

TITLE VI
BUILDING REGULATIONS
CHAPTER 5

ELECTRICAL CODE

AN ORDINANCE TO REPEAL CHAPTER 5 OF TITLE VI, OF THE 1999 MUNICIPAL CODE OF THE CITY OF URBANDALE, IOWA, AND TO ADOPT BY REFERENCE A COMPLETE ELECTRICAL CODE REGULATING THE PRACTICE, MATERIALS AND FIXTURES USED IN THE INSTALLATION, MAINTENANCE, EXTENSION AND ALTERATION OF ALL WIRING, FIXTURES, APPLIANCES AND APPURTENANCES IN CONNECTION WITH VARIOUS ELECTRICAL SYSTEMS; TO PROVIDE FOR THE EXAMINATION AND LICENSING OF ELECTRICIANS; TO PROVIDE FOR THE ISSUANCE OF PERMITS FOR ELECTRICAL INSTALLATIONS; TO PROVIDE FOR INSPECTION OF ELECTRICAL INSTALLATIONS AND FOR COLLECTION OF FEES THEREFOR; TO MAKE AMENDMENTS TO THE CODE; AND TO PROVIDE FOR PENALTIES FOR VIOLATIONS

Be it ordained by the Council of the City of Urbandale, Iowa:

SECTION 1.0000. That Chapter 5 of Title VI of the 1999 Municipal Code of the City of Urbandale, Iowa is hereby repealed and a new Chapter 5 established by inserting the following in lieu thereof:

SECTION 2.0000. Short Title

This Ordinance shall be known as the City of Urbandale, Iowa, Electrical Code, and may be cited as such, and will be referred to herein as "this ordinance" or "this code".

SECTION 3.0000. Adoption of Electrical Code

Pursuant to published notice and public hearing, as required by law, the National Electrical Code, 2002 Edition, as Published by the National Fire Protection Association including amendments thereto, is hereby adopted in full except for such portions as may hereinafter be deleted, modified or amended.

An official copy of the National Electrical Code, 2002 Edition, Amendments and a certified copy of this Ordinance, are on file in the office of the Building Official. A copy of said

National Electrical Code and a copy of this Ordinance have been furnished to the Municipal Library. All newspapers of general circulation published in this City have been furnished a copy of this Ordinance.

SECTION 4.0000. Amendments, Modifications, Additions and Deletions

The following amendments, modifications, additions and deletions to the National Electrical Code, 2002 Edition, are hereby made:

SECTION 4.0001. Purpose

The purpose of this Code is to provide minimum provisions to safeguard life or limb, health, property, and public welfare by regulating, licensing and controlling the design, installation, quality of materials, location and maintenance of all electrical installations and uses within the City.

SECTION 4.0002. Scope

The provisions of this Code shall apply to the electrical conductors and equipment installed within or on public and private buildings and other premises, also the conductors that connect the installations to a supply of electricity, and other outside conductors adjacent to the premises; also, mobile homes and travel trailers.

Additions to, alterations of, and repairs to existing electrical equipment, if covered by this Code, shall comply with the provisions of this Code; and further, the Electrical Inspector, may when such additions, alterations, or repairs are made, order further reasonable additions or alterations in a building, structure, or on premises, when a danger to life or property may result if such further additions or alterations were not made.

Installations which were in compliance with the Code in existence at the time such installations were made shall be presumed to be safe and proper, which presumption can be rebutted by evidence that the installation may be dangerous to life or property.

Where the classification of a building has been

changed due to a change in occupancy, the wiring in the entire building shall comply with all the electrical standards applicable to the new classification. Where the occupancy of a building has been changed to a mixed occupancy, with the required fire separation between the mixed occupancy, each occupancy shall comply with its own particular classification and shall be wired in compliance with the electrical standards of its particular classification.

For the purposes of this Code, the term "electrical work" shall apply to all uses, installations, alterations, repairs, removals, replacements, connections, disconnections and maintenance of all electrical equipment.

The term "electrical equipment" shall include all electrical materials, wiring, conductors, fittings, apparatus, devices, appliances, fixtures, signs or parts thereof, used in electrical work.

Where the occupancy of a building has been changed to a mixed occupancy and no fire separation is provided, the entire building shall be wired to comply with the requirements for the most restrictive classification.

SECTION 4.0003. Application to Moved Buildings

Buildings or structures moved into or within the City shall comply with the provisions of this Code for new buildings or structures.

SECTION 4.0004. Building Official - Appointment, Assistants, Powers, Duties

It shall be the duty of the Building Official appointed under provisions of the Urbandale Building Code to administer and enforce the provisions of this Ordinance and to make any required inspection or tests. He/she may also be referred to as the Chief Electrical Inspector. A person or persons may be appointed and authorized by the Mayor with approval of the Council as assistants or agents of the Building Official as may be necessary to carry out the provisions of this Ordinance. The Building Official and his/her authorized assistants shall have the right to enter any building during reasonable hours in the discharge of their official duties; and the authority to cause

disconnection of any wiring or equipment which, in his/her judgment, is dangerous to life and property or may interfere with the work of the Fire Department.

The Electrical Inspectors are hereby authorized, directed, and empowered to inspect any and all electrical installations within the City, to condemn and order removed or remodeled and put in proper and safe condition for the prevention of fire and safety of life, all electrical heating and lighting apparatus, power generators, motors, machinery, fixtures and connections, electrical equipment used in the supply distribution or utilization of electrical current for light, heat or power purposes and to control the disposition and arrangements of the same so that persons and property shall not be in danger therefrom.

The Electrical Inspector shall have the right at any time to enter any building, area, manhole, or subway, and shall be given prompt access thereto upon application to the company or individual owning or having charge or control of the same, for the purpose of making inspections and tests of the electrical apparatus and appliances therein or thereon, or otherwise discharging his/her official duties. Whenever, in the judgment of the Electrical Inspector, any electrical wire or appliance shall be defective or dangerous, or whenever from any cause the premises shall be in such defective condition as to be in danger of fires, or accident to workmen or the general public therefrom, the Electrical Inspector shall at once order the removal of such defects and the remedying of such improper condition.

It shall be the duty of the Electrical Inspector to administer and enforce the provisions of this article. He/she shall keep records of each ruling or determination made under the provisions of this article, and notify in writing all persons involved. He/she shall keep complete records of all permits issued, inspections made and other official work performed in accordance with the provisions of this article.

The Electrical Inspector and his/her assistants shall not engage in the business of the sale, installation, or maintenance of electrical

equipment either directly or indirectly, and they shall have no financial interest in any firm engaged in such business in the City of Urbandale at any time while holding office.

SECTION 4.0005. Electrical Board - Creation and Authority

- a. There is hereby created an Electrical Board, referred to hereinafter, as "Board", with authority to:
- (1) Periodically review the Electrical Code and make recommendations to the City Council.
 - (2) To prescribe rules and regulations for the conducting of examinations of applicants for licenses and certificates and to prepare the subject matter for examinations suitable to determine the qualifications of applicants for licenses and certificates herein prescribed.
 - (3) To rule upon the qualifications of all applicants and certify qualified applicants, together with their respective examination ratings, to the Building Official within thirty (30) days after the date upon which such examination is held, after which the Building Official shall cause such license or certificate to be issued. No licenses shall be issued without written certification from the Board.
 - (4) To revoke or suspend any license or certificate herein prescribed for violations of this Code, but only after the person charged therewith has been given notice and an opportunity to be heard in his/her own defense as provided herein. Said hearing shall be held at the earliest convenience of all parties concerned, but in any case, shall be within twenty-five (25) days, after written notice has been served on the person charged with the violation. The Board shall hear all interested parties who have pertinent written or oral evidence or information to present for consideration. Suspension shall be for any period up to six (6) months, and during the period of such suspension, the license

or certificate of the offender shall be void, and said offender shall not perform any work for which a license or certificate is required. After the termination of such period of suspension, such license or certificate shall be reactivated by the Chief Electrical Inspector, provided that renewal fees which have become due thereon, as herein set out, have been paid.

- (5) Act as Board of Appeals to hear grievances arising from a decision of the Chief Electrical Inspector and to provide for reasonable interpretations consistent with the provisions of this Code.

Any person may upon written request, appeal a previous decision of the Chief Electrical Inspector to the Board for Consideration.

- b. Same - Hearings. Any person affected by a decision of the Chief Electrical Inspector may request and shall be granted a hearing on the decision, provided that such person shall file in the office of the Department of Building, a written petition requesting such hearing and setting forth a brief statement of the grounds therefor, within fifteen (15) days after the day that the persons received notice of the decision.

The petitioner shall pay a fee of Thirty Dollars (\$30.00) on residential and Fifty Dollars (\$50.00) on commercial property appeals at the time of filing the appeal. Upon receipt of such petition and fee, the Department of Building shall set a time and place for such hearing and shall give petitioner written notice thereof at least three (3) days before the date set for such hearing, unless such three (3) day notice requirement is waived, in writing, by the petitioner. At such hearing the petitioner shall be given an opportunity to be heard to show why the decision of the Chief Electrical Inspector should be modified or withdrawn. The Chief Electrical Inspector shall have the opportunity to be heard to show why his/her decision should be affirmed. The hearing shall be commenced not later than twenty-five (25) days after the day on which the petition was filed, unless, for good cause shown, the

Building Official grants a postponement, in writing, of the hearing.

- c. Same - Decision. After such hearing, the Board shall affirm, modify or withdraw the decision of the Chief Electrical Inspector. The proceedings at any hearing before the board, including the findings and decision of the Chief Electrical Inspector, if applicable, shall be summarized, reduced to writing, and entered as a matter of public record in the office of the Department of Building. Such record shall include a copy of every notice or order issued in connection with the matter. If the board rules in favor of the Appellant resulting in a withdrawal of the decision of the Chief Electrical Inspector, the filing fee shall be refundable.
- d. Same - Appeal. Within ten (10) days after the written summary of the proceedings has been filed in the office of the Department of Building, the City shall file with the Board either a written acceptance of the decision of the Board, or a notice of its intent to appeal said decision to any court of competent jurisdiction. Thereafter, the City shall commence the appropriate action in such court within the ten (10) day period. The petitioner aggrieved by a decision of the Board may seek relief therefrom in any court of competent jurisdiction, as provided by laws of the State.
- e. Same - Membership. The Board shall consist of five (5) members, appointed by the Mayor. Each appointee then must be confirmed by the City Council. The initial terms to be one (1) for one (1) year, two (2) for two (2) years, and two (2) for three (3) years, thereafter appointments to be for three (3) year terms. The Chief Electrical Inspector shall act as secretary to the Board and has no vote in the proceedings.

The Board consists of the following persons, with the minimum qualifications listed:

- (1) One licensed (active) electrical contractor.
- (2) Two registered professional engineers.

- (3) Two representatives of the public who do not have experience as technical or professional electrical workers, who do not have electrical contractor's licenses, who are not employed by an electrical contractor nor hold an electrical engineering degree.
- f. Same - Vacancies. All vacancies occurring on the Board by removal, resignation, or death, shall be filled by appointment as determined previously. Any member of the Board may be removed by the City Council for malfeasance in office, incapacity, or neglect of duty. All appointments made under this section shall be for the unexpired term of the position vacated.
- g. Same - Meetings. The Board may conduct regularly scheduled meetings for examinations and to hear appeals during the months of March, June, September, and December of each year as necessary. Special meetings may be called at any time by the Chairman of the Board or the Chief Electrical Inspector or upon written request of two (2) members of the Board to the Chairman or the Chief Electrical Inspector.
- h. Same - Quorum. A quorum shall consist of three (3) members of the Board. In proceedings relative to the suspension or revocation of licenses or certificates, at least three (3) members must concur in such suspension or revocations.
- i. Same - Voting. All members of the Board shall have one (1) vote on any and all matters coming before the Board, except that no member of the Board shall vote on any question in which he/she is engaged as a contractor, material dealer, designer or consultant, or in which he/she has any direct interest. The Chief Electrical Inspector shall not vote. In the event of a tie vote, the previous decision of the Chief Electrical Inspector shall be affirmed.
- j. Same - General Rules. The Board shall adopt reasonable rules and regulations for conducting its meetings and shall render all decisions, findings, and recommendations in writing to the Building Official. The Chief

Electrical Inspector shall keep a full and correct detailed record of the official proceedings of the Board and preserve all documents, books and papers relating to examinations for licenses and certificates and hearings of complaints and charges.

The City Council shall provide suitable rooms in which the Board shall hold its meetings and shall provide for the necessary expenses incurred by the Board.

- k. Same - Legal Counsel. The Board shall have the right to request legal counsel from the City legal department when such counsel is desired.

SECTION 4.0006. Violations - Penalties

It shall be unlawful for any person to install, alter, repair, maintain, improve or use any electrical equipment, or to perform any electrical work in the City, or cause the same to be done, contrary to or in violation of any of the provisions of this Code. Anyone violating any of the provisions of this ordinance shall upon conviction, be subject to imprisonment not exceeding thirty (30) days, or a fine not exceeding One Hundred Dollars (\$100.00). Citations may also be issued under Chapter 22 of Title V of the Municipal Code.

SECTION 4.0007. a. License Applications, Licenses and Renewals

Any person desiring to take examinations for any of the licenses or certificates required by this Code, shall make application thereof to the Chief Electrical Inspector on blanks furnished by him/her and each application shall be accompanied by a receipt from the City Treasurer for the examination fee, as set out hereinafter, which fee shall be paid for each examination, or re-examination.

b. License Fees

The fees for examinations, licenses and certificates as shown in the following table are hereby authorized and required:

	Exam Fee	Biennial Active	Fee Inactive
Electrical Ctr. License	\$75	\$80	\$5
Elevator Ctr. License	\$75	\$50	None

Maintenance Elec. Cert.	\$75	\$50	None
Sign Wireman Cert.	\$75	\$50	None
Journeyman Elec. License	\$75	\$40	\$5

c. License Expiration and Renewal

All licenses (including "inactive") and certificates shall expire on December 31st of each odd numbered year. A one-year license can be issued at one-half fee, to establish this timing. Any license or certificate that has so expired may be renewed within thirty (30) days after the expiration date upon payment of the renewal fee. Upon the expiration of the aforementioned thirty (30) day period, no license or certificate shall be renewed without providing the normally required new license documentation, including testing results.

d. Electrical Contractor's License - Required

1. No person shall engage in the activity, or represent themselves to the public as engaging in the activity of installing, altering, maintaining or repairing any electrical equipment within the scope of this article unless such person shall have first obtained from the City an electrical contractor's license, except that the holders of current electrical contractor's licenses granted by the City prior to passage of this Code shall be reissued renewals of their licenses without taking the examinations herein provided. Such licenses shall be issued, however, without examination, in the case of any person holding an electrical contractor's license from another Iowa municipal corporation recognized by the Board as having similar licensing standards. Nothing contained in this section shall be deemed to exclude the performance of maintenance work by electrical contractors.

The provisions of this section shall not apply to:

- (i) The electrical work of a public utility company, telephone or telegraph company, nor the persons

performing electrical work for such companies, where such electrical work is an integral part of the plant used by such public utility company or telegraph company in rendering its duly authorized service to the public.

(ii) A regular employee of any railroad who does electrical work only as a part of that employment.

(iii) The service or maintenance of warm air heating equipment by any person who is licensed as a warm air heating contractor, provided that such service or maintenance shall only include electrical work on electrical equipment that is part of such warm air heating equipment. Such work may include the connection of such warm air heating equipment to existing branch circuits.

2. Same - Issuance to Individuals Only:
Cessation of Membership in Firm

Whenever an electrical contractor's license is issued, it shall be in the name of the person who has qualified for same. No license shall be issued in the name of a firm or corporation.

In the event a firm's corporation's licensed member ceases to be a member of the firm or corporation, then such firm or corporation shall not be permitted to do any further electrical work, except that work under previously issued permits may, at the discretion of the electrical inspector, be continued and finished. A licensed contractor who terminates his/her association with a firm or corporation shall notify the Chief Electrical Inspector of such termination in writing.

3. Same - Inactive Status

A licensed electrical contractor may maintain an inactive license and shall pay an annual license fee of Five Dollars (\$5.00) for any year in which inactive status is maintained. A licensed electrical contractor with an inactive

license shall not be issued permits for any electrical work within the scope of this article. If the holder of an inactive electrical contractor's license desires to secure permits, he/she must reactivate his/her license by making application to the Building Official and paying an Eighty Dollar (\$80.00) biennial fee.

4. Same - Contractor's Bond

After an electrical contractor's license has been issued and before such licensee actively engages in the performance of electrical work, he/she shall file with the City Treasurer, a Certificate of Deposit in the sum of Five Hundred Dollars (\$500.00) made payable to the contractor and the City of Urbandale, with the interest to accrue to the benefit of the contractor, to be held as a bond, which bond is to insure the collection of inspection fees and rectification of defective work. This bond is to remain on deposit one year after expiration of the license. upon the death of licensee, the treasurer may upon approval of the Building Official, release said bond before the expiration of one (1) year.

e. Elevator Contractor's License - Required

1. An elevator contractor's license for any work involved in the manufacture, installation, test or repair of electrical apparatus, appliances or equipment utilized in conjunction with the operation of elevators, escalators, dumb-waiters or hoisting machinery is hereby required, and shall be issued to any person who has satisfactorily passed the examination for elevator contractors, approved by the Board. Any person holding an elevator contractor's license issued by the City prior to passage of this Code shall be reissued renewals of their license without taking the examination hereinafter provided. Such license shall be issued, however, without examination, in the case of any person holding an elevator contractor's license from another Iowa municipal corporation recognized by the Board as having similar licensing

standards.

2. Same - Inactive Status

No inactive elevator contractor's licenses shall be issued.

3. Same - Contractor's Bond

The applicant for an elevator contractor's license for elevator construction and maintenance shall also be required to file with the City Treasurer, a cash bond in the amount of Five Hundred Dollars (\$500.00) to remain on deposit for one (1) year after the expiration of such license, which bond shall be to insure the collection of inspection fees and rectification of defective work. Upon the death of a licensee, the treasurer may, upon approval of the Building Official, release said bond before the expiration of one (1) year.

4. Same - Restrictions

Except as specifically provided in this division, the regulations governing elevator contractors shall be the same as described for electrical contractors.

f. Sign Wireman's Certificate - Provided

1. Any person who is licensed as a sign erector under the provisions of the Municipal Code, and has satisfied the Board as to his qualifications with respect to the installation of electrical equipment in or upon signs shall be entitled to obtain a sign wireman's certificate. Such certificate shall authorize the holder thereof to obtain an electrical permit to install on the exterior of any building or structure electrical sign equipment, provided that no more than ten (10) feet of exterior circuitry shall be so installed by the holder of such certificate. For purposes of this section, any person who holds an electrical contractor's license shall not be required to obtain a sign wireman's certificate.

2. Same - Inactive Status

No inactive sign wireman's certificate shall be issued.

3. Same - Bond

After a sign wireman's certificate has been issued and before the holder thereof actively engages in the installation, repair, or replacement of electrical signs, he shall file with the City Treasurer a cash bond in the sum of One Hundred Dollars (\$100.00) to remain on deposit for one (1) year after the expiration of the license, which bond is to insure the collection of inspection fees and rectification of defective work.

Upon the death of the holder, the Treasurer may, upon approval of the Building Official release said bond before the expiration of one (1) year.

4. Same - Restriction

Except as specifically provided in this division, the regulations governing sign wireman shall be the same as described for electrical contractors.

g. Maintenance Electrician's Certificate - Required

1. A maintenance electrician's certificate shall be required of any person who is a regular employee of a manufacturing or industrial establishment, who does electrical work for that establishment only, and who maintains and keeps in a state of repair the existing electrical equipment within a building, or group of buildings. A maintenance electrician's certificate shall be issued to any person who shall satisfactorily pass the examination given by the Board. Any person holding a maintenance electrician's certificate issued by the City prior to passage of this Code shall be reissued renewals of their certificates without taking the examination hereinafter provided.

The installation of any new or additional

electrical equipment of any kind by the holder of a maintenance electrician's certificate is hereby prohibited.

2. Same - Certificate Fee

Before any maintenance electrician's certificate is issued, the applicant shall be required to pay a fee in the sum of Fifty Dollars (\$50.00). Each certificate shall expire on December 31st of each odd numbered year. A one-year license can be issued at one-half fee, to establish this timing. Each application for a certificate or renewal shall include the address(s) of the certificate holder's place of employment and the name(s) of his/her employer(s).

h. Electrical Journeyman's License - Required

1. No person shall engage in the activity, or represent themselves to the public as engaging in the activity of installing, altering, maintaining or repairing any electrical equipment within the scope of this article unless such person shall have first obtained from the City a journeyman electrical license, except for those individuals holding a master electrician's license, and that the holders of current journeyman electrician licenses granted by the City prior to passage of this Code shall be reissued renewals of their licenses without taking the examinations herein provided. Such licenses shall be issued, however, without examination, in the case of any person holding a journeyman electrician license from another Iowa municipal corporation recognized by the Board as having similar licensing standards.
2. Alternatively, individuals wishing to acquire journeyman electrician licenses must successfully pass an exam approved by the Board.
3. Journeyman electricians are authorized to supervise no more than two helpers, commonly referred to as apprentices."

SECTION 4.0008. Permits - Required

- a. No person shall perform any electrical work

nor install electrical equipment in or upon any building or property without first securing from the Electrical Inspection Division a permit therefore; nor shall any alteration or change be made in the wiring of any building, or in any electrical installation therein or thereon, either before or after inspection, nor shall any electric current be connected to any wires, or apparatus, without notifying the Electrical Inspector and securing a permit therefor, except as provided for in the sections regulating Type "M" permits. A separate permit shall be obtained for each building.

Homeowner allowance. In cases where an owner-occupant of a single family dwelling desires to work on branch circuitry or perform maintenance branch circuit work in his/her single family dwelling they must file the "Homeowners Exemption Affidavit". The Electrical Inspector shall review the proposed electrical work to ascertain whether the proposed work would require upgrading the entire electrical system for the home. If such work would require an upgrading of the entire electrical system for the home, then no permit shall be issued to the applicant but said work in its entirety shall only be done by a licensed electrical contractor. If the inspection by the Chief Electrical Inspector shows that the proposed wiring would not overload the existing system, then the Inspector shall issue an electrical permit for the owner-occupant of the single family dwelling only, upon receipt of the affidavit and payment of the applicable fee, which permit shall be valid for a period not to exceed one hundred eighty (180) days. Homeowner electrical work is limited to branch circuits only. No electrical work shall be finally enclosed when done by an owner-occupant of a single family dwelling until after final inspection has been made by the Electrical Inspector. For purposes of this section, a single family dwelling shall mean a residence designed for and occupied by one family only.

b. Same -Issuance

After proper application on forms provided by the Chief Electrical Inspector, permits shall

be issued in the name of the person holding a contractor/master license and the name of the firm, or corporation with whom said contractor is associated. A person holding a contractor's license shall secure permits only for the firm or corporation named on the contractor's license. In the event a contractor becomes associated with a new firm or corporation, immediate notice must be given by filing the name of said firm or corporation with the Department of Building. All applications for electrical permits shall be signed by a licensed electrical contractor.

c. Same - Not Transferable - Permit Restrictions

Permits are not transferable. Electrical work performed under permits issued under the provisions of this article must be done by the contractor securing such a permit, only the employees of such contractor shall perform the electrical work for which the permit was obtained. For purposes of this section, an "employee" shall be one employed by the contractor for a wage or salary. An electrical contractor may be required by the Electrical Inspector to show positive evidence as to the employee status of workmen on the job. Such evidence shall be in the form of payroll and time records, canceled checks, or other such documents. The contractor may also be required to show the agreement or contract pertaining to the work being questioned as evidence that he/she is, in fact, the actual contractor for such work. Failure or refusal by the contractor to make available such employee or contractual records within twenty-four (24) hours from demand therefor shall be grounds for immediate revocation of any electrical permit for the work in question.

d. Same - Starting Permit

When the scope or extent of the electrical work is indefinite or impossible to determine until the work is in actual progress, the Chief Electrical Inspector shall issue a "Starting Permit". Such "Starting Permit" shall generally describe the nature of the anticipated work. As soon as practicable, before the final inspection, the contractor shall secure a regular electrical permit, describing in detail all work involved in the

job. A "Starting Permit" shall be clearly identified as such and the application therefore shall clearly describe the reason(s) why a regular electrical permit is not being applied for.

e. Same - Double Fee for Failure to Obtain Permit Before Starting Work

Except in emergency situations, as determined by the Electrical Inspector, where work for which an electrical permit is required by this Code is started or proceeded with by any person prior to obtaining a required permit, the regular fees as specified in this Code for such work shall be doubled, provided such increase shall not exceed Twenty-Five (\$25.00). The payment of such double fee shall not relieve any persons from fully complying with the requirements of this Code in the execution of the work nor from any other penalties prescribed herein. However, no double fee shall be imposed upon any person who starts work without a permit if: (1) said work is started on a Saturday, Sunday or holiday, or during any other day when the Department of Building is not normally open for business; and (2) such person secures the proper permit on the next Department of Building working day. No additional permits shall be issued to any person who owes the City the double fee described in this section.

f. Same - Type "M" Permit, Restrictions and Record of Work

Before any maintenance electrical work is performed by a maintenance electrician under the provisions of this Code, an electrical permit shall be obtained from the Electrical Inspection Division by the person or persons owning or controlling the building or group of buildings in which such maintenance electrical work is to be performed. This shall be known as a type "M" permit and shall be valid for one (1) year from the date of issuance. The name of the person or persons holding a maintenance electrician's certificate and performing work as provided in this section, shall be filed with the Electrical Inspection Division of the Department of Building and in the event a change is made, the new name shall be filed. Each maintenance electrician

performing work under the permit required by this section shall keep an accurate record for the Electrical Inspector of all work performed in each building, and shall, in the first days of January, April, July and October of each year, file a statement of the work performed during the preceding three (3) months in such building which statement shall be made under oath.

g. Same - Revocation of Permit; Expiration of Permit

Any permit required by the provisions of this Code may be revoked by the Chief Electrical Inspector upon the violations of any provision of this Code. Every permit issued under the provisions of this Code shall expire by limitation and become null and void, if the work authorized by such permit is not commenced within one-hundred-eighty (180) days from the date of issuance of such permit, or if the work authorized by such permit is suspended or abandoned at any time after the work is commenced for a period of one-hundred-eighty (180) days. Before such work can be recommenced a new permit shall be first obtained, and the fee therefor shall be one-half (1/2) of the amount required for a new permit for such work, provided that such suspension or abandonment has not exceeded one-hundred-eighty (180) days.

h. Same - Fees

There shall be paid to the Department of Building for the issuance of each electrical permit the following unit fees:

Flat fee for new single family or town house unit	\$100.00
Electrical fees for other than the aforementioned flat fee for new single family dwellings:	
First meter	\$8.00
Second & each additional meter	\$4.00
First through tenth circuit (each)	\$3.00
Eleventh circuit & each additional ckt	\$1.50
Fixed appliances	\$5.00

Basic Fee (Not applicable to <u>new</u> single family or townhouses)	\$30.00

In the event that an electrical permit is issued for a specific amount of work and, upon inspection, it is determined that more work was performed than was authorized on such permit, the permit holder shall obtain another permit to include all such additional work and shall pay only the unit fees prescribed in this preceding table, provided that no such permit shall be issued for less than Five Dollars (\$5.00).

SECTION 4.0009. Collection of Fees for Examinations, Licenses, Certificates and Permits; Refund of Permit Fees

All fees due the City of Urbandale, for examinations, licenses, certificates and permits shall be collected in the Department of Building and paid thereafter to the City Clerk. If, within thirty (30) days of the date of issuance, the holder of an electrical permit decides not to commence the work described in said permit, he/she may, upon application to the Department of Building, be refunded that portion of the permit fee which is in excess of Fifteen Dollars (\$15.00). The refund of any fee of Fifteen Dollars (\$15.00) or less shall not be made.

SECTION 4.0010. Inspections

- a. It shall be the duty of the person doing electrical work, for which a permit is required, to notify the Electrical Inspector that said work is ready for inspection. The Electrical Inspector shall, without undue delay, perform the required inspection. If the work complies with the code, the Inspector shall so advise the contractor and/or owner. If said work does not comply with the provisions of this Code, the Inspector shall post a violation notice in a conspicuous place on or near the work. Said violation notice shall contain the date and results of such inspection, and when requested, note specific violations. Notices shall not be removed by any person other than an Electrical Inspector.

When the electrical work is completed, the person doing the electrical work shall notify the Electrical Inspector that the work is ready for final inspection.

b. Prefabricated Assemblies

Where the work requiring an electrical permit will be wholly or partially enclosed within one (1) or more prefabricated assemblies, the requirements of Sections 4.0010-a and 4.0010-c of this Code pertaining to inspections by the Electrical Inspector, requests therefor and the concealment of electrical work shall not be applicable to such work if the use of prefabricated assemblies renders compliance with the requirements impracticable. In lieu of compliance with the requirements of Sections 4.0010-a and 4.0010-c, the fabricator shall provide the Chief Electrical Inspector with a certification from the International Conference of Building Officials, Underwriter's Laboratories, Inc. or any approved independent inspection agency qualified to make such certification stating that the electrical work wholly or partially enclosed within the prefabricated assembly has been inspected by the certifying agency and complies with the requirements of this Code and containing such other information as may be required by the Chief Electrical Inspector.

The provisions of Sections 4.0007 and 4.0008 shall not be applicable to electrical work required in fabricating prefabricated assemblies outside the corporate limits of the City of Urbandale. The provisions of sections 4.0007 and 4.0008 shall be applicable to electrical work required for assembly or fabrication of prefabricated assemblies within the corporate limits intended to be used within Urbandale.

c. Same - Covering or Concealing Work

No electrical work for which a permit is required shall be concealed in any manner from access or sight until such work has been inspected and approved by the Electrical Inspector.

d. Removal of Covering

The Electrical Inspector shall have the authority to remove or cause the removal of lath, plaster, boarding, or any other obstruction that may prevent the proper inspection of wires or electrical equipment.

e. Correcting Defective Work

When an Electrical Contractor is notified that defects exist in his/her electrical work, he/she shall make corrections promptly. Corrections shall be made within ten (10) days after notification, and if not so made, the Electrical Contractor shall not be issued any other permits until said defects are corrected, and approval given by the Electrical Inspector.

SECTION 4.0011. Furnishing Current Prior to Approval of Wiring

No person or corporation generating current for electric light, heat or power in the City shall connect it's system or furnish current for electrical purposes to any building or premises which has not been inspected and approved by the Electrical Inspector. Any person or corporation shall, upon written notice from the Electrical Inspector to do so, immediately disconnect such building or premises from its source of current.

SECTION 4.0012. Temporary De-Energization, Relocation or Removal of Overhead High Voltage Conductors Required for the Safety of the Public During the Performance of Construction Work

a. The term "high voltage" as used in this section means a voltage in excess of six hundred (600) volts, measured between the conductors or measured between the conductors and the ground. The term "overhead conductor" as used in this section means any electrical wire, cable, or other conductor installed above ground, except such conductors as are enclosed in grounded iron pipe, tubing, or other metallic or conductive covering, or enclosed in non-conductive covering of such combined physical and dielectric strength as to adequately protect any person who simultaneously comes in contact with such protective covering or any underground conductive object touching such covering and

ground or any grounded object.

The term "person" as used in this section shall include partnerships, corporations, municipal corporations and other political subdivisions.

- b. No person shall undertake or perform any work of construction, repair, demolition or salvage, or any part of such work, which will involve or necessitate the temporary placing, erection, operation or temporary use of any dragline, crane, derrick, power shovel, drilling rig, pile driver or other similar apparatus any part of which is capable of vertical, lateral or swinging motion, or of any scaffolding, tools, machinery, equipment, pipes, girders, rods or other materials, within six (6) feet of a high voltage overhead conductor placed or located within, above, over, across or along the streets, avenues, alleys or other public places or private property in the City of Urbandale without first obtaining a permit from the Electrical Inspector as provided in this section.

- c. Before any permit provided in this section shall be issued, an application shall be made to the Electrical Inspector (on forms to be supplied by him/her) stating the place, extent and purpose of the contemplated work within the above specified proximity of high voltage overhead conductor(s), the proposed commencement date of such work and the probable duration thereof, and all information then available to the applicant concerning the location, nature, and voltage of overhead electrical conductor(s) placed or situated within the prescribed proximity of any machine, apparatus, equipment, scaffold or materials of any kind or description proposed to be utilized in the performance of such work. Such application shall further state whether or not the applicant intends to provide and use any mechanical barrier as a safeguard against danger from contact with the high voltage overhead conductor(s), and shall further state the type and nature of such mechanical barrier to be provided and utilized and whether same is generally accepted and used in the construction industry. Upon the filing of an application for permit stating that mechanical barriers will be provided as

safeguards against danger resulting from accidental contact with high voltage overhead conductor(s) within the prescribed proximity of the proposed work, a permit may be issued forthwith by the Electrical Inspector if he/she deems such proposed barriers to be capable of providing adequate safeguards. Any permit so issued shall authorize the commencement and performance of the proposed work within the prescribed proximity of high voltage overhead conductor(s) provided the specified barriers are first erected or provided by the party responsible for the performance of the proposed work. A copy of such application and permit shall be transmitted by the Electrical Inspector to the person, firm or corporation maintaining or operating the high voltage overhead conductor(s) in question.

- d. Permission to proceed with the construction or demolition work or both after providing appropriate mechanical barrier shall not be authority for reducing, and no person shall reduce the six (6) foot requirement by moving the conductor(s) by any strains impressed by attachments or otherwise, upon the structures supporting the high voltage overhead conductor(s) or upon any equipment, or fixtures, or attachments thereof.
- e. If the application filed with the Electrical Inspector states that mechanical barriers will not be provided as a safeguard from accidental contact with high voltage overhead conductor(s), or in any case in which the Electrical Inspector deems that the mechanical barriers proposed to be used by the applicant will not provide reasonable effective safeguards against danger from accidental contact with high voltage conductor(s) in place within the prescribed proximity, then the Electrical Inspector shall furnish a copy of such application and any decision disapproving proposed mechanical barriers to the person, firm or corporation maintaining or operating the high voltage overhead conductor(s) in question. Safeguards against accidental contact with such conductor(s) shall then be provided by either de-energizing or temporarily removing or relocating the conductor(s) during the whole of the time that the proposed construction, repair or

demolition work, or combination thereof, necessitates the placing, erection or use of any equipment, structures or materials hereinabove described within six (6) feet of such conductor(s).

- f. The person, firm or corporation maintaining or operating the high voltage overhead conductor(s) to be safeguarded against by de-energization or temporary removal or relocation shall report to the Electrical Inspector, in writing, the safety measures to be utilized and shall furnish a copy of such report to the applicant for the permit. The Electrical Inspector shall then issue a permit authorizing the construction, repair or demolition work in question after the necessary measures have been effectuated and completed by the owner or operator of the high voltage overhead conductor(s).
- g. The person, firm or corporation maintaining or operating the high voltage overhead conductor(s) required to be safeguarded against by de-energization, removal or relocation, shall endeavor to effectuate and complete such safety measures before the date that the construction, repair or demolition work is scheduled to commence as stated in the permit application, and if such commencement should be delayed, the person, firm or corporation maintaining or operating the high voltage overhead conductor(s) shall be entitled to like delay in effectuating the required safety measures, but shall cooperate fully to accomplish the safety measures before actual commencement of the proposed work to be performed by the applicant within the prescribed proximity of the conductor(s). Any high voltage overhead conductor so de-energized shall not be re-energized, and any high voltage overhead conductor temporarily removed shall not be located in its former position, until all construction, repair or demolition work within the proximity of six (6) feet thereof is fully completed and the necessity for safeguarding lives and property against danger caused by accidental contact with the conductor in question has ceased.
- h. Where the temporary use of equipment, structures or materials within six (6) feet of

high voltage overhead conductor(s) has not been anticipated but becomes necessary in the course of construction or other work, the party responsible for the performance of such work, may make a direct request upon the person, firm or corporation operating or maintaining the conductor(s) to provide immediate safeguards against accidental contact therewith. The person, firm or corporation operating or maintaining the conductor(s) in question shall endeavor to effectuate as soon as possible the safety measures required in such situation; and the safety measures so provided shall be subject to all of the conditions and provisions stated in the last sentence of the preceding subparagraph (g) and in the next succeeding subparagraph (i) of this section. A report of the safety measures so taken or provided shall be made to the Electrical Inspector, but no permit fee shall be required in such cases.

- i. If the construction, repair or demolition work necessitating the de-energization or temporary relocation or removal of high voltage overhead conductor(s) located in the streets, alleys, or other public places in the City Of Urbandale is performed in connection with a public contract involving the opening, construction, reconstruction, repair or other improvement of any street, alley or other public place, or involving work in connection with any public sewer or water facilities therein or thereon, the cost of such safety measures shall be borne and paid by the person, firm or corporation maintaining or operating the high voltage conductor(s) in question, unless the payment of such costs, in whole or in part, is authorized by statute to be paid out of public funds. In the case of other work or improvements, whether performed under public or private contracts, the reasonable cost of de-energizing or temporarily relocating or removing the high voltage overhead conductor in question, as agreed upon between the parties, shall be borne and paid by the person, firm or corporation responsible for the performance of such private improvement or contract. In any event, such cost shall not include the cost of improvements or betterments in the line relocated or removed as a safety measure.

- j. The regulations of this section shall not be construed to relieve from or lessen the responsibility imposed by law upon any person owning, operating, controlling or installing any electrical wires, conductors, apparatus or equipment for damages to any person injured by any defect therein, nor shall the City be held assuming any such liability by reason of the enforcement of the regulations of this section or of the issuance of any permit or the making of any inspection hereunder.

- k. The provisions of this section shall not apply to:
 - 1. The construction, reconstruction, operation and maintenance of overhead electrical conductors and their supporting structures and associated equipment by qualified persons authorized by the owners or operators thereof; or

 - 2. The authorized and qualified employees of any person, firm or corporation engaged in the construction, operation, and maintenance of the overhead electrical circuits or conductors and their supporting structures and associated equipment of street railway transportation systems, or of electrical generating, transmission, and distribution systems or of communication systems.

 - 3. The operation in maintenance of way service of standard rail equipment which is not normally used in the transportation of freight or passengers or both, and the operation of relief trains or other equipment in emergencies; provided, however, that normal repair and construction operations at a distance of less than six (6) feet from any high voltage overhead conductor shall not be exempted from the provisions of this section unless performed by qualified and authorized persons or employees of said rail transportation system under the direct supervision of an authorized person who is familiar with the hazards involved.

SECTION 4.0013. Existing Dwelling requirements for upgrades and new services

The Chief Electrical Inspector may, upon substantial evidence, determine that a complete upgrade and new service is required. A new service and complete upgrade shall be required if the calculated load exceeds the capacity of the existing service. An upgrade shall be required if a new service is installed.

a. Minimum service

The minimum replacement service size is 100 amperes.

b. An upgrade shall include the following:

1. Conductors shall be protected by the proper size overcurrent devices.
2. Convenience receptacle outlets in the kitchen and basement shall be of the grounding type or ground-fault circuit-interrupter-type.
3. Convenience receptacle outlets serving kitchen counter-tops, in the bathroom, on the exterior and accessible from grade, and accessible receptacles in the garage shall be provided with ground-fault-circuit-interrupter protection.
4. Every habitable room except the bathroom shall be provided with not less than two electric convenience receptacle outlets.
5. Bathrooms shall be provided with not less than one convenience receptacle outlet.
6. Laundries shall be provided with not less than one convenience receptacle outlet.
7. Every stairway shall be provided with a light that is controlled by a switch at the entrance to the stairway.

c. Minimum circuitry

There shall be a minimum of two 20-ampere small appliance branch circuits to serve all receptacle outlets including refrigeration equipment in the kitchen, pantry, breakfast room, dining room or similar area of a dwelling unit. Such circuits, whether two or more are used, shall have no other outlets

except as provided by the National Electrical Code. Adequate circuits shall be provided elsewhere to prevent overloads.

All conductors shall be adequately secured and protected against physical damage as required in the National Electrical Code.

SECTION 4.0080. Delete Article 80:

"Article 80 is hereby specifically deleted."

SECTION 4.1001. Add to Article 100 the following definitions:

"Dwelling, row. Any one of three or more detached dwellings in a continuous horizontal row, each with a separate front and rear entrance and each separated from the other by an approved fire wall or walls having a fire resistive rating of at least one hour."

"Family. An individual or two or more persons related by blood or marriage, or a group of not more than five persons (excluding servants) who need not be related by blood or marriage, living together in a dwelling unit."

"Kitchen. Kitchen shall mean any room or part thereof used primarily for food preparation."

SECTION 4.1101. Add to Article 110.2 the following:

"Conformity with the standards of the Underwriter's Laboratories Incorporated as approved by the United States of American Standards Institute shall be evidence of conformity with approved standards for electrical equipment."

SECTION 4.2101. Amend Article 210.12 (B) by replacing with the following:

"**(B) Dwelling Unit Bedrooms.** All branch circuits that supply 125-volt, single-phase, 15- and 20-ampere receptacle outlets installed in dwelling unit bedrooms shall be protected by an arc-fault circuit interrupter(s). Smoke detectors shall not be on Arc-Fault Circuit-Interrupter protected circuits. These provisions also apply to Article 550.25, Arc-Fault Circuit-Interrupter protection in bedrooms of mobile homes and manufactured homes."

SECTION 4.2102. Amend Article 210.8 (B) (3) by replacing with the following:

"(3) Kitchens - where the receptacles are installed to serve the countertop surfaces."

SECTION 4.2301. Add to Article 230.42 the following:

"Notwithstanding other provisions contained herein the service entrance conductors and service equipment in all new single family dwellings, two-family dwellings, and row dwellings, shall be not less than the equivalent of 100 ampere 230/115 volts AC single phase per each dwelling unit. Converted dwellings can be wired at the discretion of the Electrical Inspector, subject to the provisions of this Code."

SECTION 4.5181. Article 518.1 shall be amended as follows:

Amend Article 518.1 by replacing the number "100" with the number "50".

SECTION 4.5271. Add to Article 527.1 the following:

"Temporary electrical work shall generally be construed to mean that work which is obviously installed for the convenience of a contractor or builder during construction. Such work shall be the complete responsibility of the person who installs it and shall require the Inspector's approval prior to being used. All such work shall be installed by a licensed Electrical Contractor or his employee and shall be removed before final approval of permanent electrical work. Temporary electrical work shall not be permitted to remain in use in excess of six (6) months except by written permission of the Electrical Inspector."

SECTION 5.0000. Conflicting Ordinances

All ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

SECTION 6.0000. Effective Date

This ordinance shall be in effect after its final passage, approval and publication as provided by law.

SECTION 7.0000. Saving Clause

If any section, provision or part of this ordinance shall be adjudged to be invalid or unconstitutional, such adjudication shall not affect the validity of this ordinance as a whole or any section, provision or part thereof not adjudged invalid or unconstitutional.

Passed and approved by the City Council of the City of Urbandale, Iowa this _____ day of _____, 2004.

Brad Zaun, Mayor

ATTEST:

Passed _____

Signed _____

Debra Mains, City Clerk

Published _____