PUBLIC WORKS AND BUILDING REGULATIONS" BY
REPEALING AND RE-ENACTING CHAPTER 1102,
"ELECTRICAL CODE."

BE IT ORDAINED BY THE COUNTY COUNCIL OF ST. LOUIS COUNTY,
MISSOURI, AS FOLLOWS:

SECTION 1. Title XI SLCRO 1974 as amended, "Public Works and Building Regulations," Chapter 1102, "Electrical Code," is amended by repealing and re-enacting Chapter 1102, which shall read as follows:

1102.010 Short Title. --This chapter shall be known and may be cited as "The Electrical Code".

1102.020 National Electrical Code Adopted. --Certain documents, three copies of which are filed in the Office of the Administrative Director of the County Council and in the Office of the Director of Highways and Traffic and Public Works, said copies being marked and designated as "National Electrical Code, 2014 as published by the National Fire Protection Association, are hereby adopted as the Electrical Code of St. Louis County, Missouri for the regulation of electrical equipment as herein provided; and each and all of the regulations, provisions, penalties, conditions and terms of said code are hereby referred to, adopted and made a part hereof as if fully set out herein with the additions, deletions and changes as prescribed in this ordinance.

1102.030 Jurisdictional Title. --Throughout the National Electrical Code 2014, wherever the terms "Name of Jurisdiction" or "Local Jurisdiction" appear it shall be deemed to mean "St. Louis County, Missouri." Likewise, wherever the term "Department of Electrical Inspection" appears it shall be deemed to mean "St. Louis County Department of Transportation and Public Works" and wherever the term "code" appears it shall mean the National Electrical Code 2014, as adopted herein with the additions, deletions and changes as prescribed in this ordinance.

1102.040 Contracting with Municipalities and Fire Protection Districts for Code Enforcement Services. - 1. The Code Official, with the approval of the County Executive, is hereby authorized to contract with municipalities and fire protection districts within St. Louis County to provide appropriate electrical code enforcement and further to collect fees for the applicable permits and inspections issued or made pursuant to such contracts. Contracts shall be approved by the Code Official and the County Executive, and shall be approved as to legal form by the County Counselor. No contract shall be entered into until the municipality or fire protection district desiring to contract with St. Louis County for electrical code enforcement shall first have duly adopted appropriate legislation authorizing said contract (a certified copy to be attached to and made a part of the contract) and duly adopted an electrical code identical in substance to this code.

2. The Code Official is authorized to contract with fire protection districts in St. Louis County to provide code enforcement services with respect to building construction and application of commercial and multi-family fire codes adopted by the fire protection districts, including administration, application processing, plan review, permit issuance, and inspections and for County to charge the fire protection districts fees as set out in Section 1100.130 SLCRO as amended to cover the costs of providing such code enforcement services. The contract may further provide for the fire protection district, at its option, to refer for prosecution in St. Louis County Municipal Court, violations of such fire protection district's codes as are enforced within the fire protection district by the County; for the County to retain the proceeds of fines and costs assessed in such prosecutions; and for such other terms and conditions as are approved by the County Counselor.

1102.080 Article 80 - Administration.

80-1 GENERAL

(A) *Title:* These regulations shall be known as the Electrical Code of St. Louis County, Missouri referred to as "this code".

(B) *Intent:* This code shall be construed to secure its expressed intent, which is to insure public health, safety and welfare insofar as they are affected by the installation and maintenance of electrical equipment and electrical systems.

(C) *Scope:* The provisions of this code shall apply to all matters affecting or relating to electrical systems within the unincorporated area of St. Louis County, Missouri and in contracting municipalities. Licensing provisions for licenses issued by St. Louis County shall apply throughout incorporated and unincorporated areas of St. Louis County. Any electrical requirement essential for the safety of an electrical system which is not specifically covered by this code shall be determined by the Code Official.

(D) *Committee of Electrical Code Review - Created:* There is hereby created a Committee of Electrical Code Review. The Committee shall consist of five (5) members appointed by the County Executive and confirmed by the County Council as follows: a graduate engineer actually engaged in the design of electrical equipment, appointed initially for a term of one year and for a term of four (4) years thereafter; a member affiliated with the electrical industry, appointed initially for a term of two (2) years and for a term of four (4) years thereafter; an electrician actually engaged in the trade, appointed initially for a term of three (3) years and for a term of four (4) years thereafter; a registered engineer actually engaged in the design of electrical systems, appointed initially for term of three (3) years and for a term of four (4) years thereafter; an electrical contractor who shall be appointed for a term of four (4) years. The Code Official is a non-voting member and shall act as secretary and shall keep full and complete minutes of the acts and proceedings of the said Committee. The Committee shall elect one of their members to be the chairman and one to be vice chairman. All members shall serve until their successors are appointed and shall serve at the pleasure of the County Executive.

(1) *Committee of Electrical Code Review - Powers and Duties:* The Committee of Electrical Code Review shall meet at least annually in order to consider any proposed changes in this code and to make recommendations to the Building Commission.

(2) *Compensation:* The members of the Electrical Code Review Committee with the exception of full time County employees shall be compensated in accordance with Chapter 201, SLCRO 1974 as amended.

(E) *Applications of References:* Unless otherwise specifically provided for in this code, all references to chapter or section numbers, or to provisions not

specifically identified by number, shall be construed to refer to such chapter, section or provision of this code.

(F) *Board of Electrical Examiners - Created:* The County Executive shall appoint a Board of Electrical Examiners in accordance with the provisions of Article IV, Section 4.330 of the Charter of St. Louis County comprised of one licensed electrical contractor, one educator engaged in the instruction of electrical engineering at the college level, one person affiliated with the electrical industry, one communications contractor, one electrician actively engaged in the trade. The Code Official is a non-voting member and shall act as secretary and shall keep full and complete minutes of the acts and proceedings of said Board. All members shall serve until their successors are appointed and shall serve at the pleasure of the County Executive.

(1) *Board of Electrical Examiners - Powers and Duties:* The electrical contractor shall act as chairman of the Board. The Board members shall elect one of their members to serve as vice chairman. The Code Official shall provide all applicants for a license issued by St. Louis County with proper application forms. The members of the Board shall meet at least six (6) times per year and as often thereafter as shall be necessary for the performance of their duties.

The Board of Electrical Examiners shall determine the qualifications of and provide for the examination of applicants for licenses issued by St. Louis County and have the authority to conduct hearings for violations of this code and determine appropriate sanctions as listed in 1102.80-24.

80-2 APPLICABILITY

(A) *General:* The provisions of this code shall apply to all matters affecting or relating to electrical systems or communications equipment, as set forth in this code.

(B) *Existing Utilization Continued:* Except as otherwise provided for in this code, a provision in this code shall not require the removal, alteration or abandonment of, nor prevent the continued utilization of, an existing electrical system that is maintained in a safe condition.

Exceptions:

(1) Electrical systems serving an occupancy other than the occupancy such systems served at the time this code became applicable.

(2) Electrical systems in a structure moved as specified in this code.

(3) Electrical systems installed by unlicensed persons or without the permits required by this code.

(C) *Additions or Alterations:* Any addition or alteration, regardless of cost, made to an electrical system shall be made in compliance with the applicable regulations of this code. Where additions or alterations subject parts of existing systems to loads exceeding those permitted herein, such parts shall be made to comply with this code.

(D) *Moved Structures:* Buildings and structures moved into or within the jurisdiction shall comply with the provisions of this code for new buildings or structures.

(E) *Seismic Requirements:* Where required by the building code adopted by St. Louis County, electrical equipment shall be designed and installed to resist seismic forces in accordance with the building code.

80-3 EXISTING ELECTRICAL SYSTEMS

(A) *Occupancy Continued:* The legal use group or occupancy of any structure existing on the date of the adoption of this code or for which it had been heretofore approved may be continued without change except as may be specifically covered in this code or deemed necessary by the Code Official for the general safety and welfare of the occupants and the public.

(B) *Alteration, modification or Repairs:* Alteration or substantial repairs shall be permitted to be made to any existing electrical system without causing the complete system to comply with all the requirements of this code provided such work conforms to that required for a new electrical system. Alterations or repairs shall not cause an existing electrical system to become unsafe or adversely affect the performance of the system.

(1) The Code Official may approve the modification or repair of an existing electrical system or part of an electrical system that complies with the code requirements

under which the system or part was installed. Such modification or repair must meet the requirements for licensure and permits contained in this code. Alterations or repairs shall not cause an existing electrical system to become unsafe or adversely affect the performance of the system.

(C) *Additional Loads on Existing Electrical System:* Where additions or alterations subject parts of existing systems to loads exceeding those permitted herein, such parts shall be made to comply with this code.

80-4 MAINTENANCE

(A) *Maintenance of Electrical Systems:* All electrical systems, both existing and new, shall be maintained in a safe condition. All service equipment, devices and safeguards which are required by this code or which were required in the building or structure by previous statute or ordinance shall be maintained in good working order when installed, altered or repaired.

(B) *Owner Responsibility:* The owner or a designated agent shall be responsible for the safe maintenance of the electrical systems in any building, structure or premises at all times.

80-5 VALIDITY

(A) *Partial Invalidity:* In the event any part or provision of this code is held to be illegal or void, this shall not have the effect of making void or illegal any of the other parts or provisions thereof, which are determined to be legal; and it shall be presumed that this code would have been passed without such illegal or invalid parts or provisions.

(B) *Segregation of Invalid Provisions:* Any invalid part of this code shall be segregated from the remainder of this code by the court holding such part invalid, and the remainder shall remain effective.

(C) *Existing Structures:* The invalidity of any provision in any section of this code as applied to existing structures shall not be held to affect the validity of such section in its application to structures hereafter erected.

80-6 OFFICE OF ELECTRICAL INSPECTION

(A) *Office of Electrical Inspection - Created:* There is hereby created and established within the Department of Highways and Traffic and Public Works an Office of Electrical Inspection which has jurisdiction coextensive with the provisions of this code and is charged with the enforcement of the provisions of this code, except as otherwise provided herein or in the Charter of St. Louis County, Missouri. The Office of Electrical Inspection is under the supervision of the Code Official.

(B) *Restriction of Employees:* An official or employee connected with the office of electrical inspection, except one whose only connection is that of a member of the Board of appeals established under the provisions of Chapter 1115, SLCRO 1974 as amended, shall not be engaged in, or directly or indirectly connected with the furnishing of labor, materials or equipment for the construction, alteration or maintenance of an electrical system, or the preparation of construction documents thereof, unless that person is the owner of the building; nor shall such officer or employee engage in any work that conflicts with official duties or with the interests of the office.

(C) *Relief from Personal Liability:* The Code Official, officer or employee charged with the enforcement of this code while acting within the scope of his employment shall not thereby render himself personally liable and he is hereby relieved of all personal liability for any damage that may accrue to persons or property as a result of any act required or permitted in the discharge of his official duties. Any suit instituted against any officer or employee arising out of an act performed by him in the lawful discharge of his duties and under the provisions of this code shall be defended by the legal representative of the jurisdiction until the final termination of the proceedings. The Code Official or any of his subordinates shall not be liable for cost in any action, suit or proceeding that may be instituted pursuant to the provisions of this code; and any officer of the Office of Electrical Inspection acting in good faith and without malice shall be free from liability for acts performed under any of its provisions or by reason of any act or omission in the performance of his official duties in connection therewith.

(D) *Official Records:* An official record shall be kept of all business and activities of the department specified in the provisions of this code, and all such records shall be

open to public inspection pursuant to Sections 101.250 to 101.280 SLCRO 1974 as amended.

80-7 DUTIES AND POWERS OF THE CODE OFFICIAL

(A) *General:* It shall be the duty of the Code Official to cause inspections to be made of all electrical installations for which permits have been issued, in a manner and to the extent necessary to carry out the provisions of the code regulating electrical installations of all buildings and premises, public and private, in the course of erection, alteration, reconstruction or repair and cause the inspection of existing electrical installations as often as may be necessary. The Code Official shall make all of the required inspections, or the Code Official shall accept reports of inspection by approved agencies or individuals. All reports of such inspection shall be in writing and be certified by a responsible officer of such approved agency or by the responsible individual. The Code Official is authorized to engage such expert opinion as deemed necessary to report upon unusual technical issues that arise, subject to the approval of the appointing authority. He shall see that all electrical work is done in accordance with the provisions of this code and that the work is done by persons duly authorized to do such work. He shall have the power to recommend suspension or revocation of licenses issued under this code. The Code Official is authorized and directed to order the electrical power company to forthwith disconnect electrical service, power or current to any building, structure or premise that is in violation of any of the provisions of this code or where the electrical wiring, installation or apparatus in such building, structure or premises is unsafe to person or property.

(B) *Applications and Permits:* The Code Official shall receive applications and issue permits for the installation and alteration of electrical systems and equipment, inspect the premises for which such permits have been issued and enforce compliance with the provisions of this code.

(C) *Notices and Orders:* The Code Official shall issue all necessary notices or orders to ensure compliance with this code.

(D) *Identification:* The Code Official shall carry proper identification when inspecting structures or premises in the performance of duties under this code.

(E) *Rule-Making Authority*: The Code Official shall have power as necessary in the interest of public health, safety and general welfare, to adopt and promulgate rules and regulations, to interpret and implement the provisions of this code, to secure the intent thereof and to designate requirements applicable because of local climatic or other conditions. Such rules shall not have the effect of waiving structural or fire performance requirements specifically provided for in this code, or the building code adopted in Chapter 1115, SLCRO 1974 as amended, or of violating accepted engineering practice involving public safety.

(1) *Authorization to Proceed*: The Code Official may authorize the commencement of construction prior to issuance of a building or electrical permit, when it can be shown that:

(a) the project is in compliance with the applicable regulations of St. Louis County for that portion of the work to be performed, and

(b) the applicant agrees to proceed at his own risk.

Note: All necessary inspections shall be performed as required by this code.

(F) *Department Records*: The Code Official shall keep official records of applications received, permits, licenses and certificates issued, fees collected, reports of inspections, and notices and orders issued. Such records shall be retained in the official records as long as the structure to which such records relate remains in existence unless otherwise provided for by other regulations. License records shall be kept on file indefinitely.

(G) *Annual Report*: At least annually, the Code Official shall submit to the County Executive a written statement of operations in the form and content as shall be prescribed.

(H) *Code Interpretations*: When the Code Official deems it appropriate, or at the request of the Building Commission, the Code Official may issue formal code interpretations to the provisions in this code. A written record of all such code interpretations shall be maintained and subject to review and appeal in accordance with this code.

80-8 APPROVAL

(A) *Listed and Approved Materials and Equipment:* All materials, equipment and devices shall be listed and approved by the Code Official and shall be constructed and installed in accordance with such approval.

(1) Listing shall be by a nationally recognized testing laboratory (NRTL) capable of factory listing and field certification of non-listed materials and equipment and shall analyze electrical, mechanical and worker safety standards.

(2) Electrical equipment and products made of listed or recognized components shall bear an overall listing as an assembly.

(3) Buildings, structures or portions thereof which are within the jurisdiction of St. Louis County, Missouri, including municipalities which have contracted for Code Enforcement with St. Louis County, are subject to the requirements of this code and shall have all electrical material, equipment and devices installed in compliance with this code. The Code Official may approve pre-wired buildings, structures or portions thereof which bear an overall assembly listing by a NRTL.

(B) *Approved:* When considering the approval of material, equipment and devices, the Code Official shall verify all of the following:

(1) Suitability for installation and use in compliance with the technical and administrative requirements of this code and the listing

(2) Suitability for the environment and conditions that exist at the installation location

(3) Type, size, voltage and current suitability

(4) Safeguarding of persons using or coming in contact with the installation

(5) Mechanical strength and durability

(6) Other factors deemed essential to safety by the Code Official

(C) *Damaged or Contaminated Material, Equipment and Devices:* Material, equipment, parts and devices that have been damaged in shipment, storage or installation or that have been contaminated by water or any other foreign substance shall be replaced.

(D) *Modifications:* Where there are practical difficulties involved in carrying out the provisions of this code, the Code Official shall have the right to vary or modify such provisions upon application of the owner or the owner's representative, provided that the spirit and intent of the law is observed and that the public health, safety and welfare is assured.

(1) *Records:* The application for modification and the final decision of the Code Official shall be in writing and shall be officially recorded with the application for the permit in the permanent records of the office of electrical inspection. A copy of all records shall be distributed to the Electrical Code Review Committee and the Building Commission.

(E) *Material and Equipment Reuse:* Materials, equipment and devices shall not be reused unless such elements have been reconditioned, tested and placed in good and proper working condition and approved.

(F) *Alternative Materials and Equipment:* The provisions of this code are not intended to prevent the installation of any material or to prohibit any method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material or method of construction shall be approved where the Code Official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire-resistance, durability and safety.

(1) *Research and Investigation:* Sufficient technical data shall be submitted to substantiate the proposed installation of any material or assembly. If it is determined that the evidence submitted is satisfactory proof of performance for the proposed installation, the Code Official shall approve such alternative subject to the requirements of this code. The costs of

all tests, reports and investigations required under these provisions shall be paid for by the applicant.

80-9 APPLICATION FOR PERMIT

(A) *Permits Required:* No person, firm, corporation, limited liability company or other business entity, institution or organization shall begin any work of installing, erecting or altering material, wiring, fixtures, or other apparatus to be used for generation, transmission or utilization of electricity or communications equipment or on any structures or premises unless and until written application shall have been filed in the Office of Electrical Inspection for a permit to do the work contemplated at least twenty-four (24) hours before such work shall be commenced and the permit obtained. Such application shall bear the date of beginning such work. In the event of emergency, as defined in this code, work may begin upon notification to the Code Official upon condition that written application be filed in said office the next working day. The application shall describe in detail the nature of such work and shall state the location thereof. In the event of a disaster, as defined in this code, no work shall begin on an electrical system unless the Code Official issues the appropriate permit.

(B) *Permit Form:* Application for a permit shall be made by the licensed person, or an authorized agent, to install all or part of any electrical system. The applicant shall meet all qualifications established by rules promulgated under this code or by ordinance, resolution or statute. The full names and addresses of the owner, lessee, applicant and of the responsible officers, if the owner or lessee is a corporate body, shall be stated in the application. Any person purporting to be an authorized agent of the license holder shall submit proof of authorization at the time of permit application.

(C) *Construction Documents:* The application for permit shall be accompanied by four or more complete sets of construction documents. The Code Official is permitted to waive the requirements for filing construction documents when the scope of the work is of a minor nature or can be adequately described by other means. When the quality of the materials is essential for conformity to this code, specific information shall be given to establish such quality, and this code shall not be cited, or the term

"Legal" or its equivalent used as a substitute for specific information.

(D) *Engineering Details:* The Code Official shall require to be filed adequate details of electrical work including computations, diagrams and other essential technical data. All construction documents shall be signed and sealed by the registered design professional of record. Construction documents for structures more than two stories in height shall indicate how required structural and fire-resistance rating integrity will be maintained, and where penetrations will be made for electrical and communication conduits, pipes, cables and systems.

(E) *Amendments to Application:* Subject to the limitations of this code, amendments to the construction documents, application or other records accompanying the same shall be filed at any time before completion of the work for which the permit is sought or issued. Such amendments shall be deemed part of the original application and shall be filed therewith.

(1) *Transfers Prohibited:* The transfer of an application for an electrical permit from one location to another shall be prohibited. When relocation is necessary, the original application shall be canceled and a new application submitted.

(F) *Time Limitation of Application:* An application for a permit for any proposed work shall be deemed to have been abandoned six months after the date of filing, unless such application has been diligently pursued or a permit shall have been issued. However the Code Official may grant one or more extensions of time for additional periods not exceeding ninety (90) days each if there is reasonable cause. The Code Official shall notify those delinquent applicants in writing and give them fourteen (14) days notice prior to abandonment of the application and destruction of the plans. An application extension fee in the amount specified in Chapter 1100 shall be paid for each additional extension period. An additional inspection fee may be charged for an inspection to verify that work has not started.

80-10 PERMITS

(A) *Action on Application:* The Code Official shall examine, or cause to be examined, all applications for permits and

amendments thereto within a reasonable time after filing. If the application or the construction documents do not conform to the requirements of all pertinent laws, the Code Official shall notify the applicant in writing of all such deficiencies. If the Code Official is satisfied that the proposed work conforms to the requirements of the code and all laws and ordinances applicable thereto, the Code Official shall issue a permit therefore as soon as practicable. No permit issued under the provisions of these regulations shall be assignable or transferable or be used to aid or abet any unlicensed person, firm, corporation, limited liability company or other business entity in the performance of electrical work. The permit shall authorize the licensed contractor and their employees as defined in section 100 to proceed with the proposed construction.

(B) *Permit Issued to Whom:* A permit may be issued only to a person duly licensed under the provisions of this code.

Exception: Homeowner permits pursuant to this code may be issued to qualifying persons.

(C) *Homeowner Permits:* A permit may be issued for detached single family dwellings and accessory structures to add branch circuits to an existing electrical system where the Code Official determines the service is adequate to serve the additional load. An inspection may be required to determine the condition of the existing electrical system prior to the issuance of a permit. The inspection shall be paid for by the applicant. Such permit may be issued to the owner or immediate family members residing with owner under the following conditions:

(1) The dwelling shall be designed and used solely for living purposes and be occupied by the owner.

(2) The dwelling shall be occupied by or vacant and intended for immediate occupancy by the owner and owner's family and no other persons.

(3) The permittee shall personally perform all required work. Prior to the issuance of a permit under this section, the Code Official may require an affidavit or other reasonable proof that the request for a permit complies with the foregoing provisions and that the applicant has the necessary knowledge and ability to perform the proposed work. This section does not authorize a waiver or modification of any

provision of this code relating to the materials, design, installation, or practice of electrical work, or to the preparation and approval of construction documents, or to required fees for permits or inspections. Submission of false information may result in revocation of the permit.

Note: An examination on branch circuits may be required to determine applicant's knowledge and ability as used in this section. One re-test may be allowed provided a different test is used.

(4) A homeowner's permit does not apply to the following:

- (a) Main Service
- (b) In-ground swimming pool
- (c) Replacement of equipment and wiring due to fire, flood, earthquake or other disaster
- (d) Repairs to aluminum conductors and wiring
- (e) Generators or transfer switches
- (f) Alternative power sources
- (g) Vehicle charging or refueling stations
- (h) Classified locations

Exception: A homeowner's permit may be issued for items A through H if the homeowner is a construction electrician with twelve thousand (12,000) hours of verifiable experience while employed by an electrical contractor licensed by St. Louis County.

(D) *Fees To Be Paid Before Permit Issued:* A permit to begin work for new construction or alterations shall not be issued until the permit application has been approved and permit fees prescribed in this code have been paid. Nor shall any amendment to a permit necessitating an additional fee, due to additional work involved, be issued until the additional fee shall have been paid.

- (1) If the Code Official determines that an applicant for a permit governed by this code has failed to pay any permit fees or related charges, the Code

Official shall not issue such permit until the applicant pays such fees and related charges.

(E) *Previous Approvals:* This code shall not require changes in the construction documents or electrical work for which a lawful permit has been heretofore issued or otherwise lawfully authorized, and the construction of which has been actively prosecuted within ninety (90) days after the effective date of this code and is completed with dispatch.

(F) *Signature to Permit:* The Code Official's signature shall be attached to every permit; or the Code Official shall authorize a subordinate to affix such signature thereto.

(G) *Approved Construction Documents:* The Code Official shall stamp or endorse in writing all sets of approved construction documents "Approved". One set of approved construction documents shall be retained by the Code Official and another set shall be kept at the construction site, open to inspection by the Code Official at all reasonable times.

(H) *Suspension of Permit:* Any permit issued shall become invalid if the authorized work is not commenced within six months after issuance of the permit, or if the authorized work is suspended or abandoned for a period of six months after the time of commencing the work.

(1) *Extension of Permits:* Electrical permits may be extended at any time up to thirty (30) days prior to the date of abandonment or expiration date of the specific permit.

(I) *Revocation of Permit:* The Code Official shall revoke a permit or approval issued under the provisions of this code in case of any false statement or misrepresentation of fact in the application or on the construction documents upon which the permit or approval was based.

(J) *Homeowner Permits - Revoked:* A permit issued to a homeowner pursuant to this code may be revoked by the Code Official if he determines that work under the permit is not being properly performed, that the application did not comply or no longer complies with said section, or contains any false statement or misrepresentation of fact. Upon revocation, the property owner may be required by the Code

Official to proceed immediately to procure a licensed person to correct or complete the work.

(K) *Posting of Permit:* A true copy of the electrical permit shall be kept on the construction site, open to public inspection during the entire time of prosecution of the work and until the completion of the same.

(L) *Notice of Start:* At least twenty-four (24) hour notice of start of work under a permit shall be given to the Code Official.

(M) *Separate Permits:* Permit applicants may submit separate applications for building, mechanical, electrical, or plumbing permits. As a condition of approval, the owner or owner's agent shall agree to assume full responsibility for the coordination of all applicable code requirements relating to these permits.

(N) *Addendums to Permits:* Once a permit is issued, all addendums submitted as an amendment to the approved construction documents shall be charged an additional review fee as specified in this code.

(O) *Integrated Permits:* The Code Official shall be permitted to issue integrated building, plumbing, electrical and/or mechanical permits on a single permit application.

(1) *Applicant Responsibility:* The integrated permit applicant shall be responsible for the return to the Department of Highways and Traffic and Public Works copies of the plumbing, electrical, and/or mechanical permit form with the name, signature and license number of the appropriate subcontractor. Any change in the identity of the named subcontractor after issuance of the permit shall result in the assessment of a transfer fee in the amount specified in this code.

(Q) *Approval of Part:* The Code Official is authorized to issue a permit for a portion of the electrical work to be performed for a particular project (a partial permit), provided that adequate information and detailed statements have been filed complying with all of the pertinent requirements of this code. The holder of such permit for a portion of the electrical work shall proceed, at the holder's own risk, with the electrical installation and

without assurance that a permit for the entire electrical project will be granted.

(1) *Partial Permit:* A partial permit may be issued by the Code Official prior to the review approval and/or issuance of other applicable permit applications normally required prior to such issuance upon the following conditions:

(a) Receipt from applicant of a signed application for issuance of a partial permit; and

(b) Receipt from applicant of a signed statement containing a release of all liability, indemnifying and holding harmless St. Louis County, its officers, employees, agents and assigns for any expense, error or omission resulting from such issuance; and

(c) The construction documents, and other documentation, including but not limited to any approval required from the St. Louis County Department of Public Health, are in order, and all other provisions of this code are met.

80-11 DEMOLITION OF STRUCTURES

(A) *Equipment Removal:* Electrically supplied equipment shall not be removed from any structure to be demolished until the service supplied to the structure for such equipment has been terminated by the utility company. Notification of the termination shall be given to the code official in writing prior to the authorization for removal of such equipment.

80-12 MOVED STRUCTURES

(A) *General:* Before any structure that has been moved in the jurisdiction is occupied, all electrical equipment and devices shall be inspected and tested for safe operation and compliance with the requirements of this code.

80-13 CONDITIONS OF PERMIT

(A) *Payment of Fees:* A permit shall not be issued until the fees prescribed Chapter 1100 SLCRO 1974, as amended, have been paid to the Treasurer of St. Louis County.

(1) Disaster Damage Repair Permits: The Code Official may reduce or waive electrical permit fees for repairs related to a disaster as defined in this code if the permit is issued within 90 days after the end of a disaster, as determined by the Code Official, and authorizes the work indicated therein to be completed within one year of the date of issuance. The Code Official may extend the 90 day period if the Code Official determines that just cause exists.

(B) *Compliance with Code:* The permit constitutes permission to proceed with the work and shall not be construed as authority to violate, cancel or set aside any of the provisions of this code, except as specifically stipulated by modification or legally granted variation as described in the application.

(1) *Compliance with Code and Ordinances:* Subject to the provisions of this code, neither the granting of a permit, nor the approval of the construction documents, nor inspections made by the Code Official, or his authorized representative, during the electrical installation or any alteration or addition thereto, shall in any way relieve the owner or tenant of such building or property from carrying out the work or maintenance of the property in accordance with the requirements of this code, the St. Louis County Building Code, the St. Louis County Zoning Ordinance, the Property Maintenance Code, or any other applicable law or ordinance.

(2) Federal, State or other public entities: The Code Official may withhold issuance of a permit for any facility or site if any Federal, State or other public entity determines that such facility or site is in violation of any code or regulation of such entity.

(3) Existing Violations. The Code Official may refuse to issue a permit pursuant to this code if the work to be authorized is for a site or facility for which there are unabated written violations of this code, or the Plumbing, Mechanical, Building or Land Disturbance Codes. The Code Official may issue a permit once it is determined that such violations are corrected or an acceptable plan for correction is submitted by the applicant and approved by the Code Official.

(C) *Compliance with Permit:* All work shall conform to the approved application and the approved construction documents for which the permit has been issued and any approved amendments to the approved application or the approved construction documents.

(D) *Deposit Required:* Prior to the issuance of any permit, the applicant therefor shall have on deposit with the Office of Electrical Inspection the sum of \$50.00 which shall be used to pay any amount of inspection fees herein described which at any time may become due from such applicant and remain unpaid.

80-14 FEES

(A) *General:* A permit to begin work for new construction or alteration shall not be issued until the prescribed fees in Chapter 1100 SLCRO 1974, as amended shall have been paid to the Treasurer of St. Louis County, nor shall an amendment to a permit necessitating an additional fee because of the additional work involved be approved until the additional fee has been paid.

(B) *Fees:* The fees for plan examinations, filing fee, permits and inspections pursuant to this code shall be charged at the rate specified in Chapter 1100 SLCRO 1974 as amended, and shall be paid to the Treasurer of St. Louis County.

(1) *Fees for Amending Permits:* After a permit has been issued and an amendment or supplemental revision is applied for, the fee or service charge shall be as follows:

(a) All amendments which involve additional work not originally applied for to complete the project, shall be charged the appropriate fee for the additional work calculated in the normal manner, plus the partial permit fee. The minimum fee shall be as established in this code.

(b) All amendments or supplements not involving additional work shall be charged a minimum fee or service charge at the rate prescribed in this code, even though the scope of the work may be reduced.

(2) *Partial Permit Fee:* The fee for a partial permit as described in this code shall be charged in addition to the permit fee as normally computed for that part of the work involved at the rate prescribed in this code.

(3) *Permit Extension Fee:* Permits that are extended in accordance with this code are charged an extension fee at the rate prescribed in this code.

(4) *Board of Appeals Filing Fee:* All appeals filed for review by the Board of Appeals under the procedures described in this code are to be accompanied by a filing fee as prescribed in this code.

(5) *Subcontractor Transfer Fee, Integrated Permit:* A transfer fee shall be charged whenever a subcontractor is replaced by another subcontractor for whatever reason. The amount of the transfer fee shall be at the rate prescribed in this code.

(6) *Work Not Commenced, Suspended or Abandoned:* An extra inspection fee may be charged for each inspection made to determine the status of a project when work is not commenced, or is suspended or abandoned, for more than six months.

(C) *Refunds:* In the case of revocation of a permit no refund shall be permitted. Any excess fee for the incomplete work on abandoned or discontinued projects shall be returned to the permit holder upon written request received not later than twelve (12) months after the date the permit was issued. All plan examination and permit processing fees and all penalties that have been imposed upon the permit holder under the requirements of this code shall be deducted from the refund or paid by the permit holder prior to any refund being issued.

80-15 INSPECTIONS

(A) *Inspections Required:* Inspections shall be made of all electrical installations for which permits have been issued in a manner and to the extent necessary to carry out the provisions of the code. Inspections of existing electrical installations shall be made as often as deemed necessary by the Code Official. Upon completion of any electrical installation for which a permit has been issued, the permittee shall notify the Office of Electrical Inspection

and final inspection shall be made. No installation shall be covered or concealed until inspected. Equipment regulated by this code shall not be connected to the power supply and placed in normal operation until such equipment complies with all applicable requirements of this code, and a final inspection has been completed.

(1) Upon request the Code Official may perform an inspection prior to the issuance of a permit. The fee for such inspections shall be as prescribed in this code and paid by the requestor before the inspection is performed.

(B) *Third Party Inspections:* The Code Official, in lieu of making required inspections, may accept reports of inspection by a recognized third party inspection agency approved by the Code Official. All reports of such inspections shall be in writing and certified by a responsible officer of such agency.

(C) *Final Inspection:* Upon completion of the electrical work and before final approval is given, a final inspection shall be made. All violations of the approved construction documents and permit shall be noted and the holder of the permit shall be notified of the discrepancies.

(D) *Right of Entry:* When the Code Official has reasonable cause to believe that a code violation exists, the Code Official shall, prior to entering into a space not otherwise open to the general public, make a reasonable effort to locate the owner or other person having charge or control of the structure or premises, present proper identification and request entry. If requested entry is refused or not obtained, the Code Official shall pursue recourse as provided by law.

(E) *Coordination of Inspections:* Whenever in the enforcement of this code or ordinance, the responsibility of more than one Code Official of the jurisdiction is involved, it shall be the duty of the Code Officials involved to coordinate their inspections and administrative orders as fully as practicable so that the owners and occupants of the structure shall not be subjected to visits by numerous inspectors or multiple or conflicting orders. Whenever an inspector from any agency or department observes an apparent or actual violation of some provision of some law, ordinance or code not within the inspector's authority to enforce, the inspector shall report the

findings to the Code Official through the proper division of the Department of Highways and Traffic and Public Works.

(F) *Supplemental Inspections:* In addition to the required inspections herein specified, the Code Official may make other inspections which in his judgment are reasonably necessary due to unusual construction or circumstances. The Code Official shall have the authority to inspect any construction work in order to ascertain whether compliance with the electrical code is being met and in order that he may properly enforce the provisions of this code. Fees for supplemental inspections shall be as specified in this code, and shall be assessed prior to issuing the permit.

(G) *Extra Inspections:* In addition to the inspections otherwise required, the Code Official is authorized to perform extra inspections or re-inspections which in his judgment are reasonably necessary due to non-compliance with electrical code requirements, or work not ready or accessible for inspection when requested. Fees for extra inspections shall be as specified in this code and shall be assessed when incurred.

(1) A holder of a license issued pursuant to this code shall be responsible for all inspection fees on permits issued to the license. Failure to pay these fees shall cause the license to be rendered inactive without further notice. A license shall be re-activated within thirty days after inspection fees are received by the Department of Highways and Traffic and Public Works.

80-16 WORKMANSHIP

(A) *General:* All work shall be conducted, installed and completed in a workmanlike and approved manner so as to secure the results intended by this code.

80-17 VIOLATIONS

(A) *General:* It shall be unlawful and deemed a violation of this code for any person, firm, corporation, limited liability company or other business entity to:

1. install, extend, alter, repair or maintain electrical systems in any building or structure or on any premises except in conformity with this code;

2. fail to obtain or maintain a license in conformity with this code;
3. fail to timely pay all fees required by this code and Chapter 1100 SLCRO;
4. fail to arrange for all inspections, including final inspections, required by this code;
5. fail to timely correct any deficiencies or violations of this code after notification;
6. fail to commence work within six months of permit issuance or suspend or abandon work for more than six months;
7. perform any act prohibited by this code or fail to perform any act required by this code; or
8. continue any work in or about a structure after having been served a stop work order, except for such work which that person, firm or corporation has been directed to perform to remove a violation or unsafe condition.

(B) *Notice of Violations:* When the Code Official determines that a violation of this code exists, the Code Official shall notify the violator as soon as practical of the specific infraction. The notification shall be in writing and shall be delivered to the violator or his legally authorized representative or mailed to his last known address via first class mail postage prepaid. Any person having been notified that a violation exists by means other than a stop work order and who fails to abate the violation within ten days after notification shall be subject to the penalties enumerated in this code. Violations involving the licensing and permit provisions of this code shall be issued and pursued first against those persons, companies, corporations, or other entities, if known, performing such work or activities which constitute said violations. Otherwise, the owner shall be issued the violation.

1. If the Code Official determines that a permit applicant has failed to correct violations of this code, the Code Official shall not issue permits related to this code to such applicant except to correct such violations.

(C) *Penalties, Fines, Stop Work Orders, Notices of Violation, Other Actions:* Any person, firm, corporation,

limited liability company or other business entity who shall violate any provision of this code, or any owner or tenant of a building or premises or any other person who commits, takes part or assists in any violation of this code or who maintains any building, structure or premises in which such violation shall exist, shall be guilty of a misdemeanor, punishable by a fine of not more than \$1,000.00 or by imprisonment not exceeding ninety (90) days or both such fine or imprisonment. Each day that a violation continues shall be deemed a separate offense.

(1) *No-Permit, No-Inspection Request, and Lapsed Permit Penalties:* In addition to the penalties set out in this code, the following procedure shall be followed where the Code Official determines that work has been started prior to the acquisition of a permit required by this code or the permit holder failed to schedule the required inspection, or allowed the permit to lapse without requesting a final inspection:

(a) The Code Official may issue a stop work order when work requiring a permit was started prior to the acquisition of that permit or when requests for inspections were not submitted.

(b) The Code Official may issue a Notice of Violation when a required inspection was not requested.

(c) The Code Official may impose a penalty not to exceed \$500.00 on a licensee or permittee who:

i. commences work prior to issuance of the appropriate permit;

ii. fails to schedule required inspections, including final inspections;

iii. allows a permit to lapse without requiring final inspection;

iv. continues to perform work after issuance of a Stop Work Order.

(d) The Code Official shall notify the holder of the license or permit of the action to be taken and allow sufficient time for response to such action if appropriate.

(e) The Stop Work Order for failure to obtain a permit or the violation for failure to request an inspection shall remain in full force and effect until such time as the penalty amount is paid and the violator has complied with all other regulations pertaining to the issuance of the required permit, or requested the required inspection.

(f) No-permit, no-inspection request, and lapsed permit penalties are appealable to the Board of Appeals in the same manner as other decisions of the Code Official. The Code Official may revise an assessment upon notice to both the Board of Appeals and the alleged violator at any time prior to the hearing. Likewise, at any time prior to the hearing, the violator may accept and pay the assessed penalty amount and the hearing will be canceled.

(g) At the hearing before the Board of Appeals, said board shall afford both the Code Official and the alleged violator an opportunity to present any evidence or make any statements they wish to have considered.

(h) Following the hearing, the Board of Appeals shall determine whether a permit or inspection was required:

i. If the Board of Appeals determines that a permit or inspection was required, an appropriate penalty amount shall be assessed. The stop work order for failure to obtain a permit or the violation for failure to request an inspection shall remain in full force and effect until such time as the penalty amount is paid and the violator has complied with all other regulations pertaining to the issuance of the required permits, or requesting the required inspection.

ii. If the Board of Appeals determines that a permit or inspection was not required, the Code Official shall immediately cancel the stop work order for failure to obtain a

permit or abate the no-inspection request violation.

(D) *Prosecution of Violation:* If the notice of violation is not complied with promptly, the Code Official may request the County Counselor to institute the appropriate proceeding at law or in equity to restrain, correct or abate such violation or to require the removal or termination of the unlawful occupancy of the structure in violation of the provisions of this code or of the order or direction made pursuant thereto.

(E) *Abatement of Violation:* The imposition of the penalties herein prescribed shall not preclude the County Counselor from instituting appropriate action to prevent unlawful construction or to restrain, correct or abate a violation, or to prevent illegal occupancy of a building or to stop an illegal act, conduct business or operation of electrical equipment or systems on or about any premises.

(F) *License Violation:* All installation of material, equipment and devices subject to the requirements of this code shall be performed by a holder of the license required by 1102.80-24. Electrical installations performed without the required license shall be removed and must be reinstalled in compliance with all code requirements.

80-18 STOP WORK ORDER

(A) *Notice:* Upon notice from the Code Official that work on any building, structure, or premises is proceeding contrary to the provisions of this code or in an unsafe manner, such work shall immediately be stopped. The Code Official shall issue a stop work order in writing to the owner of the property involved or to the owner's agent, or to the person doing the work. The stop work order shall state the conditions under which the work may resume.

(B) *Unlawful Continuance of Work:* Any person who shall continue any electrical work in or about the building, structure or premise after the issuance of a stop work order, except such work that is directed to be performed to remove a violation or unsafe condition, shall be guilty of a violation of this code and subject to the penalties set out in this code.

(C) *Prosecution:* If the notice of violation issued pursuant to this code is not complied with promptly, the Code

Official may request the County Counselor to institute the appropriate proceeding at law or in equity to restrain, correct or abate such violation or to require the removal or termination of the unlawful condition of any electrical system in violation of the provisions of this code or of an order or direction made pursuant to this code.

80-19 NOTICE OF APPROVAL

(A) *Approval*: After the prescribed tests and inspections indicate that the work complies in all respects with this code, a notice of approval shall be issued by the Code Official.

(B) *Temporary Occupancy*: Upon the written request of the holder of a permit, the Code Official may issue a temporary authorization before the entire work covered by the permit is completed, provided that such portion or portions will be put into service safely prior to full completion of the structure without endangering public health or welfare.

80-20 UNSAFE CONDITIONS

(A) *Hazards*: All electrical systems, regardless of type, which constitute a hazard to human life, health or welfare are hereby declared illegal and shall be abated by repair, rehabilitation or removal.

(B) *Record*: The Code Official shall cause a report to be filed on an unsafe condition. The report shall state the occupancy of the structure and the nature of the unsafe condition.

(C) *Notice*: If an unsafe condition is found, the Code Official shall serve on the owner, agent or person in control of the structure, a written notice that describes the condition deemed unsafe and specifies the required repairs or improvements to be made to abate the unsafe condition, or that requires the unsafe material or equipment to be removed within a stipulated time. Such notice shall require the person thus notified to declare immediately to the Code Official acceptance or rejection of the terms of the order.

(D) *Method of Service*: Such notice shall be deemed properly served if a copy thereof is: (a) delivered to the owner

personally, or (b) sent by certified or registered mail addressed to the owner at the last known address with the return receipt requested. If the certified or registered letter is returned showing that the letter was not delivered, a copy thereof shall be posted in a conspicuous place in or about the structure affected by such notice. Service of such notice in the foregoing manner upon the owner's agent or upon the person responsible for the structure shall constitute service of notice upon the owner.

(E) *Restoration*: The installation, material or equipment determined to be unsafe by the Code Official is permitted to be restored to a safe condition. To the extent that repairs, alterations or additions are made during the restoration of the structure, such repairs, alterations and additions shall comply with the requirements of this code.

(F) *Disregard of Notice*: Upon refusal or neglect of the person served with an unsafe notice to comply with the requirements of the order to abate the unsafe condition, the County Counselor may be advised of all the facts by the Code Official in order to pursue recourse provided by law.

80-21 EMERGENCY MEASURES

(A) *Imminent Danger*: When, in the opinion of the Code Official, there is imminent danger to health, safety or welfare, the Code Official is hereby authorized and empowered to order and require the occupants to vacate the building forthwith. The Code Official shall cause to be posted at each entrance to such structure a notice reading as follows: "This structure is unsafe and its occupancy has been prohibited by the Code Official." It shall be unlawful for any person to enter such structure, except for the purpose of making the required repairs or for demolition.

(B) *Temporary Safeguards*: When, in the opinion of the Code Official, there is imminent danger due to an unsafe condition, the Code Official shall cause the necessary work to be done to render such structure temporarily safe, whether or not the legal procedure herein described has been instituted.

(C) *Closing Streets*: When necessary for the public safety, the Code Official shall temporarily close structures and close, or request the authority having jurisdiction to close, sidewalks, streets, public ways and places adjacent

to unsafe structures, and prohibit the same from being used.

(D) *Emergency Repairs:* For the purposes of this section, the Code Official shall employ the necessary labor and materials to perform the required work as expeditiously as possible.

(E) *Costs of Emergency Repairs:* Costs incurred in the performance of emergency work shall be paid from the treasury of the jurisdiction on approval of the Code Official. The County Counselor may institute appropriate action against the owner of the premises where the unsafe structure is or was located.

(F) *Unsafe Equipment:* Equipment deemed unsafe by the Code Official shall not be operated after the date stated in the notice unless the required repairs or changes have been made and the equipment has been approved, or unless an extension of time has been secured from the Code Official in writing.

(1) *Authority to Seal Equipment:* In the case of an emergency, the Code Official shall have the authority to seal out of service immediately any unsafe device or equipment regulated by this code.

(2) *Unlawful to Remove Seal:* Any device or equipment sealed out of service by the Code Official shall be plainly marked with a sign or tag indicating the reason for such sealing. The sign or tag shall not be tampered with, defaced or removed except by the Code Official.

80-22 MEANS OF APPEAL

(A) *Application for Appeal:* Any person aggrieved by a decision of the Code Official or the Board of Electrical Examiners shall have the right to appeal to the Board of Appeals in accordance with Chapter 1115, SLCRO 1974 as amended. An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted thereunder have been incorrectly interpreted, the provisions of this code do not fully apply, or an equally good or better form of construction is to be used.

80-23 PROFESSIONAL ARCHITECTURAL AND ENGINEERING SERVICES

(A) *General*: The construction documents for new construction, alteration, repairs, expansion, addition, or modification for buildings, structures or electrical systems shall be prepared by a registered design professional in accordance with Chapter 1115 SLCRO 1974 as amended.

80-24 LICENSES ISSUED BY ST. LOUIS COUNTY

(A) *Examination and Licensing of Electricians*: No person, firm, corporation, limited liability company or other business entity, institution, organization or representative thereof shall engage in the business of making or maintaining electrical installations or installing any electrical material, apparatus, equipment, or communications equipment of any kind without having a person in responsible charge of such work who has first been examined and licensed by St. Louis County, Missouri, following examination by the St. Louis County Board of Electrical Examiners or its designee, pursuant to the provisions of this code. All applicants for examination shall deposit with their application an examination fee as prescribed in this code. The license of persons in responsible charge of work shall correspond to the appropriate license category as indicated in this code. The Building Commission of St. Louis County, Missouri, shall issue the appropriate license to each person who meets the qualifications thereof and successfully passes the examination.

(1) *Application Fee*: All applicants for examination shall submit with their application an application fee in the amount specified in this code.

(2) *Board of Electrical Examiners - Rules and Qualifications for License Applicants*.

(a) Applicants must be at least twenty-one (21) years of age.

(b) Applicants must verify, through detailed and verifiable documentation, at least twelve thousand (12,000) hours of practical experience installing the wiring, equipment and material specified in NFPA70 (National Electrical Code), or the combination of education and practical experience specified in (d) below.

(c) Applicants must submit detailed and verifiable documentation of all practical experience, education, and work history relating specifically to the type of license applied for, at the time of application. Verification of employment must be provided by copies of W2 forms and by the Affidavit of Employment Experience or original notarized letters on company letterhead. The verification must include exact employment dates, exact number of hours worked, exact type of work performed, and contact information for the license holder(s) under whose supervision the work was performed. Copies of tax returns may be required by the Board of Electrical Examiners to verify employment.

(d) Applicants' qualifications will be determined on the basis of the information they provide on the Application Form and the documentation they submit. It must be factual, clear and complete. Acceptable experience for all licensing categories, except an Elevator Controls License, shall be defined as one of the following:

1. Successful completion of an electrical apprenticeship (8,000 hours) approved by the Bureau of Apprenticeship & Training, U.S. Department of Labor. Submit certificate of completion plus proof of four thousand (4,000) hours of additional practical experience installing the wiring, equipment and materials specified in NPFA70 (NEC); or

2. Graduation from a trade school accredited by the North Central Assoc. of Colleges & Schools, with a two-year degree (for the electrical, industrial or elevator license) primarily focused on electrical theory, National Electrical Code, and power distribution wiring and equipment; or (for communications license) primarily focused on practical knowledge related to communications (sound, phones and data) installations. Graduation must be verified by an *original transcript*. The applicant must also provide proof of a minimum of 8,000 additional hours of practical

experience installing the wiring, equipment and materials specified in NFPA70 (NEC); or

3. Graduation from a college or university with a four-year degree in electrical engineering accredited by the Accreditation Board for Engineering and Technology (ABET) and the North Central Assoc. of Colleges & Schools. Graduation must be verified by an original transcript. The applicant must also provide proof of a minimum of an additional 4,000 hours of practical experience in designing electrical systems for the purposes of distributing electricity; or

4. The applicant has accumulated a minimum of 12,000 hours of experience installing the wiring, equipment and materials specified in the National Electrical Code, while in the employ of an electrical contractor (for the electrical license) or an elevator controls company (for the elevator license), or communications contractor (for the communications license) or other business whose primary function is installing, repairing and servicing electrical or communications systems, equipment, wiring and materials specified in NFPA70 (NEC) and related to the license.

5. All applicants for the electrical contractors license must complete a recognized National Electrical Code class and receive a minimum 75% final exam grade within the 24 months previous to application date.

(e) Applicants may receive credit for work-related practical experience for training in electrical wiring obtained while serving on active duty in the military, in the discretion of the Board of Electrical Examiners, if detailed and verifiable proof of the training, schooling or work experience, directly related to the wiring and equipment and material specified in NFPA 70 (NEC), is submitted. Applicants must include all information that will assist the Board in evaluating the degree of electrical or

communications experience obtained that is directly related to the license.

(f) The following types of documentation are inadequate to obtain a license under this Code: self-generated biographies, résumés or employment records which do not verify and/or adequately describe the nature of the employment, experience, duties, responsibilities or duration of time employed; documentation of maintenance on an electrical, communications or elevator system unless applicants were employed by a company whose primary business is performing maintenance on existing electrical systems (for the electrical license) or communications systems (for the communications license) or elevators (for the elevator license) license; documentation of work performed in any jurisdiction, which was not in compliance with the applicable code regulations.

(g) All applicants must complete and submit the following provided forms, identified as:

- Application
- Work Experience Summary (with verification attached)
- Trade Related Education and Formal Instruction (with verification attached), if applicable
- Affidavit(s) of Employment Experience and copies of W2 forms

(h) Applicants will be notified of the date on which their application will be reviewed by the Board of Electrical Examiners, and:

1. If the application is approved, the applicant will be notified within thirty (30) days and provided with testing information.

- If the application is denied, the applicant will be notified within 30 days and will be given the reasons

therefor. Within twelve (12) months, the Applicant may re-apply and submit additional information or documentation requested by the Board. Upon written request, the applicant will be scheduled to meet with the examining board at a later date.

2. If the examining board again rejects the application the applicant may file an appeal with the Board of Appeals, in accordance with Chapter 1115, SLCRO 1974 as amended. No new or additional documents or information will be considered at the hearing. The Board of Appeals will review the application and all documents originally submitted to determine if the examining board made an accurate decision based on the information submitted.

(i) Examination for Electrical or Communications Licenses:

1. If the application for license is approved by the Board of Electrical Examiners, St. Louis County will, within 30 days, provide the applicant with an examination registration form to be submitted to the testing agency with the required fee.

2. St. Louis County will officially notify applicants of their test score within thirty (30) days of their test dates.

3. Applicants who are unsuccessful in their first examination attempt may sit for two additional examinations within the next 12 months. Applicants who do not pass the test on their third attempt must wait 12 months before applying to sit for the next examination and any subsequent examinations. This waiting period will be enforced without regard for an applicant's subsequent success on the examination if sponsored by another jurisdiction.

4. Once applicants have scored at least 75% on the exam, they will be notified within 30 days and be given the necessary information and requirements to activate their license in St. Louis County.

5. If the applicant has scored at least 75% on the same test as is required by St. Louis County, within the 24 months prior to the date of application, the examining board will recognize the test score and no further testing will be required, provided the applicant has met all other requirements. Applicants will be notified within 30 days and be given the necessary information and requirements to activate their license in St. Louis County.

(j) False or Misleading Information:

1. If, at any time, an application is found by the Board of Electrical Examiners to contain false or misleading information, the Board will convene a hearing to determine the appropriate sanction to be imposed, including but not limited to, denial of licensure, suspension or revocation of an existing license.

(k) Criminal Convictions:

1. The Board may consider a criminal conviction in denying, suspending or revoking a license provided that the nature of the crime committed in relation to the license which the applicant seeks, the date of the conviction, and the conduct of the applicant since the date of the conviction are also considered.

(B) *Electrical Contractor's License*: The electrical contractor's license shall permit the licensees, or employees they supervise, to engage in the work of installing, erecting, or maintaining electrical wiring, fixtures, apparatus, equipment, devices or components thereof that are used for generation, transmission, or utilization of electricity in and on buildings and premises subject to the provisions of this code.

(1) *License Fee:* The fee for an electrical contractor's license shall be as specified in this code.

(C) *Electrical Maintenance License:* The electrical maintenance license shall permit the licensees, or employees they supervise, to engage in the work that is necessary for the upkeep or maintenance of existing electrical material and equipment on their own property and occupied by them. To qualify for an electrical maintenance license in or on any building or premises, there must be at least one full-time electrician employed continuously and the applicant must have completed a recognized National Electrical Code class (minimum 75% final exam grade) within the 24 months previous to application date.

(1) *License Fee:* The fee for an electrical maintenance license shall be as specified in this code.

(D) *Electrical Industrial License:* The electrical industrial license shall permit the licensees, or employees they supervise, to engage in the work of installing, erecting or maintaining electrical wiring, fixtures, apparatus, equipment, devices or components thereof that are used, for generation, transmission, or utilization of electricity in and on commercial or industrial buildings and premises occupied by the licensee and subject to the provisions of this code; however to qualify for an electrical industrial license there must be at least one full-time electrician employed continuously.

(1) *License Fee:* The fee for an electrical industrial license shall be as specified in this code.

(E) *Electrical Communication Contractor's License:* An electrical communication contractor's license shall permit the licensees or employees they supervise to engage in the work of installing, maintaining, erecting or altering communication equipment.

(1) *License Fee:* The fee for an electrical communications contractor's license shall be as specified in this code.

(F) *Elevator Electrical Controls Contractor's License:* An elevator electrical controls contractor's license shall permit the licensees, or employees they supervise, to engage in the work of installing, maintaining, altering or

erecting wiring and equipment for the operation and control of elevators, escalators and dumb-waiters. All such permitted work shall be on the load side of a disconnect switch installed to furnish electrical power to the equipment.

(1) *License Fee:* The fee for an elevator electrical control contractor's license shall be as specified in this code.

(G) *Bond & Insurance Required:* No electrical contractor's license issued by St. Louis County, communications contractor's license, elevator controls contractor's license or permit shall be issued until such applicant shall file in the Office of Electrical Inspection a surety bond in the amount of \$10,000.00 and a certificate of contractor's general liability insurance in the amount of \$500,000.00. The bonds and insurance required herein shall be approved by the County Counselor and shall be given for the faithful observance of all ordinances, laws, rules and regulations adopted for the public health and safety pertaining to electrical, communication or elevator work and shall indemnify St. Louis County, Missouri, or any other governmental agency, or any person, firm, or corporation for any damage or injury sustained through the negligence of such applicant, their servants, agents or employees in performing electrical, communication or elevator work or for any damages or injury sustained due to such applicant's failure to perform electrical or communication work in a careful and workmanlike manner in conformity with this code or for the use of St. Louis County, Missouri, due to nonpayment of fees thirty (30) days from due date, or for the use of any person, firm or corporation with whom said applicant contracts to do work to indemnify any such person, firm or corporation for damages sustained due to failure of applicant to do work so contracted.

(1) A holder of a license issued pursuant to this code or by the State of Missouri shall maintain current bond and insurance certificates with the Office of Electrical Inspection. When the effective dates on the documents on file expire, the license will be made inactive without notice. A license may be re-activated within thirty days after the required documents are received by the Office of Electrical Inspection and the \$25.00 processing fee paid. If the license was issued by the State of Missouri the

account will be deactivated and issuance of permits will cease until current certificates are received.

(2) A holder of a license issued pursuant to this code or by the State of Missouri shall notify the Code Official of any diminution of its bond which causes the actual value of the bond to be worth less than \$10,000.00. Lack of a bond with current value of \$10,000.00 will render the license immediately inactive or the State issued license account deactivated without further notice, unless and until the license holder obtains a surety bond with the actual current value of \$10,000.00, and files proof of the aforesaid bond with the Office of Electrical Inspection.

(H) *License Violation:* It shall be unlawful for any person, firm, corporation or organization, limited liability company or other business entity, or any agent thereof to engage in the business of electrical or communication work without having been duly licensed as required by the provisions of this code.

(I) *Licensed Supervisor Required:* Any firm, corporation, limited liability company or other business entity obtaining permits to install electrical or communication work shall employ a duly licensed supervisor under the provision of this code who shall be responsible for installations made by said firm, corporation, limited liability company or other business entity. Unless the license holder is a sole proprietor, the license holder in order to obtain permits shall be a full time employee as defined in Article 100 herein, and shall have the sole responsibility for compliance with the provisions of this code. This responsibility shall not be transferable or assignable.

(J) *License Limitations:* Any holder of an electrical contractor license, communication contractor license, industrial license, maintenance license or elevator controls contractor license shall be limited to obtaining permits required under the provisions of this code, for a single company, firm, corporation, limited liability company or other business entity at any given date or time and shall be registered as an officer of said company, firm, corporation or limited liability company or other business entity at least thirty (30) days prior to exercising the privileges of the license on behalf of said

business entity. Any such business entity shall be registered with the State of Missouri, Office of Secretary of State, Jefferson City, Missouri and the St. Louis County Office of Electrical Inspection, at least thirty (30) days prior to the issuance of any permit.

(K) *Suspensions and Revocation of Licenses - Hearing Required:*

(1) The Board of Electrical Examiners shall have the power to suspend or revoke any license issued pursuant to this code for cause. Although such actions may be based upon causes other than those enumerated, the following are declared to be adequate cause for suspension or revocation:

(a) Obtaining a license by fraud or misrepresentation of material fact.

(b) Failure or refusal to comply with the provisions of this code.

(c) Violation of any of the provisions of this code.

(d) Aiding or abetting any unlicensed person, firm, limited liability company, corporation or other business entity in the performance of electrical work, as defined by this code.

(e) Failure to protect the health, safety and welfare of the public by violating the expressed intent of this code.

(f) Obtaining or attempting to obtain any fee, charge or compensation by fraud, deception or misrepresentation to a consumer.

(g) Impersonation of any person holding a license or allowing any person to use his or her license.

(h) Advertising the sale of permits obtained by a licensed electrical contractor.

(i) Use or unlawful possession of any controlled substance as defined in Chapter 195, R.S.Mo., or alcoholic beverage to the extent that such use

impairs a person's ability to perform the work of an electrician.

(j) A conviction for any criminal offense reasonably related to the qualifications, functions or duties of any licensee under this code, or for any offense an essential element of which is fraud provided that the Board also consider the nature of the crime committed, the date of the conviction, and the conduct of the individual since the date of the conviction.

(k) Unauthorized manipulation or tampering with the property or equipment of the serving utility.

(l) Securing a permit for work performed by another person, firm, corporation, company, or business entity.

(2) No license shall be suspended or revoked until the licensee has been afforded an opportunity for a hearing before the Board upon ten (10) days written notice.

(3) Notice shall be served either personally or by Certified Mail to the licensee's address of record and shall state the date, time, and place of hearing and set forth the charges against the licensee. In the event service is not obtained by personal service or certified mail, service may be made by any means reasonably calculated to provide the licensee with actual notice.

(4) A licensee shall have the opportunity to present evidence and/or witnesses before the Board in person or with counsel. A record of the hearing shall be made. As soon as practicable after the conclusion of the hearing, the Board shall adopt a written decision, including findings of fact and conclusions of law, and give written notice of its decision to the license holder or his/her attorney of record in accordance with Chapter 536 R.S.Mo.

(5) The duration of suspension of any license suspended pursuant to this section shall be as follows:

(a) First offense shall result in a suspension period of not less than ninety (90) days and shall continue until reinstated by order of the Board pursuant to paragraph six (6) of this section.

(b) Second offense shall result in a suspension period of not less than one hundred and eighty (180) days and shall continue until reinstated by order of the Board pursuant to paragraph (6) of this section.

(c) Subsequent offenses shall result in either suspension of the license for a period of not less than one (1) year or permanent revocation.

(d) Notwithstanding any other provision, any holder of a license issued pursuant to this code who shall be found guilty of aiding or abetting any unlicensed person, firm, LLC, corporation or other business entity; or securing electrical permits for more than one company; or using employees other than their own to perform electrical work shall result in the suspension of said license for not less than one year on the first offense; subsequent offenses of the same nature will be considered by the Board for permanent revocation.

NOTE: If the Board determines the particular violation charged is of such a major or aggravated nature that a license should be permanently revoked, nothing in this subsection shall limit the Board's authority to do so regardless of any prior offenses or suspensions.

(6) A suspended license may be reinstated by order of the Board upon written request of the licensee. Said request must be submitted to the Code Official not more than thirty (30) days prior to or one hundred eighty (180) days after the expiration of the suspension period. Reinstatement requirements will be in the discretion of the Board and will be determined at the time of reapplication.

(7) The Board shall not consider the reinstatement of a permanently revoked license.

(8) Notification of License Suspension or Revocation: The Code Official shall notify in writing all jurisdictions that use or recognize a license issued pursuant to this code of any suspension or revocation. The notification shall be made within ten (10) days of the effective date of the suspension or revocation.

(L) *Unlicensed Work*: The Board of Electrical Examiners shall have the power to assess a fine, not to exceed \$1,000.00, against any person, firm, corporation, limited liability company or other business entity who performs electrical or communications work without possessing a valid license issued under this code. A fine imposed by the Board shall be paid within thirty days. If a fine is not paid within thirty days, the violation for which the fine was imposed may be referred to the County Counselor for prosecution in the St. Louis County Municipal Court, and a person convicted of the violation shall be subject to a fine of up to \$1,000.00 or imprisonment up to one year.

80-25 BUSINESS REQUIREMENTS

(A) A person, firm, corporation, limited liability company or other business entity, or institution, or representative thereof, establishing or operating a business which offers electrical or communications services shall:

(1) Have and maintain an established street addressed place of business with all necessary occupancy permits; and

(2) Have and maintain someone in attendance and on premises at the established place of business to receive calls during regular business hours or provide other effective means of communication. Said business hours being defined as Monday through Friday 8:00 a.m. to 5:00 p.m., excluding legal holidays; and

(3) Visibly display the name, address, telephone number and license categories of the business on any service-type vehicles used by the business or any of its employees in providing electrical or communications services. Letters and numbers shall be a minimum of three inches tall with a minimum width of one-half inch stroke.

Exception: A person, firm, corporation, institution or representative thereof operating under an industrial or maintenance license.

1102.081 Cable Television.

(81-1) *General:* Community Antenna Television installations shall comply with the requirements of the adopted edition of the National Electrical Code, the most recently published edition of the National Electrical Safety Code and the Cable Television Franchise Code.

(81-2) *One- or Two-Family Dwellings:* In addition to the requirements found in Section 81-1, Community Antenna Television installations on or over private property at one- and two-family dwellings shall comply with the following:

Underground Cable Installations

(A) Unless otherwise permitted or prohibited, underground cables approved for direct burial shall be installed at least 12" below finished grade. Lesser depths may be approved where routing cables to avoid other existing buried systems or to avoid devastation to established vegetation.

(B) Where cables are installed in rigid metal conduit, intermediate metal conduit or schedule 40 rigid non-metallic conduit, a burial depth of 6" below finished grade shall be permitted.

(C) Cables intended to be buried shall not be left on grade for more than 30 days under normal conditions. Longer periods shall be granted to accommodate unusual situations or adverse weather conditions.

(D) Underground cables shall be installed at least 5' horizontally from the inside wall of swimming pools and hot tubs installed on grade. A lesser distance shall be permitted where space does not allow 5' provided the cable is installed in rigid metal conduit, intermediate metal conduit or schedule 40 rigid non-metallic conduit.

Overhead Cables

(E) The final span of overhead cable to the customer's premises shall not be less than 8' at its lowest point, unless otherwise permitted or prohibited.

(F) Overhead spans of cable shall be at least 10' measured horizontally from the inside wall of swimming pools and hot tubs.

(81-3) *Other Installations:* Cable Antenna Television installations at other than 1- and 2-family dwellings and network-powered broadband installations shall comply with part Section 81-1.

**1102.100 Amendment to National Electrical Code--Chapter 1--
Article 100--Definitions.** --Chapter 1 - Article 100 of the 2014 National Electrical Code is hereby amended by the addition of the following provisions. When used in this code and in standards, rules and regulations promulgated under authority of this code, the following words or phrases shall have the meanings ascribed to them in this section unless the context clearly requires otherwise.

Interchangeability: Words stated in the present tense include the future; gender based words are intended as neutral; the singular number includes the plural and the plural the singular.

Terms Defined in Other Codes: Where terms are not defined in this code and are defined in the building, mechanical, or plumbing codes adopted by St. Louis County in Chapters 1115, 1103, and 1108 SLCRO 1974 as amended, such terms shall have the meanings ascribed to them as in those codes.

Article 100. Definitions

(A) GENERAL

Aid or Abet: To help, assist, advance, facilitate or promote the acquisition of an electrical permit for work performed by an unlicensed individual not working as an employee under the direct supervision of a license holder in St. Louis County.

Board of Appeals: The five member panel created in Chapter 1115 SLCRO 1974 as amended which has authority to hear and decide appeals from decisions of the Code Official or the Board of Electrical Examiners pursuant to the provisions of this code.

Building Commission: The five member panel set forth in Article IV, Section 4.330 of the St. Louis County Charter.

Code: These regulations, subsequent amendments thereto, or any emergency rule or regulation which the administrative authority having jurisdiction has lawfully adopted.

Code Official: The Director of Transportation and Public Works or the Director's duly authorized representative who is vested with executive and administrative authority to enforce all laws ordinances and codes regulating construction, alteration, addition, repair, removal, demolition, use, location, occupancy and maintenance of all buildings and structures, electrical, plumbing, drainlaying and mechanical systems pursuant to Chapters 1100, 1115, 1102, 1103, 1104 and 1108 SLCRO 1974, as amended.

Construction Documents: All of the written, graphic and pictorial documents prepared or assembled for describing the design, location and physical characteristics of the elements of the project necessary for obtaining an electrical permit.

Disaster: A disaster shall include but not necessarily be limited to flood, windstorm, tornado, severe storm, earthquake, bomb blast, explosion or similar natural or man-made type event. The Code Official shall make the determination whether an event shall be declared a disaster.

Emergency: An event or occasion that requires immediate action in order to preserve or restore the public peace, health, safety or welfare.

Employee: A person who has been hired by a business entity licensed under this code, to perform work regulated by this code. The licensed business entity shall keep true and accurate payroll and other related records that are required by law for a period of at least three years after such record was made.

A person is an "employee" if the person:

- Performs services for wages or salary for a business entity that submits IRS forms W-2, W-4 and I-9 for that person.
- May be disciplined or discharged by the business entity.

- Is directed by the business entity on what work to do, when to do it and in what sequence the work will occur.
- Performs services that are incorporated into the business entity's operation and significantly affect the success of the business.
- Is required to undergo company-provided training.
- Uses the business entity's tools, equipment, materials and work facilities.

All determinations with respect to whether a person is an "employee" or "full time employee" will be decided by the Code Official.

Full time employee: An employee of a business entity licensed under this code who performs tasks solely for this business entity during normal hours of operation of the business entity.

Existing Work: Any electrical system regulated by this code which was legally installed prior to the effective date of this code, or for which a permit to install has been issued.

Grandfathering: Approval of the continued use of an existing system or part of an electrical system that complies with the code requirements under which the system or part was installed including the requirements for licensure and permits contained within this code.

Registered Design Professional: An architect or engineer, registered or licensed to practice professional architecture or engineering pursuant to the professional registration laws of the state of Missouri.

Structure: That which is built or constructed or a portion thereof.

Workmanlike Manner: An electrical installation which complies with the published American National Standard "Good workmanship in Electrical Construction".

1102.105 Technical amendments to the requirements of the 2014 National Electrical Code. The following sections of the 2014

National Electrical Code, adopted by St. Louis County, are amended as herein identified and shall be part of the Electrical Code of St. Louis County or deleted therefrom as indicated.

Article 210.8 Ground-Fault Circuit-Interrupter Protection for Personnel. Ground-fault circuit-interrupter protection for personnel shall be provided as required in 210.8(A) through (C). The ground-fault circuit-interrupter shall be installed in a readily accessible location.

Informational Note: See 215.9 for ground-fault circuit-interrupter protection for personnel on feeders.

- (A) Dwelling Units.** All 125 volt, single phase, 15- and 20-ampere receptacles installed in the locations specified in 210.8(A) (1) through (10) shall have ground-fault circuit-interrupter protection for personnel.
- (1) Bathrooms.
 - (2) Garages, and also accessory buildings that have a floor located at or below grade level not intended as habitable rooms and limited to storage areas, work areas, and areas of similar use.
 - (3) Outdoors.
Exception to (3): Receptacles that are not readily accessible and are supplied by a branch circuit dedicated to electric snow-melting, deicing, or pipeline and vessel heating equipment shall be permitted to be installed in accordance with 426.28 or 427.22, as applicable.
 - (4) Crawl spaces- at or below grade level.
 - (5) Unfinished basements- for the purpose of this section, unfinished basements are defined as portions or areas of the basement not intended to be habitable rooms and limited to storage areas, work areas, and the like.
Exception No. 1 to (2) and (5): 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 400.7(A) (6), (A) (7) or (A) (8).

Exception No.2 to (5): A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit-interrupter protection.

Informational Note: See 760.41(B) and 760.121(B) for power supply requirements for fire alarm systems.

Receptacles installed under the exception No. 2 to 210.8(A)(5) shall not be considered as meeting the requirements of 210.52(G).

- (6) Kitchens-where the receptacles are installed to serve the counter top surfaces.
- (7) Sinks-where receptacles are installed within 1.8m (6 ft) of the outside edge of the sink.
- (8) Boathouses.
- (9) Bathtubs or shower stalls-where receptacles are installed within 1.8m (6 ft) of the outside edge of the bathtub or shower stall.
- (10) Laundry areas with a sink.

210.12 Arc-Fault Circuit-Interrupter Protection. Arc-fault circuit-interrupter protection shall be provided as required in 210.12(A), (B) and (C). The arc-fault circuit-interrupter shall be installed in a readily accessible location.

(A) Dwelling Units. All 120 volt, single phase, 15- and 20-ampere branch circuits supplying outlets or devices installed in bedrooms shall be protected by any of the means described in 210.12(A)(1) through (6):

(1) A listed combination-type arc-fault circuit-interrupter, installed to provide protection of the entire branch circuit.

(2) A listed branch/feeder-type arc-fault circuit-interrupter installed at the origin of the branch circuit in combination with a listed outlet branch circuit type arc-fault circuit-interrupter installed at the first outlet box on the branch circuit. The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.

(3) A listed supplemental arc protection circuit breaker installed at the origin of the branch circuit in combination with a listed outlet branch circuit type arc-fault circuit-interrupter installed at the first outlet box on the branch circuit where all of the following conditions are met:

- a. The branch circuit wiring shall be continuous from the branch circuit overcurrent device to the outlet branch circuit arc-fault circuit-interrupter.

b. The maximum length of the branch circuit wiring from the branch circuit overcurrent device to the first outlet shall not exceed 15.2 m (50 ft) for a 14 AWG conductor or 21.3 m (70 ft) for a 12 AWG conductor.

c. The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.

(4) A listed outlet branch circuit type arc-fault circuit-interrupter installed at the first outlet on the branch circuit in combination with a listed branch circuit overcurrent protective device where all of the following conditions are met:

a. The branch circuit wiring shall be continuous from the branch circuit overcurrent device to the outlet branch circuit arc-fault circuit-interrupter.

b. The maximum length of the branch circuit wiring from the branch circuit overcurrent device to the first outlet shall not exceed 15.2 m (50 ft) for a 14 AWG conductor or 21.3 m (70 ft) for a 12 AWG conductor.

c. The first outlet box in the branch circuit shall be marked to indicate that it is the first outlet of the circuit.

d. The combination of the branch circuit overcurrent device and outlet branch circuit arc-fault circuit-interrupter shall be identified as meeting the requirements for a system combination-type arc-fault circuit-interrupter and shall be listed as such.

(5) If RMC, IMC, EMT, type MC, or steel-armored type AC cables meeting the requirements of 250.118, metal wireways, metal auxiliary gutters, and metal outlet and junction boxes are installed for the portion of the branch circuit between the branch circuit overcurrent device and the first outlet, it shall be permitted to install a listed outlet branch circuit type AFCI at the first outlet to provide protection for the remaining portion of the branch circuit.

(6) Where a listed metal or non-metallic conduit or tubing or type MC cable is encased in not less than 50mm (2 in.) of concrete for the portion of the branch circuit between

the branch circuit overcurrent device and the first outlet, it shall be permitted to install a listed outlet branch circuit type AFCI at the first outlet to provide protection for the remaining portion of the branch circuit.

Exception: Where an individual branch circuit to a fire alarm system installed in accordance with 760.41(B) or 760.121(B) is installed in RMC, IMC, EMT, or steel sheathed cable, type AC or type MC, meeting the requirements of 250.118, with metal outlet and junction boxes, AFCI protection shall be permitted to be omitted.

Informational Note No.1: For information on combination-type and branch/feeder-type arc-fault circuit-interrupters, see UL 1699-2011, *Standard for Arc-Fault Circuit-Interrupters*. For information on outlet branch circuit type arc-fault circuit-interrupters, see *UL Subject 1699A, Outline of Investigation for Outlet Branch Circuit Arc-Fault Circuit-Interrupters*. For information on system combination AFCIs, see *UL Subject 1699C, Outline of Investigation for System Combination Arc-Fault Circuit - Interrupters*.

Informational Note No. 2: See 29.6.3(5) of *NFPA 72-2013 National Fire Alarm and Signaling Code*, for information related to secondary power-supply requirements for smoke alarms in dwelling units.

Informational Note No. 3: See 760.41(B) and 760.121(B) for power-supply requirements for fire alarm systems.

210.12(B) Branch Circuit Extensions or Modifications-Dwelling Units. In any of the areas specified in 210.12(A), where branch circuit wiring is modified, replaced or extended, the branch circuit shall be protected by one of the following:

(1) A listed combination-type AFCI located at the origin of the branch circuit.

(2) A listed outlet branch circuit type AFCI located at the first receptacle outlet of the existing branch circuit.

Exception: AFCI protection shall not be required where the extension of the existing conductors is not more than 9.5m (30 ft) and does not include any additional outlets or devices.

210.12(C) Dormitory Units. All 120-volt, sing-phase, 15- and 20-ampere branch circuits supplying outlets installed in

dormitory unit bedrooms, living rooms, hallways, closets, and similar rooms shall be protected by a listed arc-fault circuit interrupter meeting the requirements of 210.12(A)(1) through (6) as appropriate.

406.12 Tamper Resistant Receptacles. Tamper resistant receptacles shall be installed as specified in 406.12(A) and (B).

(A) Guest Rooms and Guest Suites of Hotels and Motels. All nonlocking-type 125 volt, 15- and 20- ampere receptacles located in guest rooms and guest suites of hotels and motels shall be listed tamper-resistant receptacles.

(B) Child Care Facilities. In all child care facilities, all nonlocking-type 125 volt 15- and 20- ampere receptacles shall be listed tamper resistant receptacles.

Exception to (A) and (B): Receptacles in the following locations shall not be required to be tamper resistant:

- (1) Receptacles that are more than 1.7m (5 ½ ft) above the floor.
- (2) Receptacles that are part of a luminaire or appliance.
- (3) 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 400.7(A)(6), (A)(7), or (A)(8).
- (4) Nongrounding receptacles used for replacements as permitted in 406.4(D)(2)(a).

1102.110 Electrical Permit and Other Fees. --The fees for electrical and communications permits and inspections pursuant to this code shall be charged at the rate specified in Chapter 1100, SLCRO 1974 as amended.

1102.200 License Fees and Administration. --The fee for issuing or renewing a license issued by St. Louis County pursuant to this code shall be as follows:

Electrical Contractor's License: \$125.00 annually

Electrical Maintenance License: \$50.00 annually

Electrical Industrial License: \$75.00 annually

Electrical Communication Contractor's License: \$50.00
annually

Elevator Electrical Controls Contractor's License: \$125.00
annually

(A) Licenses expire December 31 each year. Annual license fees are due by December 31. An invoice will not be sent but a notice will be mailed to the last known address of the licensee, no later than November 15.

(B) Annual license fees not received by December 31 are considered delinquent and the license inactive. A notice is not required and permits shall not be issued to a delinquent or inactive license.

(C) Annual license fees received after December 31 are subject to late fees as follows:

(1) A penalty of \$100 per month for each month past the license expiration date the renewal fee is submitted, up to six months.

(D) A license that has been inactive for three consecutive years shall not be re-activated until the license holder provides proof of successful completion of a recognized National Electrical Code class on the most recent code.

(E) A license that has been inactive for more than seven consecutive years shall require the license holder to reapply for a license and said applicant shall be considered a new applicant by the Board, unless upon review, the Board determines that the license holder has been otherwise actively engaged in the electrical or communications trade.

(F) A license that has been de-activated will be re-activated within 30 days of compliance with all requirements.

(G) Maintenance fees: By written notification, a license holder may direct St. Louis County to de-activate the license until further notice. The application and license will be kept on file indefinitely without charge. Bond and insurance are not required during this period of requested de-activation and there are no fees to pay. However, if during the period of de-activation the license holder is not actively engaged in the electrical or communications industry, they will be required to re-apply for a license and may, at the discretion of the Board, be considered a new applicant. The applicant

will be required to provide proof of employment activity in the electrical or communications industry.

(H) Temporary License - A firm, corporation or company that has been operating as a licensed electrical or communications contractor in St. Louis County for at least five consecutive years may make written request for a temporary license upon the death of the license holder, to complete work for which permits have been issued, but in no event longer than 12 months from the death of the license holder. A principal of the firm, corporation or company shall include in the request a copy of the death certificate and the scope and amount of work remaining on each permitted job. The request shall also contain the number of electricians or communications installers employed full-time by the company and show the hierarchy within the company to establish some quantifiable level of acceptable supervision on each permitted job. If, after the request is reviewed, the Board of Electrical Examiners determines that the company is capable of successfully completing work under the permits already granted and of fulfilling the obligations and requirements to the customer, the public and St. Louis County, the Board will request a recommendation from the Code Official or the Code Official's designee. If the Code Official or the Code Official's designee and the Board concur, a temporary license will be issued to allow permitted work to continue until completion. This provision shall not prevent the Code Official from immediately revoking a temporary license and all permits, causing all work to cease, if the Code Official determines it is in the best interest of the safety, health and welfare of the public.

(I) A license holder who wishes to re-activate or move a license from one company to another must notify the Electrical Licensing Office of the Highways and Traffic and Public Works Department in writing, stating the company name in which the license will be held. The license holder will be provided with the necessary information within 30 days. All open permits issued to the license holder must be closed by approved final inspections, or each permit may be transferred to the new company for a \$50.00 'change of contractor' fee.

(J) An electrical contractor with an active electrical contractor's license issued by the State of Missouri

or any State with which The State of Missouri has a reciprocal electrical contractor agreement with will be required to open an account with St. Louis County in order to obtain permits. The annual fee for maintaining the account shall be 125.00 due on December 31st. All sections of this code not pertaining to licensure application, licensure qualifications or license fees shall apply to a holder of a Missouri issued State license.

1102.210 Application Fee. --The fee for applying for a license issued pursuant to this code shall be \$20.00.

SECTION 2. If any section, subsection, sentence, clause or phrase of this ordinance is, for any reason, held to be unconstitutional, such shall not affect the validity of the remaining portions of this ordinance. The St. Louis County Council 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.

SECTION 3. Nothing in this ordinance or in the code hereby adopted shall be construed to affect any suit or proceeding impeding 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 2 of this ordinance; nor shall any just or legal right or remedy of any character be lost, impaired or affected by this ordinance.

SECTION 4. The Administrative Director is hereby ordered and directed to cause this ordinance to be published and kept available for public viewing.

SECTION 5. This ordinance and the rules, regulations, provisions, requirements, orders and matters established and adopted hereby shall take effect and be in full force and effect on the 1st day of the month following ninety (90) calendar days from and after the date of its adoption by the St. Louis County Council and approval by the County Executive.