

701 East Broadway, Columbia, Missouri 65201

Department Source: Community Development - BSD

To: City Council

From: City Manager & Staff

Council Meeting Date: April 18, 2016

Re: Adoption of the 2015 International Code Council Family of Codes, with Amendments

Executive Summary

The Building Construction Codes Commission (BCCC) has completed its review of the 2015 International Code Council family of codes and the 2014 National Electrical Code for adoption by the City. While the majority of the code changes in this cycle consist of clarifications and reformatting, there are several major code changes including required storm shelters for educational (K through 12 schools) and critical emergency operations use groups (911 call stations, fire, rescue, ambulance, and police stations), as well as new commercial and residential energy efficiency requirements. The Environment and Energy Commission (EEC) also has provided recommendations on the energy efficiency requirements in the International Residential Code (IRC) and the International Building Code (IBC).

Discussion

The Building Construction Codes Commission is authorized by Chapter 6 of the City Code to "review the Building and other codes periodically for updating and recommending changes." After obtaining authorization to review the 2015 codes from the City Council in March 2015, the BCCC and its committees met frequently from May 2015 to January 2016, evaluating the effect of the new codes and recommending local amendments. BCCC members, representatives of the Building and Site Development Division of the Community Development Department, the Fire Department, and the Inspections Division of Boone County Resource Management attended the meetings.

The Environment and Energy Commission (EEC), following its charge in Chapter 2 of the City Code to "Act in an advisory capacity to the council in all matters pertaining to environmental protection, which could include questions of energy efficiency and conservation, and of changing technology," has reviewed the BCCC recommendations. The EEC has provided several recommended amendments to the energy efficiency requirements for single and two family construction and commercial structures, including multiple-family and institutional residential structures. A summary of the EEC recommendations is provided at the end of this discussion and in the attachments.

Below is a list of selected major code changes and other proposed amendments. All amendments appear in bold font/strikethrough in the attached proposed ordinances.



701 East Broadway, Columbia, Missouri 65201

Significant Code Changes

 Storm shelters. The most significant change of this code cycle is the new storm shelter requirement (ICC 500) in the 2015 International Building Code (IBC). Because Central Missouri is in an area where the design wind speed for tornadoes is 250 mph [See attached Figure 304.2(1)] the 2015 IBC section 423 requires storm shelters to be constructed in accordance with ICC 500 for the following use groups;

423.3 Critical emergency operations. 911 call stations, emergency operations centers and fire, rescue, ambulance and police stations.

Exception: Buildings meeting the requirements for shelter design in ICC 500. **423.4 Group E occupancies.** All group E occupancies with an occ. load of 50 or more.

Exceptions:

- 1. Group E daycare facilities.
- 2. Group E occupancies accessory to places of religious worship.
- 3. Buildings meeting the requirements for shelter design in ICC 500.

None of the existing buildings in the City would meet the requirements for shelter design in ICC 500 if they were built today.

The 2015 IBC is not clear how building additions may trigger the requirement for a storm shelter. According to an ICC representative, the authority having jurisdiction would determine the requirement for constructing a storm shelter for an addition on a case by case basis. An administrative policy would likely need to be established to clarify the issue.

There will be many additional structural, engineering, and procedural requirements for shelters designed in compliance with ICC 500. Because of the additional expense related to these requirements, the BCCC members want to make sure all stakeholders are aware of this major code change. The BCCC proposes no amendments to these new provisions.

 Energy efficiency. As in the last code cycle the BCCC reviewed new energy code requirements and considered both the benefits of the new requirements and the associated expenses. The BCCC recommends adopting the 2015 Energy Code requirements with the following amendments.

Commercial

a. The 2015 International Energy Efficiency Code Section C408 requires System Commissioning. All members agreed system commissioning, adjusting, and balancing is advisable. It is the opinion of the committee that the additional required plans and documentation are both cumbersome, time consuming, and expensive. Consensus was that system balancing, performance, and control can be achieved without these additional burdens and suggest the following amendments.



701 East Broadway, Columbia, Missouri 65201

C408.2 Mechanical systems and service hot water heating systems commissioning and completion requirements. Amend as follows;

Prior to the final mechanical and plumbing inspections, the registered design professional or approved agency shall should provide evidence of mechanical system commissioning and completion in accordance with the provisions of this section.

C408.3.1 Functional testing. Amend as follows.

Prior to passing final inspection, the registered design professional shall should provide evidence that the lighting control systems have been tested to ensure that control hardware and software are calibrated, adjusted, programmed and in proper working condition in accordance with the construction documents and manufacturer's instructions.

b. As in the last code cycle the BCCC voted to keep the amendment to IBC 1301.1.2 for R-2, R-3, and R-4 use groups (attached). This amendment prescribes insulation values, thermal envelope sealing, and thermal transmittance values for windows.

Residential One and Two Family

- a. **N1101.3 Scope.** Add the attached figure labeled 2015 Residential Energy Code Requirements and make it a prescriptive means of code compliance. The committee believes building to this diagram both meets the intent of the code and simplifies the requirements for builders and inspection staff. Consensus was that simplification would translate to more consistent compliance, energy efficiency and affordability.
- b. **N1102.2.9 Basement walls. Amend first sentence as follows;** Walls associated with conditioned finished basements shall be insulated from the top of the basement wall down...
 - This is applicable only to the foundation wall portions of unfinished basements. To insulate these walls before it is determined what the use will be and where plumbing, mechanical, and electrical components will be located leads to excess cost and duplication of work. This amendment is in line with the goal of affordability.
- c. N1102.4.1.2 Testing. Amend as follows (Amended portion in bold font); The building or dwelling unit shall be blower door tested as deemed necessary by the building official and verified as having an air leakage rate...Because dwellings never fail the blower door test when constructed per the prescriptive code requirements the blower door test is unnecessary. When, through un-craftsman-like work, compliance with prescriptive code requirements is questionable, the blower door test may be



701 East Broadway, Columbia, Missouri 65201

required. Because blower door testing is several hundred dollars this amendment is in line with the goal of affordability.

- d. N1102.4.4 Rooms containing fuel burning appliances. Delete. This section requires rooms "where open combustion air ducts provide combustion air to open combustion fuel-burning appliances" (Typically 80% efficiency gas furnaces and water heaters) to be isolated from the building thermal envelope by means of insulation and fully gasketed doors. The committee believes this requirement, in conjunction with the requirement to bring combustion air into the room, may cause unintended negative consequences such as **freezing** of water pipes or builders using less efficient electric equipment. The committee also believes isolating this room from the thermal envelope entails unnecessary expense.
- e. Appendix U (Appendix RB in the International Energy Conservation Code) Solar Ready Provisions. This appendix is not mandatory unless adopted by the adopting ordinance. The BCCC believes the provisions of this appendix will only add unnecessary construction documentation requirements and does not propose adoption of this appendix.
- 3. **Accessibility.** The BCCC is proposing two accessibility amendments to IBC chapter 11 as follows;

1104.4 Multistory buildings and facilities. Amend exception 1 as follows (Amended portion in bold font);

Exceptions:

- An accessible route is not required in private buildings or facilities that are less than
 three stories or to stories and mezzanines that have an aggregate area of not more
 than 3,000 square feet and are located above and below accessible levels. This
 exception shall not apply to:
 - 1.1 Multiple tenant facilities of group M occupancies containing five or more tenant spaces used for sales and rental of goods and where at least one such tenant space is located on a floor level above or below the accessible levels;
 - 1.2Stories or mezzanines containing offices of health care providers (Group B or I);
 - 1.3 Passenger transportation facilities and airports (Group A-3 or B) or;
 - 1.4 Government Buildings.

This language intends to conform with the ADA which states;

Exceptions:

1. In private buildings or facilities that are less than three stories or that have less than 3000 square feet per story, an accessible route shall not be required to connect



701 East Broadway, Columbia, Missouri 65201

stories provided that the building or facility is not a shopping center, a shopping mall, the professional office of a health care provider, a terminal, depot or other station used for specified public transportation, an airport passenger terminal, or other type of facility as determined by the Attorney General.

1109.5.1 Minimum number (Drinking fountains). Amend as follows; No fewer than two drinking fountains shall be provided. One drinking fountain shall comply with the requirements for people who use a wheelchair and one drinking fountain shall comply with the requirements for standing persons.

As the code is written a minimum of two drinking fountains is always required because the maximum height for wheelchair accessibility is 34" and the minimum for standing persons is 36" the BCCC. The BCCC voted that if the plumbing code only required one drinking fountain it could meet the standard for wheelchair accessibility. The intent was to limit cost. Note: <u>Staff has some concerns regarding this amendment; a member of Great Plains ADA Center has stated the proposed amendment is in direct conflict with ADA requirements.</u>

- 4. **Existing structures**. Chapter 34 **Existing Structures** has been removed from the IBC. The provisions of this chapter are now contained in the International Existing Building Code (IEBC). IBC section 101.4.7 states, "The provisions of the International Existing Building Code shall apply to matters governing the repair, alteration, change of occupancy, addition, to and relocation of existing buildings." The IEBC goes into much greater detail and clarification than Chapter 34 provided without changing the intent of the provisions.
- 5. Also of note are;
 - A. The BCCC recommendation to adopt appendices R and S in the 2015 International Residential Code. These appendices establish requirements for "Light Straw-Clay Construction" and "Strawbale Construction".
 - B. The BCCC recommendation to add a commission member "Experienced in Energy Conservation". (IBC amendment section 113.1.2)

EEC Recommendations

The Environment and Energy Commission has made a number of recommendations regarding energy efficiency that differ from the BCCC recommendations, which are summarized below and in the attachments to this report.

The EEC recommendations would make the following changes to the draft ordinance:



701 East Broadway, Columbia, Missouri 65201

- 1. Revise the proposed 2015 Residential Energy Code Requirements diagram to require mandatory air leakage testing, state a target air leakage rate, and require blower door and duct pressure tests; require termite barriers.
- 2. Revise Table 301.2(1) to rate Missouri as "moderate to heavy" termite risk rather than "very heavy" risk as recommended by the BCCC (moderate to heavy is the rating given to Missouri in the published code);
- 3. Amend the International Residential Code N1102.4.1.2 to require blower door (air leakage) testing (currently it is not recommended a requirement by BCCC);
- 4. Amend IBC 1301.1.2 to change required insulation values for use groups R-2, R-3, and R-4 (housing other than 1 or 2 family) from R38 to R49 for ceiling or roof and R15 to R20 for exterior walls; require slab insulation rated R10 and require a termite barrier in accordance with R318.3j; and change window "U" value (thermal transmittance rating) from 0.55 to 0.40.
- 5. Adopt Appendix U, Solar Ready Provisions, as part of the International Residential Code.

Fiscal Impact

Short-Term Impact: None Long-Term Impact: None

Vision & Strategic Plan Impact

Vision Impacts:

Primary Impact: Environment, Secondary Impact: Health, Social Services & Affordable Housing, Tertiary Impact: Not Applicable

Strategic Plan Impacts:

Primary Impact: Not Applicable, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable

Comprehensive Plan Impacts:

Primary Impact: Livable & Sustainable Communities, Secondary Impact: Not applicable,

Tertiary Impact: Not Applicable



701 East Broadway, Columbia, Missouri 65201

Legislative History

Date	Action
03/02/15	REP33-15 Council authorized the Building Construction Codes
	Commission to review the 2015 International Codes.
07/20/15	R 120-15 Council directed the City Clerk to place on file for a period of ninety days the 2015 International code Council family of codes and the 2014 National Electric Code.

Suggested Council Action

Adopt the 2015 International Code Council family of Codes (International Residential Code, International Building Code, International Energy Conservation Code, International Existing Buildings Code, International Plumbing, Mechanical, and Fuel Gas Codes, International Fire Code) and the 2014 National Electric Code to be in full force and effect on October 1, 2016.

	Introduced by _		<u></u>
First Reading		Second Reading _	
Ordinance No		Council Bill No.	B 106-16

AN ORDINANCE

repealing Article V of Chapter 6 of the City Code relating to the 2012 Edition of the International Mechanical Code and enacting in lieu thereof a new Article V adopting the 2015 Edition of the International Mechanical Code; and fixing the time when this ordinance shall become effective.

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. Article V of Chapter 6 of the Code of Ordinances, City of Columbia, Missouri, relating to the 2012 Edition of the International Mechanical Code, is hereby repealed and in lieu thereof a new Article V, relating to the 2015 Edition of the International Mechanical Code, is hereby enacted reading in words and figures as follows:

CHAPTER 6. BUILDINGS AND BUILDING REGULATIONS

. . .

ARTICLE V. Mechanical Code

Sec. 6-60. Adopted.

The 2015 Edition of the International Mechanical Code, published by the International Code Council, Inc., including Appendix A, one copy of which has been on file with the city clerk for a period of ninety (90) days prior to the adoption of this article, is hereby adopted by reference and made a part of the Code of Ordinances, City of Columbia, Missouri as fully as if set forth in its entirety. At least one (1) copy of the 2015 Edition of the International Mechanical Code shall remain on file in the office of the city clerk and shall be kept available for public use, inspection and examination.

Sec. 6-61. - Amendments.

The code adopted by this article is hereby amended by substituting the following sections in lieu of those sections with corresponding numbers in the code, or, where there is no corresponding section in the code, the following sections shall be enacted as additions to the code:

101.1 Title. These regulations shall be known as the Mechanical Code of the City of Columbia, Missouri, hereinafter referred to as "this code."

101.5 Board of mechanical examiners. A board of mechanical examiners consisting of six (6) persons is hereby created. One (1) member shall be the director of community development or the director's designee, who shall be a non-voting ex-officio chairperson of the board; the remaining five (5) members shall be appointed by the city council. One (1) member shall be a registered professional engineer; one (1) member shall be a mechanical heating, ventilation, air conditioning and refrigeration (HVACR) contractor or master mechanic; one (1) member shall be a HVACR journeyman mechanic; one (1) member shall be a general contractor not in the HVACR business; and one (1) member shall be a layman. The first two (2) members appointed to the board shall serve for three (3) years, the second two (2) members shall serve for two (2) years, the last member shall serve for one (1) year. Thereafter, each member of the board shall serve for three (3) years and until a replacement is appointed and qualified. The board of mechanical examiners shall be empowered to give examinations for mechanical heating, ventilation, air conditioning and refrigeration licenses and certificates, to approve or disapprove applications for mechanical heating, ventilation, air conditioning and refrigeration licenses and certificates, and to issue or revoke mechanical heating, ventilation, air conditioning and refrigeration licenses or certificates. A deposit of fifty dollars (\$50.00) must be submitted with the application. The deposit shall be refunded to the applicant if the applicant appears at the board meeting at which the examination is scheduled. The board shall meet upon the call of the chair, or upon the call of a majority of its membership, however, it shall meet within at least sixty (60) days after filing of an application for examination. Applicants scheduled for examination shall be notified at least three (3) days prior to the date of examination; with date, time and place of examination. A minimum of three (3) board members are required to have a quorum. The chair of the board is authorized to excuse any member from attendance at a board meeting; provided, that the member requested to be excused before the meeting. Any member who is absent, without being excused, from twenty-five (25) percent of the regular board meetings held in a calendar year shall automatically forfeit the office. Any member who is absent, without being excused, from three (3) consecutive regular meetings shall automatically forfeit the office. It shall be the duty of the chair to promptly notify the council of the vacancy.

101.5.1 Membership qualifications. Members of the board appointed by the city council shall be residents of the City of Columbia, Missouri.

101.6 Unlawful. It shall be unlawful for any person to engage in the installation, alteration or repair of heating, ventilation, air conditioning and refrigeration components or systems in or on any building, structure, or premises within the corporate limits of the City of Columbia, Missouri, unless issued a certificate of competency by the board of mechanical examiners, except as provided elsewhere in this code.

101.7 Certificates. The board of mechanical examiners is herein empowered to provide for the following types of certificates:

- 1. Master mechanical heating, ventilation, air conditioning and refrigeration mechanic. (Type A)
- 2. Journeyman mechanical heating, ventilation, air conditioning and refrigeration mechanic. (Type B)
- 3. Maintenance journeyman mechanical heating, ventilation, air conditioning and refrigeration mechanic. (Type B-1)
- 4. Apprentice mechanical heating, ventilation, air conditioning and refrigeration mechanic. (Type C)
- 5. Chimney Sweep (Type D)

101.8 Certificate types. Certificates will be issued to applicants who meet the following requirements:

Chimney Sweep (Type D)

- 1. Submit application to director of community development stating name, address, telephone number and type of certificate requested.
- 2. Provide positive proof of twelve thousand (12,000) hours active employment as a journeyman mechanical HVACR (Type B) or apprentice mechanical HVACR or equivalent experience acceptable to the board.
- 3. List names, addresses and telephone numbers of all previous employers under which applicant worked as an apprentice heating, ventilation, air conditioning and refrigeration mechanic.
- 4. Successfully complete examination as required by board of mechanical examiners, or provide proof of certification acceptable to the board.
- 5. All applicants approved by the board for chimney sweep certificates shall pay a ninety dollar (\$90.00) fee prior to the issuance of the certificate. Certificate renewal shall be required every three (3) years. Certificates issued in September, October and November of the renewal year are not required to pay a renewal fee in December.

Apprentice (Type C). Submit application stating name, address and telephone number and employer's signature. No fee required.

Journeyman (Type B and Type B-1)

- 1. Submit application to director of community development stating name, address, telephone number and type of certificate requested.
- 2. Provide positive proof of eight thousand (8,000) hours active employment as apprentice heating, ventilation, air conditioning and refrigeration mechanic, or such equivalent experience deemed acceptable by the mechanical board.
- List names, addresses and telephone numbers of all previous employers under which applicant worked as an apprentice heating, ventilation, air conditioning and refrigeration mechanic.
- 4. Successfully complete examination as required by board of mechanical examiners.
- 5. All applicants approved by the board for journeyman certificates shall pay a thirty dollar (\$30.00) fee prior to the issuance of the certificate. Certificate renewal shall be required every three (3) years. Certificates issued in September, October and November of the renewal year are not required to pay a renewal fee in December.

Master (Type A)

- 1. Submit application to director of community development stating name, address, telephone number and type of certificate requested.
- 2. Provide positive proof of twelve thousand (12,000) hours active employment or equivalent as an apprentice and/or journeyman heating, ventilation, air conditioning and refrigeration mechanic, or such equivalent experience deemed acceptable by the mechanical board. At least four thousand (4,000) hours of the required time must be as a journeyman or equivalent experience acceptable to the board.
- 3. List names, addresses and telephone numbers of all previous employers under which applicant worked as an apprentice and/or journeyman heating, ventilation, air conditioning and refrigeration mechanic.
- 4. Successfully complete examination as required by board of mechanical examiners.
- 5. All applicants approved by the board for master certificates shall pay a ninety dollar (\$90.00) fee prior to the issuance of the certificate. Certificate renewal shall be required every three (3) years. Certificates issued in September, October and November of the renewal year are not required to pay a renewal fee in December.
- 101.8.1 Examination and certification. The board shall establish standards and procedures for the qualifications, examination, and licensing of master and journeyman mechanics; and chimney sweeps, and shall issue an appropriate certificate of competency to each person who meets the qualifications therefore and successfully passes the

required examination. The standard examination for master mechanic shall be the mechanical contractor category or journeyman mechanic shall be the journeyman HARV category as prepared and published by Thomson Prometric, ATTN: National Construction Program, 1260 Energy Lane, St. Paul, MN 55108 or the ICC National Standardized Examinations Program, www.iccsafe.org/contractor (1-877-783-3926) for Contractor Trades Testing. Chimney sweeps shall provide proof of certification acceptable to the board as well as employment verification and proof of hours of active employment for the board to review. The board shall keep an official record of all transactions.

101.9 Permit required. Application for a permit shall be made by a licensed master mechanical HVACR mechanic, except as provided herein, mechanical permits may be issued to the general contractor, on behalf of the master mechanic, for new one and two family dwellings and building alteration or building additions for one and two family dwellings to install all or part of any HVACR system. All mechanical work must be performed by a mechanic licensed by the City of Columbia, or as allowed by ordinance. A licensed chimney sweep (Type D) shall be permitted to make application for a permit to install all or part of any equipment as defined in Section 101.10, Scope of Work, and item 5.

Any permit required by this code may be issued to any person to do any work regulated by this code in a single-family dwelling used exclusively for living purposes, including the usual accessory buildings and quarters in connection with such buildings, provided the person is a bona fide owner of such dwelling and that the dwelling will be occupied by the owner, and that the owner shall personally purchase all material and perform all labor in connection therewith. Any person obtaining a permit under this section shall not be issued another permit within two years.

Exception: Plumbers holding a maintenance journeyman mechanic certificate who are regular employees of the firm or corporation for which the work is to be performed, may obtain a permit to do plumbing work on the premises of the firm or corporation provided the work is not associated with work requiring a building permit.

101.10 Scope of work. The scope of work authorized by each type of certificate shall be as follows:

- 1. The mechanical Masters Certificate (Type A) shall authorize the grantee to engage in the business of contracting for the installation, repair, altering, and making additions to mechanical equipment and appurtenances; and to supervise construction or installation of same.
- 2. A mechanical Journeyman Certificate (Type B) shall authorize the grantee to perform mechanical work under persons or firms holding a mechanical Masters Certificate (Type A) or to perform mechanical work as a regular employee for, and on the premises of, a specified firm or corporation.

- 3. A mechanical maintenance Journeyman Certificate shall be authorized to perform mechanical work as a regular employee for, and on the premises of, a specified firm or corporation.
- 4. An apprentice Mechanical Certificate (Type C) shall authorize the grantee to perform mechanical work only when under the immediate supervision of a mechanic holding Type A or B Certificate. The ratio shall not exceed three apprentices to one mechanic. Immediate supervision is defined as being on the job site with the apprentice while work is being accomplished.
- 5. A Chimney Sweep Certificate (Type D) shall authorize the grantee to engage in the business of contracting for the installation, repair, altering, and making additions to Chimney equipment and appurtenances as defined by the current mechanical code, that are not regulated by the building code; and to supervise construction or installation of same.

Section 103 DEPARTMENT OF COMMUNITY DEVELOPMENT - DIVISION OF BUILDING AND SITE DEVELOPMENT

103.1 Director. The administration and enforcement of this code shall be the duty of the director of community development, who is designated the code official for purposes of this code. The code official is hereby authorized to take such action as may be reasonably necessary to enforce the provisions of this code. Such persons may be appointed and authorized as assistants or representatives of the director as may be necessary to carry out the provisions of this code.

103.2 Restriction of employees. An employee connected with the Department of Community Development - Division of Building and Site Development shall not be engaged in or directly or indirectly connected with the furnishing of labor, materials or appliances for the construction, alteration or maintenance of a building, or the preparation of plans or of specifications therefore, unless the employee is the owner of the building; nor shall such employee engage in any work which conflicts with employee's official duties or with the interest of the department.

103.3 Liability. Any officer or employee charged with the enforcement of this code, while acting on behalf of the city, shall not thereby render such individual liable personally, and is hereby relieved from all personal liability for any damage accruing to persons or property as a result of any act performed in the discharge of official duties. Any suit instituted against any officer or employee because of an act performed by that officer or employee in the lawful discharge of 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 officer or employee shall not be liable for costs in any action, suit or proceeding that is instituted pursuant to the provisions of this code; and any officer or employee acting within the scope of employment and 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 official duties in connection therewith. Nothing contained herein shall be

deemed a waiver of the immunities and protection afforded to the city or officers and employees pursuant to state and federal law.

103.4 Delete in its entirety.

106.1 When required. An owner, authorized agent or contractor who desires to erect, install, enlarge, alter, repair, remove, convert or replace a mechanical system, the installation of which is regulated by this code, or to cause such work to be done, shall first make application as required by Section 101.9 to the code official and obtain the required permit for the work.

Exception: Where equipment replacements and repairs must be performed in an emergency situation, the permit application shall be submitted within the next working business day of the division of building and site development.

106.5.2 Fee schedule. The fees for all mechanical and fuel gas work shall be as indicated in the following schedule:

\$0.00 to \$1,000.00	\$35.00
\$1,000.01 to \$5,000.00	\$25.00 plus \$6.25 per thousand over \$1,000.00
\$5,000.01 to \$10,000.00	\$50.00 plus \$5.00 per thousand over \$5,000.00
\$10,000.01 to \$20,000.00	\$75.00 plus \$3.75 per thousand over \$10,000.00
Over \$20,000.00	\$112.50 plus \$2.50 per thousand over \$20,000.00

106.5.3 Fee refunds. The code official shall authorize the refunding of fees as follows:

- 1. The full amount of any fee paid hereunder which was erroneously paid or collected.
- 2. Not more than seventy-five (75) percent of the permit fee paid when no work has been done under a permit issued in accordance with this code.

The code official shall not authorize the refunding of any fee paid, except upon written application filed by the original permittee not later than 180 days after the date of fee payment.

3. Delete in its entirety

108.4 Violation penalties. Any person who shall violate a provision of this code or shall fail to comply with any of the requirements thereof shall be guilty of a misdemeanor and upon conviction thereof shall be punished by a fine of not more than one thousand dollars (\$1,000.00) or by imprisonment not exceeding one year, or by both such fine and imprisonment. Each day that a violation continues shall be deemed a separate offense.

108.5 Stop work orders. Upon notice from the code official that mechanical work is being done contrary to the provisions of this code or in a dangerous or unsafe manner, such work shall immediately cease. Such notice shall be in writing and shall be given to the owner of

the property, or to the owner's agent, or to the person doing the work. The notice shall state the conditions under which work is authorized to resume. Where an emergency exists, the code official shall not be required to give a written notice prior to stopping the work. Any person who shall continue any work on the system after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be liable to a fine of not less than one hundred dollars (\$100.00) or more than one thousand dollars (\$1,000.00).

109.1 Appeals. The owner of a building or structure or any person directly affected by a decision of the code official may appeal to the building construction codes commission from a decision of the official refusing to grant modifications of the provisions of the Mechanical Code covering the manner of installation, or materials to be used in the installation. The procedure for appeal shall be governed by Section 113 of the Building Code of Columbia, Missouri.

109.2 Members of board. Delete.

304.11 Guards. Delete exception.

504.8.2 Duct installation. Delete from the end of the last sentence the following words: "that protrude more than 1/8 inch (3.2 mm) into the inside of the duct".

SECTION 2. The repeal of Article V of Chapter 6 of the Code of Ordinances, City of Columbia, Missouri, relating to the 2012 Edition of the International Mechanical Code shall not affect any offense or act committed or done or any penalty or forfeiture incurred before the effective date of this ordinance.

SECTION 3. This ordinance shall be in full force and effect from and after October 1, 2016.

	PASSED this	_ day of		, 2016.
ATTI	EST:			
City Clerk			Mayor and Presiding Officer	
APP	ROVED AS TO FORM:			
C:t-	Compoler			
UILV (Counselor			